APPENDIX C

ANALYTICAL RESULTS, LABORATORY ANALYTICAL REPORTS, AND CHAIN OF CUSTODY FORMS

PART 9
ANALYTICAL REPORTS
240-22663-1
240-49071-1

(Note—To be provided on disc only)

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81726/22-A

Matrix: Solid | Lab File ID: P3041915.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:07

Sample wt/vol: 30.00(g) | Date Analyzed: 04/19/2013 15:37

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82685 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	33.9		2.0	0.67	0.62
72-55-9	4,4'-DDE	28.1		1.7	0.67	0.39
50-29-3	4,4'-DDT	32.9		2.0	0.67	0.63
309-00-2	Aldrin	26.3		4.0	1.3	1.2
319-84-6	alpha-BHC	30.7		2.5	1.3	0.73
5103-71-9	alpha-Chlordane	28.5		3.0	1.3	0.94
319-85-7	beta-BHC	29.5		3.5	1.3	1.1
319-86-8	delta-BHC	31.8		4.0	1.3	1.2
60-57-1	Dieldrin	32.2		1.7	0.67	0.47
959-98-8	Endosulfan I	21.7		1.7	0.67	0.52
33213-65-9	Endosulfan II	26.3		2.5	1.3	0.82
1031-07-8	Endosulfan sulfate	30.9		3.0	1.3	0.87
72-20-8	Endrin	32.4		1.7	0.67	0.50
7421-93-4	Endrin aldehyde	24.9		3.0	1.3	1.0
53494-70-5	Endrin ketone	28.9		2.0	0.67	0.63
58-89-9	gamma-BHC (Lindane)	31.1		2.5	1.3	0.74
5103-74-2	gamma-Chlordane	31.5		1.7	0.67	0.42
76-44-8	Heptachlor	33.7		3.5	1.3	1.1
1024-57-3	Heptachlor epoxide	31.5		2.5	1.3	0.80
72-43-5	Methoxychlor	32.7		5.0	3.3	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	85		55-130
877-09-8	Tetrachloro-m-xylene	95		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041915.D
Lims ID: LCS 240-81726/22-A Client ID:
Inject. Date: 19-Apr-2013 15:37:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019054-015
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 82685 Lims Sample ID: 15
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130419-19054.b\PEST3.m
Last Update: 20-Apr-2013 07:39:36 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

First Level Reviewer: shockr Date: 19-Apr-2013 16:53:03

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.482	3.490	-0.008	20867465	0.0190			
2	100	4.077	4.092	-0.015	12312622	0.0204			
						RPD = 7.21			
5 alpha-BHC									
1	100	4.172	4.181	-0.009	149335227	0.0920			
2	100	4.927	4.949	-0.022	85998567	0.1117			
						RPD = 19.37			
20 gamma-BHC (Lindane)									
1	100	4.551	4.561	-0.010	135955197	0.0934			
2	100	5.506	5.533	-0.027	72290686	0.1068			
						RPD = 13.33			
7 beta-BHC									
1	100	4.684	4.695	-0.011	54805398	0.0886			
2	100	5.689	5.719	-0.030	30463520	0.1030			
						RPD = 15.04			
11 delta-BHC									
1	100	4.899	4.910	-0.011	141251960	0.0954			
2	100	6.271	6.304	-0.033	73411387	0.1055			
						RPD = 10.06			
22 Heptachlor									
1	100	5.183	5.194	-0.011	130322379	0.1012			
2	100	6.334	6.366	-0.032	63304929	0.1086			
						RPD = 7.07			
4 Aldrin									
1	100	5.635	5.644	-0.009	107172678	0.0788			
2	100	7.079	7.115	-0.036	69742782	0.1047			
						RPD = 28.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	6.867	6.870	-0.003	116414303	0.0946			
2	100	8.578	8.607	-0.029	65939369	0.1134			
						RPD = 18.05			
21 gamma-Chlordane									
1	100	7.172	7.172	0.000	119316337	0.0944			
2	100	8.985	9.012	-0.027	62428164	0.1064			
						RPD = 11.94			
6 alpha-Chlordane									
1	100	7.520	7.520	0.000	110363587	0.0856			
2	100	9.295	9.322	-0.027	61498167	0.1008			
						RPD = 16.30			
14 Endosulfan I									
1	100	7.795	7.795	0.000	75052783	0.0651			
2	100	9.361	9.388	-0.027	46254519	0.0871			
						RPD = 28.84			
2 4,4'-DDE									
1	100	7.900	7.897	0.003	106941906	0.0844			
2	100	9.740	9.766	-0.026	61515656	0.1009			
						RPD = 17.73			
13 Dieldrin									
1	100	8.357	8.357	0.000	122462647	0.0965			
2	100	9.888	9.914	-0.026	63175598	0.1063			
						RPD = 9.60			
17 Endrin									
1	100	8.816	8.816	0.000	115645868	0.0973			
2	100	10.412	10.435	-0.023	59727489	0.1115			
						RPD = 13.63			
1 4,4'-DDD									
1	100	9.179	9.182	-0.003	98681203	0.1017			
2	100	10.750	10.775	-0.025	54419137	0.1273			
						RPD = 22.35			
15 Endosulfan II									
1	100	9.266	9.268	-0.002	86318871	0.0789			
2	100	10.783	10.807	-0.024	43820395	0.0903			
						RPD = 13.48			
3 4,4'-DDT									
1	100	9.704	9.706	-0.002	90938934	0.0986			
2	100	11.231	11.256	-0.025	41613636	0.1052			
						RPD = 6.47			
18 Endrin aldehyde									
1	100	10.067	10.070	-0.003	65893735	0.0748			
2	100	11.347	11.374	-0.027	34307939	0.0868			
						RPD = 14.87			
27 Methoxychlor									
1	100	10.664	10.667	-0.003	45327556	0.0982			
2	100	12.309	12.336	-0.027	20819460	0.1043			
						RPD = 6.04			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.797	10.800	-0.003	90830062	0.0926			
2	100	11.765	11.791	-0.026	48214292	0.1090			
						RPD = 16.31			
19 Endrin ketone									
1	100	11.200	11.201	-0.001	99205356	0.0867			
2	100	12.512	12.539	-0.027	51856105	0.1034			
						RPD = 17.60			
$ 10 DCB Decachlorobiphenyl									M
1	100	12.841	12.824	0.017	16368746	0.0170			
2	100	14.225	14.253	-0.028	8213728	0.0171			M
						RPD = 0.24			

QC Flag Legend

Review Flags
M - Manually Integrated

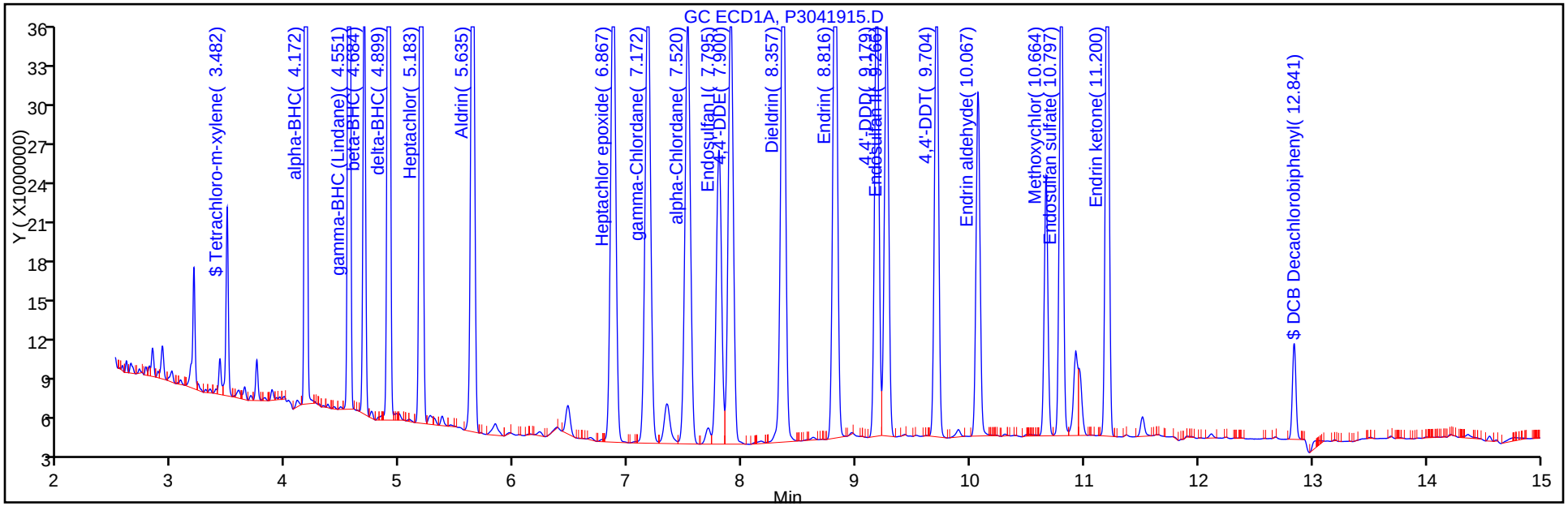
Report Date: 20-Apr-2013 07:39:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

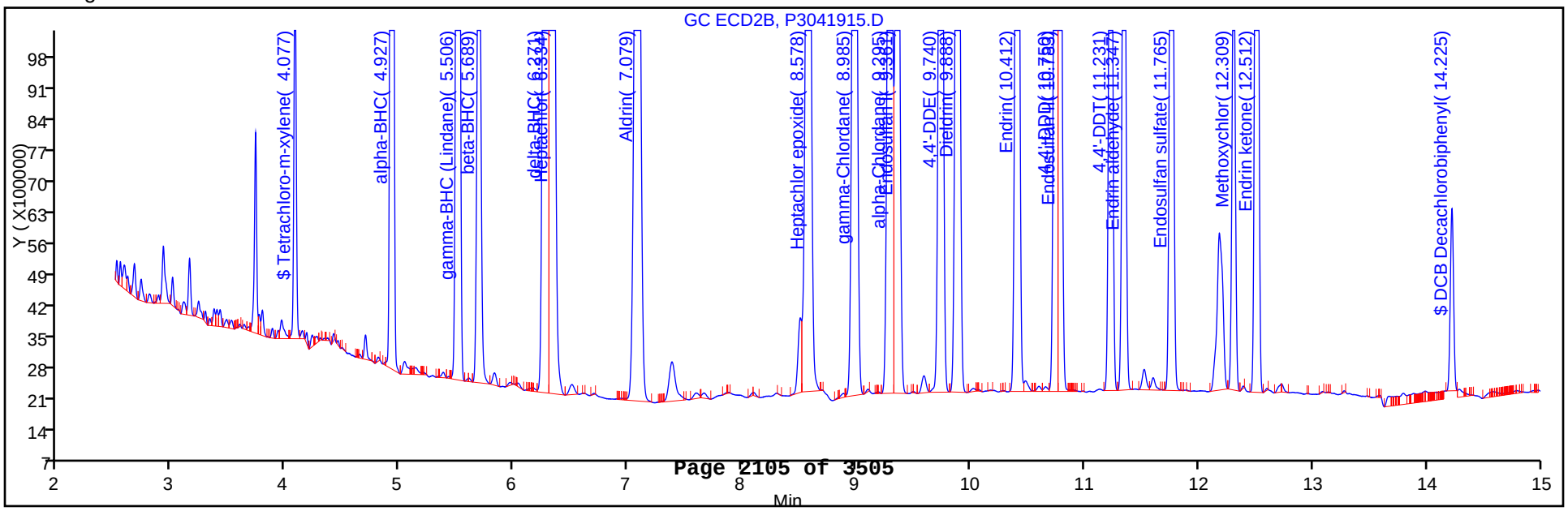
Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041915.D

Injection Date:	19-Apr-2013 15:37:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-81726/22-A

Matrix: Solid Lab File ID: P3041915.D

Analysis Method: 8081/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/12/2013 11:07

Sample wt/vol: 30.00(g) Date Analyzed: 04/19/2013 15:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82685 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	85	*M*	55-130
877-09-8	Tetrachloro-m-xylene	102		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041915.D
Lims ID: LCS 240-81726/22-A Client ID:
Inject. Date: 19-Apr-2013 15:37:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019054-015
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 82685 Lims Sample ID: 15
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130419-19054.b\PEST3.m
Last Update: 20-Apr-2013 07:39:36 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

First Level Reviewer: shockr Date: 19-Apr-2013 16:53:03

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.482	3.490	-0.008	20867465	0.0190			
2	100	4.077	4.092	-0.015	12312622	0.0204			
						RPD = 7.21			
5 alpha-BHC									
1	100	4.172	4.181	-0.009	149335227	0.0920			
2	100	4.927	4.949	-0.022	85998567	0.1117			
						RPD = 19.37			
20 gamma-BHC (Lindane)									
1	100	4.551	4.561	-0.010	135955197	0.0934			
2	100	5.506	5.533	-0.027	72290686	0.1068			
						RPD = 13.33			
7 beta-BHC									
1	100	4.684	4.695	-0.011	54805398	0.0886			
2	100	5.689	5.719	-0.030	30463520	0.1030			
						RPD = 15.04			
11 delta-BHC									
1	100	4.899	4.910	-0.011	141251960	0.0954			
2	100	6.271	6.304	-0.033	73411387	0.1055			
						RPD = 10.06			
22 Heptachlor									
1	100	5.183	5.194	-0.011	130322379	0.1012			
2	100	6.334	6.366	-0.032	63304929	0.1086			
						RPD = 7.07			
4 Aldrin									
1	100	5.635	5.644	-0.009	107172678	0.0788			
2	100	7.079	7.115	-0.036	69742782	0.1047			
						RPD = 28.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	6.867	6.870	-0.003	116414303	0.0946			
2	100	8.578	8.607	-0.029	65939369	0.1134			
						RPD = 18.05			
21 gamma-Chlordane									
1	100	7.172	7.172	0.000	119316337	0.0944			
2	100	8.985	9.012	-0.027	62428164	0.1064			
						RPD = 11.94			
6 alpha-Chlordane									
1	100	7.520	7.520	0.000	110363587	0.0856			
2	100	9.295	9.322	-0.027	61498167	0.1008			
						RPD = 16.30			
14 Endosulfan I									
1	100	7.795	7.795	0.000	75052783	0.0651			
2	100	9.361	9.388	-0.027	46254519	0.0871			
						RPD = 28.84			
2 4,4'-DDE									
1	100	7.900	7.897	0.003	106941906	0.0844			
2	100	9.740	9.766	-0.026	61515656	0.1009			
						RPD = 17.73			
13 Dieldrin									
1	100	8.357	8.357	0.000	122462647	0.0965			
2	100	9.888	9.914	-0.026	63175598	0.1063			
						RPD = 9.60			
17 Endrin									
1	100	8.816	8.816	0.000	115645868	0.0973			
2	100	10.412	10.435	-0.023	59727489	0.1115			
						RPD = 13.63			
1 4,4'-DDD									
1	100	9.179	9.182	-0.003	98681203	0.1017			
2	100	10.750	10.775	-0.025	54419137	0.1273			
						RPD = 22.35			
15 Endosulfan II									
1	100	9.266	9.268	-0.002	86318871	0.0789			
2	100	10.783	10.807	-0.024	43820395	0.0903			
						RPD = 13.48			
3 4,4'-DDT									
1	100	9.704	9.706	-0.002	90938934	0.0986			
2	100	11.231	11.256	-0.025	41613636	0.1052			
						RPD = 6.47			
18 Endrin aldehyde									
1	100	10.067	10.070	-0.003	65893735	0.0748			
2	100	11.347	11.374	-0.027	34307939	0.0868			
						RPD = 14.87			
27 Methoxychlor									
1	100	10.664	10.667	-0.003	45327556	0.0982			
2	100	12.309	12.336	-0.027	20819460	0.1043			
						RPD = 6.04			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.797	10.800	-0.003	90830062	0.0926			
2	100	11.765	11.791	-0.026	48214292	0.1090			
						RPD = 16.31			
19 Endrin ketone									
1	100	11.200	11.201	-0.001	99205356	0.0867			
2	100	12.512	12.539	-0.027	51856105	0.1034			
						RPD = 17.60			
$ 10 DCB Decachlorobiphenyl									M
1	100	12.841	12.824	0.017	16368746	0.0170			
2	100	14.225	14.253	-0.028	8213728	0.0171			M
						RPD = 0.24			

QC Flag Legend

Review Flags
M - Manually Integrated

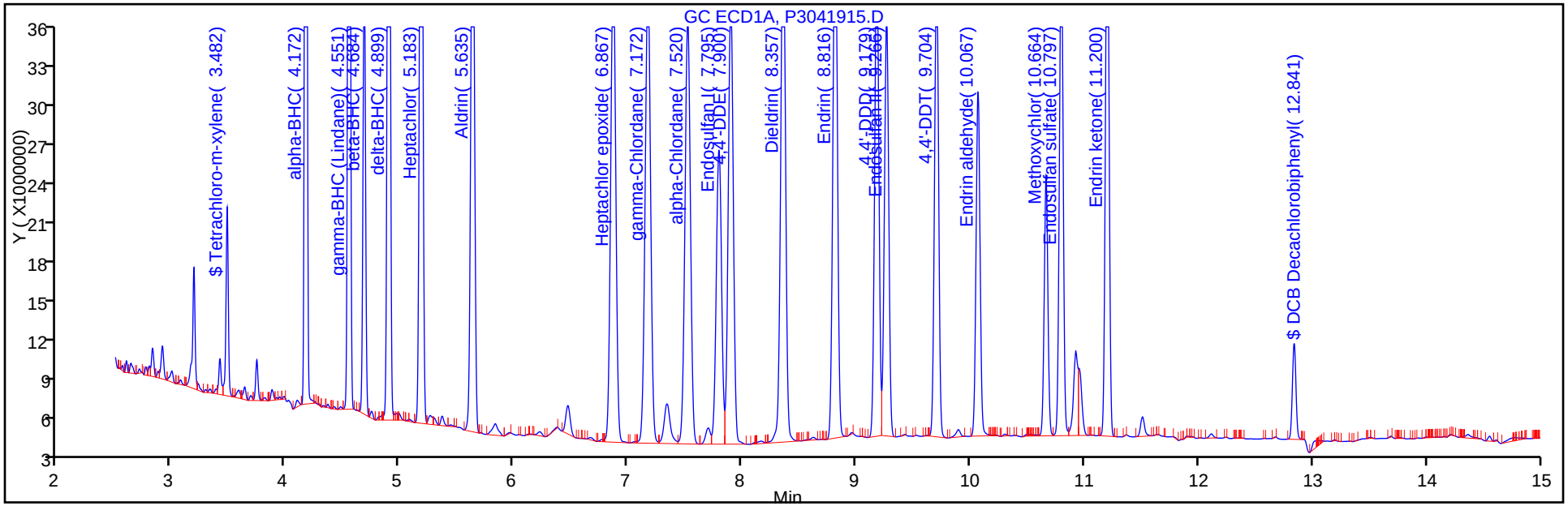
Report Date: 20-Apr-2013 07:39:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

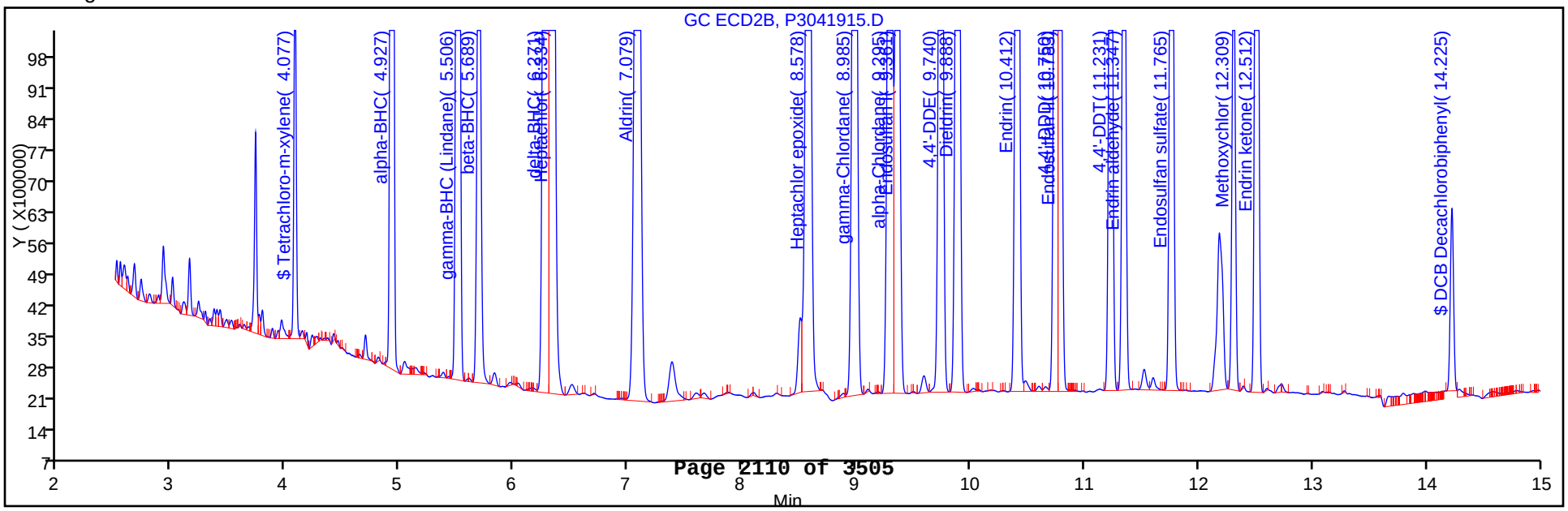
Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041915.D

Injection Date:	19-Apr-2013 15:37:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

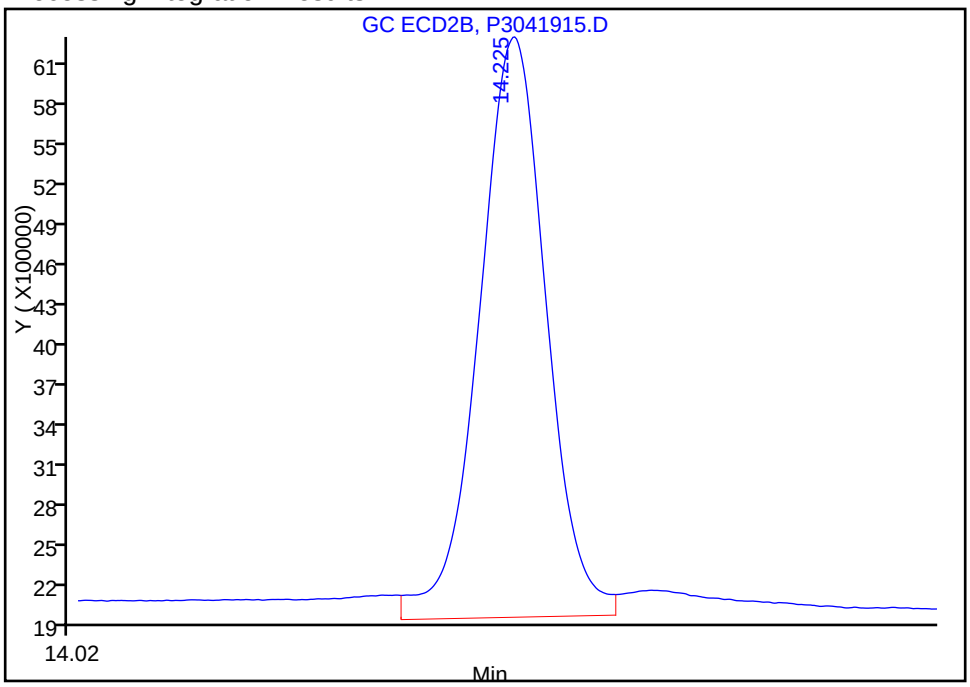
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041915.D		
Injection Date:	19-Apr-2013 15:37:30	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	15
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

$ 10 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 14.25, Det: GC ecd2b

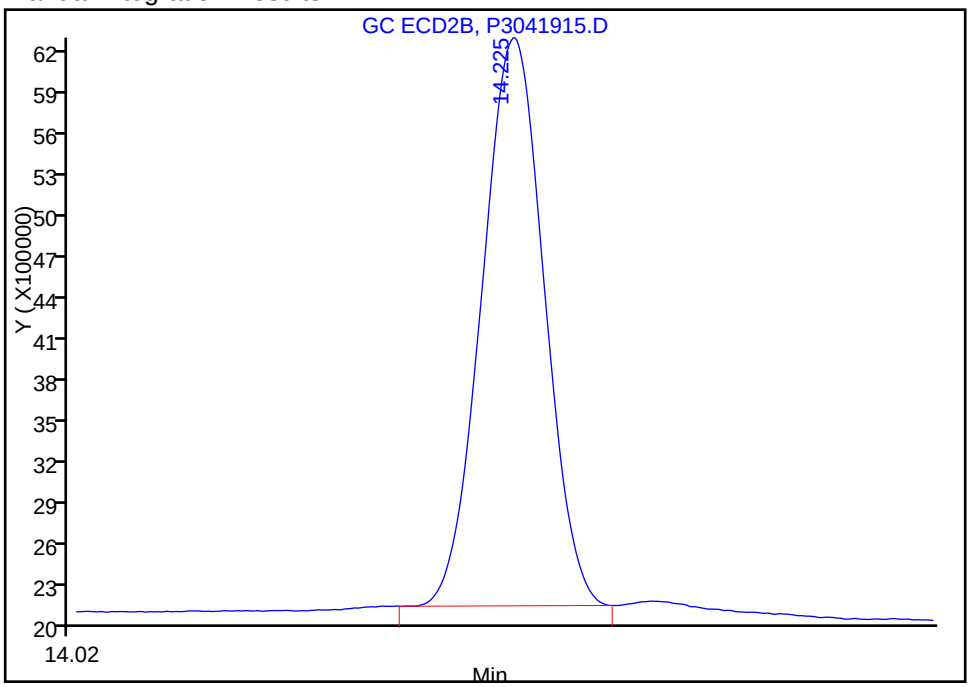
Processing Integration Results

RT: 14.22
Response: 9199751
Amount: 0.019138



Manual Integration Results

RT: 14.22
Response: 8213728
Amount: 0.017087



Reviewer: shockr, 19-Apr-2013 16:53:03
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-83135/19-A

Matrix: Solid | Lab File ID: P3042437.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/23/2013 08:54

Sample wt/vol: 30.00(g) | Date Analyzed: 04/24/2013 22:14

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	40.7		2.0	0.67	0.62
72-55-9	4,4'-DDE	35.1		1.7	0.67	0.39
50-29-3	4,4'-DDT	30.5	M	2.0	0.67	0.63
309-00-2	Aldrin	27.5		4.0	1.3	1.2
319-84-6	alpha-BHC	32.3		2.5	1.3	0.73
5103-71-9	alpha-Chlordane	32.8		3.0	1.3	0.94
319-85-7	beta-BHC	30.5		3.5	1.3	1.1
319-86-8	delta-BHC	34.1		4.0	1.3	1.2
60-57-1	Dieldrin	35.4		1.7	0.67	0.47
959-98-8	Endosulfan I	29.5		1.7	0.67	0.52
33213-65-9	Endosulfan II	36.0		2.5	1.3	0.82
1031-07-8	Endosulfan sulfate	35.5		3.0	1.3	0.87
72-20-8	Endrin	34.5		1.7	0.67	0.50
7421-93-4	Endrin aldehyde	36.5		3.0	1.3	1.0
53494-70-5	Endrin ketone	33.9		2.0	0.67	0.63
58-89-9	gamma-BHC (Lindane)	32.0		2.5	1.3	0.74
5103-74-2	gamma-Chlordane	35.7		1.7	0.67	0.42
76-44-8	Heptachlor	28.4		3.5	1.3	1.1
1024-57-3	Heptachlor epoxide	34.8		2.5	1.3	0.80
72-43-5	Methoxychlor	34.8		5.0	3.3	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	90		55-130
877-09-8	Tetrachloro-m-xylene	131	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042437.D
Lims ID: LCS 240-83135/19-A Client ID:
Inject. Date: 24-Apr-2013 22:14:49 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019209-037
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 37
Lims Batch ID: 83400 Lims Sample ID: 37
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 26-Apr-2013 09:16:41 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: shockr Date: 26-Apr-2013 09:16:40

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.472	3.471	0.001	23185398	0.0263			
2	100	4.068	4.064	0.004	17108496	0.0356			
						RPD = 30.23			
5 alpha-BHC									
1	100	4.161	4.159	0.002	131884985	0.0970			
2	100	4.916	4.915	0.001	75003380	0.1050			
						RPD = 7.92			
20 gamma-BHC (Lindane)									
1	100	4.538	4.537	0.001	115879740	0.0959			
2	100	5.495	5.494	0.001	64261541	0.1025			
						RPD = 6.69			
7 beta-BHC									
1	100	4.670	4.669	0.001	47535353	0.0915			
2	100	5.678	5.679	-0.001	27012291	0.0969			
						RPD = 5.71			
11 delta-BHC									
1	100	4.882	4.882	0.000	125394859	0.1024			
2	100	6.259	6.259	0.000	59716930	0.0920			
						RPD = 10.72			
22 Heptachlor									
1	100	5.162	5.163	-0.001	87868670	0.0851			
2	100	6.321	6.322	-0.001	39852033	0.0806			
						RPD = 5.43			
4 Aldrin									
1	100	5.609	5.609	0.000	89900520	0.0826			
2	100	7.065	7.064	0.001	62769540	0.1084			
						RPD = 26.99			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	6.821	6.822	-0.001	103532572	0.1043			
2	100	8.565	8.565	0.000	55817961	0.1087			
						RPD = 4.12			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	107031465	0.1072			
2	100	8.971	8.970	0.001	56493009	0.1110			
						RPD = 3.57			
6 alpha-Chlordane									
1	100	7.470	7.470	0.000	100696138	0.0984			
2	100	9.280	9.280	0.000	55053230	0.1053			
						RPD = 6.80			
14 Endosulfan I									
1	100	7.745	7.746	-0.001	80278561	0.0886			
2	100	9.346	9.346	0.000	51386212	0.1119			
						RPD = 23.29			
2 4,4'-DDE									
1	100	7.846	7.850	-0.004	102033107	0.1053			
2	100	9.727	9.727	0.000	55782974	0.1123			
						RPD = 6.39			
13 Dieldrin									
1	100	8.311	8.310	0.001	106069647	0.1062			
2	100	9.873	9.874	-0.001	56430106	0.1128			
						RPD = 5.94			
17 Endrin									
1	100	8.771	8.771	0.000	96190320	0.1035			
2	100	10.395	10.396	-0.001	49527448	0.1080			
						RPD = 4.27			
1 4,4'-DDD									
1	100	9.136	9.139	-0.003	91215033	0.1220			
2	100	10.735	10.736	-0.001	48349487	0.1387			
						RPD = 12.83			
15 Endosulfan II									
1	100	9.224	9.225	-0.001	90780522	0.1081			
2	100	10.766	10.766	0.000	49042094	0.1147			
						RPD = 5.96			
3 4,4'-DDT									M
1	100	9.665	9.668	-0.003	64256335	0.0914			M
2	100	11.216	11.217	-0.001	29210016	0.0943			
						RPD = 3.16			
18 Endrin aldehyde									
1	100	10.031	10.030	0.001	70592429	0.1096			
2	100	11.333	11.333	0.000	36233815	0.1121			
						RPD = 2.27			
27 Methoxychlor									
1	100	10.629	10.630	-0.001	36968487	0.1045			
2	100	12.299	12.299	0.000	16360812	0.1061			
						RPD = 1.49			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.761	10.763	-0.002	82621405	0.1065			
2	100	11.750	11.752	-0.002	43451699	0.1131			
						RPD = 6.00			
19 Endrin ketone									
1	100	11.163	11.165	-0.002	91307571	0.1017			
2	100	12.501	12.501	0.000	48351355	0.1125			
						RPD = 10.11			
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.787	-0.002	14883592	0.0180			
2	100	14.216	14.217	-0.001	8072303	0.0187			
						RPD = 3.79			

QC Flag Legend

Review Flags
M - Manually Integrated

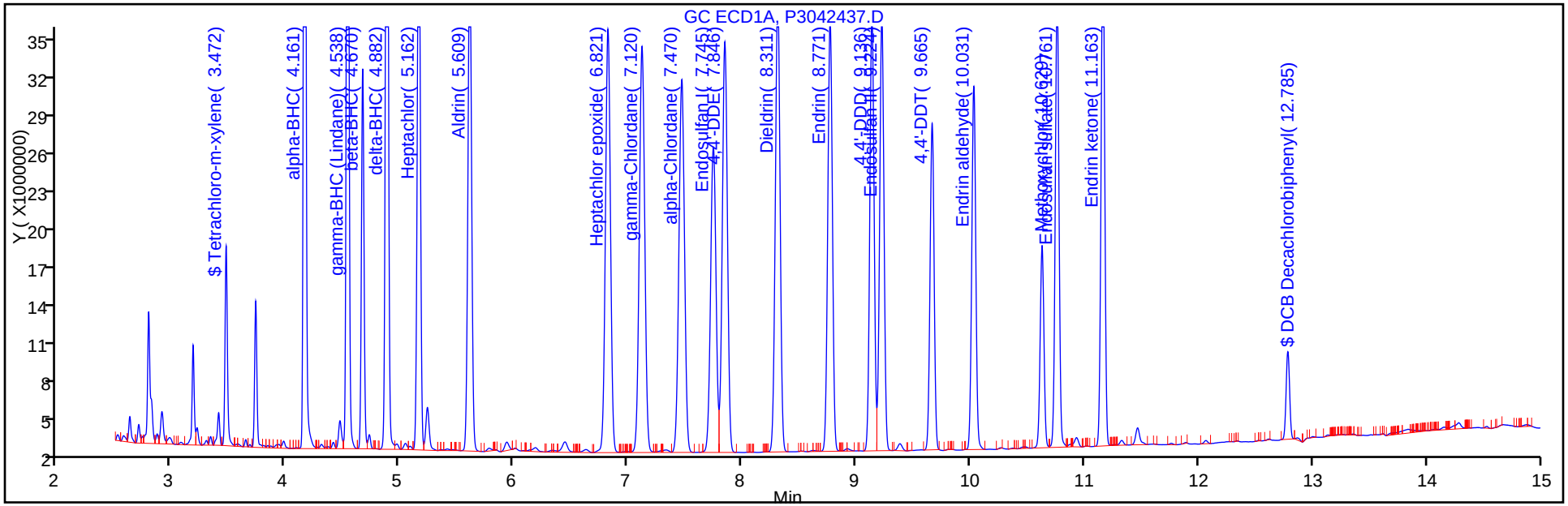
Report Date: 26-Apr-2013 09:16:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

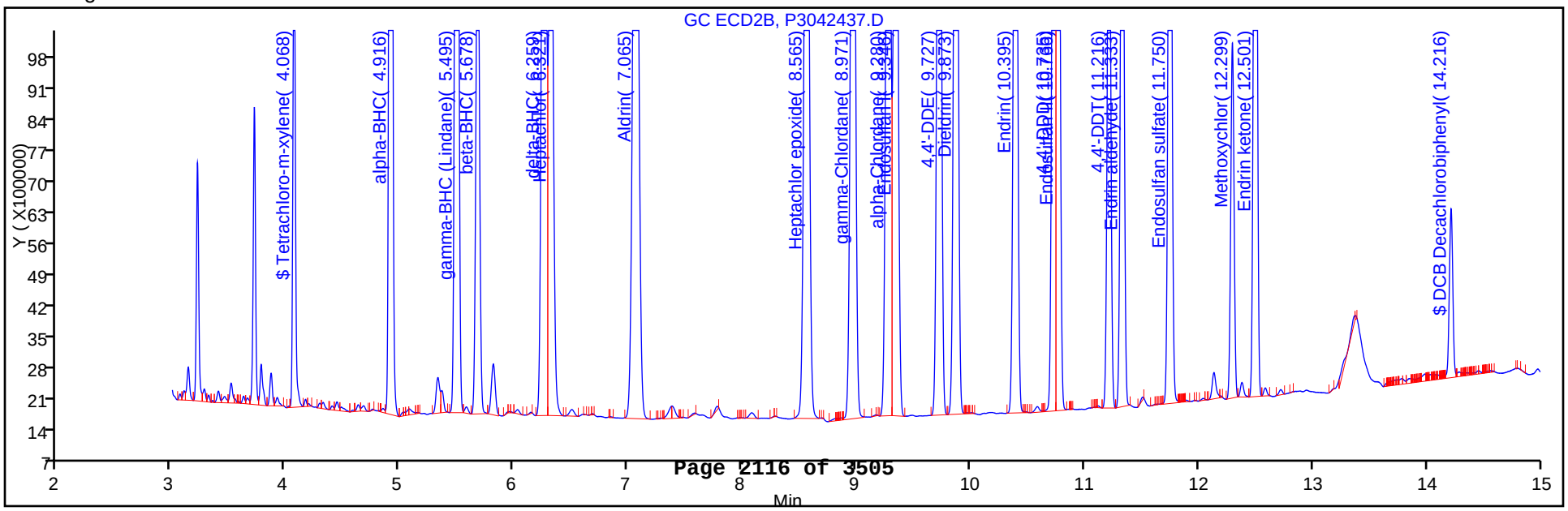
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042437.D

Injection Date:	24-Apr-2013 22:14:49	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	37
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

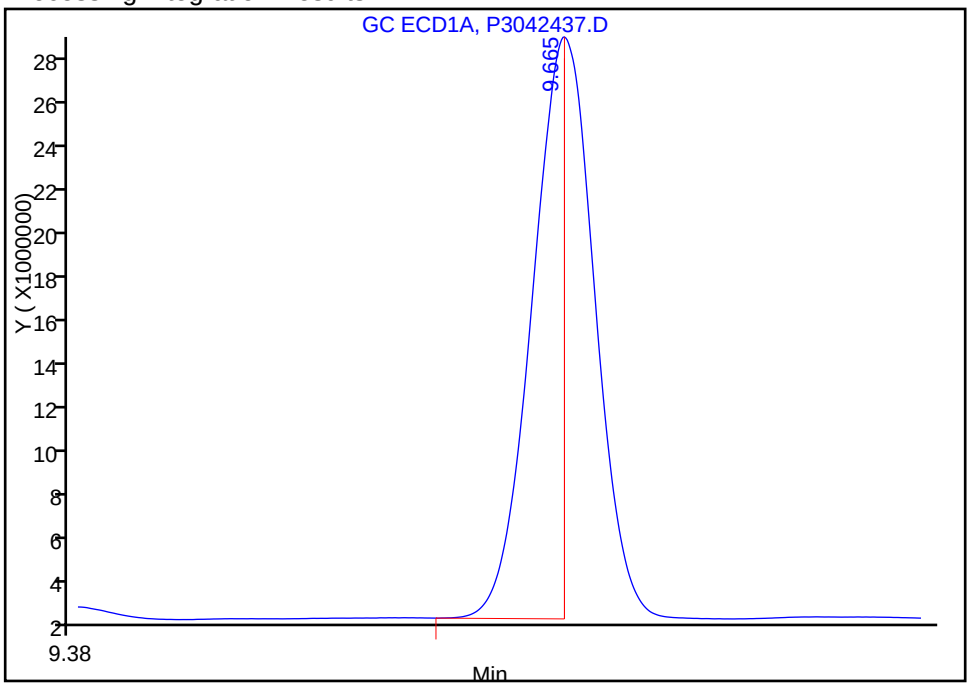
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042437.D		
Injection Date:	24-Apr-2013 22:14:49	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	37
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

3 4,4'-DDT, Signal: 1, Type: quant, RT: 9.67, Det: GC ECD1A

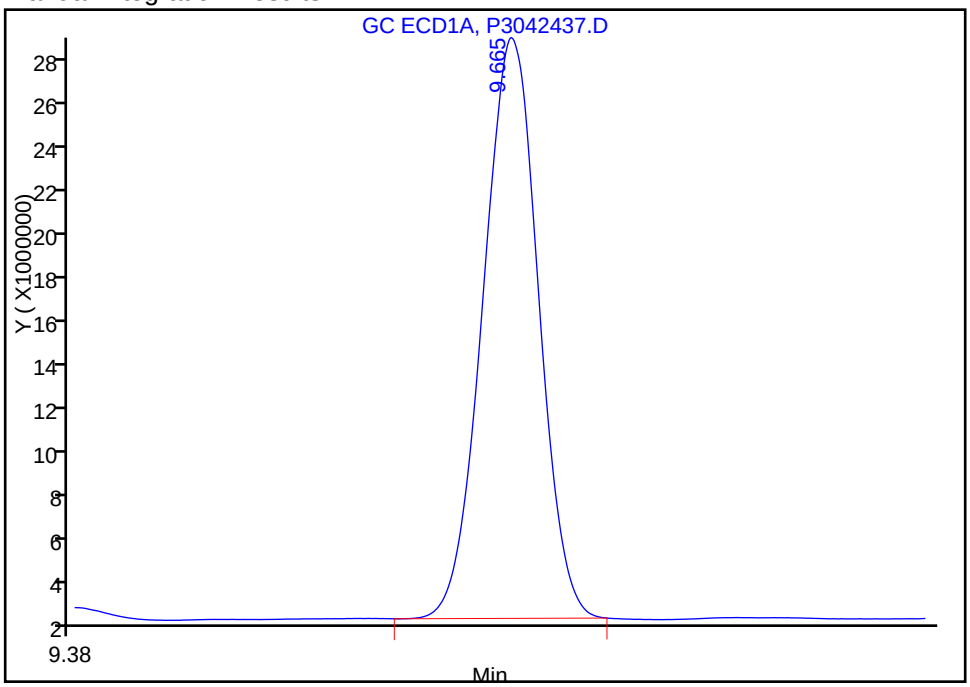
Processing Integration Results

RT: 9.66
Response: 32825227
Amount: 0.046680



Manual Integration Results

RT: 9.66
Response: 64256335
Amount: 0.091377



Reviewer: shockr, 26-Apr-2013 09:16:40
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-83135/19-A

Matrix: Solid Lab File ID: P3042437.D

Analysis Method: 8081/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/23/2013 08:54

Sample wt/vol: 30.00(g) Date Analyzed: 04/24/2013 22:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83400 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	93		55-130
877-09-8	Tetrachloro-m-xylene	178	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042437.D
Lims ID: LCS 240-83135/19-A Client ID:
Inject. Date: 24-Apr-2013 22:14:49 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019209-037
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 37
Lims Batch ID: 83400 Lims Sample ID: 37
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 26-Apr-2013 09:16:41 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: shockr Date: 26-Apr-2013 09:16:40

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.472	3.471	0.001	23185398	0.0263			
2	100	4.068	4.064	0.004	17108496	0.0356			
						RPD = 30.23			
5 alpha-BHC									
1	100	4.161	4.159	0.002	131884985	0.0970			
2	100	4.916	4.915	0.001	75003380	0.1050			
						RPD = 7.92			
20 gamma-BHC (Lindane)									
1	100	4.538	4.537	0.001	115879740	0.0959			
2	100	5.495	5.494	0.001	64261541	0.1025			
						RPD = 6.69			
7 beta-BHC									
1	100	4.670	4.669	0.001	47535353	0.0915			
2	100	5.678	5.679	-0.001	27012291	0.0969			
						RPD = 5.71			
11 delta-BHC									
1	100	4.882	4.882	0.000	125394859	0.1024			
2	100	6.259	6.259	0.000	59716930	0.0920			
						RPD = 10.72			
22 Heptachlor									
1	100	5.162	5.163	-0.001	87868670	0.0851			
2	100	6.321	6.322	-0.001	39852033	0.0806			
						RPD = 5.43			
4 Aldrin									
1	100	5.609	5.609	0.000	89900520	0.0826			
2	100	7.065	7.064	0.001	62769540	0.1084			
						RPD = 26.99			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
23 Heptachlor epoxide									
1	100	6.821	6.822	-0.001	103532572	0.1043			
2	100	8.565	8.565	0.000	55817961	0.1087			
						RPD = 4.12			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	107031465	0.1072			
2	100	8.971	8.970	0.001	56493009	0.1110			
						RPD = 3.57			
6 alpha-Chlordane									
1	100	7.470	7.470	0.000	100696138	0.0984			
2	100	9.280	9.280	0.000	55053230	0.1053			
						RPD = 6.80			
14 Endosulfan I									
1	100	7.745	7.746	-0.001	80278561	0.0886			
2	100	9.346	9.346	0.000	51386212	0.1119			
						RPD = 23.29			
2 4,4'-DDE									
1	100	7.846	7.850	-0.004	102033107	0.1053			
2	100	9.727	9.727	0.000	55782974	0.1123			
						RPD = 6.39			
13 Dieldrin									
1	100	8.311	8.310	0.001	106069647	0.1062			
2	100	9.873	9.874	-0.001	56430106	0.1128			
						RPD = 5.94			
17 Endrin									
1	100	8.771	8.771	0.000	96190320	0.1035			
2	100	10.395	10.396	-0.001	49527448	0.1080			
						RPD = 4.27			
1 4,4'-DDD									
1	100	9.136	9.139	-0.003	91215033	0.1220			
2	100	10.735	10.736	-0.001	48349487	0.1387			
						RPD = 12.83			
15 Endosulfan II									
1	100	9.224	9.225	-0.001	90780522	0.1081			
2	100	10.766	10.766	0.000	49042094	0.1147			
						RPD = 5.96			
3 4,4'-DDT									M
1	100	9.665	9.668	-0.003	64256335	0.0914			M
2	100	11.216	11.217	-0.001	29210016	0.0943			
						RPD = 3.16			
18 Endrin aldehyde									
1	100	10.031	10.030	0.001	70592429	0.1096			
2	100	11.333	11.333	0.000	36233815	0.1121			
						RPD = 2.27			
27 Methoxychlor									
1	100	10.629	10.630	-0.001	36968487	0.1045			
2	100	12.299	12.299	0.000	16360812	0.1061			
						RPD = 1.49			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
16 Endosulfan sulfate									
1	100	10.761	10.763	-0.002	82621405	0.1065			
2	100	11.750	11.752	-0.002	43451699	0.1131			
						RPD = 6.00			
19 Endrin ketone									
1	100	11.163	11.165	-0.002	91307571	0.1017			
2	100	12.501	12.501	0.000	48351355	0.1125			
						RPD = 10.11			
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.787	-0.002	14883592	0.0180			
2	100	14.216	14.217	-0.001	8072303	0.0187			
						RPD = 3.79			

QC Flag Legend

Review Flags
M - Manually Integrated

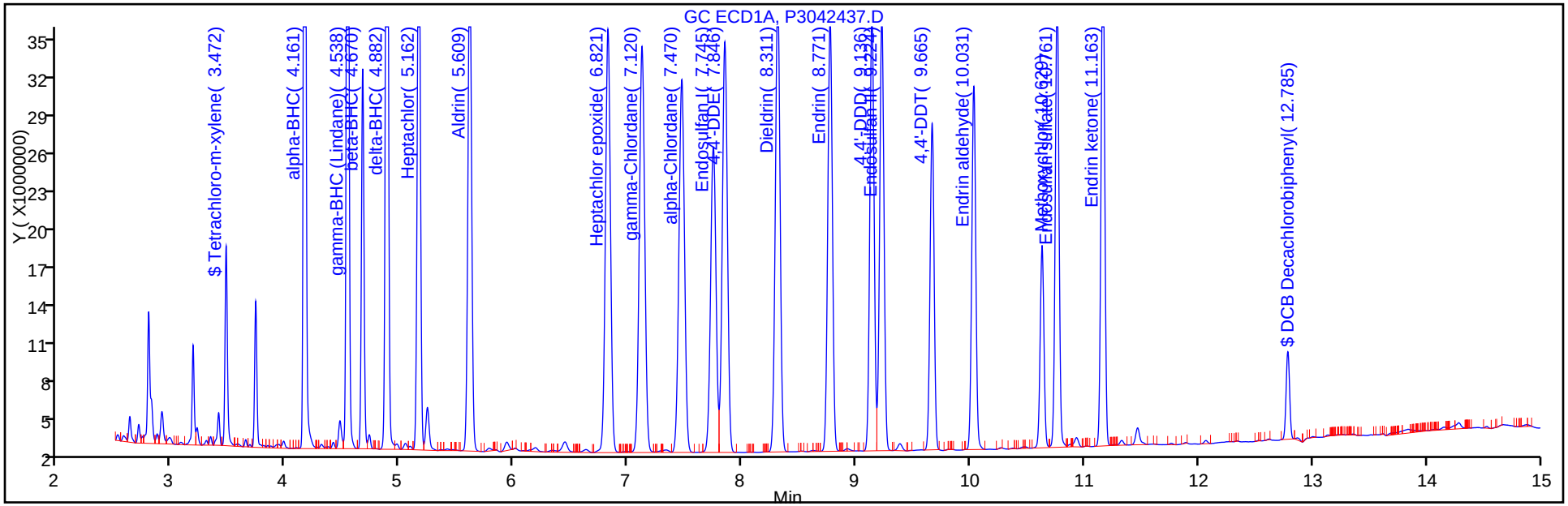
Report Date: 26-Apr-2013 09:16:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

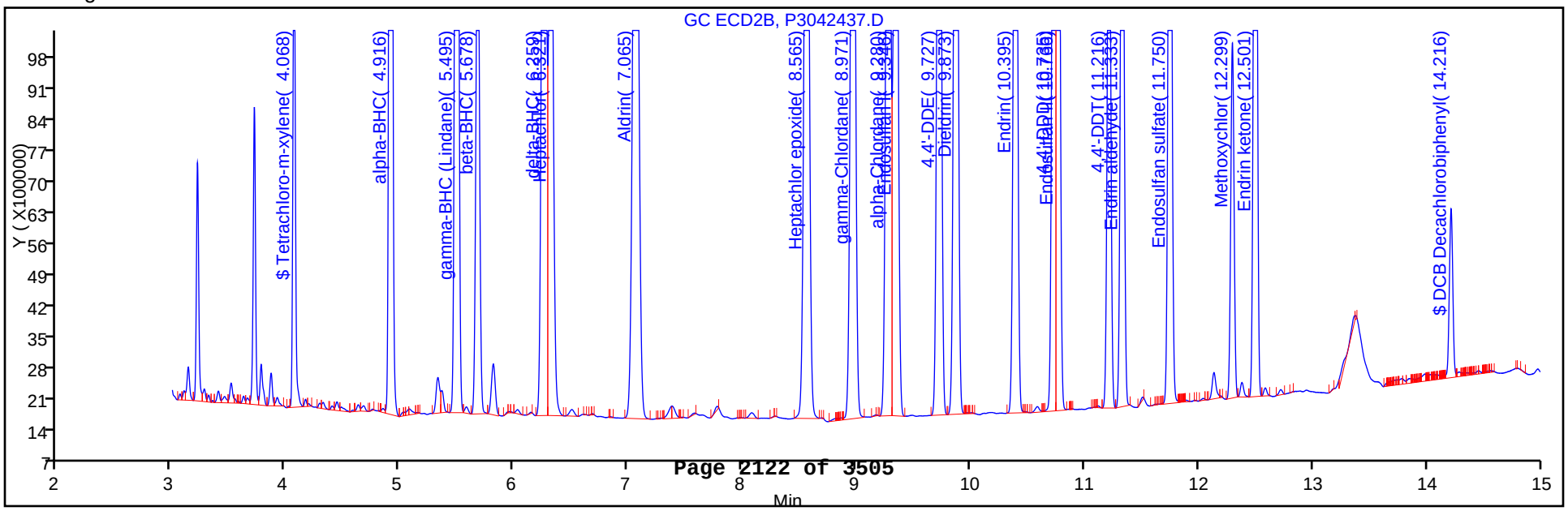
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042437.D

Injection Date:	24-Apr-2013 22:14:49	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	37
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82685/6

Matrix: Solid | Lab File ID: P3041906.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 12:05

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82685 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00539		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00528		0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00649		0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00525		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00515		0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00559		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00590		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00527		0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00536		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00588		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00571		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00597		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00563		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00611		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00605		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00534		0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00558		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00612		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00578		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00772	J ^	0.010	0.0030	0.0032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	124		50-150
877-09-8	Tetrachloro-m-xylene	103		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041906.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 12:05:50 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019054-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 82685 Lims Sample ID: 6
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130419-19054.b\PEST3.m
Last Update: 20-Apr-2013 07:39:31 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.490	3.490	0.000	5660169	0.005145			
2	100	4.093	4.092	0.001	2901912	0.004805			
						RPD = 6.84			
12 Diallate									1
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.963						
2	100		4.709						
5 alpha-BHC									
1	100	4.182	4.181	0.001	8354640	0.005145			
2	100	4.948	4.949	-0.001	4118324	0.005349			
						RPD = 3.88			
20 gamma-BHC (Lindane)									
1	100	4.562	4.561	0.001	7768479	0.005338			
2	100	5.532	5.533	-0.001	3888190	0.005743			
						RPD = 7.30			
7 beta-BHC									
1	100	4.695	4.695	0.000	3651597	0.005904			
2	100	5.719	5.719	0.000	1934184	0.006541			
						RPD = 10.23			
11 delta-BHC									
1	100	4.910	4.910	0.000	7803060	0.005272			
2	100	6.303	6.304	-0.001	3970697	0.005708			
						RPD = 7.95			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.071						
1	2		5.936						
1	3		7.176						
1	4		7.524						
2	100		6.031						
2	2		7.601						
2	3		8.985						
2	4		9.294						
22 Heptachlor									
1	100	5.195	5.194	0.001	7878470	0.006117			
2	100	6.365	6.366	-0.001	3731787	0.006401			
						RPD = 4.55			
4 Aldrin									
1	100	5.645	5.644	0.001	7137164	0.005248			
2	100	7.114	7.115	-0.001	3663446	0.005500			
						RPD = 4.69			
25 Isodrin									
1	100		6.228						
2	100		8.129						
23 Heptachlor epoxide									
1	100	6.873	6.870	0.003	7114713	0.005784			
2	100	8.608	8.607	0.001	3519463	0.006054			
						RPD = 4.56			
21 gamma-Chlordane									
1	100	7.173	7.172	0.001	7049094	0.005579			
2	100	9.012	9.012	0.000	3478002	0.005929			
						RPD = 6.08			
6 alpha-Chlordane									
1	100	7.523	7.520	0.003	7204124	0.005586			
2	100	9.320	9.322	-0.002	3537479	0.005796			
						RPD = 3.69			
14 Endosulfan I									
1	100	7.796	7.795	0.001	6775982	0.005879			
2	100	9.387	9.388	-0.001	3246888	0.006111			
						RPD = 3.87			
2 4,4'-DDE									
1	100	7.896	7.897	-0.001	6691400	0.005283			
2	100	9.767	9.766	0.001	3180547	0.005215			
						RPD = 1.30			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.359	8.357	0.002	6796684	0.005358			
2	100	9.913	9.914	-0.001	3340082	0.005619			
						RPD = 4.76			
17 Endrin									
1	100	8.816	8.816	0.000	6700483	0.005635			
2	100	10.435	10.435	0.000	3249440	0.006065			
						RPD = 7.35			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									1
1	100		8.885						
2	100		10.592						
1 4,4'-DDD									
1	100	9.181	9.182	-0.001	5232701	0.005393			
2	100	10.776	10.775	0.001	2390862	0.005592			
						RPD = 3.63			
15 Endosulfan II									
1	100	9.269	9.268	0.001	6247036	0.005707			
2	100	10.808	10.807	0.001	3189342	0.006570			
						RPD = 14.05			
9 Chlorobenzilate									1
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.709	9.706	0.003	5987496	0.006493			
2	100	11.255	11.256	-0.001	2638187	0.006670			
						RPD = 2.69			
18 Endrin aldehyde									
1	100	10.073	10.070	0.003	5383114	0.006112			
2	100	11.372	11.374	-0.002	2632359	0.006663			
						RPD = 8.62			
30 Toxaphene									1
1	1		10.259						
1	2		10.607						
1	3		10.756						
1	4		11.175						
1	5		11.442						
2	100		10.333						
2	2		10.932						
2	3		11.354						
2	4		12.094						
2	5		12.655						
27 Methoxychlor									
1	100	10.670	10.667	0.003	3563183	0.007722			
2	100	12.336	12.336	0.000	1573091	0.007884			
						RPD = 2.08			
16 Endosulfan sulfate									
1	100	10.803	10.800	0.003	5860034	0.005973			
2	100	11.790	11.791	-0.001	2901498	0.006561			
						RPD = 9.38			
19 Endrin ketone									
1	100	11.204	11.201	0.003	6922278	0.006048			
2	100	12.539	12.539	0.000	3334238	0.006648			
						RPD = 9.46			
$ 10 DCB Decachlorobiphenyl									
1	100	12.825	12.824	0.001	5976147	0.006224			
2	100	14.253	14.253	0.000	3155810	0.006565			
						RPD = 5.34			

QC Flag Legend

Processing Flags
1 - Missing Peaks

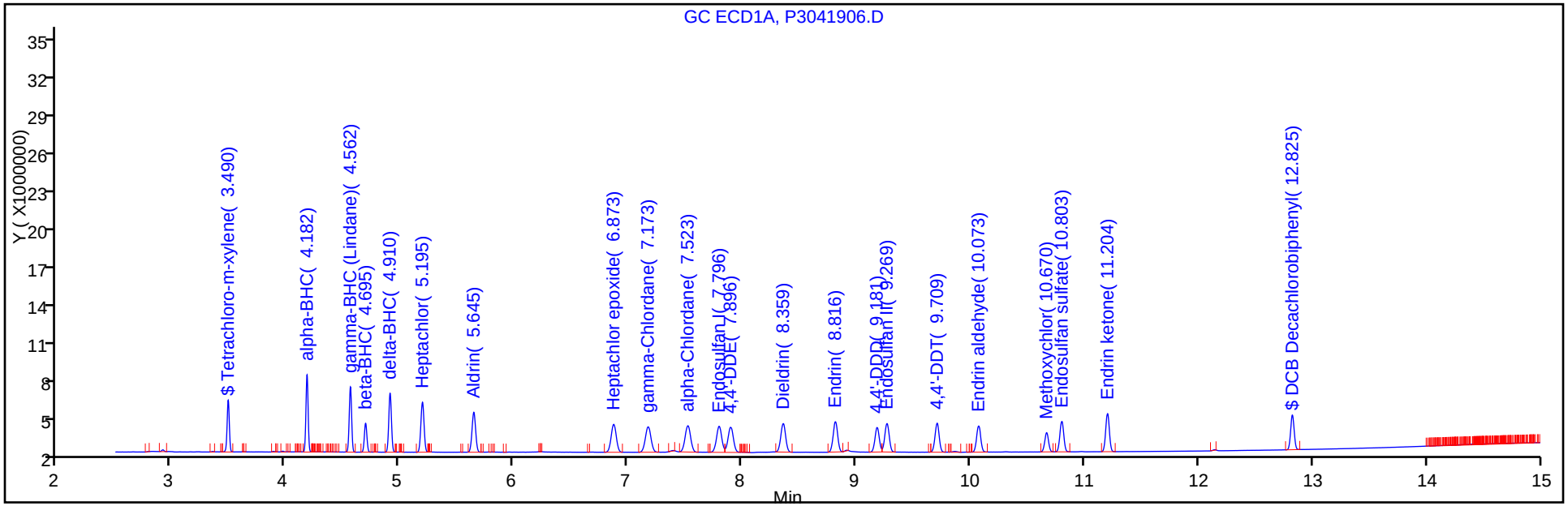
Report Date: 20-Apr-2013 07:39:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

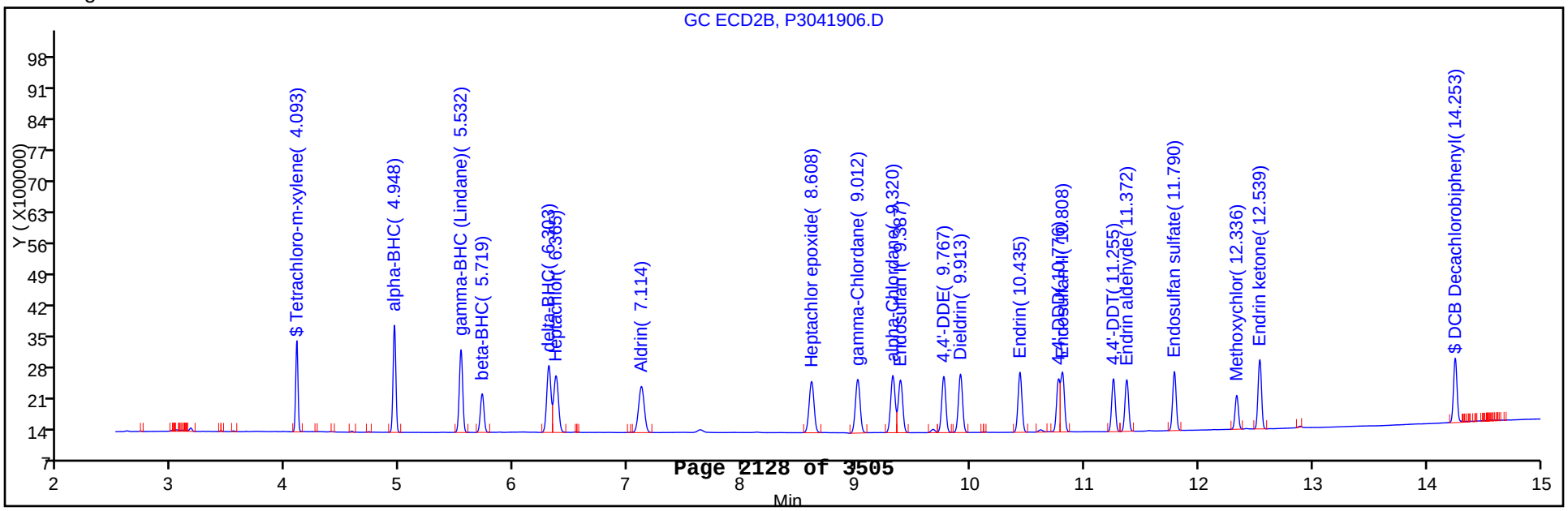
Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041906.D

Injection Date:	19-Apr-2013 12:05:50	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	6
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82685/6

Matrix: Solid | Lab File ID: P3041906.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 12:05

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82685 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00559*		*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00522*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00667*	^	*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00550*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00535*		*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00580*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00654*	^	*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00571*		*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00562*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00611*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00657*	^	*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00656*	^	*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00606*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00666*	^	*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00665*	^	*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00574*		*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00593*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00640*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00605*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00788*	*J ^*	*0.010*	0.0030	*0.0032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	131	*Q*	50-150
877-09-8	Tetrachloro-m-xylene	96		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041906.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 12:05:50 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019054-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 82685 Lims Sample ID: 6
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130419-19054.b\PEST3.m
Last Update: 20-Apr-2013 07:39:31 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.490	3.490	0.000	5660169	0.005145			
2	100	4.093	4.092	0.001	2901912	0.004805			
						RPD = 6.84			
12 Diallate									1
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.963						
2	100		4.709						
5 alpha-BHC									
1	100	4.182	4.181	0.001	8354640	0.005145			
2	100	4.948	4.949	-0.001	4118324	0.005349			
						RPD = 3.88			
20 gamma-BHC (Lindane)									
1	100	4.562	4.561	0.001	7768479	0.005338			
2	100	5.532	5.533	-0.001	3888190	0.005743			
						RPD = 7.30			
7 beta-BHC									
1	100	4.695	4.695	0.000	3651597	0.005904			
2	100	5.719	5.719	0.000	1934184	0.006541			
						RPD = 10.23			
11 delta-BHC									
1	100	4.910	4.910	0.000	7803060	0.005272			
2	100	6.303	6.304	-0.001	3970697	0.005708			
						RPD = 7.95			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.071						
1	2		5.936						
1	3		7.176						
1	4		7.524						
2	100		6.031						
2	2		7.601						
2	3		8.985						
2	4		9.294						
22 Heptachlor									
1	100	5.195	5.194	0.001	7878470	0.006117			
2	100	6.365	6.366	-0.001	3731787	0.006401			
						RPD = 4.55			
4 Aldrin									
1	100	5.645	5.644	0.001	7137164	0.005248			
2	100	7.114	7.115	-0.001	3663446	0.005500			
						RPD = 4.69			
25 Isodrin									
1	100		6.228						
2	100		8.129						
23 Heptachlor epoxide									
1	100	6.873	6.870	0.003	7114713	0.005784			
2	100	8.608	8.607	0.001	3519463	0.006054			
						RPD = 4.56			
21 gamma-Chlordane									
1	100	7.173	7.172	0.001	7049094	0.005579			
2	100	9.012	9.012	0.000	3478002	0.005929			
						RPD = 6.08			
6 alpha-Chlordane									
1	100	7.523	7.520	0.003	7204124	0.005586			
2	100	9.320	9.322	-0.002	3537479	0.005796			
						RPD = 3.69			
14 Endosulfan I									
1	100	7.796	7.795	0.001	6775982	0.005879			
2	100	9.387	9.388	-0.001	3246888	0.006111			
						RPD = 3.87			
2 4,4'-DDE									
1	100	7.896	7.897	-0.001	6691400	0.005283			
2	100	9.767	9.766	0.001	3180547	0.005215			
						RPD = 1.30			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.359	8.357	0.002	6796684	0.005358			
2	100	9.913	9.914	-0.001	3340082	0.005619			
						RPD = 4.76			
17 Endrin									
1	100	8.816	8.816	0.000	6700483	0.005635			
2	100	10.435	10.435	0.000	3249440	0.006065			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									1
1	100		8.885						
2	100		10.592						
1 4,4'-DDD									
1	100	9.181	9.182	-0.001	5232701	0.005393			
2	100	10.776	10.775	0.001	2390862	0.005592			
						RPD = 3.63			
15 Endosulfan II									
1	100	9.269	9.268	0.001	6247036	0.005707			
2	100	10.808	10.807	0.001	3189342	0.006570			
						RPD = 14.05			
9 Chlorobenzilate									1
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.709	9.706	0.003	5987496	0.006493			
2	100	11.255	11.256	-0.001	2638187	0.006670			
						RPD = 2.69			
18 Endrin aldehyde									
1	100	10.073	10.070	0.003	5383114	0.006112			
2	100	11.372	11.374	-0.002	2632359	0.006663			
						RPD = 8.62			
30 Toxaphene									1
1	1		10.259						
1	2		10.607						
1	3		10.756						
1	4		11.175						
1	5		11.442						
2	100		10.333						
2	2		10.932						
2	3		11.354						
2	4		12.094						
2	5		12.655						
27 Methoxychlor									
1	100	10.670	10.667	0.003	3563183	0.007722			
2	100	12.336	12.336	0.000	1573091	0.007884			
						RPD = 2.08			
16 Endosulfan sulfate									
1	100	10.803	10.800	0.003	5860034	0.005973			
2	100	11.790	11.791	-0.001	2901498	0.006561			
						RPD = 9.38			
19 Endrin ketone									
1	100	11.204	11.201	0.003	6922278	0.006048			
2	100	12.539	12.539	0.000	3334238	0.006648			
						RPD = 9.46			
$ 10 DCB Decachlorobiphenyl									
1	100	12.825	12.824	0.001	5976147	0.006224			
2	100	14.253	14.253	0.000	3155810	0.006565			
						RPD = 5.34			

QC Flag Legend

Processing Flags
1 - Missing Peaks

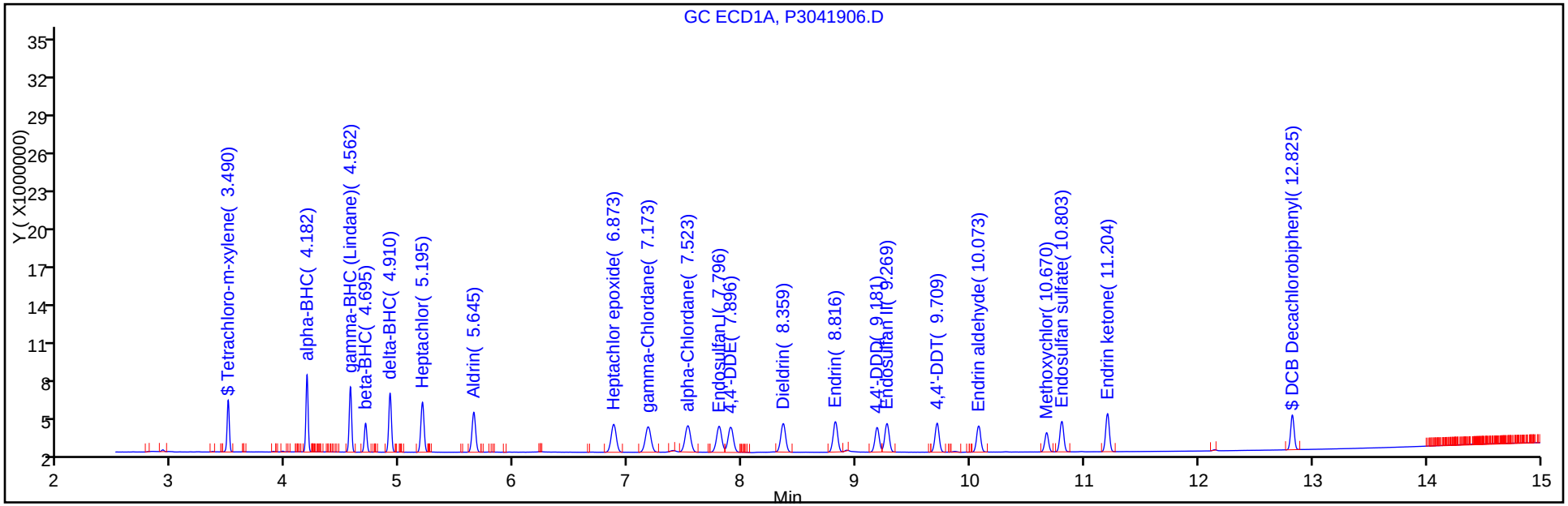
Report Date: 20-Apr-2013 07:39:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

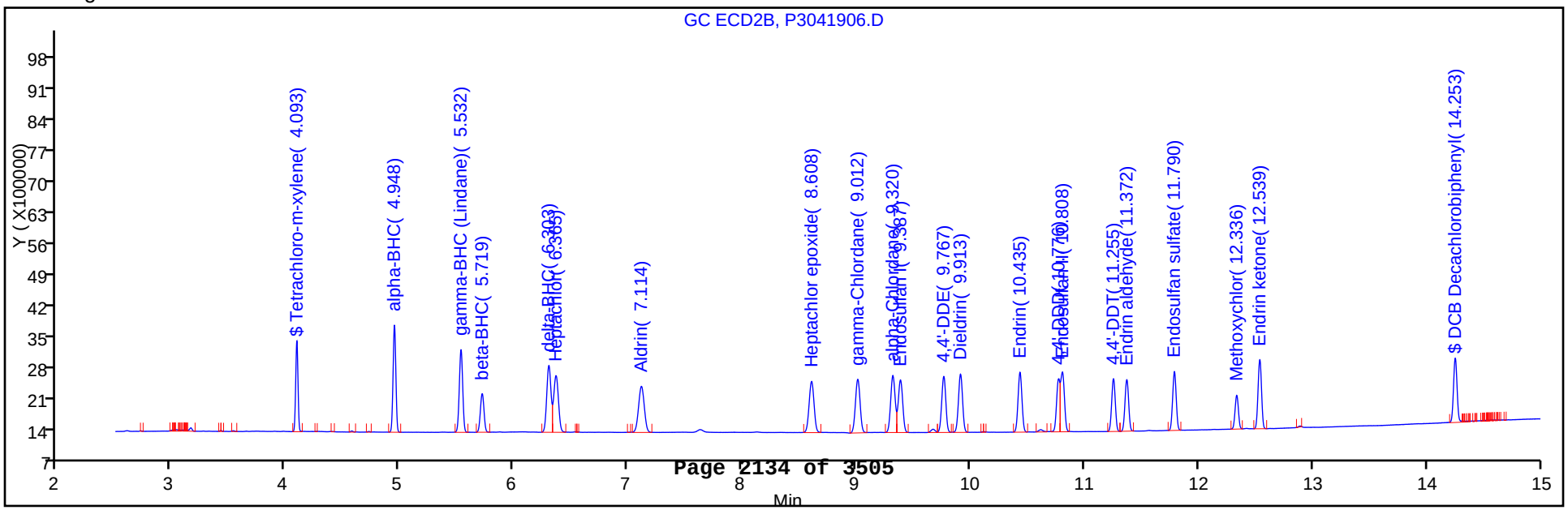
Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041906.D

Injection Date:	19-Apr-2013 12:05:50	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	6
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82685/41

Matrix: Solid | Lab File ID: P3041920.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 17:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82685 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00619		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00512		0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00409	J	0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00518		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00494	J	0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00564		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00580		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00513		0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00533		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00575		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00569		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00579		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00565		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00582		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00541		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00514		0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00552		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00577		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00566		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00543	J	0.010	0.0030	0.0032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	120		50-150
877-09-8	Tetrachloro-m-xylene	102		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041920.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 17:18:24 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019054-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 41
Lims Batch ID: 82685 Lims Sample ID: 41
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130419-19054.b\PEST3.m
Last Update: 27-Apr-2013 09:51:36 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 27-Apr-2013 09:51:36

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.482	3.481	0.001	5597334	0.005088			
2	100	4.075	4.076	-0.001	2867401	0.004748			
						RPD = 6.92			
12 Diallate									
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.954						
2	100		4.688						
5 alpha-BHC									
1	100	4.173	4.172	0.001	8026615	0.004943			
2	100	4.926	4.926	0.000	4011488	0.005210			
						RPD = 5.26			
20 gamma-BHC (Lindane)									
1	100	4.554	4.552	0.002	7486530	0.005145			
2	100	5.506	5.506	0.000	3751550	0.005541			
						RPD = 7.42			
7 beta-BHC									
1	100	4.687	4.686	0.001	3585184	0.005797			
2	100	5.690	5.691	-0.001	1897242	0.006416			
						RPD = 10.14			
11 delta-BHC									
1	100	4.903	4.902	0.001	7586074	0.005125			
2	100	6.273	6.271	0.002	3847259	0.005531			
						RPD = 7.61			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.071						
1	2		5.936						
1	3		7.176						
1	4		7.524						
2	100		6.031						
2	2		7.601						
2	3		8.985						
2	4		9.294						
22 Heptachlor									
1	100	5.187	5.187	0.000	7428657	0.005767			
2	100	6.335	6.335	0.000	3533722	0.006062			
						RPD = 4.98			
4 Aldrin									
1	100	5.640	5.641	-0.001	7042430	0.005178			
2	100	7.080	7.080	0.000	3615699	0.005428			
						RPD = 4.71			
25 Isodrin									
1	100		6.227						
2	100		8.099						
23 Heptachlor epoxide									
1	100	6.875	6.876	-0.001	6967330	0.005665			
2	100	8.580	8.580	0.000	3428781	0.005898			
						RPD = 4.04			
21 gamma-Chlordane									
1	100	7.181	7.181	0.000	6975473	0.005521			
2	100	8.985	8.986	-0.001	3392669	0.005784			
						RPD = 4.65			
6 alpha-Chlordane									
1	100	7.531	7.531	0.000	7270786	0.005638			
2	100	9.295	9.296	-0.001	3479364	0.005701			
						RPD = 1.12			
14 Endosulfan I									
1	100	7.805	7.804	0.001	6623802	0.005747			
2	100	9.363	9.362	0.001	3170172	0.005967			
						RPD = 3.75			
2 4,4'-DDE									
1	100	7.908	7.906	0.002	6487242	0.005122			
2	100	9.742	9.742	0.000	3099774	0.005083			
						RPD = 0.77			
28 Mirex									
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.368	8.364	0.004	6760577	0.005330			
2	100	9.890	9.889	0.001	3255311	0.005477			
						RPD = 2.72			
17 Endrin									
1	100	8.823	8.821	0.002	6713264	0.005645			
2	100	10.412	10.412	0.000	3142521	0.005865			
						RPD = 3.82			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		8.890						
2	100		10.569						
1 4,4'-DDD									
1	100	9.189	9.186	0.003	6006639	0.006190			
2	100	10.749	10.751	-0.002	2756985	0.006448			
						RPD = 4.08			
15 Endosulfan II									
1	100	9.273	9.273	0.000	6232709	0.005694			
2	100	10.783	10.784	-0.001	3095445	0.006376			
						RPD = 11.30			
9 Chlorobenzilate									
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.710	9.711	-0.001	3771548	0.004090			
2	100	11.231	11.232	-0.001	1675750	0.004237			
						RPD = 3.53			
18 Endrin aldehyde									
1	100	10.073	10.075	-0.002	5128214	0.005823			
2	100	11.347	11.350	-0.003	2513177	0.006361			
						RPD = 8.84			
30 Toxaphene									
1	1		10.263						
1	2		10.612						
1	3		10.761						
1	4		11.182						
1	5		11.457						
2	100		10.335						
2	2		10.928						
2	3		11.349						
2	4		12.090						
2	5		12.649						
27 Methoxychlor									
1	100	10.676	10.672	0.004	2504054	0.005427			
2	100	12.311	12.314	-0.003	1093044	0.005478			
						RPD = 0.95			
16 Endosulfan sulfate									
1	100	10.811	10.804	0.007	5677160	0.005787			
2	100	11.764	11.766	-0.002	2821322	0.006380			
						RPD = 9.75			
19 Endrin ketone									
1	100	11.213	11.206	0.007	6193274	0.005411			
2	100	12.513	12.516	-0.003	2944488	0.005871			
						RPD = 8.16			
$ 10 DCB Decachlorobiphenyl									
1	100	12.853	12.850	0.003	5770469	0.006009			
2	100	14.227	14.229	-0.002	2995126	0.006231			
						RPD = 3.62			

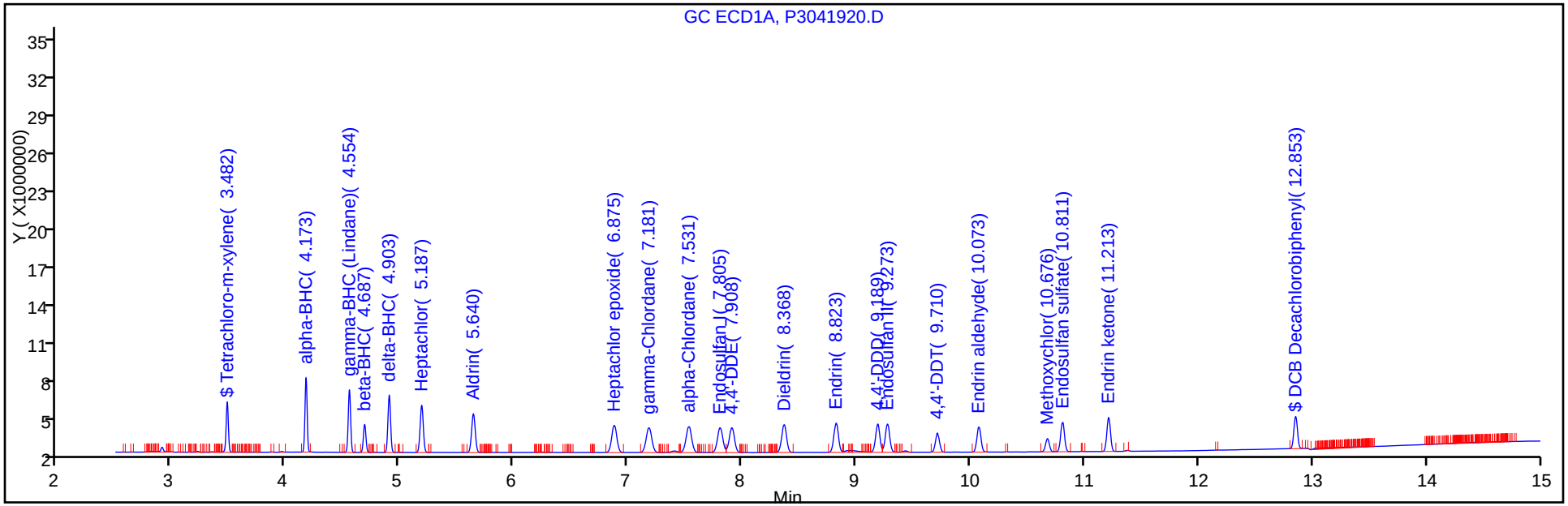
Report Date: 27-Apr-2013 09:51:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

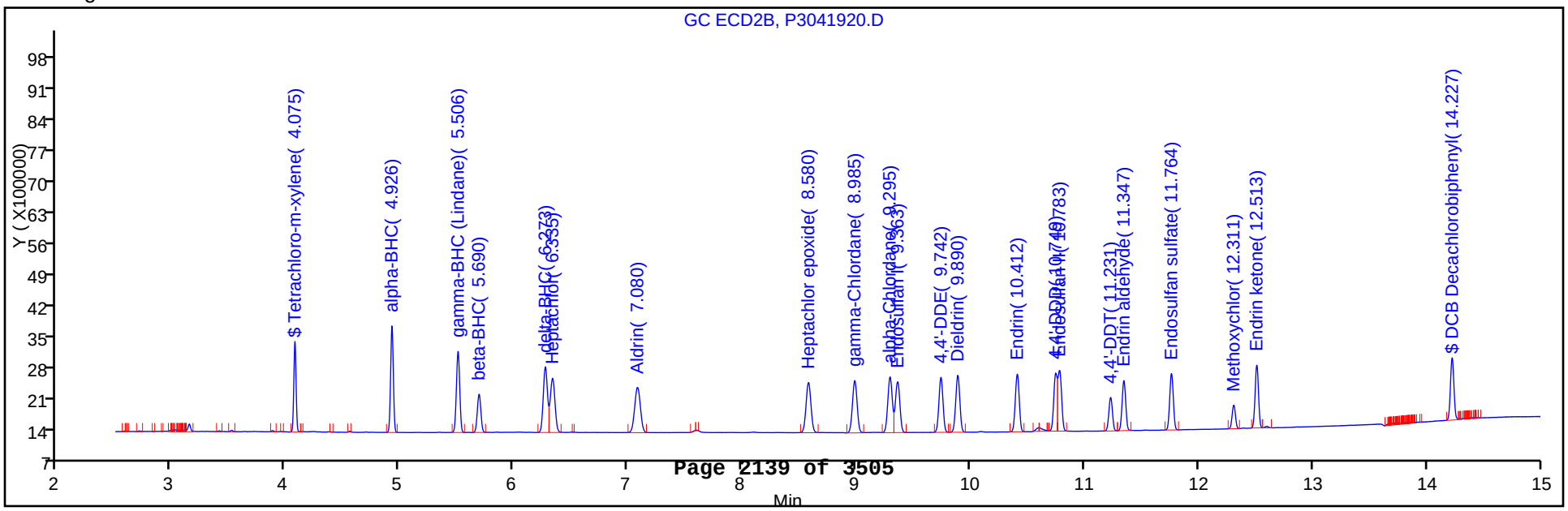
Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041920.D

Injection Date:	19-Apr-2013 17:18:24	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	41
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82685/41

Matrix: Solid | Lab File ID: P3041920.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 17:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82685 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00645*		*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00508*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00424*	*J*	*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00543*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00521*		*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00570*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00642*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00553*		*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00548*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00597*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00638*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00638*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00587*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00636*		*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00587*		*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00554*		*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00578*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00606*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00590*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00548*	*J*	*0.010*	0.0030	*0.0032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	125		50-150
877-09-8	Tetrachloro-m-xylene	95		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041920.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 17:18:24 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019054-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 41
Lims Batch ID: 82685 Lims Sample ID: 41
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130419-19054.b\PEST3.m
Last Update: 27-Apr-2013 09:51:36 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK012

First Level Reviewer: vandorenc Date: 27-Apr-2013 09:51:36

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.482	3.481	0.001	5597334	0.005088			
2	100	4.075	4.076	-0.001	2867401	0.004748			
						RPD = 6.92			
12 Diallate									
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.954						
2	100		4.688						
5 alpha-BHC									
1	100	4.173	4.172	0.001	8026615	0.004943			
2	100	4.926	4.926	0.000	4011488	0.005210			
						RPD = 5.26			
20 gamma-BHC (Lindane)									
1	100	4.554	4.552	0.002	7486530	0.005145			
2	100	5.506	5.506	0.000	3751550	0.005541			
						RPD = 7.42			
7 beta-BHC									
1	100	4.687	4.686	0.001	3585184	0.005797			
2	100	5.690	5.691	-0.001	1897242	0.006416			
						RPD = 10.14			
11 delta-BHC									
1	100	4.903	4.902	0.001	7586074	0.005125			
2	100	6.273	6.271	0.002	3847259	0.005531			
						RPD = 7.61			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.071						
1	2		5.936						
1	3		7.176						
1	4		7.524						
2	100		6.031						
2	2		7.601						
2	3		8.985						
2	4		9.294						
22 Heptachlor									
1	100	5.187	5.187	0.000	7428657	0.005767			
2	100	6.335	6.335	0.000	3533722	0.006062			
						RPD = 4.98			
4 Aldrin									
1	100	5.640	5.641	-0.001	7042430	0.005178			
2	100	7.080	7.080	0.000	3615699	0.005428			
						RPD = 4.71			
25 Isodrin									
1	100		6.227						
2	100		8.099						
23 Heptachlor epoxide									
1	100	6.875	6.876	-0.001	6967330	0.005665			
2	100	8.580	8.580	0.000	3428781	0.005898			
						RPD = 4.04			
21 gamma-Chlordane									
1	100	7.181	7.181	0.000	6975473	0.005521			
2	100	8.985	8.986	-0.001	3392669	0.005784			
						RPD = 4.65			
6 alpha-Chlordane									
1	100	7.531	7.531	0.000	7270786	0.005638			
2	100	9.295	9.296	-0.001	3479364	0.005701			
						RPD = 1.12			
14 Endosulfan I									
1	100	7.805	7.804	0.001	6623802	0.005747			
2	100	9.363	9.362	0.001	3170172	0.005967			
						RPD = 3.75			
2 4,4'-DDE									
1	100	7.908	7.906	0.002	6487242	0.005122			
2	100	9.742	9.742	0.000	3099774	0.005083			
						RPD = 0.77			
28 Mirex									
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.368	8.364	0.004	6760577	0.005330			
2	100	9.890	9.889	0.001	3255311	0.005477			
						RPD = 2.72			
17 Endrin									
1	100	8.823	8.821	0.002	6713264	0.005645			
2	100	10.412	10.412	0.000	3142521	0.005865			
						RPD = 3.82			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		8.890						
2	100		10.569						
1 4,4'-DDD									
1	100	9.189	9.186	0.003	6006639	0.006190			
2	100	10.749	10.751	-0.002	2756985	0.006448			
						RPD = 4.08			
15 Endosulfan II									
1	100	9.273	9.273	0.000	6232709	0.005694			
2	100	10.783	10.784	-0.001	3095445	0.006376			
						RPD = 11.30			
9 Chlorobenzilate									
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.710	9.711	-0.001	3771548	0.004090			
2	100	11.231	11.232	-0.001	1675750	0.004237			
						RPD = 3.53			
18 Endrin aldehyde									
1	100	10.073	10.075	-0.002	5128214	0.005823			
2	100	11.347	11.350	-0.003	2513177	0.006361			
						RPD = 8.84			
30 Toxaphene									
1	1		10.263						
1	2		10.612						
1	3		10.761						
1	4		11.182						
1	5		11.457						
2	100		10.335						
2	2		10.928						
2	3		11.349						
2	4		12.090						
2	5		12.649						
27 Methoxychlor									
1	100	10.676	10.672	0.004	2504054	0.005427			
2	100	12.311	12.314	-0.003	1093044	0.005478			
						RPD = 0.95			
16 Endosulfan sulfate									
1	100	10.811	10.804	0.007	5677160	0.005787			
2	100	11.764	11.766	-0.002	2821322	0.006380			
						RPD = 9.75			
19 Endrin ketone									
1	100	11.213	11.206	0.007	6193274	0.005411			
2	100	12.513	12.516	-0.003	2944488	0.005871			
						RPD = 8.16			
$ 10 DCB Decachlorobiphenyl									
1	100	12.853	12.850	0.003	5770469	0.006009			
2	100	14.227	14.229	-0.002	2995126	0.006231			
						RPD = 3.62			

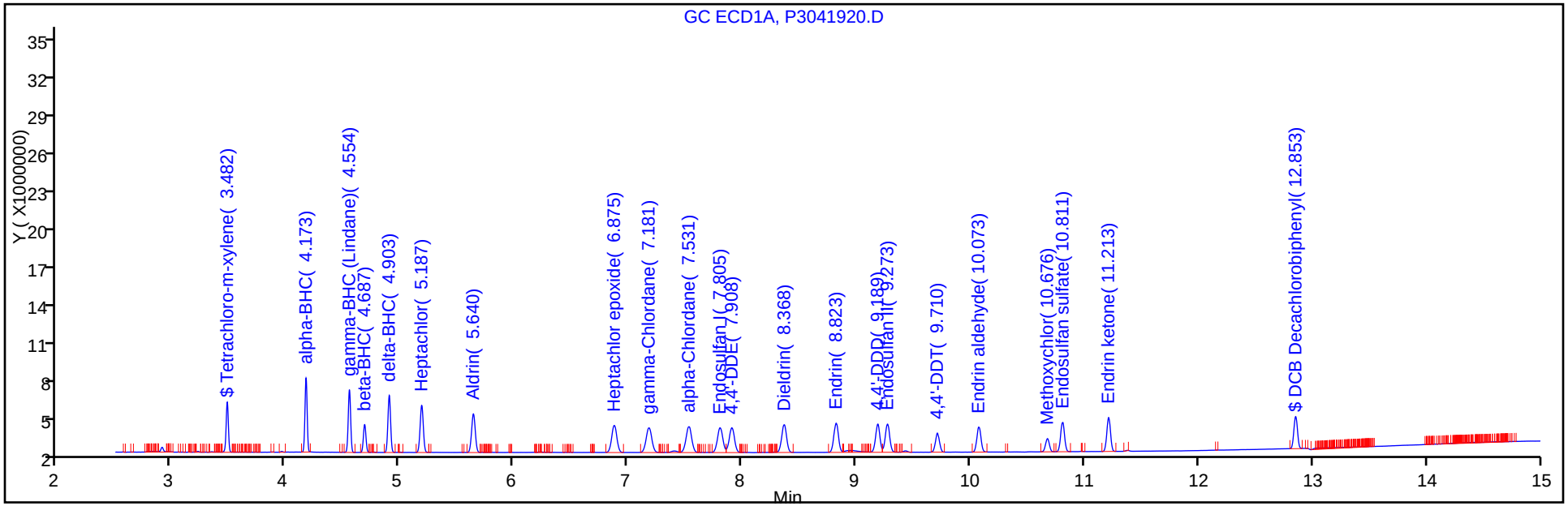
Report Date: 27-Apr-2013 09:51:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

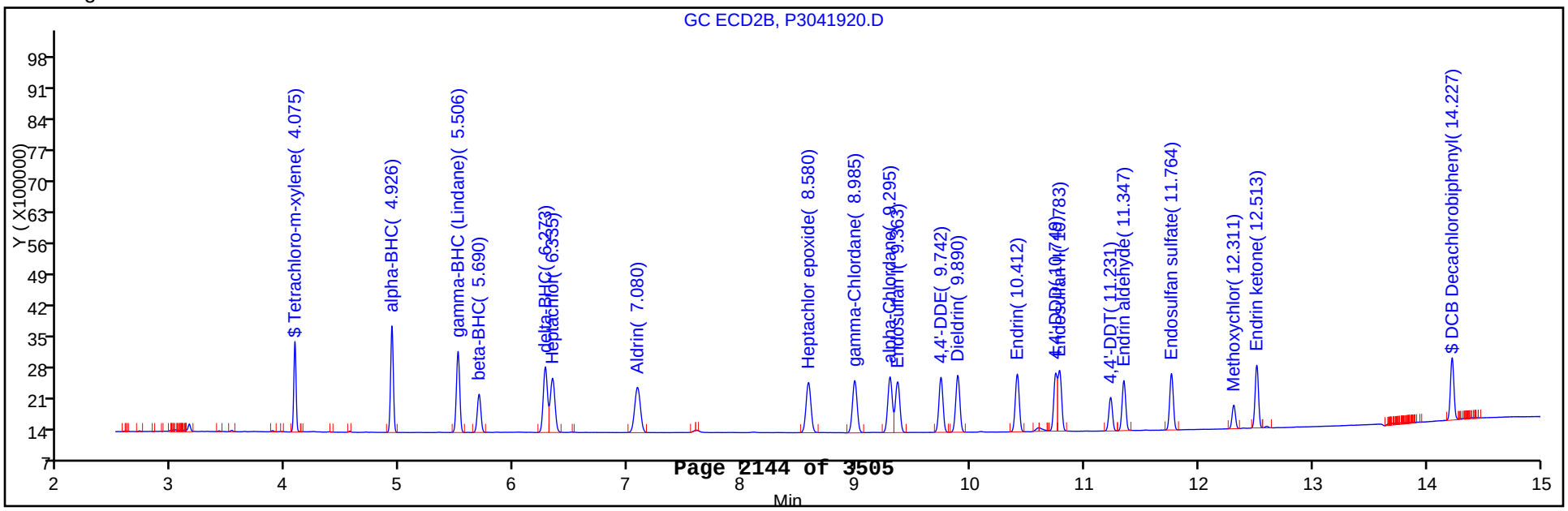
Data File: \\NCChrom\ChromData\A2HP3\20130419-19054.b\P3041920.D

Injection Date:	19-Apr-2013 17:18:24	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82685	Lims Sample ID:	41
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82857/6

Matrix: Solid | Lab File ID: P3042006.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/20/2013 14:42

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82857 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00381	J	0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00451	J	0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00396	J	0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00431	J	0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00405	J	0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00447	J	0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00463	J	0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00387	J	0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00419	J	0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00428	J	0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00409	J	0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00445	J	0.0050	0.0010	0.0011
72-20-8	Endrin	0.00407	J	0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00402	J	0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00403	J	0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00393	J	0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00419	J	0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00406	J	0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00440	J	0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00458	J	0.010	0.0030	0.0032
8001-35-2	Toxaphene	0.050	U	0.20	0.050	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	113		50-150
877-09-8	Tetrachloro-m-xylene	99		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042006.D
Lims ID: MRL Client ID:
Inject. Date: 20-Apr-2013 14:42:44 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019105-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 82857 Lims Sample ID: 6
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130420-19105.b\PEST3.m
Last Update: 22-Apr-2013 10:30:54 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

First Level Reviewer: shockr Date: 22-Apr-2013 09:21:45

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.475	3.474	0.001	5426238	0.004932			
2	100	4.071	4.070	0.001	2794932	0.004628			
						RPD = 6.37			
12 Diallate									
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.954						
2	100		4.688						
5 alpha-BHC									
1	100	4.165	4.164	0.001	6577284	0.004051			
2	100	4.925	4.924	0.001	3255225	0.004228			
						RPD = 4.28			
20 gamma-BHC (Lindane)									
1	100	4.542	4.541	0.001	5714941	0.003927			
2	100	5.506	5.506	0.000	2887715	0.004265			
						RPD = 8.25			
7 beta-BHC									
1	100	4.675	4.674	0.001	2861732	0.004627			
2	100	5.692	5.692	0.000	1509217	0.005104			
						RPD = 9.80			
11 delta-BHC									
1	100	4.888	4.887	0.001	5734551	0.003874			
2	100	6.275	6.275	0.000	2959923	0.004255			
						RPD = 9.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.054						
1	2		5.907						
1	3		7.134						
1	4		7.477						
2	100		6.030						
2	2		7.602						
2	3		8.985						
2	4		9.293						
22 Heptachlor									
1	100	5.170	5.169	0.001	5228992	0.004060			
2	100	6.336	6.337	-0.001	2498322	0.004286			
						RPD = 5.41			
4 Aldrin									
1	100	5.618	5.616	0.002	5866528	0.004314			
2	100	7.083	7.084	-0.001	2975998	0.004468			
						RPD = 3.51			
25 Isodrin									
1	100		6.227						
2	100		8.099						
23 Heptachlor epoxide									
1	100	6.839	6.835	0.004	5414676	0.004402			
2	100	8.581	8.584	-0.003	2672295	0.004597			
						RPD = 4.33			
21 gamma-Chlordane									
1	100	7.140	7.138	0.002	5298815	0.004194			
2	100	8.986	8.988	-0.002	2628903	0.004482			
						RPD = 6.63			
6 alpha-Chlordane									
1	100	7.486	7.486	0.000	5761894	0.004468			
2	100	9.296	9.297	-0.001	2776201	0.004549			
						RPD = 1.80			
14 Endosulfan I									
1	100	7.763	7.763	0.000	4934327	0.004281			
2	100	9.362	9.364	-0.002	2324737	0.004375			
						RPD = 2.18			
2 4,4'-DDE									
1	100	7.866	7.866	0.000	5714521	0.004512			
2	100	9.744	9.744	0.000	2679032	0.004393			
						RPD = 2.68			
28 Mirex									
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.329	8.326	0.003	5310314	0.004187			
2	100	9.890	9.892	-0.002	2547560	0.004286			
						RPD = 2.35			
17 Endrin									
1	100	8.787	8.785	0.002	4840639	0.004071			
2	100	10.413	10.414	-0.001	2296065	0.004285			
						RPD = 5.14			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		8.890						
2	100		10.569						
1 4,4'-DDD									
1	100	9.153	9.153	0.000	3692236	0.003805			
2	100	10.755	10.754	0.001	1637150	0.003829			
						RPD = 0.63			
15 Endosulfan II									
1	100	9.240	9.238	0.002	4475399	0.004089			
2	100	10.785	10.785	0.000	2287362	0.004712			
						RPD = 14.16			
9 Chlorobenzilate									
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.677	9.677	0.000	3650606	0.003959			
2	100	11.235	11.236	-0.001	1639613	0.004145			
						RPD = 4.61			
18 Endrin aldehyde									
1	100	10.043	10.041	0.002	3539950	0.004019			
2	100	11.351	11.354	-0.003	1726217	0.004369			
						RPD = 8.34			
30 Toxaphene									
1	1		10.230						
1	2		10.573						
1	3		10.724						
1	4		11.144						
1	5		11.411						
2	100		10.337						
2	2		10.929						
2	3		11.357						
2	4		12.097						
2	5		12.658						
27 Methoxychlor									
1	100	10.640	10.640	0.000	2111641	0.004576			
2	100	12.321	12.321	0.000	934773	0.004685			
						RPD = 2.35			
16 Endosulfan sulfate									
1	100	10.774	10.772	0.002	4361329	0.004446			
2	100	11.771	11.772	-0.001	2115769	0.004784			
						RPD = 7.34			
19 Endrin ketone									
1	100	11.175	11.174	0.001	4608659	0.004026			
2	100	12.524	12.523	0.001	2232948	0.004452			
						RPD = 10.05			
$ 10 DCB Decachlorobiphenyl									
1	100	12.795	12.794	0.001	5428410	0.005653			
2	100	14.245	14.245	0.000	2794966	0.005814			
						RPD = 2.81			

QC Flag Legend

Processing Flags
1 - Missing Peaks

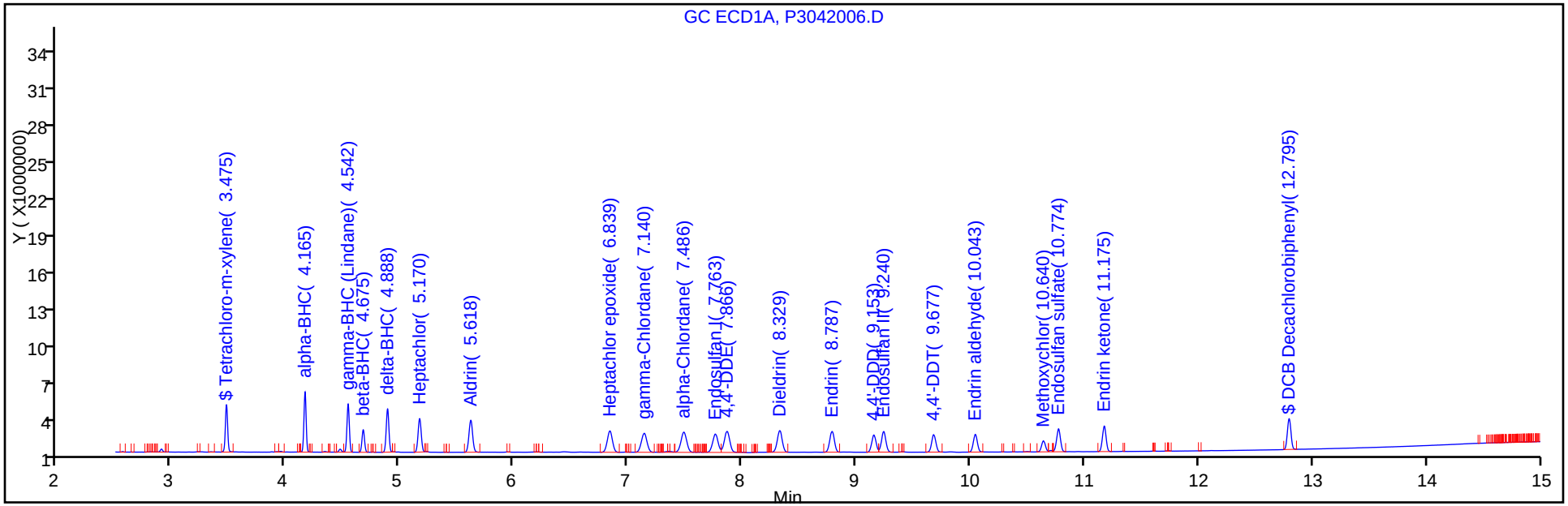
Report Date: 22-Apr-2013 10:30:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

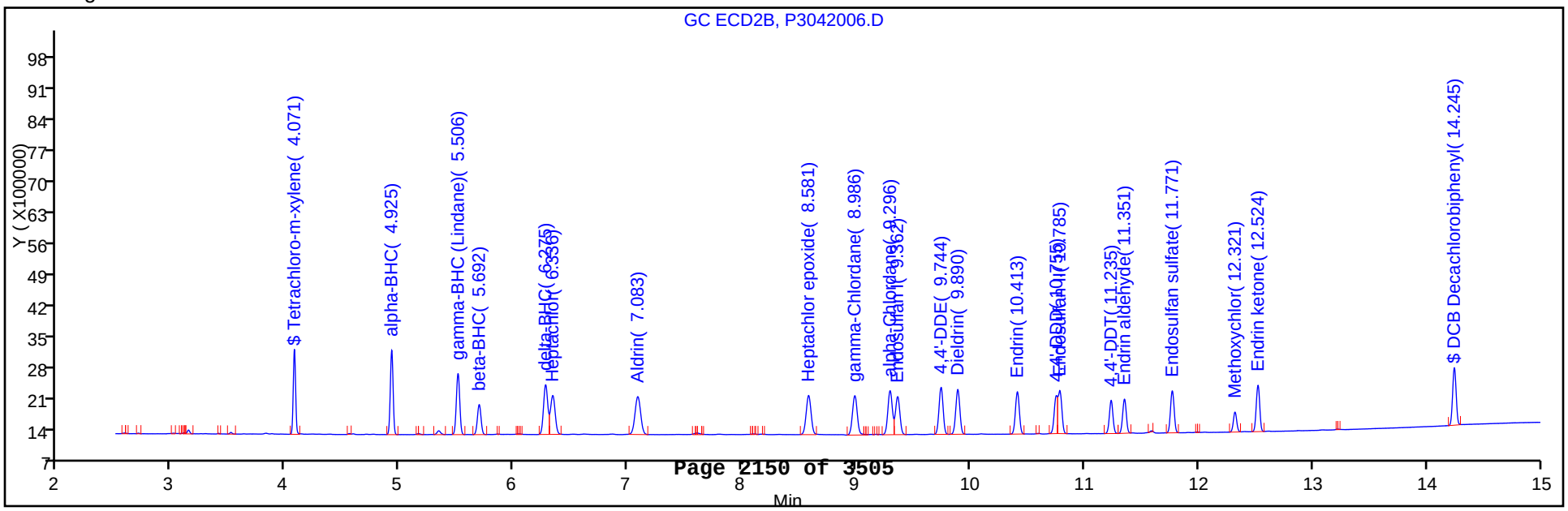
Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042006.D

Injection Date:	20-Apr-2013 14:42:44	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82857	Lims Sample ID:	6
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82857/6

Matrix: Solid | Lab File ID: P3042006.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/20/2013 14:42

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82857 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00383*	*J*	*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00439*	*J*	*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00415*	*J*	*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00447*	*J*	*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00423*	*J*	*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00455*	*J*	*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00510*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00426*	*J*	*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00429*	*J*	*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00438*	*J*	*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00471*	*J*	*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00478*	*J*	*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00429*	*J*	*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00437*	*J*	*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00445*	*J*	*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00427*	*J*	*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00448*	*J*	*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00429*	*J*	*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00460*	*J*	*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00469*	*J*	*0.010*	0.0030	*0.0032*
8001-35-2	*Toxaphene*	*0.050*	*U*	*0.20*	0.050	*0.032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	116		50-150
877-09-8	Tetrachloro-m-xylene	93		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042006.D
Lims ID: MRL Client ID:
Inject. Date: 20-Apr-2013 14:42:44 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019105-006
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 82857 Lims Sample ID: 6
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130420-19105.b\PEST3.m
Last Update: 22-Apr-2013 10:30:54 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

First Level Reviewer: shockr Date: 22-Apr-2013 09:21:45

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.475	3.474	0.001	5426238	0.004932			
2	100	4.071	4.070	0.001	2794932	0.004628			
						RPD = 6.37			
12 Diallate									
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.954						
2	100		4.688						
5 alpha-BHC									
1	100	4.165	4.164	0.001	6577284	0.004051			
2	100	4.925	4.924	0.001	3255225	0.004228			
						RPD = 4.28			
20 gamma-BHC (Lindane)									
1	100	4.542	4.541	0.001	5714941	0.003927			
2	100	5.506	5.506	0.000	2887715	0.004265			
						RPD = 8.25			
7 beta-BHC									
1	100	4.675	4.674	0.001	2861732	0.004627			
2	100	5.692	5.692	0.000	1509217	0.005104			
						RPD = 9.80			
11 delta-BHC									
1	100	4.888	4.887	0.001	5734551	0.003874			
2	100	6.275	6.275	0.000	2959923	0.004255			
						RPD = 9.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.054						
1	2		5.907						
1	3		7.134						
1	4		7.477						
2	100		6.030						
2	2		7.602						
2	3		8.985						
2	4		9.293						
22 Heptachlor									
1	100	5.170	5.169	0.001	5228992	0.004060			
2	100	6.336	6.337	-0.001	2498322	0.004286			
						RPD = 5.41			
4 Aldrin									
1	100	5.618	5.616	0.002	5866528	0.004314			
2	100	7.083	7.084	-0.001	2975998	0.004468			
						RPD = 3.51			
25 Isodrin									
1	100		6.227						
2	100		8.099						
23 Heptachlor epoxide									
1	100	6.839	6.835	0.004	5414676	0.004402			
2	100	8.581	8.584	-0.003	2672295	0.004597			
						RPD = 4.33			
21 gamma-Chlordane									
1	100	7.140	7.138	0.002	5298815	0.004194			
2	100	8.986	8.988	-0.002	2628903	0.004482			
						RPD = 6.63			
6 alpha-Chlordane									
1	100	7.486	7.486	0.000	5761894	0.004468			
2	100	9.296	9.297	-0.001	2776201	0.004549			
						RPD = 1.80			
14 Endosulfan I									
1	100	7.763	7.763	0.000	4934327	0.004281			
2	100	9.362	9.364	-0.002	2324737	0.004375			
						RPD = 2.18			
2 4,4'-DDE									
1	100	7.866	7.866	0.000	5714521	0.004512			
2	100	9.744	9.744	0.000	2679032	0.004393			
						RPD = 2.68			
28 Mirex									
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.329	8.326	0.003	5310314	0.004187			
2	100	9.890	9.892	-0.002	2547560	0.004286			
						RPD = 2.35			
17 Endrin									
1	100	8.787	8.785	0.002	4840639	0.004071			
2	100	10.413	10.414	-0.001	2296065	0.004285			
						RPD = 5.14			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		8.890						
2	100		10.569						
1 4,4'-DDD									
1	100	9.153	9.153	0.000	3692236	0.003805			
2	100	10.755	10.754	0.001	1637150	0.003829			
						RPD = 0.63			
15 Endosulfan II									
1	100	9.240	9.238	0.002	4475399	0.004089			
2	100	10.785	10.785	0.000	2287362	0.004712			
						RPD = 14.16			
9 Chlorobenzilate									
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.677	9.677	0.000	3650606	0.003959			
2	100	11.235	11.236	-0.001	1639613	0.004145			
						RPD = 4.61			
18 Endrin aldehyde									
1	100	10.043	10.041	0.002	3539950	0.004019			
2	100	11.351	11.354	-0.003	1726217	0.004369			
						RPD = 8.34			
30 Toxaphene									
1	1		10.230						
1	2		10.573						
1	3		10.724						
1	4		11.144						
1	5		11.411						
2	100		10.337						
2	2		10.929						
2	3		11.357						
2	4		12.097						
2	5		12.658						
27 Methoxychlor									
1	100	10.640	10.640	0.000	2111641	0.004576			
2	100	12.321	12.321	0.000	934773	0.004685			
						RPD = 2.35			
16 Endosulfan sulfate									
1	100	10.774	10.772	0.002	4361329	0.004446			
2	100	11.771	11.772	-0.001	2115769	0.004784			
						RPD = 7.34			
19 Endrin ketone									
1	100	11.175	11.174	0.001	4608659	0.004026			
2	100	12.524	12.523	0.001	2232948	0.004452			
						RPD = 10.05			
$ 10 DCB Decachlorobiphenyl									
1	100	12.795	12.794	0.001	5428410	0.005653			
2	100	14.245	14.245	0.000	2794966	0.005814			
						RPD = 2.81			

QC Flag Legend

Processing Flags
1 - Missing Peaks

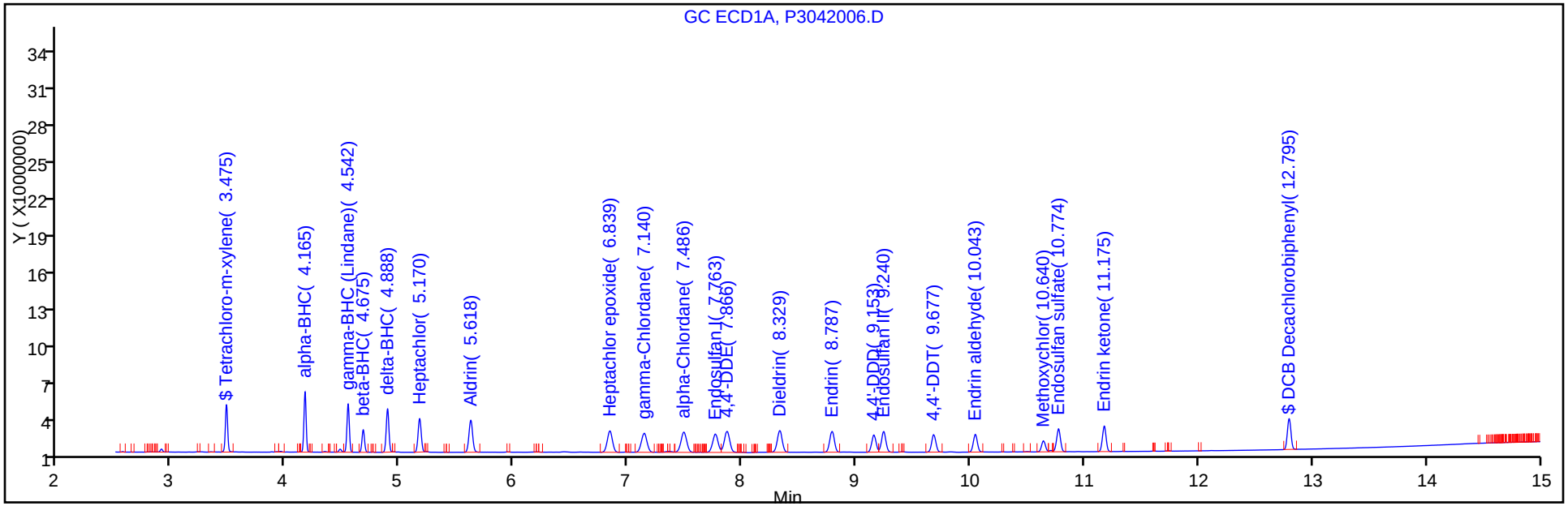
Report Date: 22-Apr-2013 10:30:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

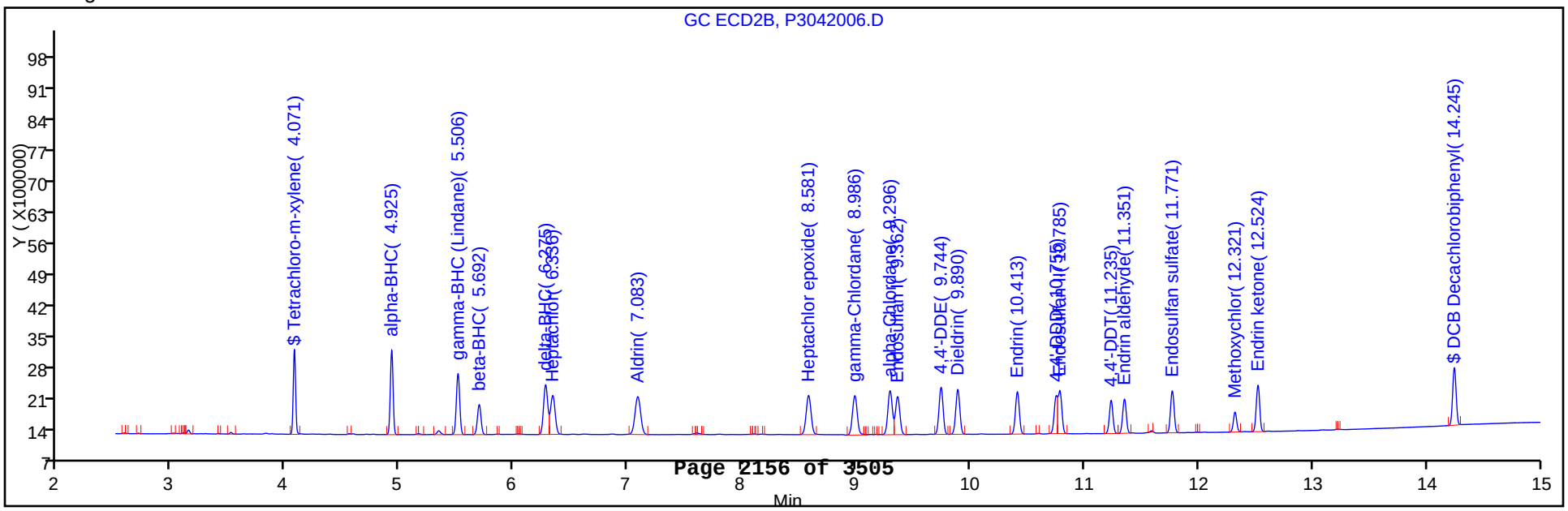
Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042006.D

Injection Date:	20-Apr-2013 14:42:44	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82857	Lims Sample ID:	6
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82857/39

Matrix: Solid | Lab File ID: P3042039.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/21/2013 01:46

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82857 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00593		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00491	J	0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.0030	U ^	0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00496	J	0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00460	J	0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00508		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00508		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00445	J	0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00491	J	0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00487	J	0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00483	J	0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00519		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00439	J	0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00446	J	0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00389	J	0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00420	J	0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00494	J	0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00375	J	0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00498	J	0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.0030	U ^	0.010	0.0030	0.0032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	119		50-150
877-09-8	Tetrachloro-m-xylene	96		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042039.D
Lims ID: MRL Client ID:
Inject. Date: 21-Apr-2013 01:46:15 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019105-039
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 39
Lims Batch ID: 82857 Lims Sample ID: 39
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130420-19105.b\PEST3.m
Last Update: 22-Apr-2013 10:31:24 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.474	3.474	0.000	5293843	0.004812			
2	100	4.070	4.069	0.001	2756221	0.004564			
						RPD = 5.30			
12 Diallate									1
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.954						
2	100		4.688						
5 alpha-BHC									
1	100	4.162	4.162	0.000	7471299	0.004601			
2	100	4.923	4.922	0.001	3660032	0.004754			
						RPD = 3.26			
20 gamma-BHC (Lindane)									
1	100	4.540	4.540	0.000	6112350	0.004200			
2	100	5.503	5.505	-0.002	3083104	0.004554			
						RPD = 8.07			
7 beta-BHC									
1	100	4.672	4.673	-0.001	3143560	0.005083			
2	100	5.690	5.690	0.000	1645412	0.005564			
						RPD = 9.05			
11 delta-BHC									
1	100	4.885	4.886	-0.001	6591238	0.004453			
2	100	6.272	6.272	0.000	3340787	0.004803			
						RPD = 7.56			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	0.0	5.054	-5.054	0	0		100.0	
1	2	5.934	5.907	0.027	18328	0.000313	95.6- 135.6		
1	3	7.133	7.134	-0.001	6237688	0.0373	312.1- 352.1		
1	4	7.482	7.477	0.005	6548641	0.0261	466.3- 506.3		
			Average of Peak Amounts =			0.0212			
2	100	0.0	6.030	-6.030	0	0		100.0	
2	2	7.594	7.602	-0.008	105201	0.004208	75.9- 115.9		
2	3	8.985	8.985	0.000	3124927	0.0419	251.4- 291.4		
2	4	9.294	9.293	0.001	3226208	0.0452	241.0- 281.0		
			Average of Peak Amounts =			0.0305			
						RPD = 35.59			
22 Heptachlor									
1	100	5.167	5.167	0.000	4836451	0.003755			
2	100	6.334	6.334	0.000	2272233	0.003898			
						RPD = 3.73			
4 Aldrin									
1	100	5.615	5.616	-0.001	6751682	0.004965			
2	100	7.080	7.081	-0.001	3440156	0.005165			
						RPD = 3.95			
25 Isodrin									
1	100		6.227						
2	100		8.099						
23 Heptachlor epoxide									
1	100	6.832	6.834	-0.002	6127896	0.004982			
2	100	8.578	8.580	-0.002	3010296	0.005178			
						RPD = 3.86			
21 gamma-Chlordane									
1	100	7.133	7.133	0.000	6237688	0.004937			
2	100	8.985	8.985	0.000	3124927	0.005327			
						RPD = 7.60			
6 alpha-Chlordane									
1	100	7.482	7.483	-0.001	6548641	0.005078			
2	100	9.294	9.293	0.001	3226208	0.005286			
						RPD = 4.02			
14 Endosulfan I									
1	100	7.757	7.760	-0.003	5614032	0.004871			
2	100	9.360	9.360	0.000	2682148	0.005048			
						RPD = 3.58			
2 4,4'-DDE									
1	100	7.860	7.860	0.000	6223181	0.004914			
2	100	9.740	9.740	0.000	2964172	0.004860			
						RPD = 1.09			
28 Mirex									
1	100	8.255	8.279	-0.024	14022	0			
2	100	9.193	9.197	-0.004	8097	0			
						RPD = 0.00			
13 Dieldrin									
1	100	8.322	8.325	-0.003	6226793	0.004909			
2	100	9.888	9.888	0.000	2958204	0.004977			
						RPD = 1.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
17 Endrin									
1	100	8.781	8.782	-0.001	5222116	0.004392			
2	100	10.410	10.411	-0.001	2457391	0.004586			
						RPD = 4.34			
26 Kepone									1
1	100		8.890						
2	100		10.569						
1 4,4'-DDD									
1	100	9.150	9.150	0.000	5749562	0.005925			
2	100	10.751	10.750	0.001	2770613	0.006480			
						RPD = 8.95			
15 Endosulfan II									
1	100	9.235	9.236	-0.001	5283103	0.004827			
2	100	10.783	10.782	0.001	2886469	0.005946			
						RPD = 20.78			
9 Chlorobenzilate									1
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.674	9.677	-0.003	1200609	0.001302			
2	100	11.235	11.233	0.002	557313	0.001409			
						RPD = 7.90			
18 Endrin aldehyde									
1	100	10.040	10.040	0.000	3929612	0.004462			
2	100	11.349	11.350	-0.001	1866361	0.004724			
						RPD = 5.71			
30 Toxaphene									1
1	1		10.230						
1	2		10.573						
1	3		10.724						
1	4		11.144						
1	5		11.411						
2	100		10.337						
2	2		10.929						
2	3		11.357						
2	4		12.097						
2	5		12.658						
27 Methoxychlor									
1	100	10.638	10.638	0.000	1098685	0.002381			
2	100	12.317	12.318	-0.001	437379	0.002192			
						RPD = 8.26			
16 Endosulfan sulfate									
1	100	10.769	10.770	-0.001	5087487	0.005186			
2	100	11.769	11.770	-0.001	2536935	0.005737			
						RPD = 10.09			
19 Endrin ketone									
1	100	11.171	11.171	0.000	4448360	0.003886			
2	100	12.521	12.519	0.002	2150516	0.004288			
						RPD = 9.83			

Report Date: 22-Apr-2013 10:31:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042039.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	12.792	12.792	0.000	5691892	0.005928			
2	100	14.240	14.241	-0.001	2938056	0.006112			
						RPD = 3.06			

QC Flag Legend

Processing Flags
1 - Missing Peaks

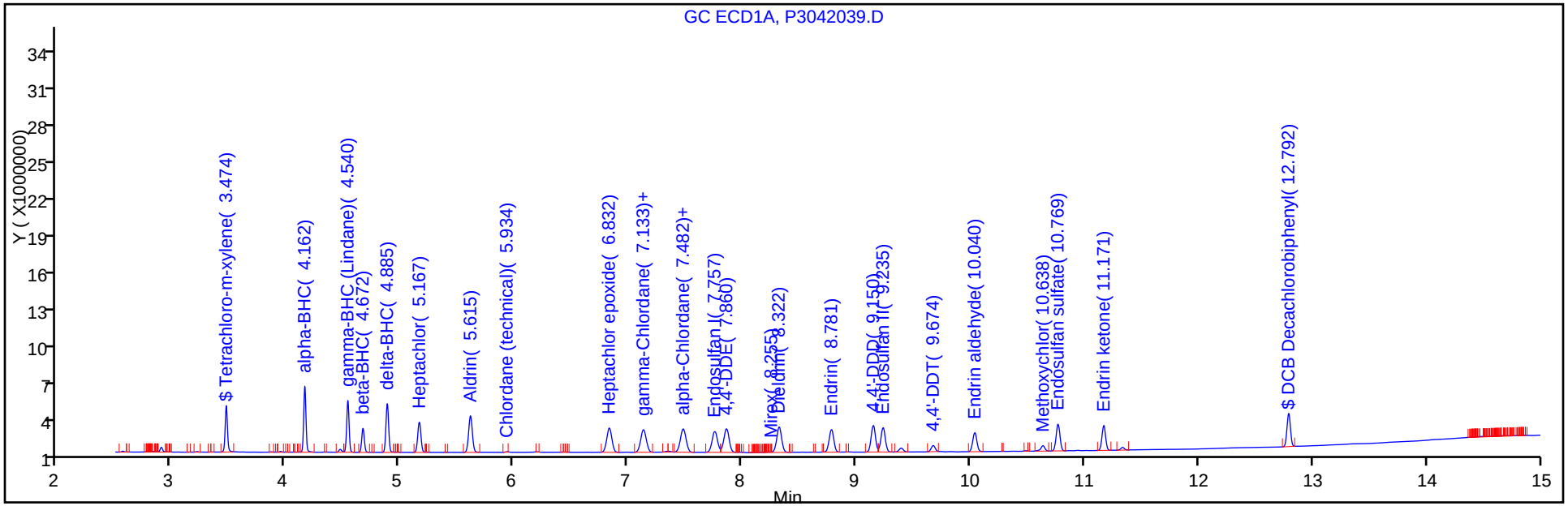
Report Date: 22-Apr-2013 10:31:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

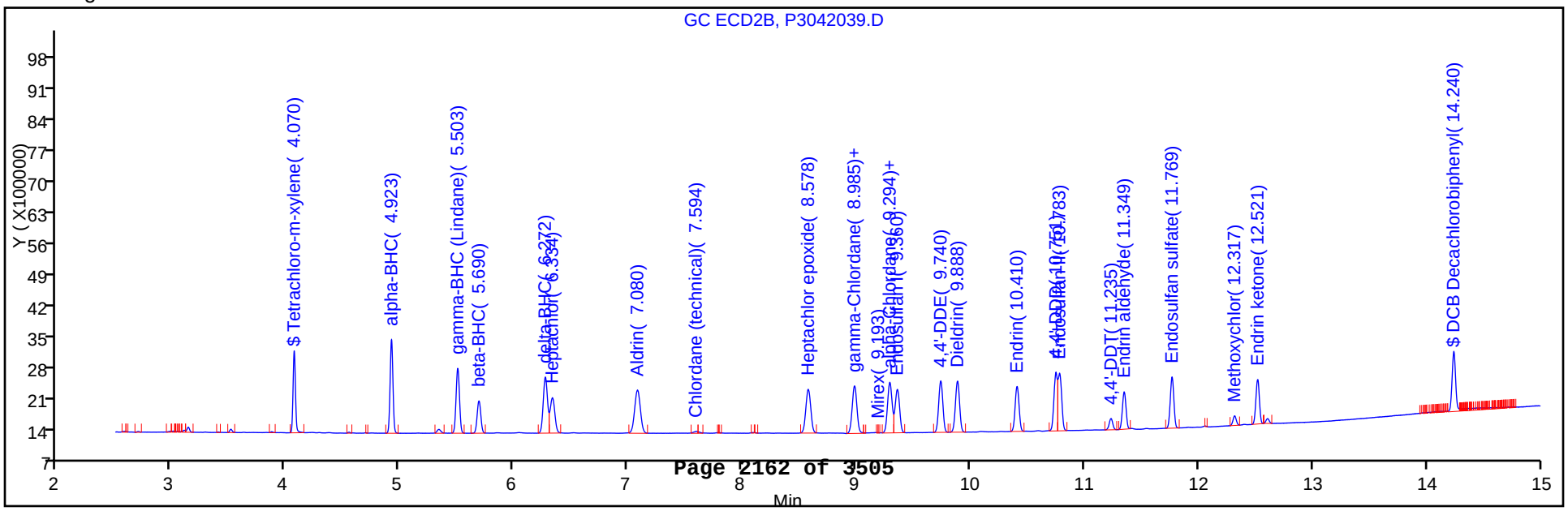
Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042039.D

Injection Date:	21-Apr-2013 01:46:15	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82857	Lims Sample ID:	39
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82857/39

Matrix: Solid | Lab File ID: P3042039.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/21/2013 01:46

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82857 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00648*		*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00486*	*J*	*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.0030*	*U ^*	*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00516*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00475*	*J*	*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00529*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00556*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00480*	*J*	*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00498*	*J*	*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00505*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00595*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00574*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00459*	*J*	*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00472*	*J*	*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00429*	*J*	*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00455*	*J*	*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00533*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00390*	*J*	*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00518*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.0030*	*U ^*	*0.010*	0.0030	*0.0032*
8001-35-2	*Toxaphene*	*0.050*	*U*	*0.20*	0.050	*0.032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	122		50-150
877-09-8	Tetrachloro-m-xylene	91		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042039.D
Lims ID: MRL Client ID:
Inject. Date: 21-Apr-2013 01:46:15 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019105-039
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 39
Lims Batch ID: 82857 Lims Sample ID: 39
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130420-19105.b\PEST3.m
Last Update: 22-Apr-2013 10:31:24 Calib Date: 16-Apr-2013 14:58:16
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130416-18914.b\P3041609.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK028

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.474	3.474	0.000	5293843	0.004812			
2	100	4.070	4.069	0.001	2756221	0.004564			
						RPD = 5.30			
12 Diallate									1
1	100		3.751						
1	2		4.058						
2	100		4.331						
2	2		4.667						
24 Hexachlorobenzene									
1	100		3.954						
2	100		4.688						
5 alpha-BHC									
1	100	4.162	4.162	0.000	7471299	0.004601			
2	100	4.923	4.922	0.001	3660032	0.004754			
						RPD = 3.26			
20 gamma-BHC (Lindane)									
1	100	4.540	4.540	0.000	6112350	0.004200			
2	100	5.503	5.505	-0.002	3083104	0.004554			
						RPD = 8.07			
7 beta-BHC									
1	100	4.672	4.673	-0.001	3143560	0.005083			
2	100	5.690	5.690	0.000	1645412	0.005564			
						RPD = 9.05			
11 delta-BHC									
1	100	4.885	4.886	-0.001	6591238	0.004453			
2	100	6.272	6.272	0.000	3340787	0.004803			
						RPD = 7.56			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	0.0	5.054	-5.054	0	0		100.0	
1	2	5.934	5.907	0.027	18328	0.000313	95.6- 135.6		
1	3	7.133	7.134	-0.001	6237688	0.0373	312.1- 352.1		
1	4	7.482	7.477	0.005	6548641	0.0261	466.3- 506.3		
			Average of Peak Amounts =			0.0212			
2	100	0.0	6.030	-6.030	0	0		100.0	
2	2	7.594	7.602	-0.008	105201	0.004208	75.9- 115.9		
2	3	8.985	8.985	0.000	3124927	0.0419	251.4- 291.4		
2	4	9.294	9.293	0.001	3226208	0.0452	241.0- 281.0		
			Average of Peak Amounts =			0.0305			
						RPD = 35.59			
22 Heptachlor									
1	100	5.167	5.167	0.000	4836451	0.003755			
2	100	6.334	6.334	0.000	2272233	0.003898			
						RPD = 3.73			
4 Aldrin									
1	100	5.615	5.616	-0.001	6751682	0.004965			
2	100	7.080	7.081	-0.001	3440156	0.005165			
						RPD = 3.95			
25 Isodrin									
1	100		6.227						
2	100		8.099						
23 Heptachlor epoxide									
1	100	6.832	6.834	-0.002	6127896	0.004982			
2	100	8.578	8.580	-0.002	3010296	0.005178			
						RPD = 3.86			
21 gamma-Chlordane									
1	100	7.133	7.133	0.000	6237688	0.004937			
2	100	8.985	8.985	0.000	3124927	0.005327			
						RPD = 7.60			
6 alpha-Chlordane									
1	100	7.482	7.483	-0.001	6548641	0.005078			
2	100	9.294	9.293	0.001	3226208	0.005286			
						RPD = 4.02			
14 Endosulfan I									
1	100	7.757	7.760	-0.003	5614032	0.004871			
2	100	9.360	9.360	0.000	2682148	0.005048			
						RPD = 3.58			
2 4,4'-DDE									
1	100	7.860	7.860	0.000	6223181	0.004914			
2	100	9.740	9.740	0.000	2964172	0.004860			
						RPD = 1.09			
28 Mirex									
1	100	8.255	8.279	-0.024	14022	0			
2	100	9.193	9.197	-0.004	8097	0			
						RPD = 0.00			
13 Dieldrin									
1	100	8.322	8.325	-0.003	6226793	0.004909			
2	100	9.888	9.888	0.000	2958204	0.004977			
						RPD = 1.37			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
17 Endrin									
1	100	8.781	8.782	-0.001	5222116	0.004392			
2	100	10.410	10.411	-0.001	2457391	0.004586			
						RPD = 4.34			
26 Kepone									1
1	100		8.890						
2	100		10.569						
1 4,4'-DDD									
1	100	9.150	9.150	0.000	5749562	0.005925			
2	100	10.751	10.750	0.001	2770613	0.006480			
						RPD = 8.95			
15 Endosulfan II									
1	100	9.235	9.236	-0.001	5283103	0.004827			
2	100	10.783	10.782	0.001	2886469	0.005946			
						RPD = 20.78			
9 Chlorobenzilate									1
1	100		9.275						
2	100		10.585						
3 4,4'-DDT									
1	100	9.674	9.677	-0.003	1200609	0.001302			
2	100	11.235	11.233	0.002	557313	0.001409			
						RPD = 7.90			
18 Endrin aldehyde									
1	100	10.040	10.040	0.000	3929612	0.004462			
2	100	11.349	11.350	-0.001	1866361	0.004724			
						RPD = 5.71			
30 Toxaphene									1
1	1		10.230						
1	2		10.573						
1	3		10.724						
1	4		11.144						
1	5		11.411						
2	100		10.337						
2	2		10.929						
2	3		11.357						
2	4		12.097						
2	5		12.658						
27 Methoxychlor									
1	100	10.638	10.638	0.000	1098685	0.002381			
2	100	12.317	12.318	-0.001	437379	0.002192			
						RPD = 8.26			
16 Endosulfan sulfate									
1	100	10.769	10.770	-0.001	5087487	0.005186			
2	100	11.769	11.770	-0.001	2536935	0.005737			
						RPD = 10.09			
19 Endrin ketone									
1	100	11.171	11.171	0.000	4448360	0.003886			
2	100	12.521	12.519	0.002	2150516	0.004288			
						RPD = 9.83			

Report Date: 22-Apr-2013 10:31:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042039.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	12.792	12.792	0.000	5691892	0.005928			
2	100	14.240	14.241	-0.001	2938056	0.006112			
						RPD = 3.06			

QC Flag Legend

Processing Flags
1 - Missing Peaks

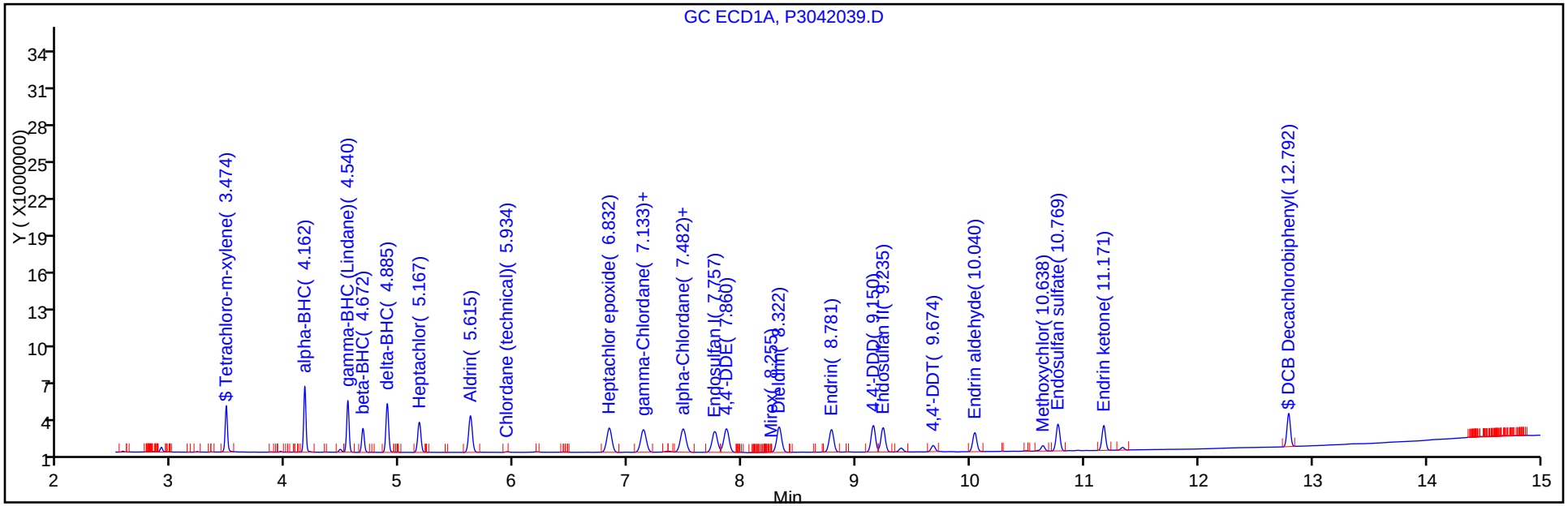
Report Date: 22-Apr-2013 10:31:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

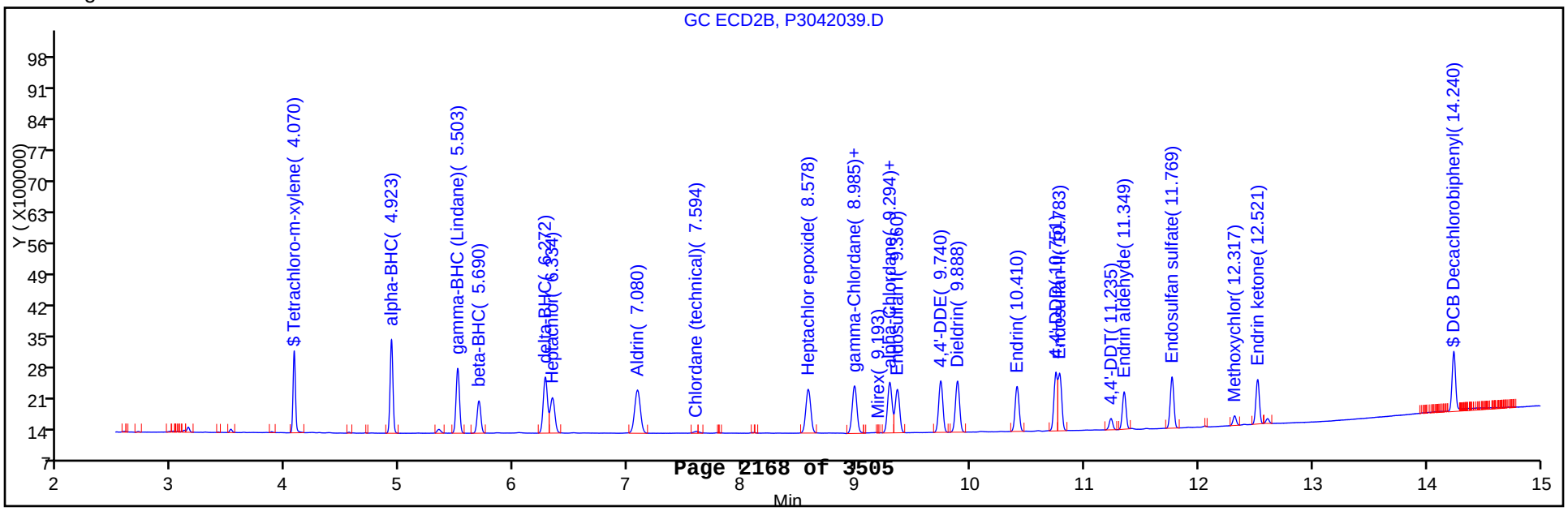
Data File: \\NCChrom\ChromData\A2HP3\20130420-19105.b\P3042039.D

Injection Date:	21-Apr-2013 01:46:15	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	82857	Lims Sample ID:	39
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83400/26

Matrix: Solid | Lab File ID: P3042426.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2013 18:33

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00649		0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00634		0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00556		0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00602		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00555		0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00635		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00626		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00522		0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00612		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00629		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00648		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00607		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00628		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00641		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00628	M	0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00555		0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00617		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00605		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00625		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00644	J	0.010	0.0030	0.0032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	136	Q	50-150
877-09-8	Tetrachloro-m-xylene	123		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042426.D
Lims ID: MRL Client ID:
Inject. Date: 24-Apr-2013 18:33:04 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019209-005
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 83400 Lims Sample ID: 26
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 25-Apr-2013 07:51:26 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

First Level Reviewer: shockr Date: 25-Apr-2013 07:14:08

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.471	3.471	0.000	5416904	0.006139			
2	100	4.064	4.064	0.000	2852968	0.005942			
						RPD = 3.26			
12 Diallate									1
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.160	4.159	0.001	7542451	0.005549			
2	100	4.915	4.915	0.000	3827310	0.005359			
						RPD = 3.48			
20 gamma-BHC (Lindane)									
1	100	4.537	4.537	0.000	6709960	0.005552			
2	100	5.493	5.494	-0.001	3449403	0.005503			
						RPD = 0.89			
7 beta-BHC									
1	100	4.670	4.669	0.001	3250125	0.006259			
2	100	5.678	5.679	-0.001	1761109	0.006319			
						RPD = 0.96			
11 delta-BHC									
1	100	4.882	4.882	0.000	6390302	0.005220			
2	100	6.259	6.259	0.000	3426784	0.005279			
						RPD = 1.14			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	0.0	5.049	-5.049	0	0		100.0	
1	2	5.926	5.898	0.028	52285	0.001098	90.8- 130.8		
1	3	7.120	7.121	-0.001	6160758	0.0471	287.6- 327.6		
1	4	7.468	7.462	0.006	6492790	0.0337	429.9- 469.9		
			Average of Peak Amounts =			0.0273			
2	100	6.036	6.017	0.019	19756	0.000856		100.0	
2	2	7.579	7.584	-0.005	35984	0.001560	81.9- 121.9	182.1	
2	3	8.969	8.968	0.001	3170517	0.0504	250.7- 290.7	16048.4	
2	4	9.279	9.279	0.000	3299839	0.0548	240.1- 280.1	16703.0	
			Average of Peak Amounts =			0.0269			
						RPD = 1.44			
22 Heptachlor									
1	100	5.162	5.163	-0.001	6247941	0.006054			
2	100	6.321	6.322	-0.001	3085728	0.006244			
						RPD = 3.08			
4 Aldrin									
1	100	5.610	5.609	0.001	6549392	0.006019			
2	100	7.065	7.064	0.001	3473257	0.005998			
						RPD = 0.34			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.822	6.822	0.000	6200607	0.006245			
2	100	8.562	8.565	-0.003	3188415	0.006207			
						RPD = 0.61			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	6160758	0.006168			
2	100	8.969	8.970	-0.001	3170517	0.006232			
						RPD = 1.04			
6 alpha-Chlordane									
1	100	7.468	7.470	-0.002	6492790	0.006346			
2	100	9.279	9.280	-0.001	3299839	0.006314			
						RPD = 0.50			
14 Endosulfan I									
1	100	7.747	7.746	0.001	5703822	0.006293			
2	100	9.345	9.346	-0.001	2878213	0.006268			
						RPD = 0.39			
2 4,4'-DDE									
1	100	7.848	7.850	-0.002	6145701	0.006343			
2	100	9.725	9.727	-0.002	3063856	0.006166			
						RPD = 2.83			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.311	8.310	0.001	6113791	0.006124			
2	100	9.872	9.874	-0.002	3054919	0.006104			
						RPD = 0.33			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
17 Endrin									
1	100	8.771	8.771	0.000	5840130	0.006283			
2	100	10.395	10.396	-0.001	2867206	0.006252			
						RPD = 0.50			
26 Kepone									
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.137	9.139	-0.002	4852011	0.006487			
2	100	10.736	10.736	0.000	2280159	0.006540			
						RPD = 0.81			
15 Endosulfan II									
1	100	9.226	9.225	0.001	5443661	0.006482			
2	100	10.766	10.766	0.000	2853620	0.006676			
						RPD = 2.95			
9 Chlorobenzilate									
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									
1	100	9.666	9.668	-0.002	3907561	0.005557			
2	100	11.216	11.217	-0.001	1848805	0.005969			
						RPD = 7.16			
18 Endrin aldehyde									
1	100	10.031	10.030	0.001	4131211	0.006412			
2	100	11.332	11.333	-0.001	2176873	0.006734			
						RPD = 4.89			
30 Toxaphene									1
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.631	10.630	0.001	2278401	0.006442			
2	100	12.297	12.299	-0.002	1108278	0.007187			
						RPD = 10.93			
16 Endosulfan sulfate									
1	100	10.762	10.763	-0.001	4708793	0.006070			
2	100	11.750	11.752	-0.002	2604969	0.006780			
						RPD = 11.05			
19 Endrin ketone									M
1	100	11.162	11.165	-0.003	5640921	0.006280			M
2	100	12.500	12.501	-0.001	2920508	0.006794			
						RPD = 7.86			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.787	-0.002	5644570	0.006824			
2	100	14.216	14.217	-0.001	2919864	0.006760			
						RPD = 0.95			

QC Flag Legend

Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

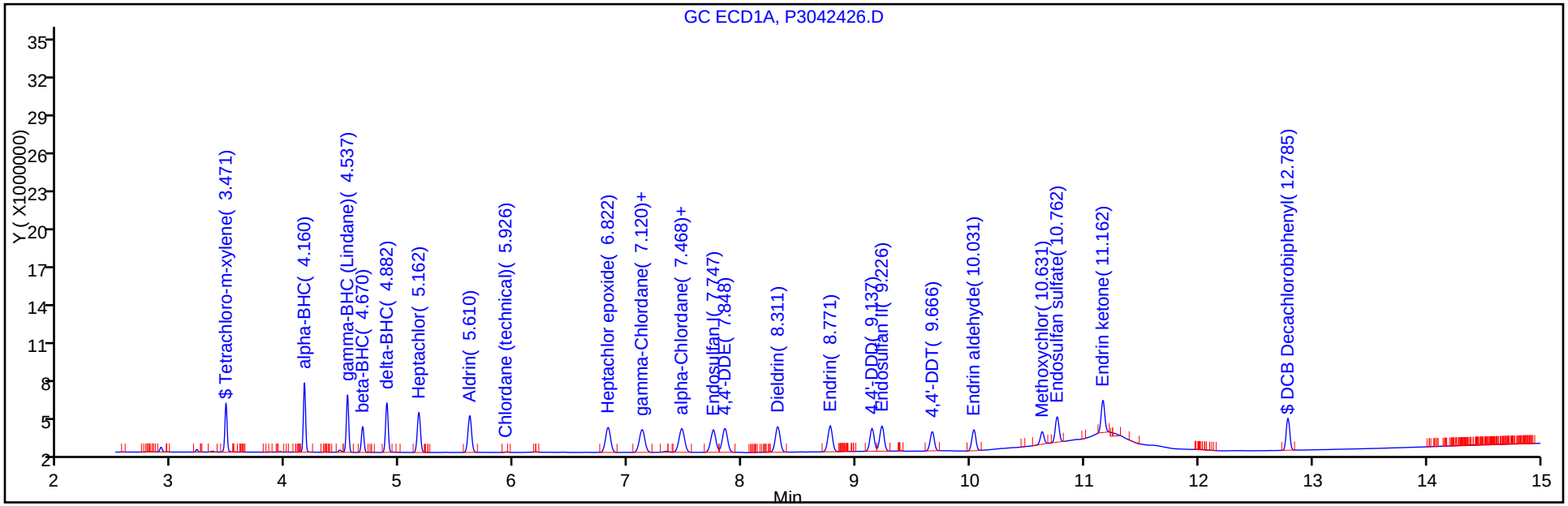
Report Date: 25-Apr-2013 07:51:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

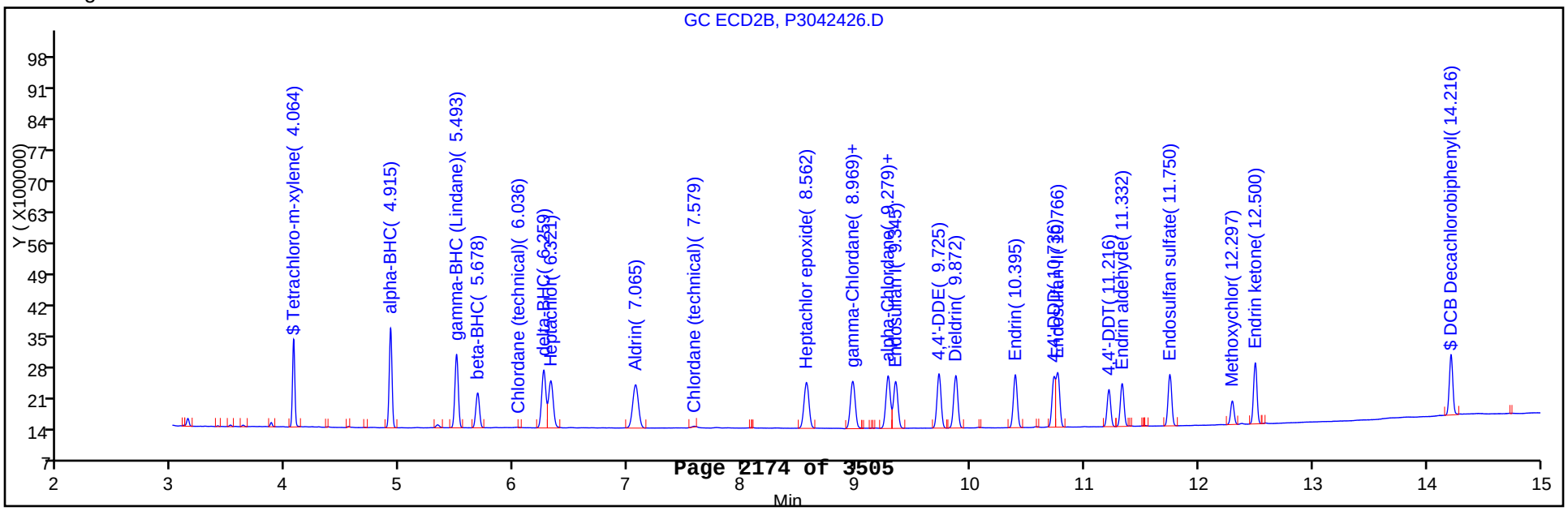
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042426.D

Injection Date:	24-Apr-2013 18:33:04	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	26
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

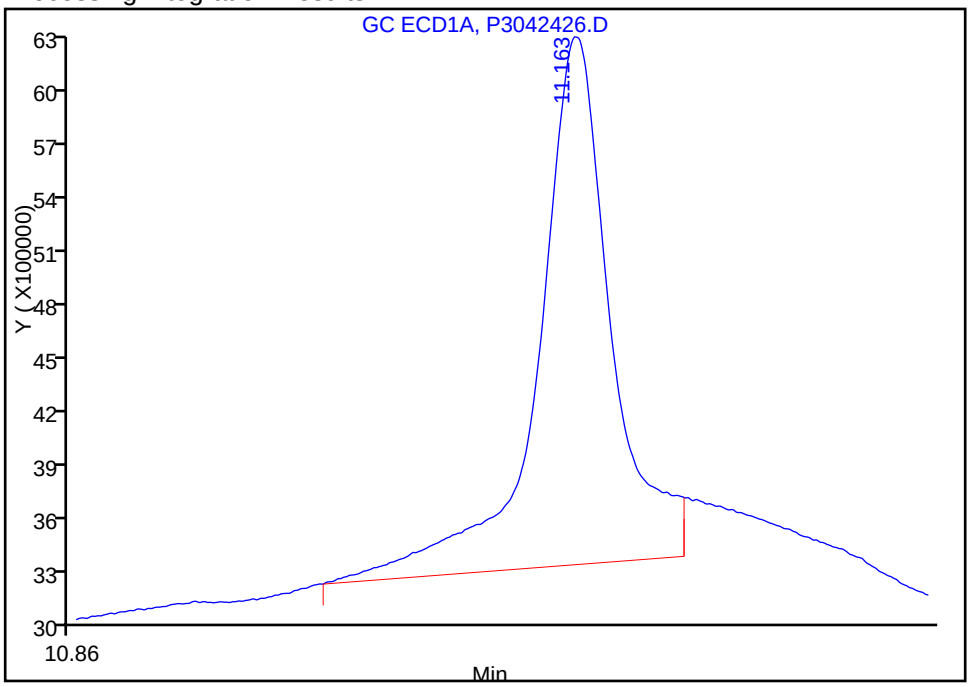
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042426.D		
Injection Date:	24-Apr-2013 18:33:04	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	26
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

19 Endrin ketone, Signal: 1, Type: quant, RT: 11.17, Det: GC ECD1A

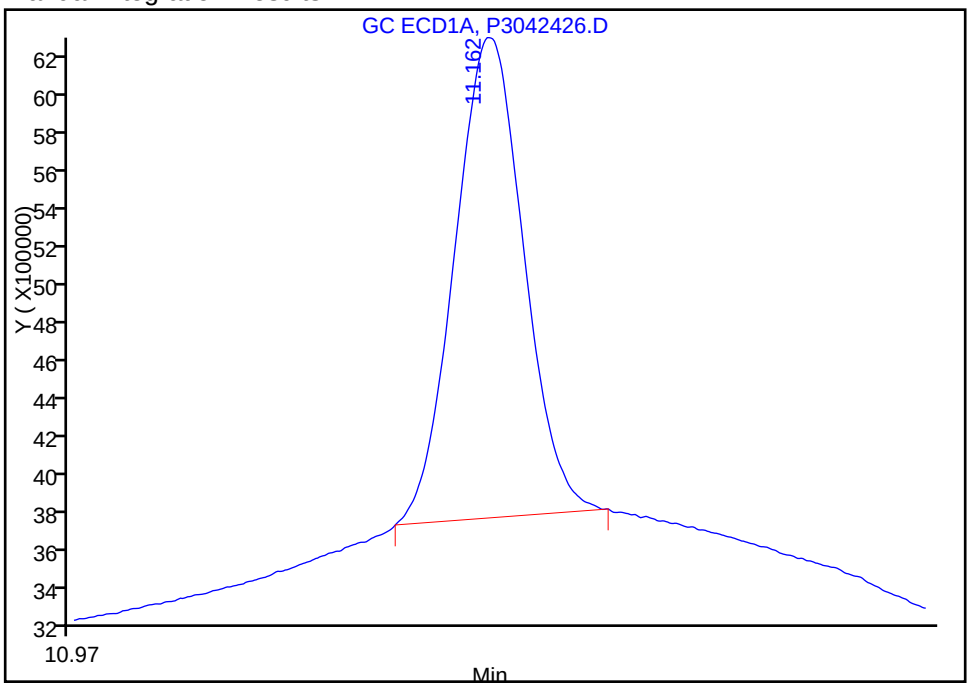
Processing Integration Results

RT: 11.16
Response: 8832017
Amount: 0.009833



Manual Integration Results

RT: 11.16
Response: 5640921
Amount: 0.006280



Reviewer: shockr, 25-Apr-2013 07:14:08
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83400/26

Matrix: Solid | Lab File ID: P3042426.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2013 18:33

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00654*	^	*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00617*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00597*		*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00600*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00536*		*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00631*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00632*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00528*		*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00610*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00627*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00668*	^	*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00678*	^	*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00625*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00673*	^	*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00679*	^	*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00550*		*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00623*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00624*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00621*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00719*	*J ^*	*0.010*	0.0030	*0.0032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	135	*Q*	50-150
877-09-8	Tetrachloro-m-xylene	119		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042426.D
Lims ID: MRL Client ID:
Inject. Date: 24-Apr-2013 18:33:04 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019209-005
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 83400 Lims Sample ID: 26
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 25-Apr-2013 07:51:26 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

First Level Reviewer: shockr Date: 25-Apr-2013 07:14:08

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.471	3.471	0.000	5416904	0.006139			
2	100	4.064	4.064	0.000	2852968	0.005942			
						RPD = 3.26			
12 Diallate									1
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.160	4.159	0.001	7542451	0.005549			
2	100	4.915	4.915	0.000	3827310	0.005359			
						RPD = 3.48			
20 gamma-BHC (Lindane)									
1	100	4.537	4.537	0.000	6709960	0.005552			
2	100	5.493	5.494	-0.001	3449403	0.005503			
						RPD = 0.89			
7 beta-BHC									
1	100	4.670	4.669	0.001	3250125	0.006259			
2	100	5.678	5.679	-0.001	1761109	0.006319			
						RPD = 0.96			
11 delta-BHC									
1	100	4.882	4.882	0.000	6390302	0.005220			
2	100	6.259	6.259	0.000	3426784	0.005279			
						RPD = 1.14			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100	0.0	5.049	-5.049	0	0		100.0	
1	2	5.926	5.898	0.028	52285	0.001098	90.8- 130.8		
1	3	7.120	7.121	-0.001	6160758	0.0471	287.6- 327.6		
1	4	7.468	7.462	0.006	6492790	0.0337	429.9- 469.9		
			Average of Peak Amounts =			0.0273			
2	100	6.036	6.017	0.019	19756	0.000856		100.0	
2	2	7.579	7.584	-0.005	35984	0.001560	81.9- 121.9	182.1	
2	3	8.969	8.968	0.001	3170517	0.0504	250.7- 290.7	16048.4	
2	4	9.279	9.279	0.000	3299839	0.0548	240.1- 280.1	16703.0	
			Average of Peak Amounts =			0.0269			
						RPD = 1.44			
22 Heptachlor									
1	100	5.162	5.163	-0.001	6247941	0.006054			
2	100	6.321	6.322	-0.001	3085728	0.006244			
						RPD = 3.08			
4 Aldrin									
1	100	5.610	5.609	0.001	6549392	0.006019			
2	100	7.065	7.064	0.001	3473257	0.005998			
						RPD = 0.34			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.822	6.822	0.000	6200607	0.006245			
2	100	8.562	8.565	-0.003	3188415	0.006207			
						RPD = 0.61			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	6160758	0.006168			
2	100	8.969	8.970	-0.001	3170517	0.006232			
						RPD = 1.04			
6 alpha-Chlordane									
1	100	7.468	7.470	-0.002	6492790	0.006346			
2	100	9.279	9.280	-0.001	3299839	0.006314			
						RPD = 0.50			
14 Endosulfan I									
1	100	7.747	7.746	0.001	5703822	0.006293			
2	100	9.345	9.346	-0.001	2878213	0.006268			
						RPD = 0.39			
2 4,4'-DDE									
1	100	7.848	7.850	-0.002	6145701	0.006343			
2	100	9.725	9.727	-0.002	3063856	0.006166			
						RPD = 2.83			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.311	8.310	0.001	6113791	0.006124			
2	100	9.872	9.874	-0.002	3054919	0.006104			
						RPD = 0.33			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
17 Endrin									
1	100	8.771	8.771	0.000	5840130	0.006283			
2	100	10.395	10.396	-0.001	2867206	0.006252			
						RPD = 0.50			
26 Kepone									
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.137	9.139	-0.002	4852011	0.006487			
2	100	10.736	10.736	0.000	2280159	0.006540			
						RPD = 0.81			
15 Endosulfan II									
1	100	9.226	9.225	0.001	5443661	0.006482			
2	100	10.766	10.766	0.000	2853620	0.006676			
						RPD = 2.95			
9 Chlorobenzilate									
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									
1	100	9.666	9.668	-0.002	3907561	0.005557			
2	100	11.216	11.217	-0.001	1848805	0.005969			
						RPD = 7.16			
18 Endrin aldehyde									
1	100	10.031	10.030	0.001	4131211	0.006412			
2	100	11.332	11.333	-0.001	2176873	0.006734			
						RPD = 4.89			
30 Toxaphene									1
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.631	10.630	0.001	2278401	0.006442			
2	100	12.297	12.299	-0.002	1108278	0.007187			
						RPD = 10.93			
16 Endosulfan sulfate									
1	100	10.762	10.763	-0.001	4708793	0.006070			
2	100	11.750	11.752	-0.002	2604969	0.006780			
						RPD = 11.05			
19 Endrin ketone									M
1	100	11.162	11.165	-0.003	5640921	0.006280			M
2	100	12.500	12.501	-0.001	2920508	0.006794			
						RPD = 7.86			

Report Date: 25-Apr-2013 07:51:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042426.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.787	-0.002	5644570	0.006824			
2	100	14.216	14.217	-0.001	2919864	0.006760			
						RPD = 0.95			

QC Flag Legend

Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

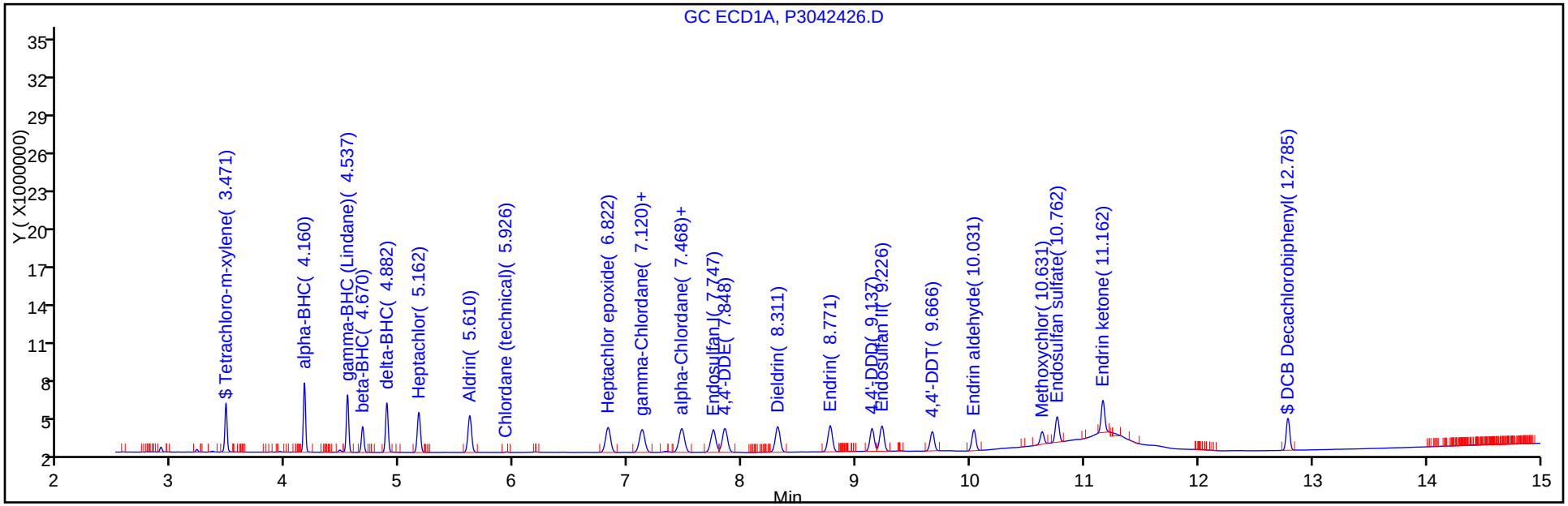
Report Date: 25-Apr-2013 07:51:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

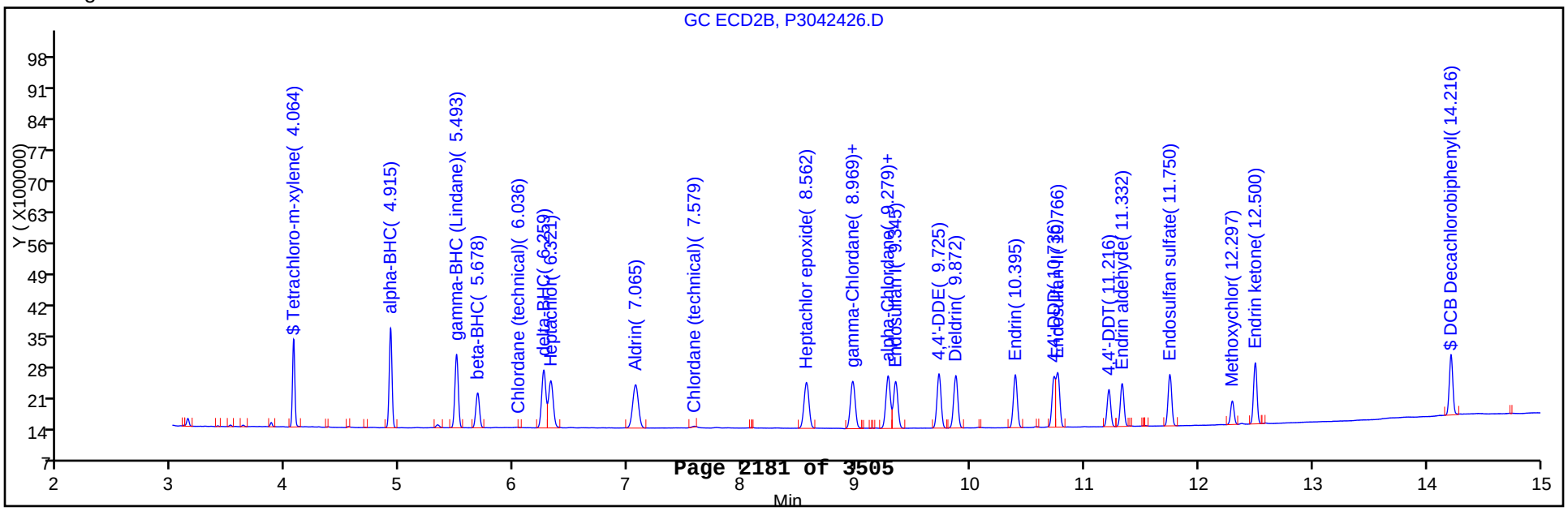
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042426.D

Injection Date:	24-Apr-2013 18:33:04	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	26
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83400/52

Matrix: Solid | Lab File ID: P3042439.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2013 22:55

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.00694	^	0.0050	0.0010	0.00096
72-55-9	4,4'-DDE	0.00639		0.0050	0.0010	0.00097
50-29-3	4,4'-DDT	0.00329	J ^	0.0050	0.0030	0.0016
309-00-2	Aldrin	0.00606		0.0050	0.0010	0.00082
319-84-6	alpha-BHC	0.00551		0.0050	0.0010	0.00070
5103-71-9	alpha-Chlordane	0.00640		0.0050	0.0010	0.0014
319-85-7	beta-BHC	0.00626		0.0050	0.0010	0.00084
319-86-8	delta-BHC	0.00453	J	0.0050	0.0010	0.00087
60-57-1	Dieldrin	0.00613		0.0050	0.0010	0.00075
959-98-8	Endosulfan I	0.00618		0.0050	0.0010	0.0013
33213-65-9	Endosulfan II	0.00633		0.0050	0.0010	0.0012
1031-07-8	Endosulfan sulfate	0.00617		0.0050	0.0010	0.0011
72-20-8	Endrin	0.00592		0.0050	0.0010	0.0011
7421-93-4	Endrin aldehyde	0.00536		0.0050	0.0010	0.0011
53494-70-5	Endrin ketone	0.00554		0.0050	0.0010	0.00078
58-89-9	gamma-BHC (Lindane)	0.00544		0.0050	0.0010	0.00064
5103-74-2	gamma-Chlordane	0.00634		0.0050	0.0010	0.0012
76-44-8	Heptachlor	0.00536		0.0050	0.0010	0.00080
1024-57-3	Heptachlor epoxide	0.00633		0.0050	0.0010	0.00071
72-43-5	Methoxychlor	0.00459	J	0.010	0.0030	0.0032

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	130		50-150
877-09-8	Tetrachloro-m-xylene	120		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042439.D
Lims ID: MRL Client ID:
Inject. Date: 24-Apr-2013 22:55:08 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019209-005
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 39
Lims Batch ID: 83400 Lims Sample ID: 52
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 25-Apr-2013 07:51:18 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.471	3.471	0.000	5314741	0.006024			
2	100	4.064	4.064	0.000	2835947	0.005907			
						RPD = 1.96			
12 Diallate									
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.159	4.159	0.000	7485916	0.005507			
2	100	4.914	4.915	-0.001	3839828	0.005377			
						RPD = 2.40			
20 gamma-BHC (Lindane)									
1	100	4.536	4.537	-0.001	6575419	0.005441			
2	100	5.494	5.494	0.000	3372093	0.005379			
						RPD = 1.13			
7 beta-BHC									
1	100	4.668	4.669	-0.001	3250938	0.006261			
2	100	5.678	5.678	0.000	1788268	0.006417			
						RPD = 2.46			
11 delta-BHC									
1	100	4.881	4.882	-0.001	5551676	0.004535			
2	100	6.259	6.259	0.000	3104090	0.004782			
						RPD = 5.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.049						
1	2		5.898						
1	3		7.121						
1	4		7.462						
2	100		6.017						
2	2		7.584						
2	3		8.968						
2	4		9.279						
22 Heptachlor									
1	100	5.161	5.162	-0.001	5536367	0.005365			
2	100	6.320	6.319	0.001	2676332	0.005415			
						RPD = 0.94			
4 Aldrin									
1	100	5.608	5.610	-0.002	6590352	0.006057			
2	100	7.063	7.064	-0.001	3536516	0.006108			
						RPD = 0.84			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.820	6.821	-0.001	6286436	0.006332			
2	100	8.564	8.563	0.001	3217386	0.006264			
						RPD = 1.08			
21 gamma-Chlordane									
1	100	7.121	7.120	0.001	6328534	0.006336			
2	100	8.968	8.969	-0.001	3201443	0.006293			
						RPD = 0.68			
6 alpha-Chlordane									
1	100	7.467	7.469	-0.002	6552977	0.006404			
2	100	9.278	9.278	0.000	3310790	0.006335			
						RPD = 1.09			
14 Endosulfan I									
1	100	7.742	7.745	-0.003	5601147	0.006179			
2	100	9.345	9.346	-0.001	2753001	0.005996			
						RPD = 3.02			
2 4,4'-DDE									
1	100	7.846	7.849	-0.003	6190873	0.006390			
2	100	9.726	9.725	0.001	3043800	0.006126			
						RPD = 4.22			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.307	8.309	-0.002	6119535	0.006130			
2	100	9.872	9.872	0.000	3095670	0.006185			
						RPD = 0.91			
17 Endrin									
1	100	8.769	8.769	0.000	5507267	0.005925			
2	100	10.395	10.395	0.000	2795972	0.006097			
						RPD = 2.85			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.135	9.136	-0.001	5192289	0.006942			
2	100	10.733	10.734	-0.001	2511521	0.007203			
						RPD = 3.69			
15 Endosulfan II									
1	100	9.224	9.221	0.003	5311944	0.006325			
2	100	10.766	10.765	0.001	2782491	0.006510			
						RPD = 2.87			
9 Chlorobenzilate									
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									
1	100	9.663	9.665	-0.002	2311534	0.003287			
2	100	11.216	11.216	0.000	1124398	0.003630			
						RPD = 9.92			
18 Endrin aldehyde									
1	100	10.030	10.029	0.001	3455642	0.005364			
2	100	11.333	11.332	0.001	1726499	0.005341			
						RPD = 0.43			
30 Toxaphene									1
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.630	10.630	0.000	1622085	0.004587			
2	100	12.298	12.297	0.001	751346	0.004872			
						RPD = 6.04			
16 Endosulfan sulfate									
1	100	10.760	10.761	-0.001	4782686	0.006165			
2	100	11.751	11.750	0.001	2396977	0.006239			
						RPD = 1.18			
19 Endrin ketone									
1	100	11.162	11.161	0.001	4975948	0.005540			
2	100	12.500	12.499	0.001	2426949	0.005646			
						RPD = 1.90			
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.785	0.000	5395483	0.006523			
2	100	14.216	14.216	0.000	2677795	0.006199			
						RPD = 5.09			

QC Flag Legend

Processing Flags
1 - Missing Peaks

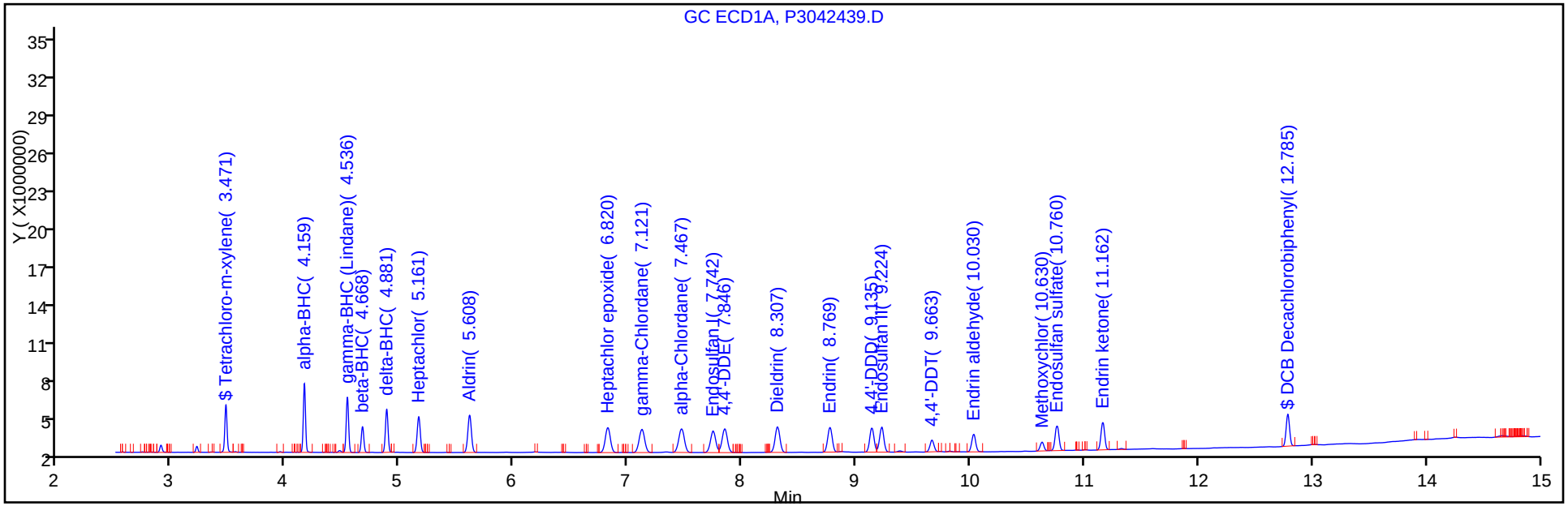
Report Date: 25-Apr-2013 07:51:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

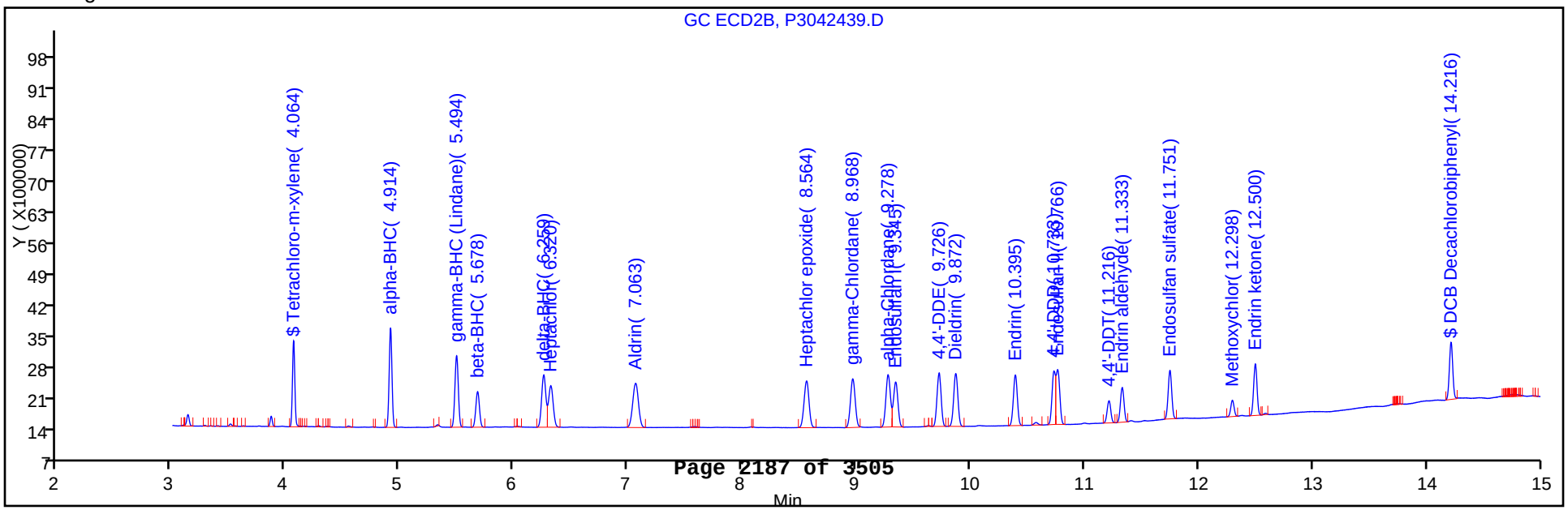
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042439.D

Injection Date:	24-Apr-2013 22:55:08	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	52
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83400/52

Matrix: Solid | Lab File ID: P3042439.D

Analysis Method: 8081/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2013 22:55

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*0.00720*	^	*0.0050*	0.0010	*0.00096*
72-55-9	*4,4'-DDE*	*0.00613*		*0.0050*	0.0010	*0.00097*
50-29-3	*4,4'-DDT*	*0.00363*	*J*	*0.0050*	0.0030	*0.0016*
309-00-2	*Aldrin*	*0.00611*		*0.0050*	0.0010	*0.00082*
319-84-6	*alpha-BHC*	*0.00538*		*0.0050*	0.0010	*0.00070*
5103-71-9	*alpha-Chlordane*	*0.00633*		*0.0050*	0.0010	*0.0014*
319-85-7	*beta-BHC*	*0.00642*		*0.0050*	0.0010	*0.00084*
319-86-8	*delta-BHC*	*0.00478*	*J*	*0.0050*	0.0010	*0.00087*
60-57-1	*Dieldrin*	*0.00619*		*0.0050*	0.0010	*0.00075*
959-98-8	*Endosulfan I*	*0.00600*		*0.0050*	0.0010	*0.0013*
33213-65-9	*Endosulfan II*	*0.00651*		*0.0050*	0.0010	*0.0012*
1031-07-8	*Endosulfan sulfate*	*0.00624*		*0.0050*	0.0010	*0.0011*
72-20-8	*Endrin*	*0.00610*		*0.0050*	0.0010	*0.0011*
7421-93-4	*Endrin aldehyde*	*0.00534*		*0.0050*	0.0010	*0.0011*
53494-70-5	*Endrin ketone*	*0.00565*		*0.0050*	0.0010	*0.00078*
58-89-9	*gamma-BHC (Lindane)*	*0.00538*		*0.0050*	0.0010	*0.00064*
5103-74-2	*gamma-Chlordane*	*0.00629*		*0.0050*	0.0010	*0.0012*
76-44-8	*Heptachlor*	*0.00542*		*0.0050*	0.0010	*0.00080*
1024-57-3	*Heptachlor epoxide*	*0.00626*		*0.0050*	0.0010	*0.00071*
72-43-5	*Methoxychlor*	*0.00487*	*J*	*0.010*	0.0030	*0.0032*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	124		50-150
877-09-8	Tetrachloro-m-xylene	118		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042439.D
Lims ID: MRL Client ID:
Inject. Date: 24-Apr-2013 22:55:08 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019209-005
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 39
Lims Batch ID: 83400 Lims Sample ID: 52
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 25-Apr-2013 07:51:18 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.471	3.471	0.000	5314741	0.006024			
2	100	4.064	4.064	0.000	2835947	0.005907			
						RPD = 1.96			
12 Diallate									
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.159	4.159	0.000	7485916	0.005507			
2	100	4.914	4.915	-0.001	3839828	0.005377			
						RPD = 2.40			
20 gamma-BHC (Lindane)									
1	100	4.536	4.537	-0.001	6575419	0.005441			
2	100	5.494	5.494	0.000	3372093	0.005379			
						RPD = 1.13			
7 beta-BHC									
1	100	4.668	4.669	-0.001	3250938	0.006261			
2	100	5.678	5.678	0.000	1788268	0.006417			
						RPD = 2.46			
11 delta-BHC									
1	100	4.881	4.882	-0.001	5551676	0.004535			
2	100	6.259	6.259	0.000	3104090	0.004782			
						RPD = 5.31			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									1
1	100		5.049						
1	2		5.898						
1	3		7.121						
1	4		7.462						
2	100		6.017						
2	2		7.584						
2	3		8.968						
2	4		9.279						
22 Heptachlor									
1	100	5.161	5.162	-0.001	5536367	0.005365			
2	100	6.320	6.319	0.001	2676332	0.005415			
						RPD = 0.94			
4 Aldrin									
1	100	5.608	5.610	-0.002	6590352	0.006057			
2	100	7.063	7.064	-0.001	3536516	0.006108			
						RPD = 0.84			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.820	6.821	-0.001	6286436	0.006332			
2	100	8.564	8.563	0.001	3217386	0.006264			
						RPD = 1.08			
21 gamma-Chlordane									
1	100	7.121	7.120	0.001	6328534	0.006336			
2	100	8.968	8.969	-0.001	3201443	0.006293			
						RPD = 0.68			
6 alpha-Chlordane									
1	100	7.467	7.469	-0.002	6552977	0.006404			
2	100	9.278	9.278	0.000	3310790	0.006335			
						RPD = 1.09			
14 Endosulfan I									
1	100	7.742	7.745	-0.003	5601147	0.006179			
2	100	9.345	9.346	-0.001	2753001	0.005996			
						RPD = 3.02			
2 4,4'-DDE									
1	100	7.846	7.849	-0.003	6190873	0.006390			
2	100	9.726	9.725	0.001	3043800	0.006126			
						RPD = 4.22			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.307	8.309	-0.002	6119535	0.006130			
2	100	9.872	9.872	0.000	3095670	0.006185			
						RPD = 0.91			
17 Endrin									
1	100	8.769	8.769	0.000	5507267	0.005925			
2	100	10.395	10.395	0.000	2795972	0.006097			
						RPD = 2.85			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.135	9.136	-0.001	5192289	0.006942			
2	100	10.733	10.734	-0.001	2511521	0.007203			
						RPD = 3.69			
15 Endosulfan II									
1	100	9.224	9.221	0.003	5311944	0.006325			
2	100	10.766	10.765	0.001	2782491	0.006510			
						RPD = 2.87			
9 Chlorobenzilate									
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									
1	100	9.663	9.665	-0.002	2311534	0.003287			
2	100	11.216	11.216	0.000	1124398	0.003630			
						RPD = 9.92			
18 Endrin aldehyde									
1	100	10.030	10.029	0.001	3455642	0.005364			
2	100	11.333	11.332	0.001	1726499	0.005341			
						RPD = 0.43			
30 Toxaphene									1
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.630	10.630	0.000	1622085	0.004587			
2	100	12.298	12.297	0.001	751346	0.004872			
						RPD = 6.04			
16 Endosulfan sulfate									
1	100	10.760	10.761	-0.001	4782686	0.006165			
2	100	11.751	11.750	0.001	2396977	0.006239			
						RPD = 1.18			
19 Endrin ketone									
1	100	11.162	11.161	0.001	4975948	0.005540			
2	100	12.500	12.499	0.001	2426949	0.005646			
						RPD = 1.90			
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.785	0.000	5395483	0.006523			
2	100	14.216	14.216	0.000	2677795	0.006199			
						RPD = 5.09			

QC Flag Legend

Processing Flags
1 - Missing Peaks

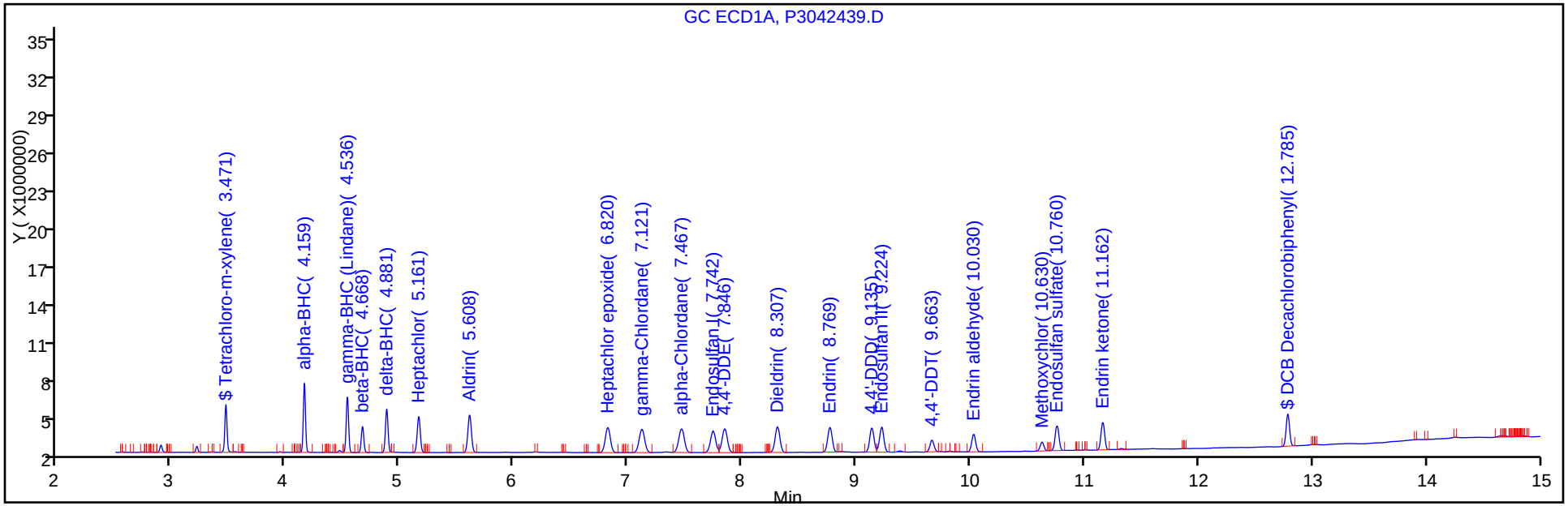
Report Date: 25-Apr-2013 07:51:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

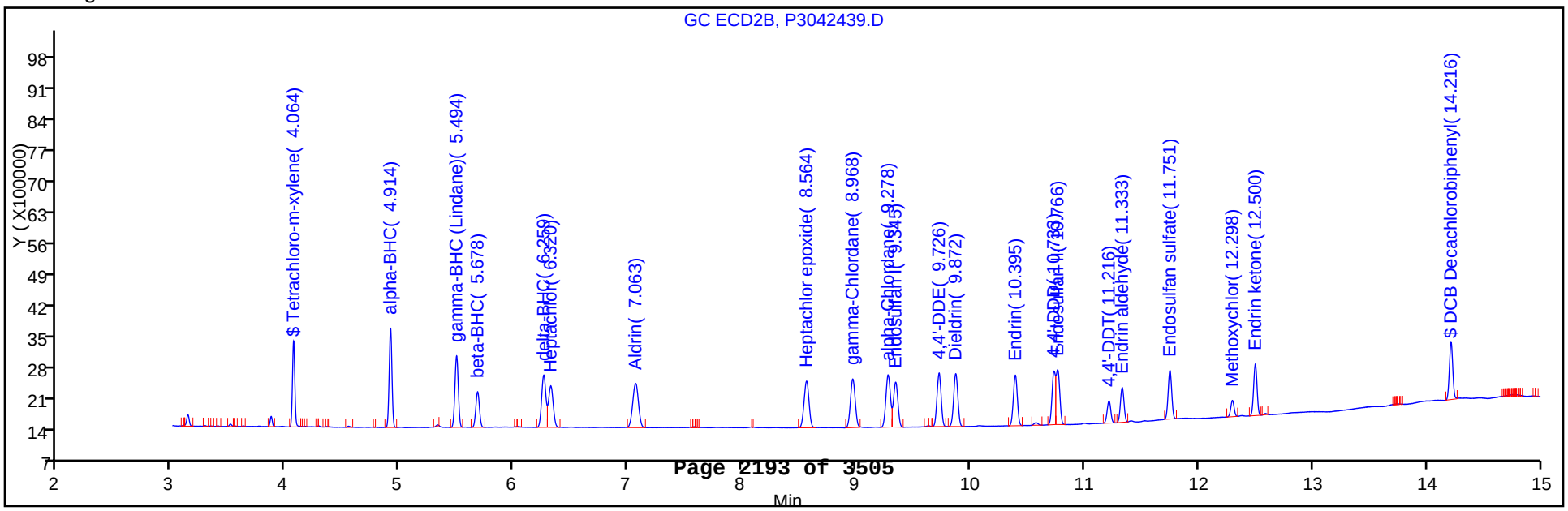
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042439.D

Injection Date:	24-Apr-2013 22:55:08	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	52
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO MS RE | Lab Sample ID: 240-22663-28 MS RE

Matrix: Solid | Lab File ID: P3042434.D

Analysis Method: 8081/DOD | Date Collected: 04/01/2013 10:43

Extraction Method: 3540C | Date Extracted: 04/23/2013 08:54

Sample wt/vol: 29.62(g) | Date Analyzed: 04/24/2013 21:14

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	38.3	H	2.0	0.68	0.63
72-55-9	4,4'-DDE	33.1	H	1.7	0.68	0.40
50-29-3	4,4'-DDT	34.4	H	2.0	0.68	0.64
309-00-2	Aldrin	26.3	H	4.1	1.3	1.2
319-84-6	alpha-BHC	31.8	H	2.5	1.3	0.74
5103-71-9	alpha-Chlordane	29.8	H	3.0	1.3	0.95
319-85-7	beta-BHC	29.9	H	3.5	1.3	1.1
319-86-8	delta-BHC	33.3	H	4.1	1.3	1.2
60-57-1	Dieldrin	34.7	H	1.7	0.68	0.48
959-98-8	Endosulfan I	26.9	H	1.7	0.68	0.53
33213-65-9	Endosulfan II	35.0	H	2.5	1.3	0.83
1031-07-8	Endosulfan sulfate	35.5	H	3.0	1.3	0.88
72-20-8	Endrin	35.0	H	1.7	0.68	0.51
7421-93-4	Endrin aldehyde	32.7	H	3.0	1.3	1.0
53494-70-5	Endrin ketone	32.3	H	2.0	0.68	0.64
58-89-9	gamma-BHC (Lindane)	32.7	H	2.5	1.3	0.75
5103-74-2	gamma-Chlordane	34.8	H	1.7	0.68	0.43
76-44-8	Heptachlor	27.2	H	3.5	1.3	1.1
1024-57-3	Heptachlor epoxide	34.2	H	2.5	1.3	0.81
72-43-5	Methoxychlor	38.3	H	5.1	3.3	1.5
8001-35-2	Toxaphene	20	U H	68	20	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	118		55-130
877-09-8	Tetrachloro-m-xylene	94		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042434.D
Lims ID: 240-22663-G-28-G MS Client ID:
Inject. Date: 24-Apr-2013 21:14:17 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0019209-034
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 34
Lims Batch ID: 83400 Lims Sample ID: 34
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 26-Apr-2013 09:16:09 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: shockr Date: 26-Apr-2013 09:16:09

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.472	3.471	0.001	16586802	0.0188			
2	100	4.066	4.064	0.002	8408624	0.0175			
						RPD = 7.08			
12 Diallate									
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.161	4.159	0.002	128051755	0.0942			
2	100	4.917	4.915	0.002	74398416	0.1042			
						RPD = 10.05			
20 gamma-BHC (Lindane)									
1	100	4.538	4.537	0.001	116992409	0.0968			
2	100	5.496	5.494	0.002	65084772	0.1038			
						RPD = 7.01			
7 beta-BHC									
1	100	4.670	4.669	0.001	46036847	0.0887			E
2	100	5.721	5.679	0.042	403477465	1.45			E
						RPD = 176.92			
11 delta-BHC									
1	100	4.882	4.882	0.000	120582343	0.0985			
2	100	6.261	6.259	0.002	57284056	0.0883			
						RPD = 10.97			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.049						
1	2		5.898						
1	3		7.121						
1	4		7.462						
2	100		6.017						
2	2		7.584						
2	3		8.968						
2	4		9.279						
22 Heptachlor									
1	100	5.162	5.163	-0.001	83213271	0.0806			
2	100	6.321	6.322	-0.001	37351930	0.0756			
						RPD = 6.47			
4 Aldrin									
1	100	5.609	5.609	0.000	84748987	0.0779			
2	100	7.065	7.064	0.001	61009778	0.1054			
						RPD = 29.99			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.822	6.822	0.000	100526251	0.1013			
2	100	8.564	8.565	-0.001	61304935	0.1193			
						RPD = 16.41			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	102996614	0.1031			
2	100	8.970	8.970	0.000	55103008	0.1083			
						RPD = 4.92			
6 alpha-Chlordane									
1	100	7.470	7.470	0.000	90308385	0.0883			
2	100	9.280	9.280	0.000	53983572	0.1033			
						RPD = 15.69			
14 Endosulfan I									
1	100	7.746	7.746	0.000	72307654	0.0798			
2	100	9.347	9.346	0.001	50966425	0.1110			
						RPD = 32.74			
2 4,4'-DDE									
1	100	7.847	7.850	-0.003	94962897	0.0980			
2	100	9.727	9.727	0.000	53394052	0.1075			
						RPD = 9.19			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.310	8.310	0.000	102605460	0.1028			
2	100	9.874	9.874	0.000	57515220	0.1149			
						RPD = 11.16			
17 Endrin									
1	100	8.771	8.771	0.000	96326747	0.1036			
2	100	10.396	10.396	0.000	49076244	0.1070			
						RPD = 3.25			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									1
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.137	9.139	-0.002	84755091	0.1133			
2	100	10.735	10.736	-0.001	45999754	0.1319			
						RPD = 15.18			
15 Endosulfan II									
1	100	9.224	9.225	-0.001	87121651	0.1037			
2	100	10.767	10.766	0.001	47916795	0.1121			
						RPD = 7.75			
9 Chlorobenzilate									1
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									M
1	100	9.665	9.668	-0.003	71698766	0.1020			
2	100	11.217	11.217	0.000	33772009	0.1090			M
						RPD = 6.71			
18 Endrin aldehyde									
1	100	10.029	10.030	-0.001	62370823	0.0968			
2	100	11.333	11.333	0.000	34354808	0.1063			
						RPD = 9.32			
30 Toxaphene									1
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.628	10.630	-0.002	40077869	0.1133			
2	100	12.299	12.299	0.000	17763727	0.1152			
						RPD = 1.64			
16 Endosulfan sulfate									
1	100	10.762	10.763	-0.001	81638037	0.1052			
2	100	11.752	11.752	0.000	45624455	0.1187			
						RPD = 12.06			
19 Endrin ketone									
1	100	11.162	11.165	-0.003	85839723	0.0956			
2	100	12.501	12.501	0.000	49503019	0.1152			
						RPD = 18.60			
$ 10 DCB Decachlorobiphenyl									
1	100	12.786	12.787	-0.001	19594399	0.0237			
2	100	14.217	14.217	0.000	9088840	0.0210			
						RPD = 11.84			

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

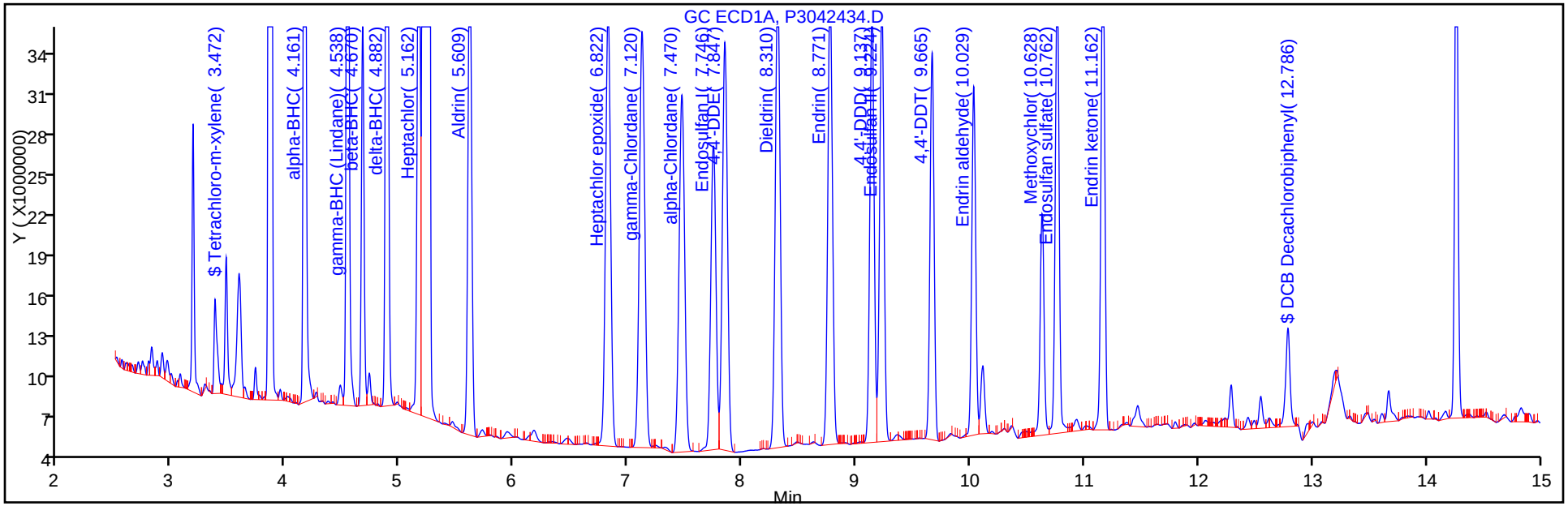
Report Date: 26-Apr-2013 09:16:10 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

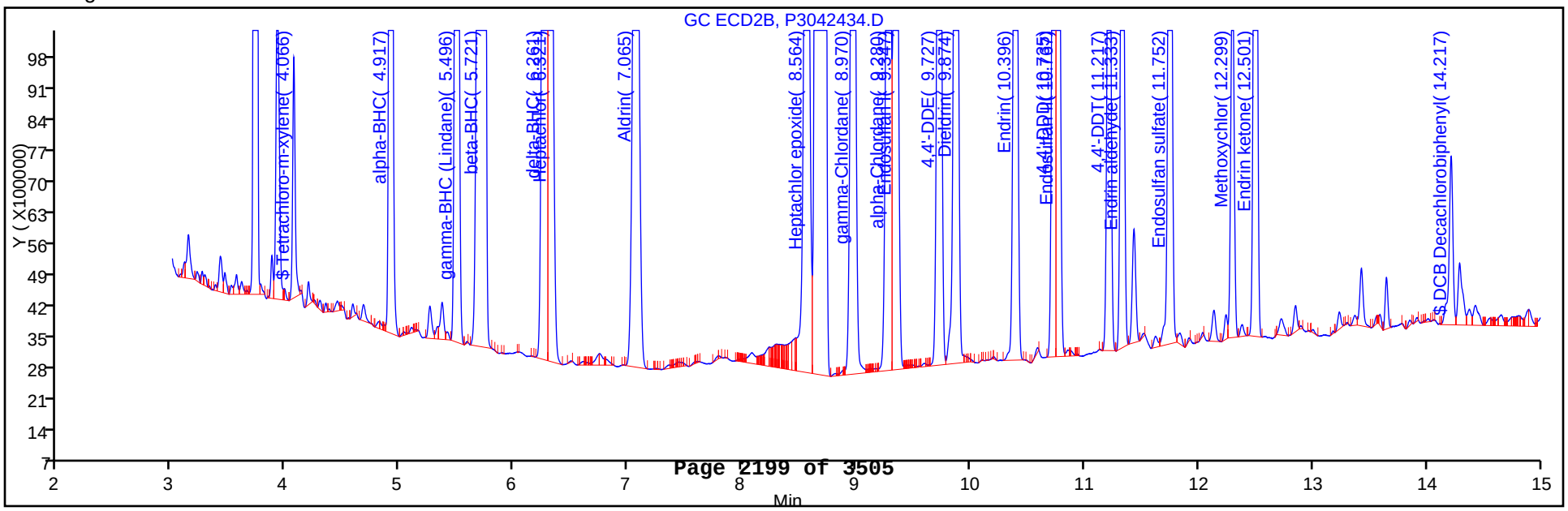
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042434.D

Injection Date:	24-Apr-2013 21:14:17	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	34
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO MS RE Lab Sample ID: 240-22663-28 MS RE

Matrix: Solid Lab File ID: P3042434.D

Analysis Method: 8081/DOD Date Collected: 04/01/2013 10:43

Extraction Method: 3540C Date Extracted: 04/23/2013 08:54

Sample wt/vol: 29.62(g) Date Analyzed: 04/24/2013 21:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83400 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	105		55-130
877-09-8	Tetrachloro-m-xylene	88		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042434.D
Lims ID: 240-22663-G-28-G MS Client ID:
Inject. Date: 24-Apr-2013 21:14:17 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 240-0019209-034
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 34
Lims Batch ID: 83400 Lims Sample ID: 34
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 26-Apr-2013 09:16:09 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: shockr Date: 26-Apr-2013 09:16:09

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.472	3.471	0.001	16586802	0.0188			
2	100	4.066	4.064	0.002	8408624	0.0175			
						RPD = 7.08			
12 Diallate									
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.161	4.159	0.002	128051755	0.0942			
2	100	4.917	4.915	0.002	74398416	0.1042			
						RPD = 10.05			
20 gamma-BHC (Lindane)									
1	100	4.538	4.537	0.001	116992409	0.0968			
2	100	5.496	5.494	0.002	65084772	0.1038			
						RPD = 7.01			
7 beta-BHC									
1	100	4.670	4.669	0.001	46036847	0.0887			E
2	100	5.721	5.679	0.042	403477465	1.45			E
						RPD = 176.92			
11 delta-BHC									
1	100	4.882	4.882	0.000	120582343	0.0985			
2	100	6.261	6.259	0.002	57284056	0.0883			
						RPD = 10.97			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.049						
1	2		5.898						
1	3		7.121						
1	4		7.462						
2	100		6.017						
2	2		7.584						
2	3		8.968						
2	4		9.279						
22 Heptachlor									
1	100	5.162	5.163	-0.001	83213271	0.0806			
2	100	6.321	6.322	-0.001	37351930	0.0756			
						RPD = 6.47			
4 Aldrin									
1	100	5.609	5.609	0.000	84748987	0.0779			
2	100	7.065	7.064	0.001	61009778	0.1054			
						RPD = 29.99			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.822	6.822	0.000	100526251	0.1013			
2	100	8.564	8.565	-0.001	61304935	0.1193			
						RPD = 16.41			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	102996614	0.1031			
2	100	8.970	8.970	0.000	55103008	0.1083			
						RPD = 4.92			
6 alpha-Chlordane									
1	100	7.470	7.470	0.000	90308385	0.0883			
2	100	9.280	9.280	0.000	53983572	0.1033			
						RPD = 15.69			
14 Endosulfan I									
1	100	7.746	7.746	0.000	72307654	0.0798			
2	100	9.347	9.346	0.001	50966425	0.1110			
						RPD = 32.74			
2 4,4'-DDE									
1	100	7.847	7.850	-0.003	94962897	0.0980			
2	100	9.727	9.727	0.000	53394052	0.1075			
						RPD = 9.19			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.310	8.310	0.000	102605460	0.1028			
2	100	9.874	9.874	0.000	57515220	0.1149			
						RPD = 11.16			
17 Endrin									
1	100	8.771	8.771	0.000	96326747	0.1036			
2	100	10.396	10.396	0.000	49076244	0.1070			
						RPD = 3.25			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									1
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.137	9.139	-0.002	84755091	0.1133			
2	100	10.735	10.736	-0.001	45999754	0.1319			
						RPD = 15.18			
15 Endosulfan II									
1	100	9.224	9.225	-0.001	87121651	0.1037			
2	100	10.767	10.766	0.001	47916795	0.1121			
						RPD = 7.75			
9 Chlorobenzilate									1
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									M
1	100	9.665	9.668	-0.003	71698766	0.1020			
2	100	11.217	11.217	0.000	33772009	0.1090			M
						RPD = 6.71			
18 Endrin aldehyde									
1	100	10.029	10.030	-0.001	62370823	0.0968			
2	100	11.333	11.333	0.000	34354808	0.1063			
						RPD = 9.32			
30 Toxaphene									1
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.628	10.630	-0.002	40077869	0.1133			
2	100	12.299	12.299	0.000	17763727	0.1152			
						RPD = 1.64			
16 Endosulfan sulfate									
1	100	10.762	10.763	-0.001	81638037	0.1052			
2	100	11.752	11.752	0.000	45624455	0.1187			
						RPD = 12.06			
19 Endrin ketone									
1	100	11.162	11.165	-0.003	85839723	0.0956			
2	100	12.501	12.501	0.000	49503019	0.1152			
						RPD = 18.60			
$ 10 DCB Decachlorobiphenyl									
1	100	12.786	12.787	-0.001	19594399	0.0237			
2	100	14.217	14.217	0.000	9088840	0.0210			
						RPD = 11.84			

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

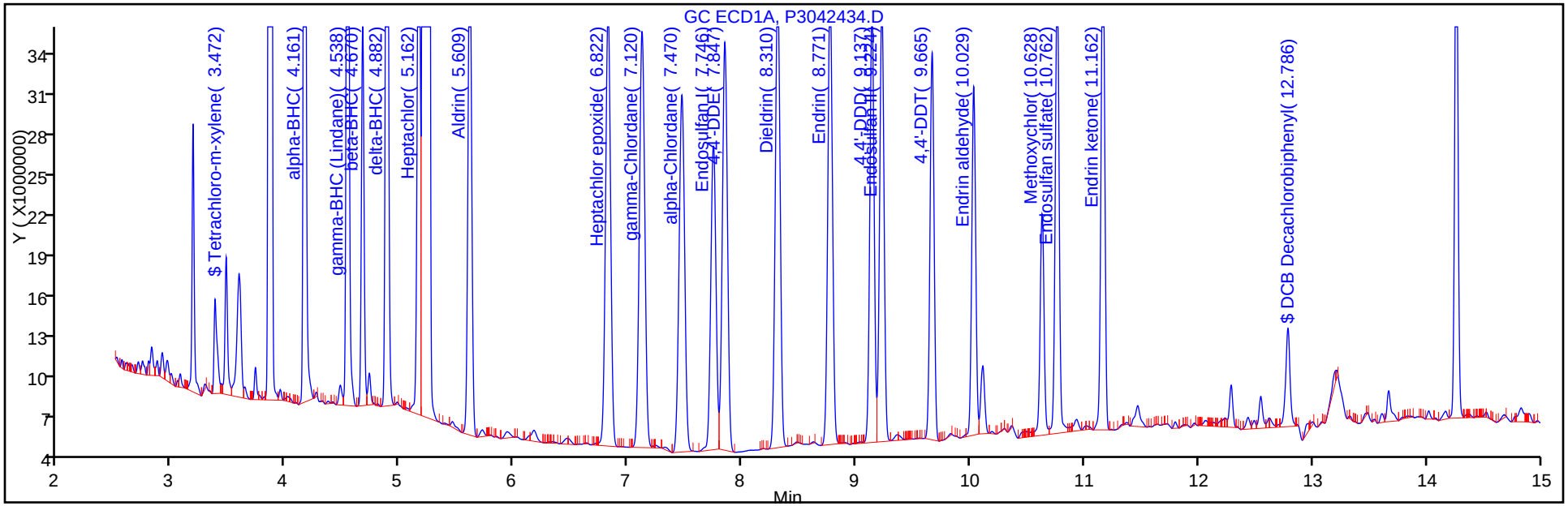
Report Date: 26-Apr-2013 09:16:10 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

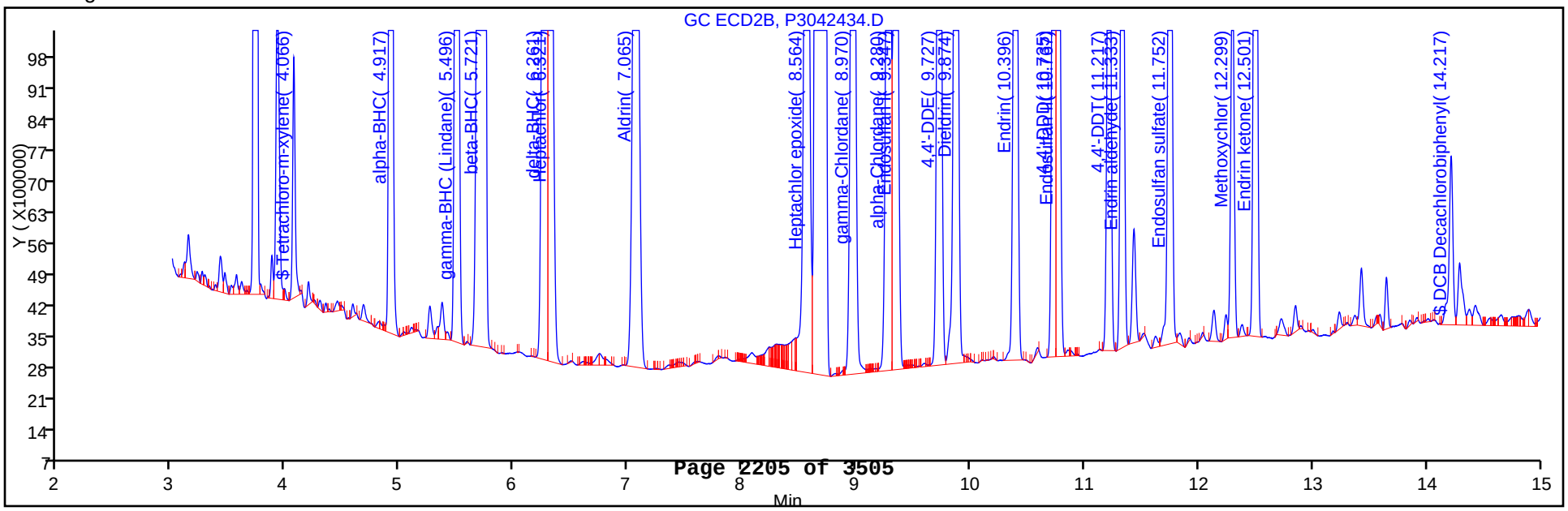
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042434.D

Injection Date:	24-Apr-2013 21:14:17	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	34
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

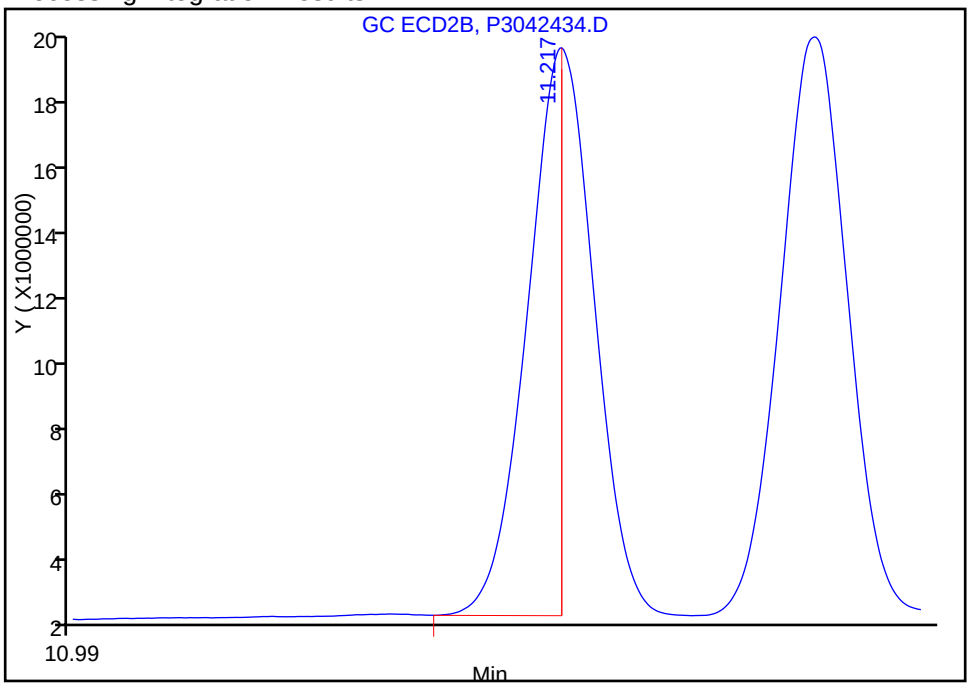
TestAmerica Canton

Data File:	\\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042434.D		
Injection Date:	24-Apr-2013 21:14:17	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	34
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

3 4,4'-DDT, Signal: 2, Type: quant, RT: 11.22, Det: GC ecd2b

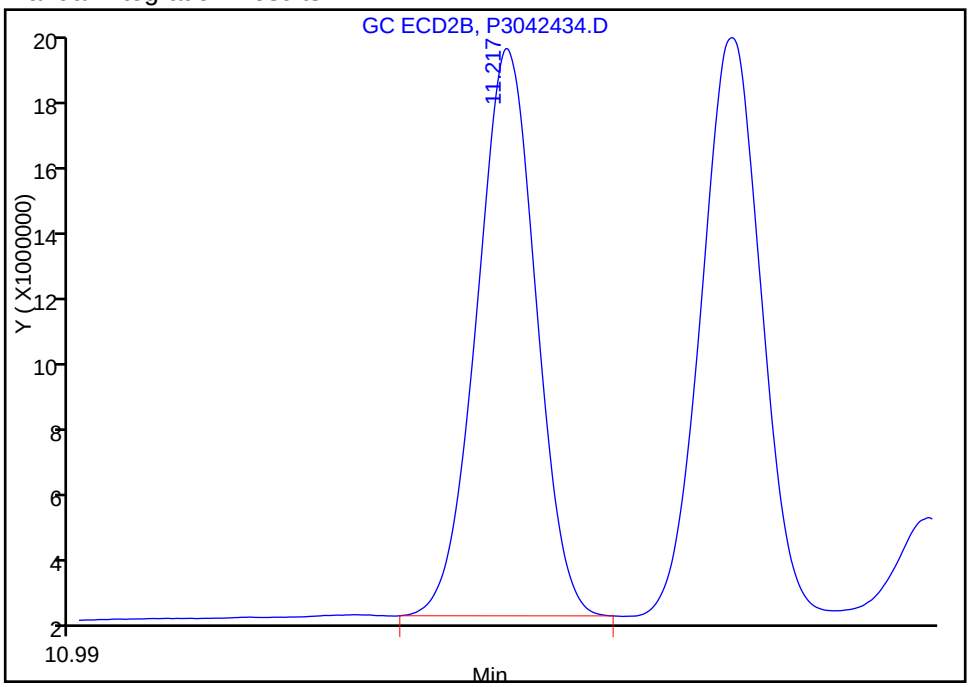
Processing Integration Results

RT: 11.22
Response: 17194171
Amount: 0.055516



Manual Integration Results

RT: 11.22
Response: 33772009
Amount: 0.109042



Reviewer: shockr, 26-Apr-2013 09:16:09
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO MSD | Lab Sample ID: 240-22663-28 MSD RE

Matrix: Solid | Lab File ID: P3042435.D

Analysis Method: 8081/DOD | Date Collected: 04/01/2013 10:43

Extraction Method: 3540C | Date Extracted: 04/23/2013 08:54

Sample wt/vol: 29.90(g) | Date Analyzed: 04/24/2013 21:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83400 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	36.4	H	2.0	0.67	0.62
72-55-9	4,4'-DDE	32.1	H	1.7	0.67	0.39
50-29-3	4,4'-DDT	31.2	H	2.0	0.67	0.63
309-00-2	Aldrin	25.3	H	4.0	1.3	1.2
319-84-6	alpha-BHC	30.9	H	2.5	1.3	0.73
5103-71-9	alpha-Chlordane	28.6	H	3.0	1.3	0.94
319-85-7	beta-BHC	28.8	H	3.5	1.3	1.1
319-86-8	delta-BHC	31.9	H	4.0	1.3	1.2
60-57-1	Dieldrin	33.3	H	1.7	0.67	0.47
959-98-8	Endosulfan I	26.2	H	1.7	0.67	0.52
33213-65-9	Endosulfan II	33.6	H	2.5	1.3	0.82
1031-07-8	Endosulfan sulfate	32.5	H	3.0	1.3	0.87
72-20-8	Endrin	33.7	H	1.7	0.67	0.50
7421-93-4	Endrin aldehyde	30.9	H	3.0	1.3	1.0
53494-70-5	Endrin ketone	30.2	H	2.0	0.67	0.63
58-89-9	gamma-BHC (Lindane)	31.2	H	2.5	1.3	0.74
5103-74-2	gamma-Chlordane	33.1	H	1.7	0.67	0.42
76-44-8	Heptachlor	25.6	H	3.5	1.3	1.1
1024-57-3	Heptachlor epoxide	32.7	H	2.5	1.3	0.80
72-43-5	Methoxychlor	33.2	H	5.0	3.3	1.5
8001-35-2	Toxaphene	20	U H	67	20	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	103		55-130
877-09-8	Tetrachloro-m-xylene	87		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042435.D
Lims ID: 240-22663-G-28-H MSD Client ID:
Inject. Date: 24-Apr-2013 21:34:34 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 240-0019209-035
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 35
Lims Batch ID: 83400 Lims Sample ID: 35
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 25-Apr-2013 07:51:26 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

First Level Reviewer: shockr Date: 25-Apr-2013 07:21:15

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.473	3.471	0.002	15271587	0.0173			
2	100	4.066	4.064	0.002	9051336	0.0189			
						RPD = 8.54			
12 Diallate									
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.161	4.159	0.002	125403958	0.0923			
2	100	4.916	4.915	0.001	71678940	0.1004			
						RPD = 8.42			
20 gamma-BHC (Lindane)									
1	100	4.538	4.537	0.001	112792827	0.0933			
2	100	5.494	5.494	0.000	62852473	0.1003			
						RPD = 7.17			
7 beta-BHC									
1	100	4.670	4.669	0.001	44641990	0.0860			E
2	100	5.720	5.679	0.041	400591726	1.44			E
						RPD = 177.43			
11 delta-BHC									
1	100	4.883	4.882	0.001	116702875	0.0953			
2	100	6.259	6.259	0.000	55140608	0.0849			
						RPD = 11.51			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.049						
1	2		5.898						
1	3		7.121						
1	4		7.462						
2	100		6.017						
2	2		7.584						
2	3		8.968						
2	4		9.279						
22 Heptachlor									
1	100	5.163	5.163	0.000	78908242	0.0765			
2	100	6.320	6.322	-0.002	36232256	0.0733			
						RPD = 4.20			
4 Aldrin									
1	100	5.609	5.609	0.000	82256128	0.0756			
2	100	7.065	7.064	0.001	59287102	0.1024			
						RPD = 30.11			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.823	6.822	0.001	97184342	0.0979			
2	100	8.563	8.565	-0.002	57665353	0.1123			
						RPD = 13.68			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	98963657	0.0991			
2	100	8.970	8.970	0.000	53263732	0.1047			
						RPD = 5.52			
6 alpha-Chlordane									
1	100	7.471	7.470	0.001	87587192	0.0856			
2	100	9.278	9.280	-0.002	52549782	0.1005			
						RPD = 16.06			
14 Endosulfan I									
1	100	7.747	7.746	0.001	71130280	0.0785			
2	100	9.347	9.346	0.001	48771791	0.1062			
						RPD = 30.04			
2 4,4'-DDE									
1	100	7.848	7.850	-0.002	92938889	0.0959			
2	100	9.726	9.727	-0.001	51444823	0.1035			
						RPD = 7.63			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.310	8.310	0.000	99357435	0.0995			
2	100	9.873	9.874	-0.001	55457304	0.1108			
						RPD = 10.73			
17 Endrin									
1	100	8.769	8.771	-0.002	93637259	0.1007			
2	100	10.395	10.396	-0.001	46963090	0.1024			
						RPD = 1.64			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									1
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.137	9.139	-0.002	81464824	0.1089			
2	100	10.735	10.736	-0.001	42412849	0.1216			
						RPD = 11.04			
15 Endosulfan II									
1	100	9.223	9.225	-0.002	84457863	0.1006			
2	100	10.766	10.766	0.000	47032887	0.1100			
						RPD = 8.99			
9 Chlorobenzilate									1
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									
1	100	9.664	9.668	-0.004	65519811	0.0932			
2	100	11.216	11.217	-0.001	30620427	0.0989			
						RPD = 5.93			
18 Endrin aldehyde									
1	100	10.029	10.030	-0.001	59516550	0.0924			
2	100	11.333	11.333	0.000	32392393	0.1002			
						RPD = 8.13			
30 Toxaphene									
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.630	10.630	0.000	35113729	0.0993			
2	100	12.298	12.299	-0.001	15955018	0.1035			
						RPD = 4.12			
16 Endosulfan sulfate									
1	100	10.761	10.763	-0.002	75288869	0.0971			
2	100	11.751	11.752	-0.001	43143081	0.1123			
						RPD = 14.56			
19 Endrin ketone									
1	100	11.163	11.165	-0.002	81085828	0.0903			
2	100	12.500	12.501	-0.001	47221666	0.1099			
						RPD = 19.57			
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.787	-0.002	17058745	0.0206			
2	100	14.217	14.217	0.000	7116798	0.0165			
						RPD = 22.36			

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

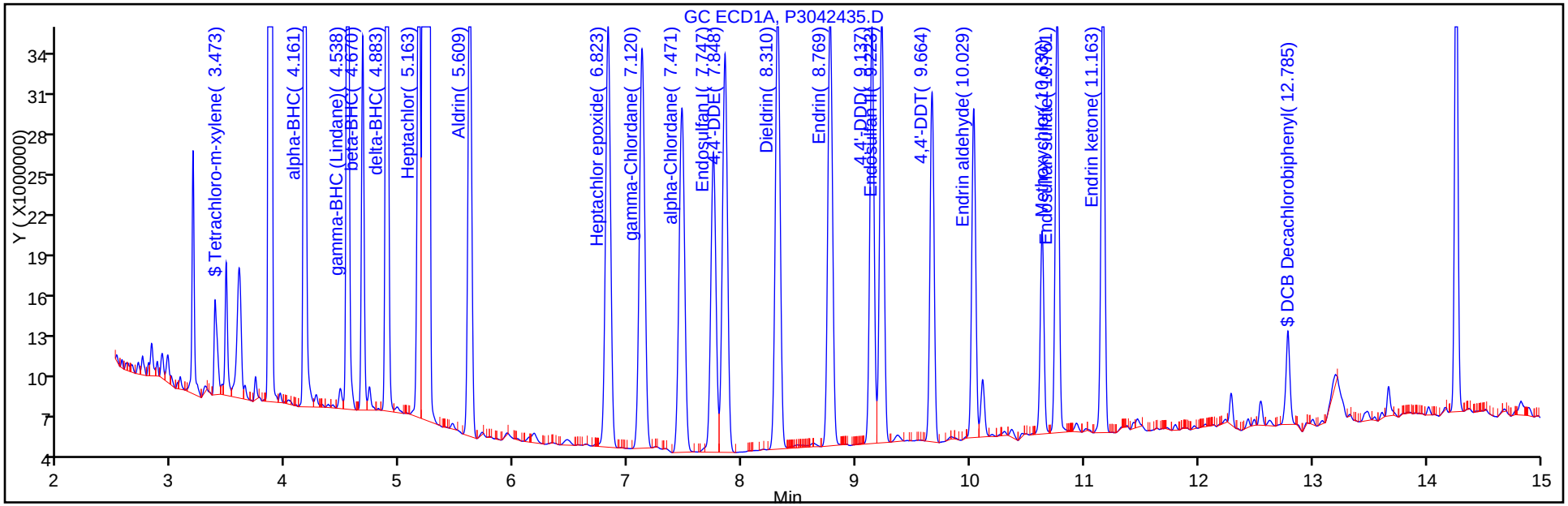
Report Date: 25-Apr-2013 07:51:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

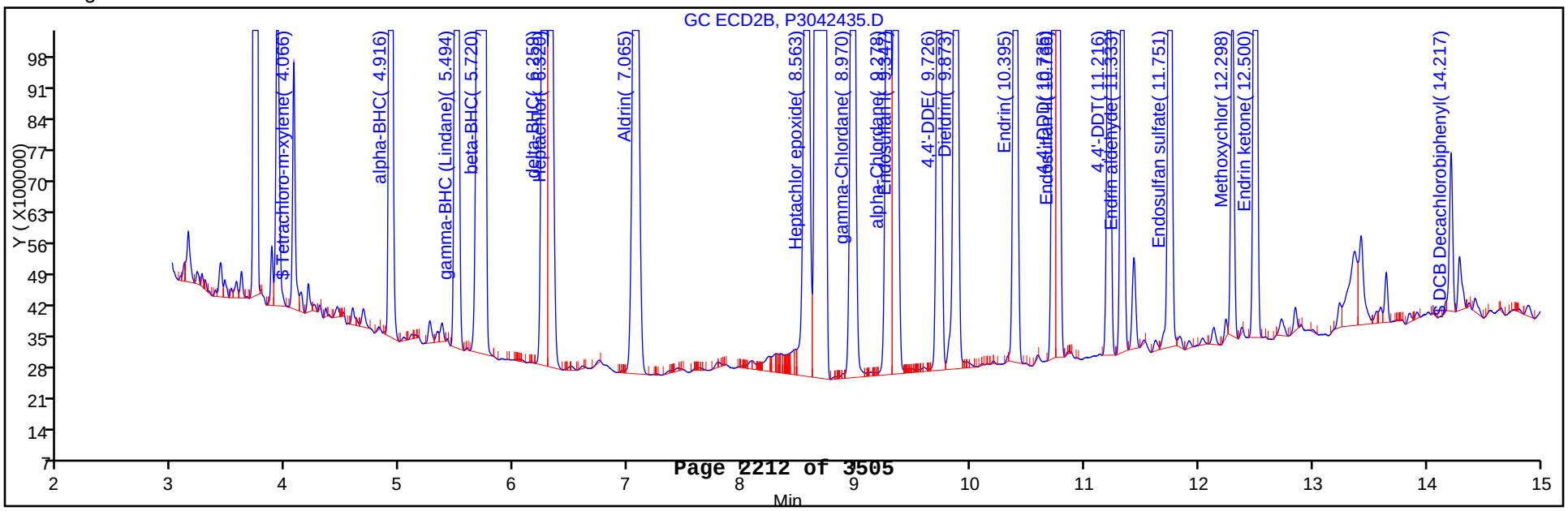
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042435.D

Injection Date:	24-Apr-2013 21:34:34	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	35
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO MSD Lab Sample ID: 240-22663-28 MSD RE

Matrix: Solid Lab File ID: P3042435.D

Analysis Method: 8081/DOD Date Collected: 04/01/2013 10:43

Extraction Method: 3540C Date Extracted: 04/23/2013 08:54

Sample wt/vol: 29.90(g) Date Analyzed: 04/24/2013 21:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83400 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	82		55-130
877-09-8	Tetrachloro-m-xylene	94		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042435.D
Lims ID: 240-22663-G-28-H MSD Client ID:
Inject. Date: 24-Apr-2013 21:34:34 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 240-0019209-035
Misc. Info.:
Operator: 402582 Instrument ID: A2HP3
Injection Vol: 1.0 ul ALS Bottle#: 35
Lims Batch ID: 83400 Lims Sample ID: 35
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\NCChrom\ChromData\A2HP3\20130424-19209.b\PEST3.m
Last Update: 25-Apr-2013 07:51:26 Calib Date: 23-Apr-2013 17:41:50
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20130423-19186.b\P3042315.D
Limit Group: GC 8081 D0D ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK034

First Level Reviewer: shockr Date: 25-Apr-2013 07:21:15

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 29 Tetrachloro-m-xylene									
1	100	3.473	3.471	0.002	15271587	0.0173			
2	100	4.066	4.064	0.002	9051336	0.0189			
						RPD = 8.54			
12 Diallate									
1	100		3.734						
1	2		4.041						
2	100		4.309						
2	2		4.644						
24 Hexachlorobenzene									
1	100		3.944						
2	100		4.681						
5 alpha-BHC									
1	100	4.161	4.159	0.002	125403958	0.0923			
2	100	4.916	4.915	0.001	71678940	0.1004			
						RPD = 8.42			
20 gamma-BHC (Lindane)									
1	100	4.538	4.537	0.001	112792827	0.0933			
2	100	5.494	5.494	0.000	62852473	0.1003			
						RPD = 7.17			
7 beta-BHC									
1	100	4.670	4.669	0.001	44641990	0.0860			E
2	100	5.720	5.679	0.041	400591726	1.44			E
						RPD = 177.43			
11 delta-BHC									
1	100	4.883	4.882	0.001	116702875	0.0953			
2	100	6.259	6.259	0.000	55140608	0.0849			
						RPD = 11.51			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 Chlordane (technical)									
1	100		5.049						
1	2		5.898						
1	3		7.121						
1	4		7.462						
2	100		6.017						
2	2		7.584						
2	3		8.968						
2	4		9.279						
22 Heptachlor									
1	100	5.163	5.163	0.000	78908242	0.0765			
2	100	6.320	6.322	-0.002	36232256	0.0733			
						RPD = 4.20			
4 Aldrin									
1	100	5.609	5.609	0.000	82256128	0.0756			
2	100	7.065	7.064	0.001	59287102	0.1024			
						RPD = 30.11			
25 Isodrin									
1	100		6.191						
2	100		8.092						
23 Heptachlor epoxide									
1	100	6.823	6.822	0.001	97184342	0.0979			
2	100	8.563	8.565	-0.002	57665353	0.1123			
						RPD = 13.68			
21 gamma-Chlordane									
1	100	7.120	7.121	-0.001	98963657	0.0991			
2	100	8.970	8.970	0.000	53263732	0.1047			
						RPD = 5.52			
6 alpha-Chlordane									
1	100	7.471	7.470	0.001	87587192	0.0856			
2	100	9.278	9.280	-0.002	52549782	0.1005			
						RPD = 16.06			
14 Endosulfan I									
1	100	7.747	7.746	0.001	71130280	0.0785			
2	100	9.347	9.346	0.001	48771791	0.1062			
						RPD = 30.04			
2 4,4'-DDE									
1	100	7.848	7.850	-0.002	92938889	0.0959			
2	100	9.726	9.727	-0.001	51444823	0.1035			
						RPD = 7.63			
28 Mirex									1
1	100		8.279						
2	100		9.197						
13 Dieldrin									
1	100	8.310	8.310	0.000	99357435	0.0995			
2	100	9.873	9.874	-0.001	55457304	0.1108			
						RPD = 10.73			
17 Endrin									
1	100	8.769	8.771	-0.002	93637259	0.1007			
2	100	10.395	10.396	-0.001	46963090	0.1024			
						RPD = 1.64			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
26 Kepone									1
1	100		8.847						
2	100		10.561						
1 4,4'-DDD									
1	100	9.137	9.139	-0.002	81464824	0.1089			
2	100	10.735	10.736	-0.001	42412849	0.1216			
						RPD = 11.04			
15 Endosulfan II									
1	100	9.223	9.225	-0.002	84457863	0.1006			
2	100	10.766	10.766	0.000	47032887	0.1100			
						RPD = 8.99			
9 Chlorobenzilate									1
1	100		9.243						
2	100		10.562						
3 4,4'-DDT									
1	100	9.664	9.668	-0.004	65519811	0.0932			
2	100	11.216	11.217	-0.001	30620427	0.0989			
						RPD = 5.93			
18 Endrin aldehyde									
1	100	10.029	10.030	-0.001	59516550	0.0924			
2	100	11.333	11.333	0.000	32392393	0.1002			
						RPD = 8.13			
30 Toxaphene									
1	1		10.218						
1	2		10.565						
1	3		10.717						
1	4		11.134						
1	5		11.404						
2	100		10.320						
2	2		10.915						
2	3		11.336						
2	4		12.077						
2	5		12.638						
27 Methoxychlor									
1	100	10.630	10.630	0.000	35113729	0.0993			
2	100	12.298	12.299	-0.001	15955018	0.1035			
						RPD = 4.12			
16 Endosulfan sulfate									
1	100	10.761	10.763	-0.002	75288869	0.0971			
2	100	11.751	11.752	-0.001	43143081	0.1123			
						RPD = 14.56			
19 Endrin ketone									
1	100	11.163	11.165	-0.002	81085828	0.0903			
2	100	12.500	12.501	-0.001	47221666	0.1099			
						RPD = 19.57			
$ 10 DCB Decachlorobiphenyl									
1	100	12.785	12.787	-0.002	17058745	0.0206			
2	100	14.217	14.217	0.000	7116798	0.0165			
						RPD = 22.36			

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

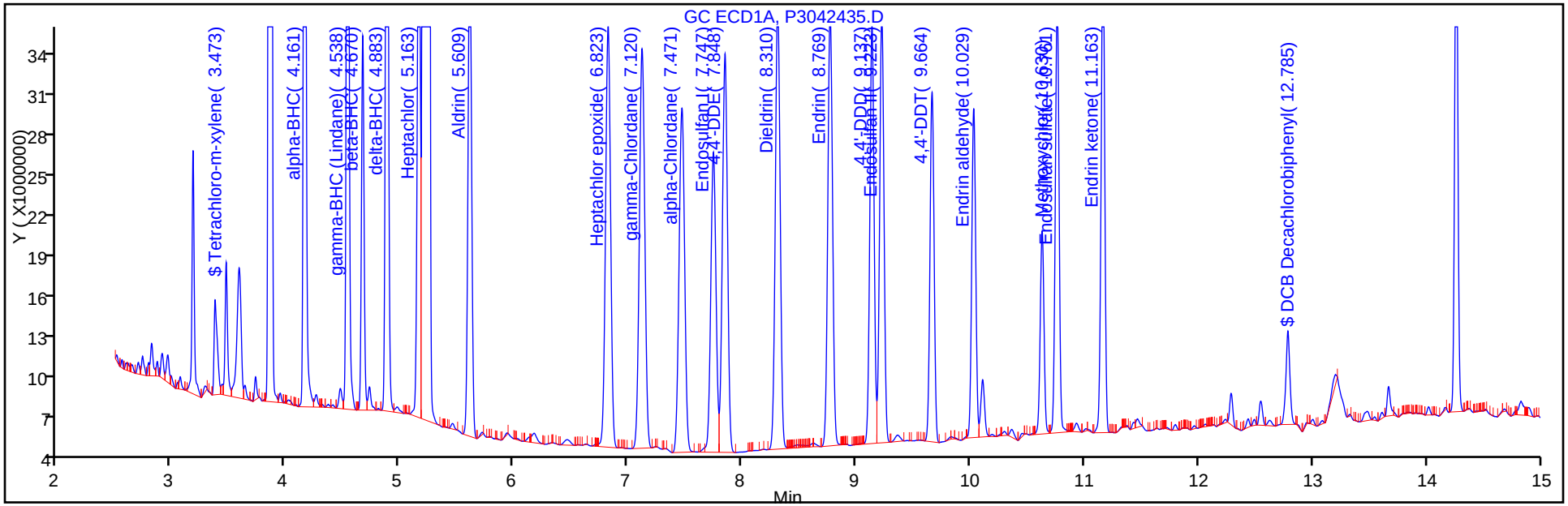
Report Date: 25-Apr-2013 07:51:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

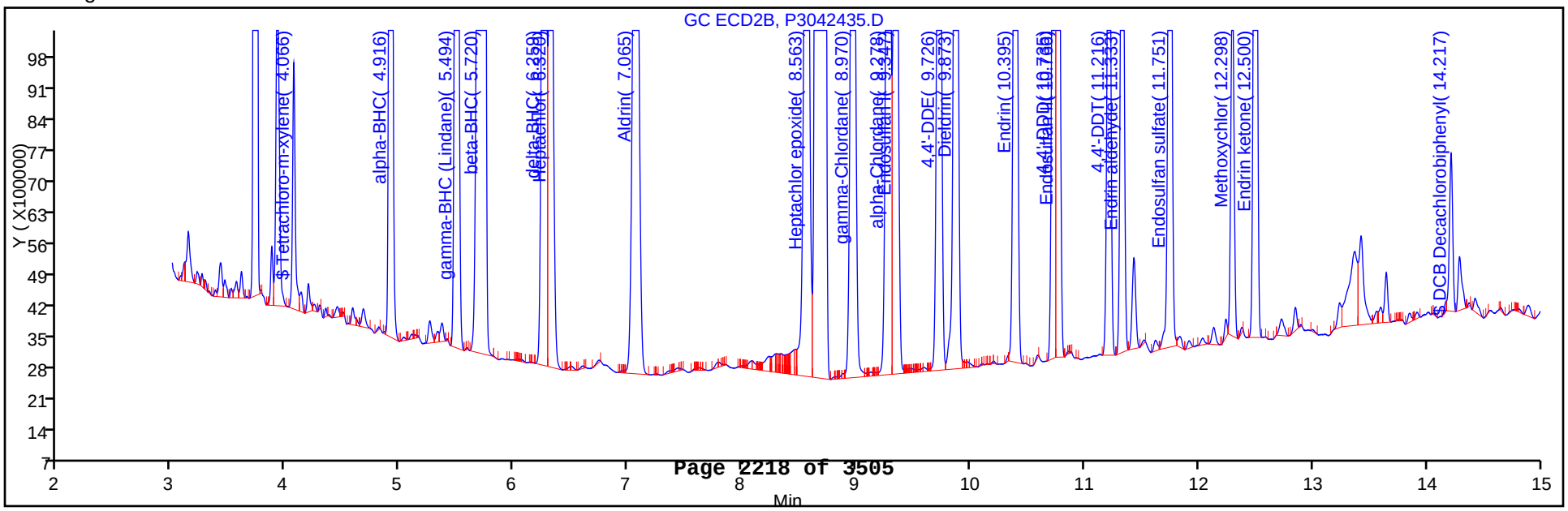
Data File: \\NCChrom\ChromData\A2HP3\20130424-19209.b\P3042435.D

Injection Date:	24-Apr-2013 21:34:34	Limit Group:	GC 8081 D0D ICAL
Client ID:		Instrument ID:	A2HP3
Lims Batch ID:	83400	Lims Sample ID:	35
Operator ID:	402582	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 03/14/2013 14:00

Analysis Batch Number: 78295 End Date: 03/14/2013 20:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-78295/12		03/14/2013 14:00	1	P3031412.D	CLP-1 0.53(mm)
PEM 240-78295/12		03/14/2013 14:00	1	P3031412.D	CLP-2 0.53(mm)
STD 240-78295/13 IC		03/14/2013 14:20	1	P3031413.D	CLP-1 0.53(mm)
STD 240-78295/13 IC		03/14/2013 14:20	1	P3031413.D	CLP-2 0.53(mm)
STD 240-78295/14 IC		03/14/2013 14:40	1	P3031414.D	CLP-1 0.53(mm)
STD 240-78295/14 IC		03/14/2013 14:40	1	P3031414.D	CLP-2 0.53(mm)
STD 240-78295/15 ICRT		03/14/2013 15:00	1	P3031415.D	CLP-1 0.53(mm)
STD 240-78295/15 ICRT		03/14/2013 15:00	1	P3031415.D	CLP-2 0.53(mm)
STD 240-78295/16 IC		03/14/2013 15:20	1	P3031416.D	CLP-1 0.53(mm)
STD 240-78295/16 IC		03/14/2013 15:20	1	P3031416.D	CLP-2 0.53(mm)
STD 240-78295/17 IC		03/14/2013 15:40	1	P3031417.D	CLP-1 0.53(mm)
STD 240-78295/17 IC		03/14/2013 15:40	1	P3031417.D	CLP-2 0.53(mm)
STD 240-78295/18 IC		03/14/2013 16:00	1	P3031418.D	CLP-1 0.53(mm)
STD 240-78295/18 IC		03/14/2013 16:00	1	P3031418.D	CLP-2 0.53(mm)
ICV 240-78295/19		03/14/2013 16:20	1	P3031419.D	CLP-1 0.53(mm)
ICV 240-78295/19		03/14/2013 16:20	1	P3031419.D	CLP-2 0.53(mm)
STD 240-78295/20 IC		03/14/2013 16:40	1	P3031420.D	CLP-1 0.53(mm)
STD 240-78295/20 IC		03/14/2013 16:40	1	P3031420.D	CLP-2 0.53(mm)
STD 240-78295/21 IC		03/14/2013 17:00	1	P3031421.D	CLP-1 0.53(mm)
STD 240-78295/21 IC		03/14/2013 17:00	1	P3031421.D	CLP-2 0.53(mm)
STD 240-78295/22 IC		03/14/2013 17:20	1	P3031422.D	CLP-1 0.53(mm)
STD 240-78295/22 IC		03/14/2013 17:20	1	P3031422.D	CLP-2 0.53(mm)
STD 240-78295/23 IC		03/14/2013 17:40	1	P3031423.D	CLP-1 0.53(mm)
STD 240-78295/23 IC		03/14/2013 17:40	1	P3031423.D	CLP-2 0.53(mm)
STD 240-78295/24 IC		03/14/2013 18:00	1	P3031424.D	CLP-1 0.53(mm)
STD 240-78295/24 IC		03/14/2013 18:00	1	P3031424.D	CLP-2 0.53(mm)
ICV 240-78295/25		03/14/2013 18:20	1	P3031425.D	CLP-1 0.53(mm)
ICV 240-78295/25		03/14/2013 18:20	1	P3031425.D	CLP-2 0.53(mm)
STD 240-78295/26 IC		03/14/2013 18:40	1		CLP-1 0.53(mm)
STD 240-78295/26 IC		03/14/2013 18:40	1		CLP-2 0.53(mm)
STD 240-78295/27 IC		03/14/2013 19:00	1		CLP-1 0.53(mm)
STD 240-78295/27 IC		03/14/2013 19:00	1		CLP-2 0.53(mm)
STD 240-78295/28 IC		03/14/2013 19:20	1		CLP-1 0.53(mm)
STD 240-78295/28 IC		03/14/2013 19:20	1		CLP-2 0.53(mm)
STD 240-78295/29 IC		03/14/2013 19:40	1		CLP-1 0.53(mm)
STD 240-78295/29 IC		03/14/2013 19:40	1		CLP-2 0.53(mm)
STD 240-78295/30 IC		03/14/2013 20:00	1		CLP-1 0.53(mm)
STD 240-78295/30 IC		03/14/2013 20:00	1		CLP-2 0.53(mm)
ICV 240-78295/31		03/14/2013 20:20	1		CLP-1 0.53(mm)
ICV 240-78295/31		03/14/2013 20:20	1		CLP-2 0.53(mm)
PEM 240-78295/32		03/14/2013 20:40	1		CLP-1 0.53(mm)
PEM 240-78295/32		03/14/2013 20:40	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/19/2013 11:25

Analysis Batch Number: 82685 End Date: 04/20/2013 00:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-82685/4		04/19/2013 11:25	1	P3041904.D	CLP-1 0.53(mm)
PEM 240-82685/4		04/19/2013 11:25	1	P3041904.D	CLP-2 0.53(mm)
CCV 240-82685/5 CCVRT		04/19/2013 11:45	1	P3041905.D	CLP-1 0.53(mm)
CCV 240-82685/5 CCVRT		04/19/2013 11:45	1	P3041905.D	CLP-2 0.53(mm)
MRL 240-82685/6		04/19/2013 12:05	1	P3041906.D	CLP-1 0.53(mm)
MRL 240-82685/6		04/19/2013 12:05	1	P3041906.D	CLP-2 0.53(mm)
CCV 240-82685/7		04/19/2013 12:26	1	P3041907.D	CLP-1 0.53(mm)
CCV 240-82685/7		04/19/2013 12:26	1	P3041907.D	CLP-2 0.53(mm)
MB 240-81726/21-A		04/19/2013 15:17	1	P3041914.D	CLP-1 0.53(mm)
MB 240-81726/21-A		04/19/2013 15:17	1	P3041914.D	CLP-2 0.53(mm)
LCS 240-81726/22-A		04/19/2013 15:37	1	P3041915.D	CLP-1 0.53(mm)
LCS 240-81726/22-A		04/19/2013 15:37	1	P3041915.D	CLP-2 0.53(mm)
CCV 240-82685/16		04/19/2013 15:57	1	P3041916.D	CLP-1 0.53(mm)
CCV 240-82685/16		04/19/2013 15:57	1	P3041916.D	CLP-2 0.53(mm)
CCV 240-82685/19		04/19/2013 16:58	1	P3041919.D	CLP-1 0.53(mm)
CCV 240-82685/19		04/19/2013 16:58	1	P3041919.D	CLP-2 0.53(mm)
MRL 240-82685/41		04/19/2013 17:18	1	P3041920.D	CLP-1 0.53(mm)
MRL 240-82685/41		04/19/2013 17:18	1	P3041920.D	CLP-2 0.53(mm)
PEM 240-82685/20		04/19/2013 17:38	1		CLP-1 0.53(mm)
PEM 240-82685/20		04/19/2013 17:38	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 17:58	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 17:58	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 18:18	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 18:18	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 18:39	10		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 18:39	10		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 18:59	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 18:59	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 19:19	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 19:19	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 19:39	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 19:39	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 19:59	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 19:59	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 20:19	2		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 20:19	2		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 20:40	2		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 20:40	2		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 21:00	2		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 21:00	2		CLP-2 0.53(mm)
CCV 240-82685/31		04/19/2013 21:20	1		CLP-1 0.53(mm)
CCV 240-82685/31		04/19/2013 21:20	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 21:40	20		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 21:40	20		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/19/2013 11:25

Analysis Batch Number: 82685 End Date: 04/20/2013 00:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/19/2013 22:00	10		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 22:00	10		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 22:20	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 22:20	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 22:40	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 22:40	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 23:01	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 23:01	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 23:21	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 23:21	1		CLP-2 0.53(mm)
CCV 240-82685/38		04/19/2013 23:41	1		CLP-1 0.53(mm)
CCV 240-82685/38		04/19/2013 23:41	1		CLP-2 0.53(mm)
CCV 240-82685/39		04/20/2013 00:01	1		CLP-1 0.53(mm)
CCV 240-82685/39		04/20/2013 00:01	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 00:21	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 00:21	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/20/2013 14:02

Analysis Batch Number: 82857 End Date: 04/21/2013 01:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-82857/4		04/20/2013 14:02	1	P3042004.D	CLP-1 0.53(mm)
PEM 240-82857/4		04/20/2013 14:02	1	P3042004.D	CLP-2 0.53(mm)
CCV 240-82857/5 CCVRT		04/20/2013 14:22	1	P3042005.D	CLP-1 0.53(mm)
CCV 240-82857/5 CCVRT		04/20/2013 14:22	1	P3042005.D	CLP-2 0.53(mm)
MRL 240-82857/6		04/20/2013 14:42	1	P3042006.D	CLP-1 0.53(mm)
MRL 240-82857/6		04/20/2013 14:42	1	P3042006.D	CLP-2 0.53(mm)
CCV 240-82857/7		04/20/2013 15:02	1	P3042007.D	CLP-1 0.53(mm)
CCV 240-82857/7		04/20/2013 15:02	1	P3042007.D	CLP-2 0.53(mm)
CCV 240-82857/8		04/20/2013 15:23	1		CLP-1 0.53(mm)
CCV 240-82857/8		04/20/2013 15:23	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 15:43	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 15:43	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 16:03	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 16:03	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 16:23	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 16:23	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 16:43	5		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 16:43	5		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 17:03	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 17:03	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 17:23	5		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 17:23	5		CLP-2 0.53(mm)
CCV 240-82857/15		04/20/2013 17:43	1	P3042015.D	CLP-1 0.53(mm)
CCV 240-82857/15		04/20/2013 17:43	1	P3042015.D	CLP-2 0.53(mm)
240-22663-4	079SB-0014M-0001-SO	04/20/2013 18:04	1	P3042016.D	CLP-1 0.53(mm)
240-22663-4	079SB-0014M-0001-SO	04/20/2013 18:04	1	P3042016.D	CLP-2 0.53(mm)
240-22663-7	079SB-0017M-0001-SO	04/20/2013 18:24	1	P3042017.D	CLP-1 0.53(mm)
240-22663-7	079SB-0017M-0001-SO	04/20/2013 18:24	1	P3042017.D	CLP-2 0.53(mm)
240-22663-10	070SB-0046M-0001-SB	04/20/2013 18:44	10	P3042018.D	CLP-1 0.53(mm)
240-22663-10	070SB-0046M-0001-SB	04/20/2013 18:44	10	P3042018.D	CLP-2 0.53(mm)
240-22663-17	073SB-0041M-0001-SO	04/20/2013 19:04	1	P3042019.D	CLP-1 0.53(mm)
240-22663-17	073SB-0041M-0001-SO	04/20/2013 19:04	1	P3042019.D	CLP-2 0.53(mm)
240-22663-26	079SB-0026M-0001-SO	04/20/2013 19:24	1	P3042020.D	CLP-1 0.53(mm)
240-22663-26	079SB-0026M-0001-SO	04/20/2013 19:24	1	P3042020.D	CLP-2 0.53(mm)
240-22663-28	079SB-0028M-0001-SO	04/20/2013 19:44	1	P3042021.D	CLP-1 0.53(mm)
240-22663-28	079SB-0028M-0001-SO	04/20/2013 19:44	1	P3042021.D	CLP-2 0.53(mm)
ZZZZZ		04/20/2013 20:04	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 20:04	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 20:24	2		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 20:24	2		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 20:45	2		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 20:45	2		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 21:05	2		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 21:05	2		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/20/2013 14:02

Analysis Batch Number: 82857 End Date: 04/21/2013 01:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-82857/26		04/20/2013 21:25	1		CLP-1 0.53(mm)
PEM 240-82857/26		04/20/2013 21:25	1		CLP-2 0.53(mm)
CCV 240-82857/27		04/20/2013 21:45	1	P3042027.D	CLP-1 0.53(mm)
CCV 240-82857/27		04/20/2013 21:45	1	P3042027.D	CLP-2 0.53(mm)
ZZZZZ		04/20/2013 22:05	20		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 22:05	20		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 22:25	10		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 22:25	10		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 22:45	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 22:45	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 23:05	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 23:05	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 23:25	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 23:25	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 23:45	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 23:45	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2013 00:05	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2013 00:05	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2013 00:25	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2013 00:25	1		CLP-2 0.53(mm)
CCV 240-82857/36		04/21/2013 00:46	1	P3042036.D	CLP-1 0.53(mm)
CCV 240-82857/36		04/21/2013 00:46	1	P3042036.D	CLP-2 0.53(mm)
CCV 240-82857/37		04/21/2013 01:06	1		CLP-1 0.53(mm)
CCV 240-82857/37		04/21/2013 01:06	1		CLP-2 0.53(mm)
CCV 240-82857/38		04/21/2013 01:26	1		CLP-1 0.53(mm)
CCV 240-82857/38		04/21/2013 01:26	1		CLP-2 0.53(mm)
MRL 240-82857/39		04/21/2013 01:46	1	P3042039.D	CLP-1 0.53(mm)
MRL 240-82857/39		04/21/2013 01:46	1	P3042039.D	CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/22/2013 18:32

Analysis Batch Number: 83061 End Date: 04/23/2013 09:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-83061/4		04/22/2013 18:32	1	P3042204.D	CLP-1 0.53(mm)
PEM 240-83061/4		04/22/2013 18:32	1	P3042204.D	CLP-2 0.53(mm)
STD 240-83061/5 IC		04/22/2013 18:52	1	P3042205.D	CLP-1 0.53(mm)
STD 240-83061/5 IC		04/22/2013 18:52	1	P3042205.D	CLP-2 0.53(mm)
STD 240-83061/6 IC		04/22/2013 19:12	1	P3042206.D	CLP-1 0.53(mm)
STD 240-83061/6 IC		04/22/2013 19:12	1	P3042206.D	CLP-2 0.53(mm)
STD 240-83061/7 IC		04/22/2013 19:32	1	P3042207.D	CLP-1 0.53(mm)
STD 240-83061/7 IC		04/22/2013 19:32	1	P3042207.D	CLP-2 0.53(mm)
STD 240-83061/8 IC		04/22/2013 19:52	1	P3042208.D	CLP-1 0.53(mm)
STD 240-83061/8 IC		04/22/2013 19:52	1	P3042208.D	CLP-2 0.53(mm)
STD 240-83061/9 IC		04/22/2013 20:13	1	P3042209.D	CLP-1 0.53(mm)
STD 240-83061/9 IC		04/22/2013 20:13	1	P3042209.D	CLP-2 0.53(mm)
ICV 240-83061/10		04/22/2013 20:33	1	P3042210.D	CLP-1 0.53(mm)
ICV 240-83061/10		04/22/2013 20:33	1	P3042210.D	CLP-2 0.53(mm)
STD 240-83061/11 IC		04/22/2013 20:53	1		CLP-1 0.53(mm)
STD 240-83061/11 IC		04/22/2013 20:53	1		CLP-2 0.53(mm)
STD 240-83061/12 IC		04/22/2013 21:13	1		CLP-1 0.53(mm)
STD 240-83061/12 IC		04/22/2013 21:13	1		CLP-2 0.53(mm)
STD 240-83061/13 IC		04/22/2013 21:33	1		CLP-1 0.53(mm)
STD 240-83061/13 IC		04/22/2013 21:33	1		CLP-2 0.53(mm)
STD 240-83061/14 IC		04/22/2013 21:53	1		CLP-1 0.53(mm)
STD 240-83061/14 IC		04/22/2013 21:53	1		CLP-2 0.53(mm)
STD 240-83061/15 IC		04/22/2013 22:14	1		CLP-1 0.53(mm)
STD 240-83061/15 IC		04/22/2013 22:14	1		CLP-2 0.53(mm)
ICV 240-83061/16		04/22/2013 22:34	1		CLP-1 0.53(mm)
ICV 240-83061/16		04/22/2013 22:34	1		CLP-2 0.53(mm)
STD 240-83061/17 IC		04/22/2013 22:54	1	P3042217.D	CLP-1 0.53(mm)
STD 240-83061/17 IC		04/22/2013 22:54	1	P3042217.D	CLP-2 0.53(mm)
STD 240-83061/18 IC		04/22/2013 23:14	1	P3042218.D	CLP-1 0.53(mm)
STD 240-83061/18 IC		04/22/2013 23:14	1	P3042218.D	CLP-2 0.53(mm)
STD 240-83061/19 ICRT		04/22/2013 23:34	1	P3042219.D	CLP-1 0.53(mm)
STD 240-83061/19 ICRT		04/22/2013 23:34	1	P3042219.D	CLP-2 0.53(mm)
STD 240-83061/20 IC		04/22/2013 23:54	1	P3042220.D	CLP-1 0.53(mm)
STD 240-83061/20 IC		04/22/2013 23:54	1	P3042220.D	CLP-2 0.53(mm)
STD 240-83061/21 IC		04/23/2013 00:15	1	P3042221.D	CLP-1 0.53(mm)
STD 240-83061/21 IC		04/23/2013 00:15	1	P3042221.D	CLP-2 0.53(mm)
STD 240-83061/22 IC		04/23/2013 00:35	1	P3042222.D	CLP-1 0.53(mm)
STD 240-83061/22 IC		04/23/2013 00:35	1	P3042222.D	CLP-2 0.53(mm)
ICV 240-83061/23		04/23/2013 00:55	1	P3042223.D	CLP-1 0.53(mm)
ICV 240-83061/23		04/23/2013 00:55	1	P3042223.D	CLP-2 0.53(mm)
PEM 240-83061/24		04/23/2013 01:15	1		CLP-1 0.53(mm)
PEM 240-83061/24		04/23/2013 01:15	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 01:35	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 01:35	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/22/2013 18:32

Analysis Batch Number: 83061 End Date: 04/23/2013 09:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/23/2013 01:55	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 01:55	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 02:16	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 02:16	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 02:36	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 02:36	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 02:56	5		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 02:56	5		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 03:16	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 03:16	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 03:36	5		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 03:36	5		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 03:56	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 03:56	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 04:16	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 04:16	1		CLP-2 0.53(mm)
CCV 240-83061/34		04/23/2013 04:36	1		CLP-1 0.53(mm)
CCV 240-83061/34		04/23/2013 04:36	1		CLP-2 0.53(mm)
CCV 240-83061/35		04/23/2013 04:56	1		CLP-1 0.53(mm)
CCV 240-83061/35		04/23/2013 04:56	1		CLP-2 0.53(mm)
CCB 240-83061/36 CCV		04/23/2013 05:17	1		CLP-1 0.53(mm)
CCB 240-83061/36 CCV		04/23/2013 05:17	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 05:37	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 05:37	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 05:57	2		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 05:57	2		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 06:17	2		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 06:17	2		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 06:37	5		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 06:37	5		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 06:57	5		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 06:57	5		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 07:17	20		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 07:17	20		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 07:37	10		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 07:37	10		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 07:58	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 07:58	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 08:18	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 08:18	1		CLP-2 0.53(mm)
CCV 240-83061/46		04/23/2013 08:38	1		CLP-1 0.53(mm)
CCV 240-83061/46		04/23/2013 08:38	1		CLP-2 0.53(mm)
CCV 240-83061/47		04/23/2013 08:58	1		CLP-1 0.53(mm)
CCV 240-83061/47		04/23/2013 08:58	1		CLP-2 0.53(mm)
CCB 240-83061/48 CCV		04/23/2013 09:18	1		CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/22/2013 18:32

Analysis Batch Number: 83061 End Date: 04/23/2013 09:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 240-83061/48 CCV		04/23/2013 09:18	1		CLP-2 0.53(mm)
ZZZZZ		04/23/2013 09:38	1		CLP-1 0.53(mm)
ZZZZZ		04/23/2013 09:38	1		CLP-2 0.53(mm)
PEM 240-83061/50		04/23/2013 09:58	1		CLP-1 0.53(mm)
PEM 240-83061/50		04/23/2013 09:58	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/24/2013 11:29

Analysis Batch Number: 83400 End Date: 04/25/2013 03:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-83400/5 CCVRT		04/24/2013 11:29	1	P3042405.D	CLP-1 0.53(mm)
CCV 240-83400/5 CCVRT		04/24/2013 11:29	1	P3042405.D	CLP-2 0.53(mm)
CCV 240-83400/24		04/24/2013 17:52	1	P3042424.D	CLP-1 0.53(mm)
CCV 240-83400/24		04/24/2013 17:52	1	P3042424.D	CLP-2 0.53(mm)
CCV 240-83400/25		04/24/2013 18:12	1	P3042425.D	CLP-1 0.53(mm)
CCV 240-83400/25		04/24/2013 18:12	1	P3042425.D	CLP-2 0.53(mm)
MRL 240-83400/26		04/24/2013 18:33	1	P3042426.D	CLP-1 0.53(mm)
MRL 240-83400/26		04/24/2013 18:33	1	P3042426.D	CLP-2 0.53(mm)
PEM 240-83400/27		04/24/2013 18:53	1	P3042427.D	CLP-1 0.53(mm)
PEM 240-83400/27		04/24/2013 18:53	1	P3042427.D	CLP-2 0.53(mm)
240-22663-4 RE	079SB-0014M-0001-SO RE	04/24/2013 19:13	1	P3042428.D	CLP-1 0.53(mm)
240-22663-4 RE	079SB-0014M-0001-SO RE	04/24/2013 19:13	1	P3042428.D	CLP-2 0.53(mm)
240-22663-7 RE	079SB-0017M-0001-SO RE	04/24/2013 19:33	1	P3042429.D	CLP-1 0.53(mm)
240-22663-7 RE	079SB-0017M-0001-SO RE	04/24/2013 19:33	1	P3042429.D	CLP-2 0.53(mm)
240-22663-10 RE	070SB-0046M-0001-SB RE	04/24/2013 19:53	10	P3042430.D	CLP-1 0.53(mm)
240-22663-10 RE	070SB-0046M-0001-SB RE	04/24/2013 19:53	10	P3042430.D	CLP-2 0.53(mm)
240-22663-17 RE	073SB-0041M-0001-SO RE	04/24/2013 20:13	1	P3042431.D	CLP-1 0.53(mm)
240-22663-17 RE	073SB-0041M-0001-SO RE	04/24/2013 20:13	1	P3042431.D	CLP-2 0.53(mm)
240-22663-26 RE	079SB-0026M-0001-SO RE	04/24/2013 20:34	1	P3042432.D	CLP-1 0.53(mm)
240-22663-26 RE	079SB-0026M-0001-SO RE	04/24/2013 20:34	1	P3042432.D	CLP-2 0.53(mm)
240-22663-28 RE	079SB-0028M-0001-SO RE	04/24/2013 20:54	1	P3042433.D	CLP-1 0.53(mm)
240-22663-28 RE	079SB-0028M-0001-SO RE	04/24/2013 20:54	1	P3042433.D	CLP-2 0.53(mm)
240-22663-28 MS RE	079SB-0028M-0001-SO MS RE	04/24/2013 21:14	1	P3042434.D	CLP-1 0.53(mm)
240-22663-28 MS RE	079SB-0028M-0001-SO MS RE	04/24/2013 21:14	1	P3042434.D	CLP-2 0.53(mm)
240-22663-28 MSD RE	079SB-0028M-0001-SO MSD RE	04/24/2013 21:34	1	P3042435.D	CLP-1 0.53(mm)
240-22663-28 MSD RE	079SB-0028M-0001-SO MSD RE	04/24/2013 21:34	1	P3042435.D	CLP-2 0.53(mm)
MB 240-83135/18-A		04/24/2013 21:54	1	P3042436.D	CLP-1 0.53(mm)
MB 240-83135/18-A		04/24/2013 21:54	1	P3042436.D	CLP-2 0.53(mm)
LCS 240-83135/19-A		04/24/2013 22:14	1	P3042437.D	CLP-1 0.53(mm)
LCS 240-83135/19-A		04/24/2013 22:14	1	P3042437.D	CLP-2 0.53(mm)
CCV 240-83400/38		04/24/2013 22:35	1	P3042438.D	CLP-1 0.53(mm)
CCV 240-83400/38		04/24/2013 22:35	1	P3042438.D	CLP-2 0.53(mm)
MRL 240-83400/52		04/24/2013 22:55	1	P3042439.D	CLP-1 0.53(mm)
MRL 240-83400/52		04/24/2013 22:55	1	P3042439.D	CLP-2 0.53(mm)
ZZZZZ		04/24/2013 23:15	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2013 23:15	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2013 23:35	1		CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP3 Start Date: 04/24/2013 11:29

Analysis Batch Number: 83400 End Date: 04/25/2013 03:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/24/2013 23:35	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2013 23:55	5		CLP-1 0.53(mm)
ZZZZZ		04/24/2013 23:55	5		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 00:15	2		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 00:15	2		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 00:35	5		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 00:35	5		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 00:55	5		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 00:55	5		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 01:16	20		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 01:16	20		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 01:36	20		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 01:36	20		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 01:56	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 01:56	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 02:16	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 02:16	1		CLP-2 0.53(mm)
CCV 240-83400/49		04/25/2013 02:36	1		CLP-1 0.53(mm)
CCV 240-83400/49		04/25/2013 02:36	1		CLP-2 0.53(mm)
CCV 240-83400/50		04/25/2013 02:56	1		CLP-1 0.53(mm)
CCV 240-83400/50		04/25/2013 02:56	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2013 03:16	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2013 03:16	1		CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 81726 Batch Start Date: 04/12/13 14:25 Batch Analyst: Cerne, Amanda

Batch Method: 3540C Batch End Date: 04/13/13 06:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX2/.2SURRW 00023	EXPSTNPDESSPW 00012	AnalysisComment	
240-22663-G-4-A	079SB-0014M-0001 -SO	3540C, 8081/DOD	T	30.09 g	10 mL	1 mL		Assoc w/ 81730	
240-22663-G-7-A	079SB-0017M-0001 -SO	3540C, 8081/DOD	T	29.71 g	10 mL	1 mL		Assoc w/ 81730	
240-22663-B-10-A	070SB-0046M-0001 -SB	3540C, 8081/DOD	T	30.14 g	10 mL	1 mL			
240-22663-G-17-A	073SB-0041M-0001 -SO	3540C, 8081/DOD	T	30.46 g	10 mL	1 mL		Assoc w/ 81730	
240-22663-G-26-A	079SB-0026M-0001 -SO	3540C, 8081/DOD	T	30.04 g	10 mL	1 mL		Assoc w/ 81730	
240-22663-G-28-A	079SB-0028M-0001 -SO	3540C, 8081/DOD	T	30.15 g	10 mL	1 mL		Assoc w/ 81730	
MB 240-81726/21		3540C, 8081/DOD		30.00 g	10 mL	1 mL		Assoc w/ 81730	
LCS 240-81726/22		3540C, 8081/DOD		30.00 g	10 mL	1 mL	1 mL		

Batch Notes	
Balance ID	b037
Exchange Solvent Lot #	926691
Na2SO4 Lot Number	857446
Prep Solvent Lot #	928639

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 83135 Batch Start Date: 04/23/13 12:15 Batch Analyst: Shabani, Jawad

Batch Method: 3540C Batch End Date: 04/24/13 04:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX2/.2SURRW 00023	EXPSTNPDESSPW 00012		
240-22663-G-4-A	079SB-0014M-0001 -SO	3540C, 8081/DOD	T	30.43 g	10 mL	1 mL			
240-22663-G-7-A	079SB-0017M-0001 -SO	3540C, 8081/DOD	T	29.95 g	10 mL	1 mL			
240-22663-B-10-A	070SB-0046M-0001 -SB	3540C, 8081/DOD	T	30.32 g	10 mL	1 mL			
240-22663-G-26-A	079SB-0026M-0001 -SO	3540C, 8081/DOD	T	30.38 g	10 mL	1 mL			
240-22663-G-28-A	079SB-0028M-0001 -SO	3540C, 8081/DOD	T	30.33 g	10 mL	1 mL			
240-22663-G-28-A MS	079SB-0028M-0001 -SO	3540C, 8081/DOD	T	29.62 g	10 mL	1 mL	1 mL		
240-22663-G-28-A MSD	079SB-0028M-0001 -SO	3540C, 8081/DOD	T	29.90 g	10 mL	1 mL	1 mL		
MB 240-83135/18		3540C, 8081/DOD		30.00 g	10 mL	1 mL			
LCS 240-83135/19		3540C, 8081/DOD		30.00 g	10 mL	1 mL	1 mL		
240-22663-G-17-A	073SB-0041M-0001 -SO	3540C, 8081/DOD	T	30.02 g	10 mL	1 mL			

Batch Notes	
Balance ID	B036
Exchange Solvent Lot #	926691
Na2SO4 Lot Number	857446
Prep Solvent Lot #	950633

Basis	Basis Description
T	Total/NA

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

Method 8082 DOD

Polychlorinated Biphenyls (PCBs) by Gas Chromatography by Method 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079SB-0014M-0001-SO	240-22663-4	52	53	69	68
079SB-0017M-0001-SO	240-22663-7	58	61	66	68
073SB-0041M-0001-SO	240-22663-17	55	56	65	67
079SB-0026M-0001-SO	240-22663-26	50	50	55 Q	56 Q
079SB-0026M-0001-SO	240-22663-26	68	64	64	71
079SB-0028M-0001-SO	240-22663-28	48	49	53 Q	57 Q
079SB-0028M-0001-SO	240-22663-28	138	70	73	85
068SB-0017M-0001-SO	240-22663-31	59	58	64	71
068SB-0018M-0001-SO	240-22663-32	65	61	67	73
068SB-0019M-0001-SO	240-22663-33	84	82	87	93
068SB-0022M-0001-SO	240-22663-34	79	76	76	84
068SB-0020M-0001-SO	240-22663-35	79	76	83	91
068SB-0023M-0001-SO	240-22663-36	76	72	75	82
068SB-0024M-0001-SO	240-22663-37	64	61	68	75
068SB-0025M-0001-SO	240-22663-38	75	66	72	80
068SB-0032-0001-SO	240-22663-39	59	60	64	70
068SB-0027M-0001-SO	240-22663-40	67	67	70	82
068SB-0028M-0001-SO	240-22663-41	51	52	67	70
068SB-0030M-0001-SO	240-22663-43	70	70	74	79
068SB-0031M-0001-SO	240-22663-44	55	55	61	67
	MB 240-81730/20-A	59	60	62	262 Q
	MB 240-81736/24-A	79	75	77	83
	MB 240-83675/20-A	83	60	64	71
	LCS 240-81730/21-A	80	77	81	88
	LCS 240-81736/23-A	115	84	103	98

	QC LIMITS
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	60-125

Column to be used to flag recovery values

FORM II 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	LCS 240-83675/21-A	93	77	64	71

	QC LIMITS
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	60-125

Column to be used to flag recovery values

FORM II 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-82267/4	107	115	111	133 Q
	MRL 240-82267/21	113	117	121	133 Q

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-82363/4	101	108	119	125
	MRL 240-82363/26	117	130	136 Q	138 Q
	MRL 240-82656/4	112	118	134 Q	139 Q
	MRL 240-82656/7	114	121	138 Q	143 Q
	MRL 240-83996/4	94	105	103	107
	MRL 240-83996/10	91	104	109	122

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8082/DOD

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4000024.D

Lab ID: LCS 240-81730/21-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	333	261	78	40-140	
Aroclor-1260	333	284	85	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4000005.D

Lab ID: LCS 240-81736/23-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	333	275	83	40-140	
Aroclor-1260	333	327	98	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4000008.D

Lab ID: LCS 240-83675/21-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	333	192	58	40-140	
Aroclor-1260	333	221	66	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4000004.D

Lab ID: MRL 240-82267/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0557	111	70-130	
Aroclor-1016	0.0500	0.0514	103	70-130	
Aroclor-1260	0.0500	0.0552	110	70-130	
Aroclor-1260	0.0500	0.0547	109	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: P4000021.D

Lab ID: MRL 240-82267/21 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0562	112	70-130	
Aroclor-1016	0.0500	0.0559	112	70-130	
Aroclor-1260	0.0500	0.0579	116	70-130	
Aroclor-1260	0.0500	0.0568	114	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000004.D

Lab ID: MRL 240-82363/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0497 J	99	70-130	
Aroclor-1016	0.0500	0.0483 J	97	70-130	
Aroclor-1260	0.0500	0.0506	101	70-130	
Aroclor-1260	0.0500	0.0495 J	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000026.D

Lab ID: MRL 240-82363/26 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0605	121	70-130	
Aroclor-1016	0.0500	0.0566	113	70-130	
Aroclor-1260	0.0500	0.0587	117	70-130	
Aroclor-1260	0.0500	0.0582	116	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000004.D

Lab ID: MRL 240-82656/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0567	113	70-130	
Aroclor-1016	0.0500	0.0526	105	70-130	
Aroclor-1260	0.0500	0.0559	112	70-130	
Aroclor-1260	0.0500	0.0553	111	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000007.D

Lab ID: MRL 240-82656/7 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0525	105	70-130	
Aroclor-1016	0.0500	0.0548	110	70-130	
Aroclor-1260	0.0500	0.0536	107	70-130	
Aroclor-1260	0.0500	0.0558	112	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000004.D

Lab ID: MRL 240-83996/4 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0432 J	86	70-130	
Aroclor-1016	0.0500	0.0443 J	89	70-130	
Aroclor-1260	0.0500	0.0332 J	66	70-130	^
Aroclor-1260	0.0500	0.0443 J	89	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P4000010.D

Lab ID: MRL 240-83996/10 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0466 J	93	70-130	
Aroclor-1016	0.0500	0.0419 J	84	70-130	
Aroclor-1260	0.0500	0.0458 J	92	70-130	
Aroclor-1260	0.0500	0.0396 J	79	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: MB 240-81730/20-A

Matrix: Solid Date Extracted: 04/12/2013 11:18

Lab File ID:(1) P4000013.D Lab File ID:(2) P4000013.D

Date Analyzed:(1) 04/18/2013 12:13 Date Analyzed:(2) 04/18/2013 12:13

Instrument ID:(1) A2HP4 Instrument ID:(2) A2HP4

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SB-0014M-0001-SO	240-22663-4	04/18/2013 10:08	04/18/2013 10:08
079SB-0017M-0001-SO	240-22663-7	04/18/2013 10:24	04/18/2013 10:24
073SB-0041M-0001-SO	240-22663-17	04/18/2013 10:39	04/18/2013 10:39
079SB-0026M-0001-SO	240-22663-26	04/18/2013 10:55	04/18/2013 10:55
079SB-0028M-0001-SO	240-22663-28	04/18/2013 11:11	04/18/2013 11:11
	LCS 240-81730/21-A	04/18/2013 15:05	04/18/2013 15:05

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: MB 240-81736/24-A

Matrix: Solid Date Extracted: 04/12/2013 11:46

Lab File ID:(1) P4000019.D Lab File ID:(2) P4000019.D

Date Analyzed:(1) 04/17/2013 14:51 Date Analyzed:(2) 04/17/2013 14:51

Instrument ID:(1) A2HP4 Instrument ID:(2) A2HP4

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
068SB-0017M-0001-SO	240-22663-31	04/17/2013 11:12	04/17/2013 11:12
068SB-0018M-0001-SO	240-22663-32	04/17/2013 11:28	04/17/2013 11:28
068SB-0024M-0001-SO	240-22663-37	04/17/2013 11:44	04/17/2013 11:44
068SB-0025M-0001-SO	240-22663-38	04/17/2013 11:59	04/17/2013 11:59
068SB-0032-0001-SO	240-22663-39	04/17/2013 12:15	04/17/2013 12:15
068SB-0027M-0001-SO	240-22663-40	04/17/2013 12:31	04/17/2013 12:31
068SB-0028M-0001-SO	240-22663-41	04/17/2013 12:46	04/17/2013 12:46
068SB-0030M-0001-SO	240-22663-43	04/17/2013 13:02	04/17/2013 13:02
068SB-0031M-0001-SO	240-22663-44	04/17/2013 13:17	04/17/2013 13:17
068SB-0019M-0001-SO	240-22663-33	04/17/2013 13:49	04/17/2013 13:49
068SB-0022M-0001-SO	240-22663-34	04/17/2013 14:04	04/17/2013 14:04
068SB-0020M-0001-SO	240-22663-35	04/17/2013 14:20	04/17/2013 14:20
068SB-0023M-0001-SO	240-22663-36	04/17/2013 14:35	04/17/2013 14:35
	LCS 240-81736/23-A	04/19/2013 09:06	04/19/2013 09:06

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: MB 240-83675/20-A

Matrix: Solid Date Extracted: 04/26/2013 08:24

Lab File ID:(1) P4000007.D Lab File ID:(2) P4000007.D

Date Analyzed:(1) 04/29/2013 09:20 Date Analyzed:(2) 04/29/2013 09:20

Instrument ID:(1) A2HP4 Instrument ID:(2) A2HP4

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SB-0026M-0001-SO	240-22663-26	04/29/2013 08:49	04/29/2013 08:49
079SB-0028M-0001-SO	240-22663-28	04/29/2013 09:04	04/29/2013 09:04
	LCS 240-83675/21-A	04/29/2013 09:35	04/29/2013 09:35

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82267/3 Date Analyzed: 04/17/2013 09:56

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14533

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.28	6.62	
UPPER LIMIT				1.38	6.72	
LOWER LIMIT				1.18	6.52	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82267/3 CCVRT		04/17/2013 09:56	P4000003.D	1.28	6.62	
240-22663-31	068SB-0017M-0001-SO	04/17/2013 11:12	P4000005.D	1.28	6.63	
240-22663-32	068SB-0018M-0001-SO	04/17/2013 11:28	P4000006.D	1.28	6.62	
240-22663-37	068SB-0024M-0001-SO	04/17/2013 11:44	P4000007.D	1.28	6.62	
240-22663-38	068SB-0025M-0001-SO	04/17/2013 11:59	P4000008.D	1.28	6.62	
240-22663-39	068SB-0032-0001-SO	04/17/2013 12:15	P4000009.D	1.28	6.62	
240-22663-40	068SB-0027M-0001-SO	04/17/2013 12:31	P4000010.D	1.28	6.62	
240-22663-41	068SB-0028M-0001-SO	04/17/2013 12:46	P4000011.D	1.28	6.62	
240-22663-43	068SB-0030M-0001-SO	04/17/2013 13:02	P4000012.D	1.28	6.62	
240-22663-44	068SB-0031M-0001-SO	04/17/2013 13:17	P4000013.D	1.28	6.62	
CCV 240-82267/14		04/17/2013 13:33	P4000014.D	1.28	6.62	
240-22663-33	068SB-0019M-0001-SO	04/17/2013 13:49	P4000015.D	1.28	6.62	
240-22663-34	068SB-0022M-0001-SO	04/17/2013 14:04	P4000016.D	1.28	6.62	
240-22663-35	068SB-0020M-0001-SO	04/17/2013 14:20	P4000017.D	1.28	6.62	
240-22663-36	068SB-0023M-0001-SO	04/17/2013 14:35	P4000018.D	1.28	6.62	
MB 240-81736/24-A		04/17/2013 14:51	P4000019.D	1.28	6.62	
CCV 240-82267/23		04/17/2013 15:38	P4000022.D	1.28	6.62	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82267/3 Date Analyzed: 04/17/2013 09:56

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.68	7.84	
UPPER LIMIT				1.78	7.94	
LOWER LIMIT				1.58	7.74	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82267/3 CCVRT		04/17/2013 09:56	P4000003.D	1.68	7.84	
240-22663-31	068SB-0017M-0001-SO	04/17/2013 11:12	P4000005.D	1.68	7.84	
240-22663-32	068SB-0018M-0001-SO	04/17/2013 11:28	P4000006.D	1.68	7.84	
240-22663-37	068SB-0024M-0001-SO	04/17/2013 11:44	P4000007.D	1.68	7.84	
240-22663-38	068SB-0025M-0001-SO	04/17/2013 11:59	P4000008.D	1.68	7.84	
240-22663-39	068SB-0032-0001-SO	04/17/2013 12:15	P4000009.D	1.68	7.84	
240-22663-40	068SB-0027M-0001-SO	04/17/2013 12:31	P4000010.D	1.68	7.84	
240-22663-41	068SB-0028M-0001-SO	04/17/2013 12:46	P4000011.D	1.68	7.84	
240-22663-43	068SB-0030M-0001-SO	04/17/2013 13:02	P4000012.D	1.68	7.84	
240-22663-44	068SB-0031M-0001-SO	04/17/2013 13:17	P4000013.D	1.68	7.84	
CCV 240-82267/14		04/17/2013 13:33	P4000014.D	1.68	7.84	
240-22663-33	068SB-0019M-0001-SO	04/17/2013 13:49	P4000015.D	1.68	7.84	
240-22663-34	068SB-0022M-0001-SO	04/17/2013 14:04	P4000016.D	1.68	7.84	
240-22663-35	068SB-0020M-0001-SO	04/17/2013 14:20	P4000017.D	1.68	7.84	
240-22663-36	068SB-0023M-0001-SO	04/17/2013 14:35	P4000018.D	1.68	7.84	
MB 240-81736/24-A		04/17/2013 14:51	P4000019.D	1.68	7.84	
CCV 240-82267/23		04/17/2013 15:38	P4000022.D	1.68	7.84	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82363/3 Date Analyzed: 04/18/2013 09:37

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14533

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.28	6.62	
UPPER LIMIT				1.38	6.72	
LOWER LIMIT				1.18	6.52	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82363/3 CCVRT		04/18/2013 09:37	P4000003.D	1.28	6.62	
240-22663-4	079SB-0014M-0001-SO	04/18/2013 10:08	P4000005.D	1.28	6.62	
240-22663-7	079SB-0017M-0001-SO	04/18/2013 10:24	P4000006.D	1.28	6.62	
240-22663-17	073SB-0041M-0001-SO	04/18/2013 10:39	P4000007.D	1.28	6.62	
240-22663-26	079SB-0026M-0001-SO	04/18/2013 10:55	P4000008.D	1.28	6.62	
240-22663-28	079SB-0028M-0001-SO	04/18/2013 11:11	P4000009.D	1.28	6.62	
MB 240-81730/20-A		04/18/2013 12:13	P4000013.D	1.28	6.63	
CCV 240-82363/14		04/18/2013 12:29	P4000014.D	1.28	6.62	
LCS 240-81730/21-A		04/18/2013 15:05	P4000024.D	1.28	6.62	
CCV 240-82363/25		04/18/2013 15:21	P4000025.D	1.28	6.62	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82363/3 Date Analyzed: 04/18/2013 09:37

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.68	7.84	
UPPER LIMIT				1.78	7.94	
LOWER LIMIT				1.58	7.74	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82363/3 CCVRT		04/18/2013 09:37	P4000003.D	1.68	7.84	
240-22663-4	079SB-0014M-0001-SO	04/18/2013 10:08	P4000005.D	1.68	7.84	
240-22663-7	079SB-0017M-0001-SO	04/18/2013 10:24	P4000006.D	1.68	7.84	
240-22663-17	073SB-0041M-0001-SO	04/18/2013 10:39	P4000007.D	1.68	7.84	
240-22663-26	079SB-0026M-0001-SO	04/18/2013 10:55	P4000008.D	1.69	7.84	
240-22663-28	079SB-0028M-0001-SO	04/18/2013 11:11	P4000009.D	1.68	7.84	
MB 240-81730/20-A		04/18/2013 12:13	P4000013.D	1.68	7.84	
CCV 240-82363/14		04/18/2013 12:29	P4000014.D	1.68	7.84	
LCS 240-81730/21-A		04/18/2013 15:05	P4000024.D	1.68	7.84	
CCV 240-82363/25		04/18/2013 15:21	P4000025.D	1.68	7.84	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82656/3 Date Analyzed: 04/19/2013 08:35

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14533

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.28	6.63	
UPPER LIMIT				1.38	6.73	
LOWER LIMIT				1.18	6.53	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82656/3 CCVRT		04/19/2013 08:35	P4000003.D	1.28	6.63	
LCS 240-81736/23-A		04/19/2013 09:06	P4000005.D	1.28	6.63	
CCV 240-82656/6		04/19/2013 09:22	P4000006.D	1.28	6.63	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82656/3 Date Analyzed: 04/19/2013 08:35

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.69	7.85	
UPPER LIMIT				1.79	7.95	
LOWER LIMIT				1.59	7.75	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82656/3 CCVRT		04/19/2013 08:35	P4000003.D	1.69	7.85	
LCS 240-81736/23-A		04/19/2013 09:06	P4000005.D	1.69	7.85	
CCV 240-82656/6		04/19/2013 09:22	P4000006.D	1.69	7.85	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82762/3 Date Analyzed: 04/19/2013 21:58

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14533

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.28	6.63	
UPPER LIMIT				1.38	6.73	
LOWER LIMIT				1.18	6.53	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82762/3 CCVRT		04/19/2013 21:58	P4000003.D	1.28	6.63	
CCV 240-82762/13		04/20/2013 00:34	P4000013.D	1.28	6.63	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-82762/3 Date Analyzed: 04/19/2013 21:58

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.69	7.85	
UPPER LIMIT				1.79	7.95	
LOWER LIMIT				1.59	7.75	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-82762/3 CCVRT		04/19/2013 21:58	P4000003.D	1.69	7.85	
CCV 240-82762/13		04/20/2013 00:34	P4000013.D	1.69	7.85	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-83996/3 Date Analyzed: 04/29/2013 08:18

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14533

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.29	6.65	
UPPER LIMIT				1.39	6.75	
LOWER LIMIT				1.19	6.55	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-83996/3 CCVRT		04/29/2013 08:18	P4000003.D	1.29	6.65	
240-22663-26	079SB-0026M-0001-SO	04/29/2013 08:49	P4000005.D	1.30	6.65	
240-22663-28	079SB-0028M-0001-SO	04/29/2013 09:04	P4000006.D	1.30	6.65	
MB 240-83675/20-A		04/29/2013 09:20	P4000007.D	1.30	6.65	
LCS 240-83675/21-A		04/29/2013 09:35	P4000008.D	1.30	6.65	
CCV 240-83996/9		04/29/2013 09:51	P4000009.D	1.29	6.65	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 240-83996/3 Date Analyzed: 04/29/2013 08:18

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P4000003.D Heated Purge: (Y/N) N

Calibration ID: 14534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				1.70	7.87	
UPPER LIMIT				1.80	7.97	
LOWER LIMIT				1.60	7.77	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-83996/3 CCVRT		04/29/2013 08:18	P4000003.D	1.70	7.87	
240-22663-26	079SB-0026M-0001-SO	04/29/2013 08:49	P4000005.D	1.71	7.87	
240-22663-28	079SB-0028M-0001-SO	04/29/2013 09:04	P4000006.D	1.71	7.87	
MB 240-83675/20-A		04/29/2013 09:20	P4000007.D	1.71	7.87	
LCS 240-83675/21-A		04/29/2013 09:35	P4000008.D	1.71	7.87	
CCV 240-83996/9		04/29/2013 09:51	P4000009.D	1.70	7.87	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.1 minutes of surrogate RT
DCB RT Limit = ± 0.1 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-81730/21-A

Instrument ID (1): A2HP4 Instrument ID (2): A2HP4

Date Analyzed (1): 04/18/2013 15:05 Date Analyzed (2): 04/18/2013 15:05

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.15	2.05	2.25	242	261	3.7
		2	2.54	2.44	2.64	245		
		3	2.99	2.89	3.09	286		
		4	3.13	3.03	3.23	262		
		5	3.24	3.14	3.34	270		
	2	1	1.55	1.45	1.65	235	271	
		2	1.83	1.73	1.93	262		
		3	2.22	2.12	2.32	299		
		4	2.34	2.24	2.44	286		
		5	2.72	2.62	2.82	270		
Aroclor-1260	1	1	4.95	4.84	5.04	265	284	6.2
		2	5.17	5.08	5.28	266		
		3	5.54	5.44	5.64	287		
		4	6.23	6.13	6.33	296		
		5	6.61	6.51	6.71	305		
	2	1	3.92	3.82	4.02	277	302	
		2	4.20	4.10	4.30	290		
		3	4.48	4.38	4.58	306		
		4	5.18	5.08	5.28	305		
		5	5.47	5.37	5.57	332		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-81736/23-A

Instrument ID (1): A2HP4 Instrument ID (2): A2HP4

Date Analyzed (1): 04/19/2013 09:06 Date Analyzed (2): 04/19/2013 09:06

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.15	2.05	2.25	248	275	4.1
		2	2.54	2.44	2.64	262		
		3	3.00	2.90	3.10	310		
		4	3.14	3.04	3.24	271		
		5	3.24	3.14	3.34	285		
	2	1	1.55	1.45	1.65	238	287	
		2	1.83	1.73	1.93	274		
		3	2.22	2.12	2.32	324		
		4	2.34	2.24	2.44	314		
		5	2.72	2.62	2.82	282		
Aroclor-1260	1	1	4.95	4.85	5.05	304	327	3.0
		2	5.18	5.08	5.28	314		
		3	5.55	5.45	5.65	328		
		4	6.23	6.13	6.33	338		
		5	6.61	6.51	6.71	353		
	2	1	3.92	3.82	4.02	303	337	
		2	4.21	4.11	4.31	320		
		3	4.49	4.39	4.59	340		
		4	5.19	5.09	5.29	340		
		5	5.47	5.37	5.57	383		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-83675/21-A

Instrument ID (1): A2HP4 Instrument ID (2): A2HP4

Date Analyzed (1): 04/29/2013 09:35 Date Analyzed (2): 04/29/2013 09:35

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	2.17	2.07	2.27	167	192	14.1
		2	2.57	2.46	2.66	190		
		3	3.02	2.92	3.12	213		
		4	3.16	3.06	3.26	177		
		5	3.26	3.16	3.36	211		
	2	1	1.57	1.46	1.66	190	221	
		2	1.85	1.75	1.95	217		
		3	2.25	2.14	2.34	260		
		4	2.37	2.26	2.46	237		
		5	2.75	2.64	2.84	199		
Aroclor-1260	1	1	4.97	4.87	5.07	213	221	11.7
		2	5.20	5.10	5.30	215		
		3	5.57	5.47	5.67	223		
		4	6.26	6.16	6.36	229		
		5	6.64	6.54	6.74	227		
	2	1	3.94	3.84	4.04	227	249	
		2	4.23	4.13	4.33	236		
		3	4.51	4.42	4.62	250		
		4	5.21	5.12	5.32	255		
		5	5.50	5.41	5.61	277		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO Lab Sample ID: 240-22663-4

Matrix: Solid Lab File ID: P4000005.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 10:12

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.09(g) Date Analyzed: 04/18/2013 10:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	53		40-140
2051-24-3	DCB Decachlorobiphenyl	68		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000005.D		
Lims ID:	240-22663-G-4-C	Client ID:	079SB-0014M-0001-SO
Inject. Date:	18-Apr-2013 10:08:37	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	82363	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	16869365	0.0107			
2	2	1.683	1.682	0.001	16391452	0.0104			
						RPD = 2.51			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

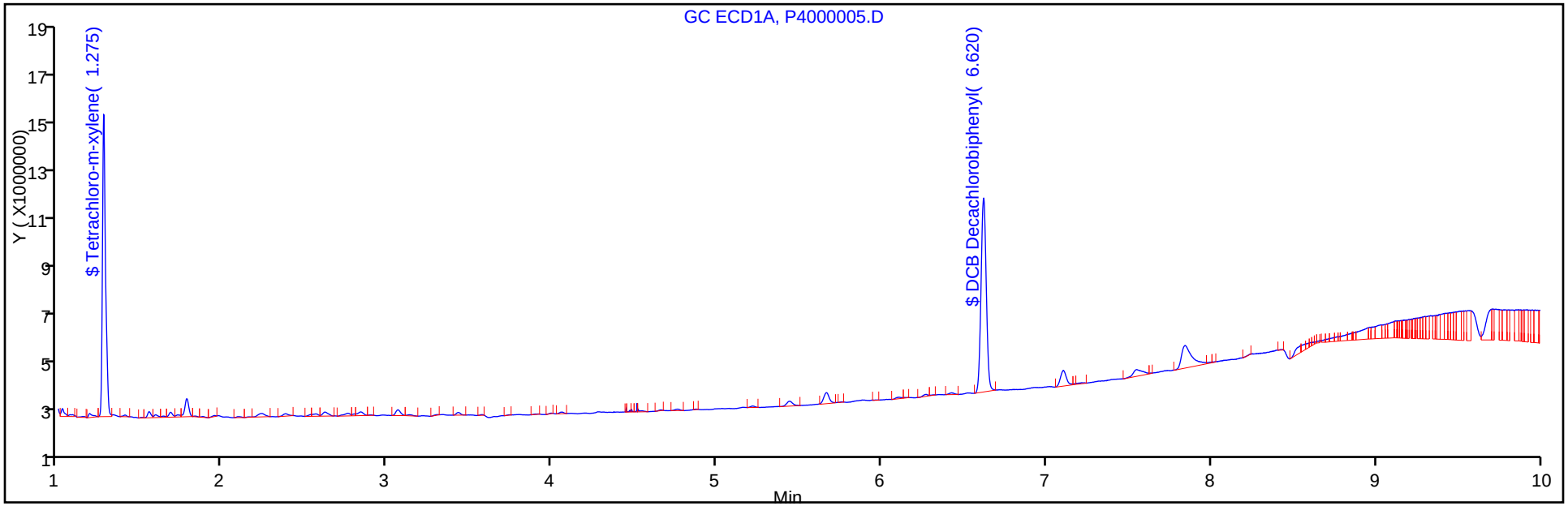
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	18074331	0.0135			
2	2	7.842	7.841	0.001	20083114	0.0138			
						RPD = 1.84			

Report Date: 19-Apr-2013 14:47:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

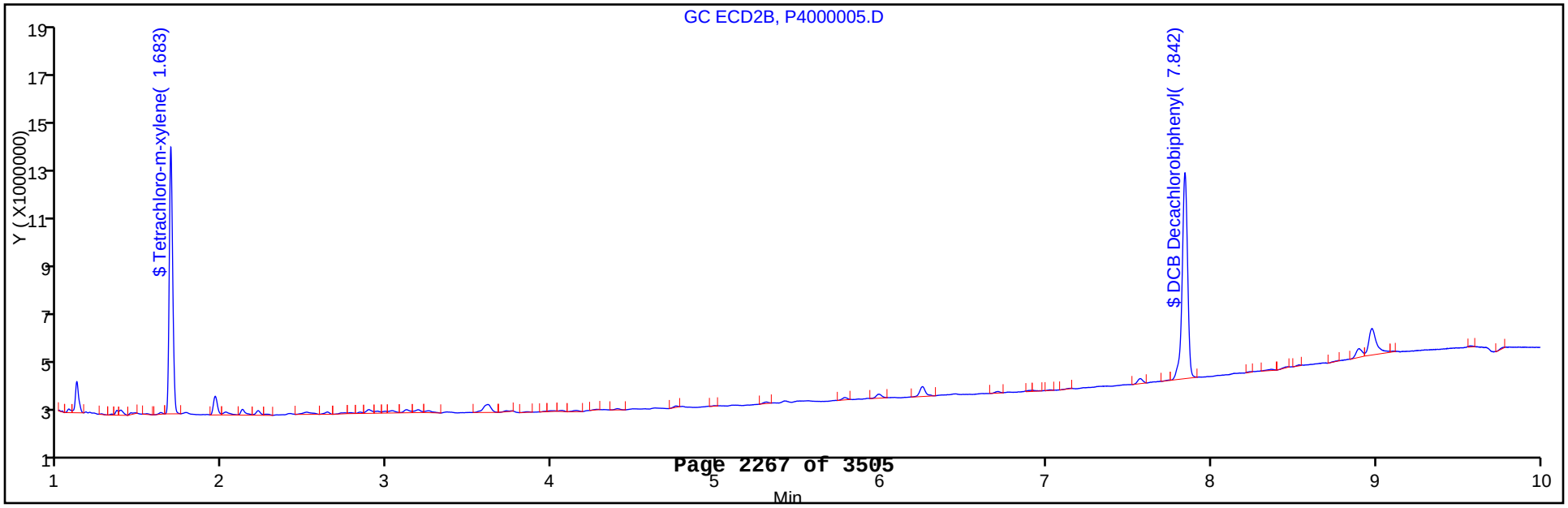
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000005.D		
Injection Date:	18-Apr-2013 10:08:37	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0014M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO | Lab Sample ID: 240-22663-4

Matrix: Solid | Lab File ID: P4000005.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 10:12

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.09(g) | Date Analyzed: 04/18/2013 10:08

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	52		40-140
2051-24-3	DCB Decachlorobiphenyl	69		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000005.D		
Lims ID:	240-22663-G-4-C	Client ID:	079SB-0014M-0001-SO
Inject. Date:	18-Apr-2013 10:08:37	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	82363	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	16869365	0.0107			
2	2	1.683	1.682	0.001	16391452	0.0104			
						RPD = 2.51			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

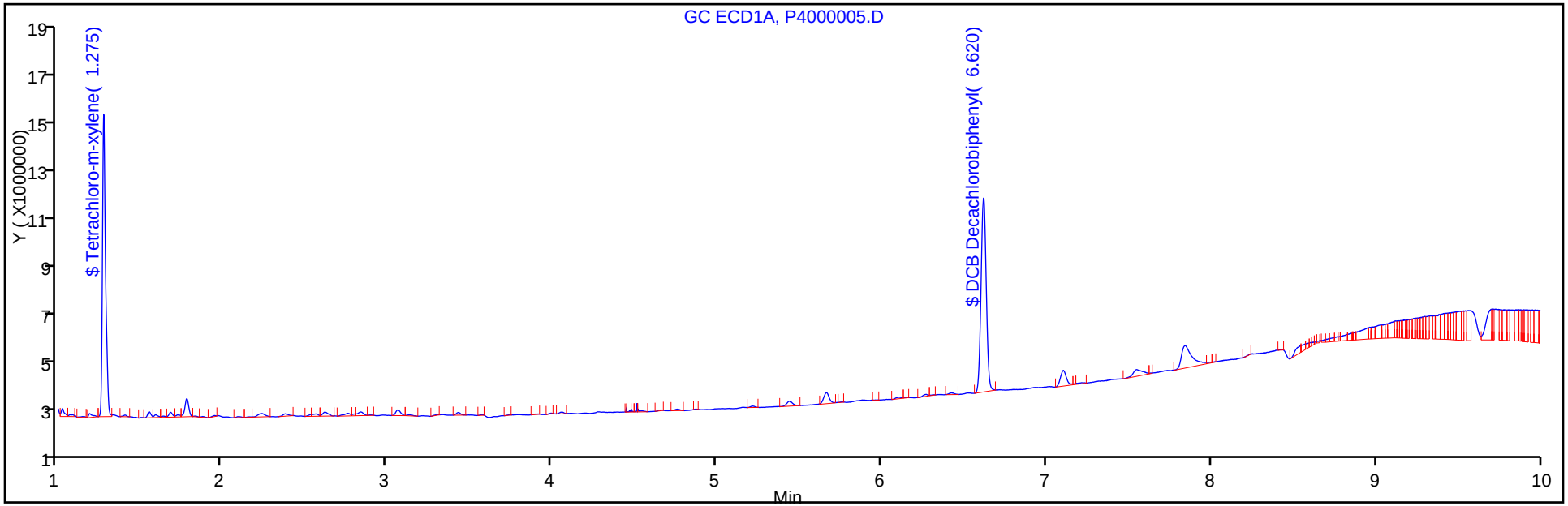
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	18074331	0.0135			
2	2	7.842	7.841	0.001	20083114	0.0138			
						RPD = 1.84			

Report Date: 19-Apr-2013 14:47:58 Chrom Revision: 2.0 01-Apr-2013 21:16:10

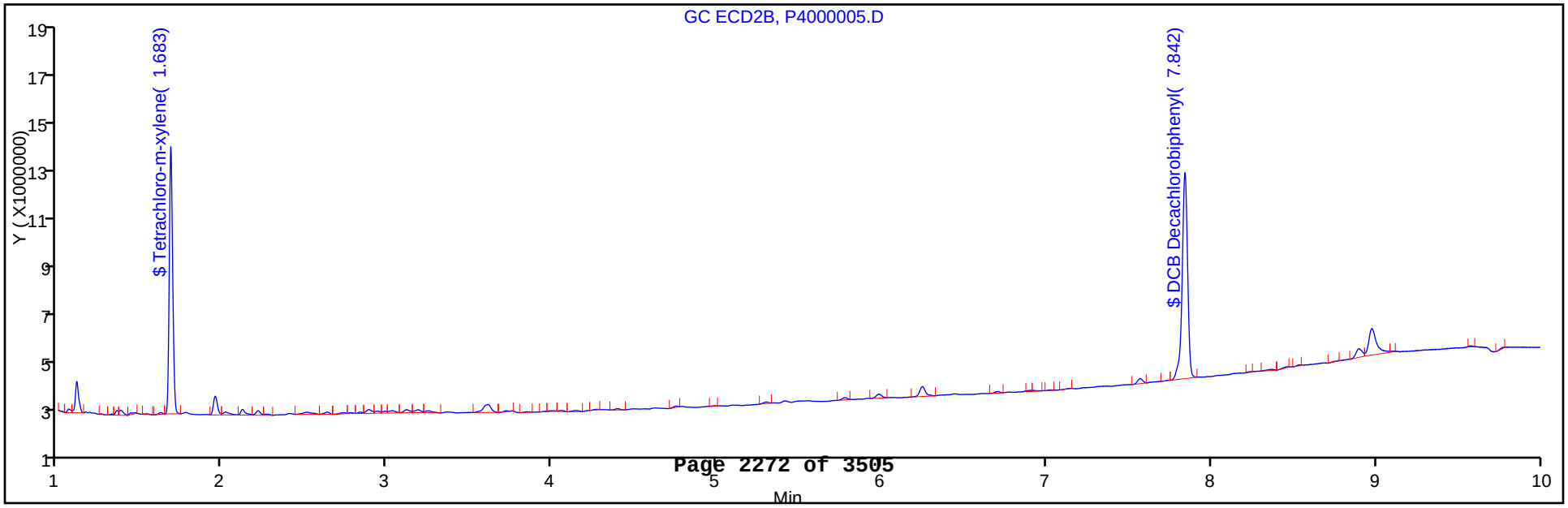
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000005.D		
Injection Date:	18-Apr-2013 10:08:37	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0014M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0017M-0001-SO Lab Sample ID: 240-22663-7

Matrix: Solid Lab File ID: P4000006.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 09:24

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 29.71(g) Date Analyzed: 04/18/2013 10:24

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		40-140
2051-24-3	DCB Decachlorobiphenyl	68		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000006.D		
Lims ID:	240-22663-G-7-C	Client ID:	079SB-0017M-0001-SO
Inject. Date:	18-Apr-2013 10:24:08	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	82363	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 14:41:31

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	19272133	0.0122			
2	2	1.682	1.682	0.000	18303039	0.0116			
						RPD = 4.79			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

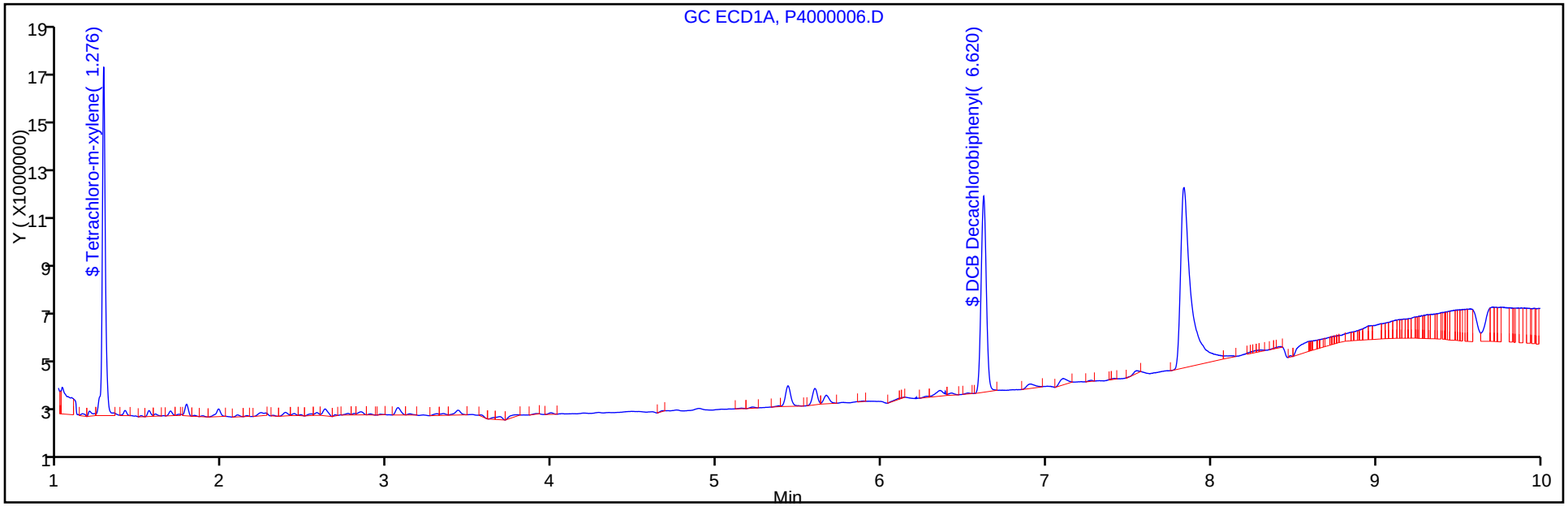
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	18200253	0.0136			
2	2	7.842	7.841	0.001	19107561	0.0131			
						RPD = 3.84			

Report Date: 19-Apr-2013 14:47:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

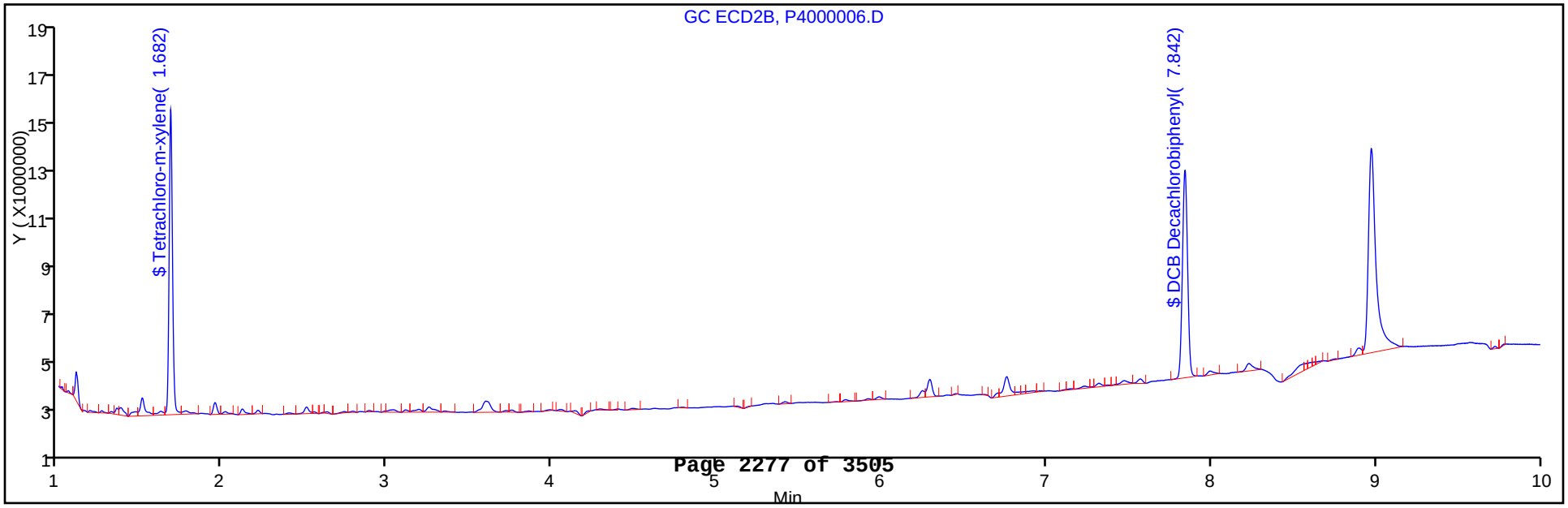
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000006.D		
Injection Date:	18-Apr-2013 10:24:08	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0017M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0017M-0001-SO | Lab Sample ID: 240-22663-7

Matrix: Solid | Lab File ID: P4000006.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 09:24

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 29.71(g) | Date Analyzed: 04/18/2013 10:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	66	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	56	25	17
11097-69-1	Aroclor-1254	25	U	56	25	17
11096-82-5	Aroclor-1260	25	U	56	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	58		40-140
2051-24-3	DCB Decachlorobiphenyl	66		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000006.D		
Lims ID:	240-22663-G-7-C	Client ID:	079SB-0017M-0001-SO
Inject. Date:	18-Apr-2013 10:24:08	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	82363	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		
First Level Reviewer: hassl		Date:	19-Apr-2013 14:41:31

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	19272133	0.0122			
2	2	1.682	1.682	0.000	18303039	0.0116			
						RPD = 4.79			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

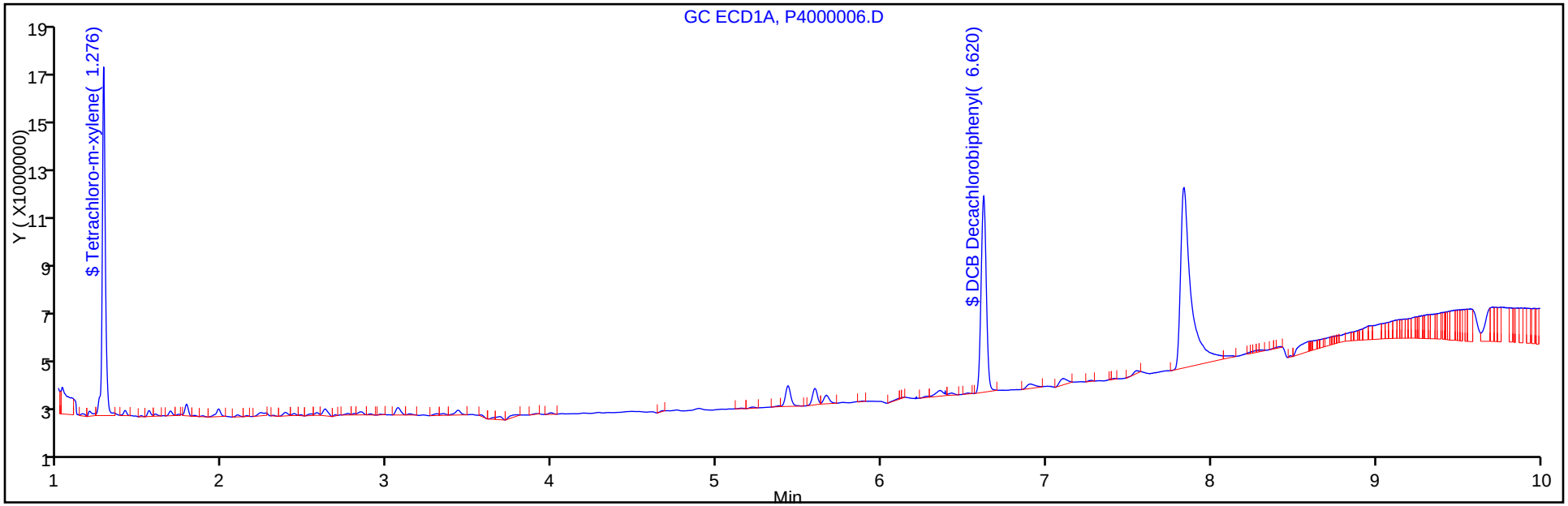
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	18200253	0.0136			
2	2	7.842	7.841	0.001	19107561	0.0131			
						RPD = 3.84			

Report Date: 19-Apr-2013 14:47:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

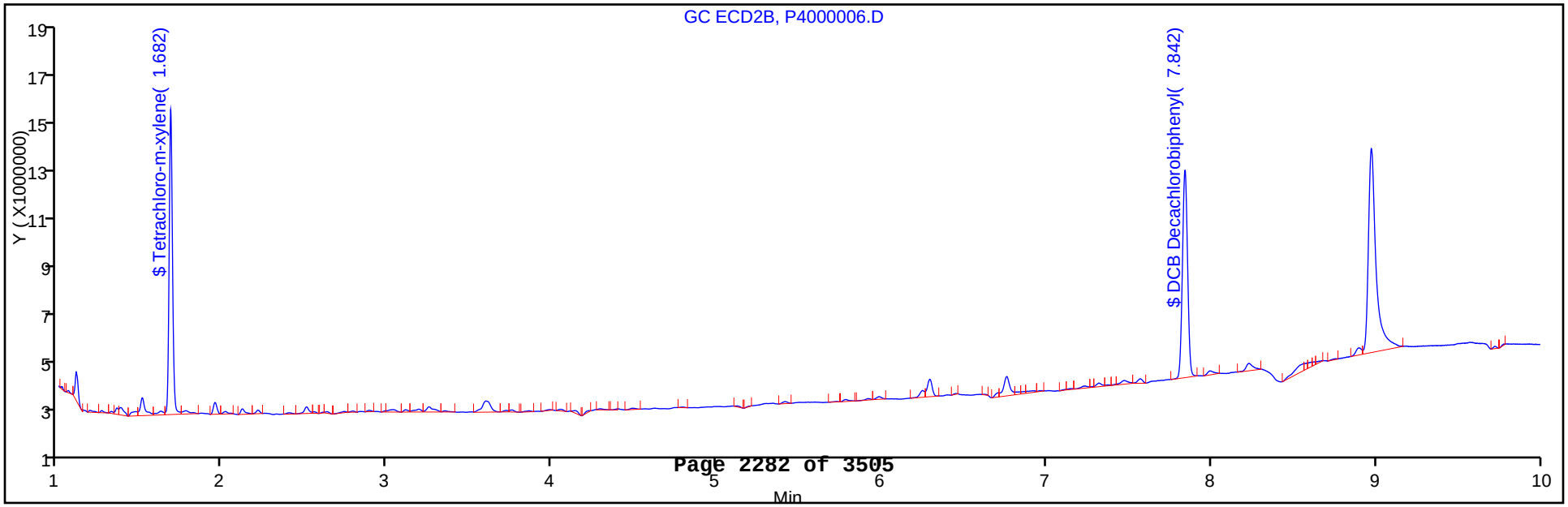
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000006.D		
Injection Date:	18-Apr-2013 10:24:08	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0017M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 073SB-0041M-0001-SO Lab Sample ID: 240-22663-17

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 13:03

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.46(g) Date Analyzed: 04/18/2013 10:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	56		40-140
2051-24-3	DCB Decachlorobiphenyl	67		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000007.D		
Lims ID:	240-22663-G-17-C	Client ID:	073SB-0041M-0001-SO
Inject. Date:	18-Apr-2013 10:39:50	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-007		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	82363	Lims Sample ID:	7
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	17778454	0.0112			
2	2	1.682	1.682	0.000	17413825	0.0110			
						RPD = 1.71			
3 PCB-1221									1
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.620	-0.002	17868983	0.0134			
2	2	7.841	7.841	0.000	18892614	0.0130			
						RPD = 3.13			

QC Flag Legend

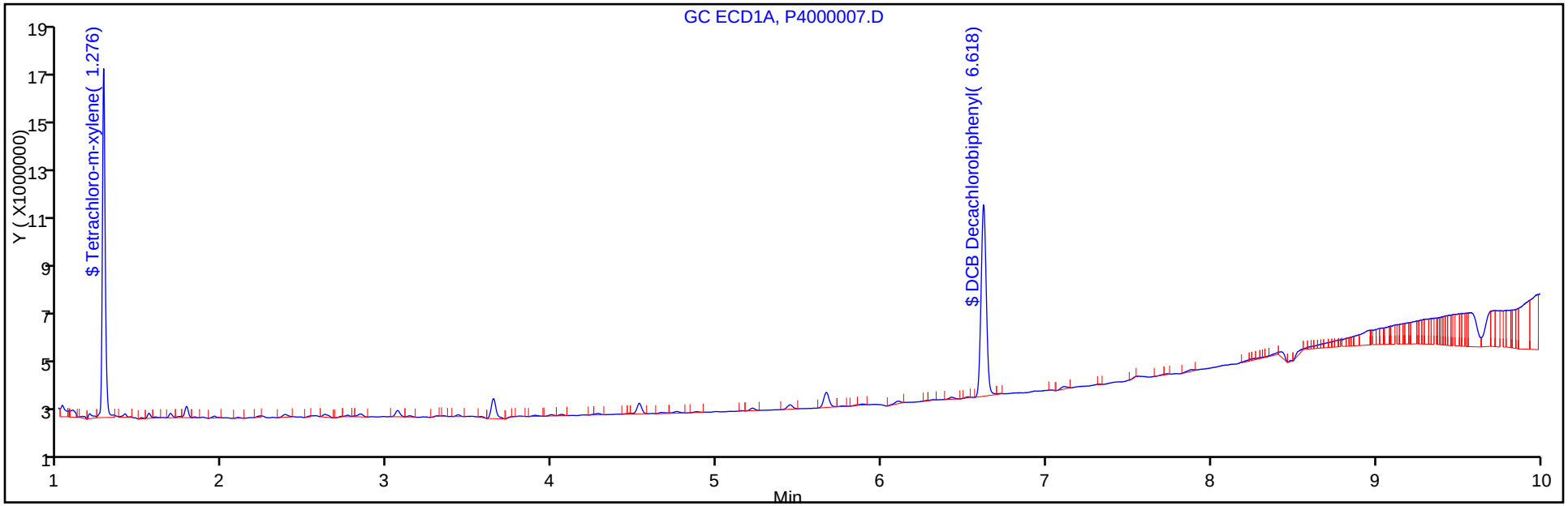
Processing Flags
1 - Missing Peaks

Report Date: 19-Apr-2013 14:47:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

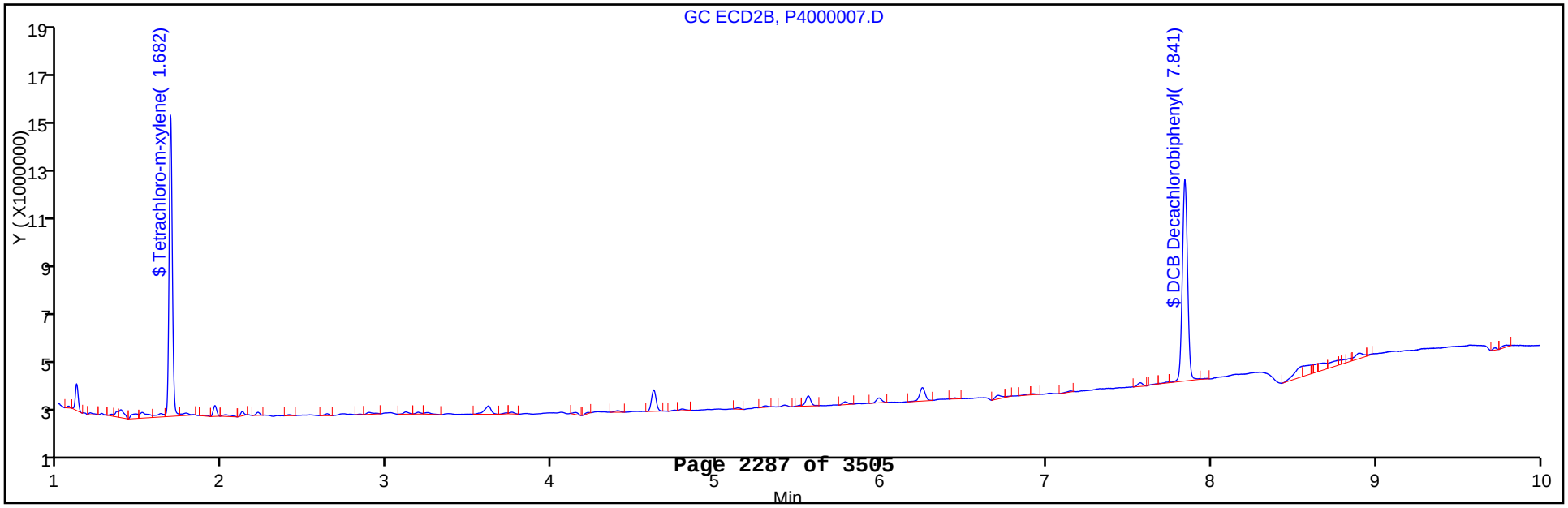
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000007.D		
Injection Date:	18-Apr-2013 10:39:50	Limit Group:	GC 8082A ICAL
Client ID:	073SB-0041M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 073SB-0041M-0001-SO Lab Sample ID: 240-22663-17

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 13:03

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.46(g) Date Analyzed: 04/18/2013 10:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	24	U	49	24	16
12674-11-2	Aroclor-1016	24	U	64	24	21
11141-16-5	Aroclor-1232	24	U	44	24	14
53469-21-9	Aroclor-1242	24	U	39	24	13
12672-29-6	Aroclor-1248	24	U	54	24	17
11097-69-1	Aroclor-1254	24	U	54	24	17
11096-82-5	Aroclor-1260	24	U	54	24	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	55		40-140
2051-24-3	DCB Decachlorobiphenyl	65		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000007.D		
Lims ID:	240-22663-G-17-C	Client ID:	073SB-0041M-0001-SO
Inject. Date:	18-Apr-2013 10:39:50	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-007		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	82363	Lims Sample ID:	7
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	17778454	0.0112			
2	2	1.682	1.682	0.000	17413825	0.0110			
						RPD = 1.71			
3 PCB-1221									1
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.620	-0.002	17868983	0.0134			
2	2	7.841	7.841	0.000	18892614	0.0130			
						RPD = 3.13			

QC Flag Legend

Processing Flags
1 - Missing Peaks

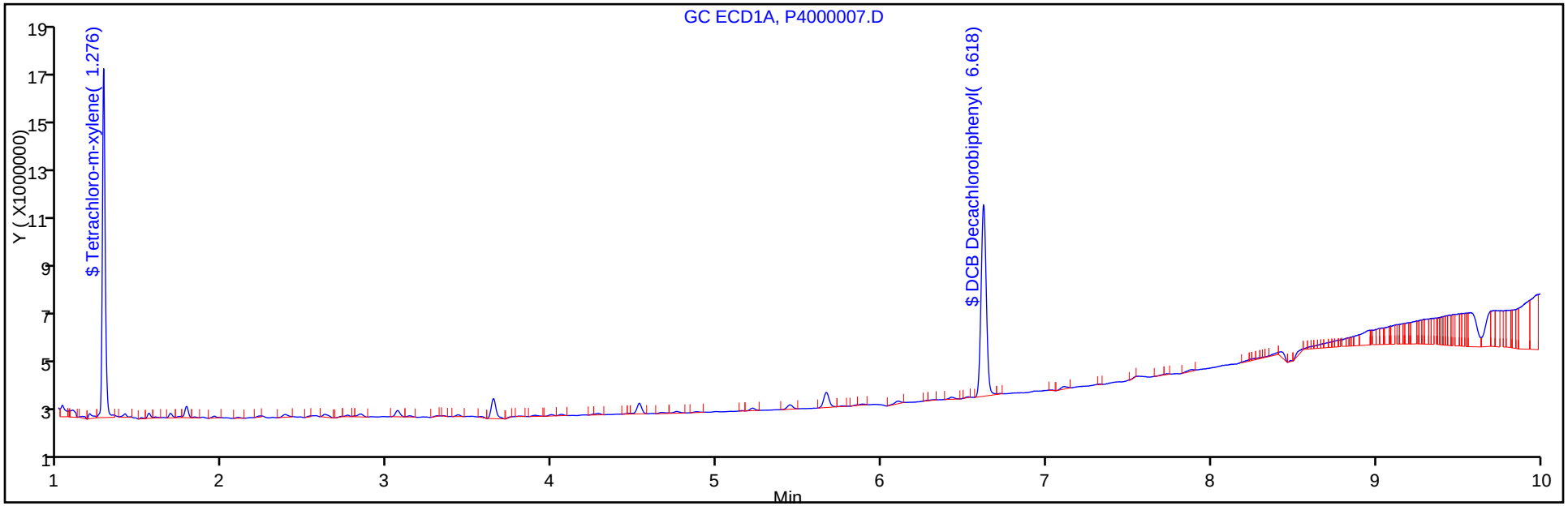
Report Date: 19-Apr-2013 14:47:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

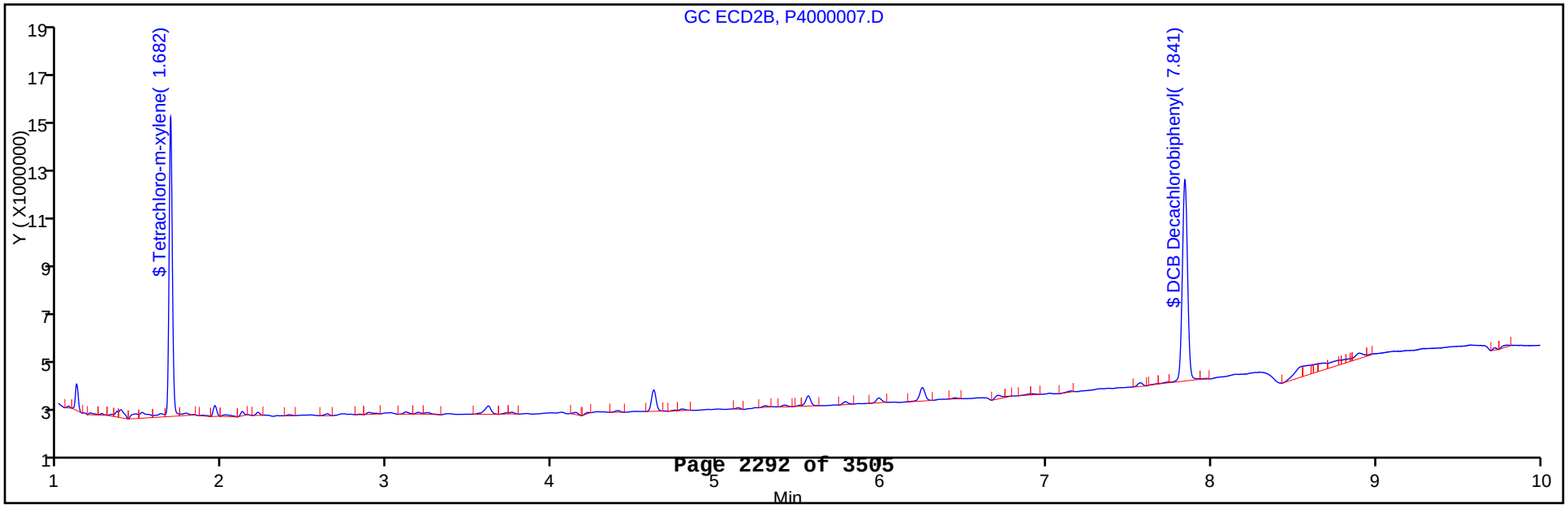
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000007.D

Injection Date:	18-Apr-2013 10:39:50	Limit Group:	GC 8082A ICAL
Client ID:	073SB-0041M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0026M-0001-SO Lab Sample ID: 240-22663-26

Matrix: Solid Lab File ID: P4000008.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 10:37

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.04(g) Date Analyzed: 04/18/2013 10:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	50		40-140
2051-24-3	DCB Decachlorobiphenyl	56	Q	60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000008.D		
Lims ID:	240-22663-G-26-C	Client ID:	079SB-0026M-0001-SO
Inject. Date:	18-Apr-2013 10:55:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	82363	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 14:41:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	15862579	0.0100			
2	2	1.685	1.682	0.003	15719062	0.0100			
						RPD = 0.54			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

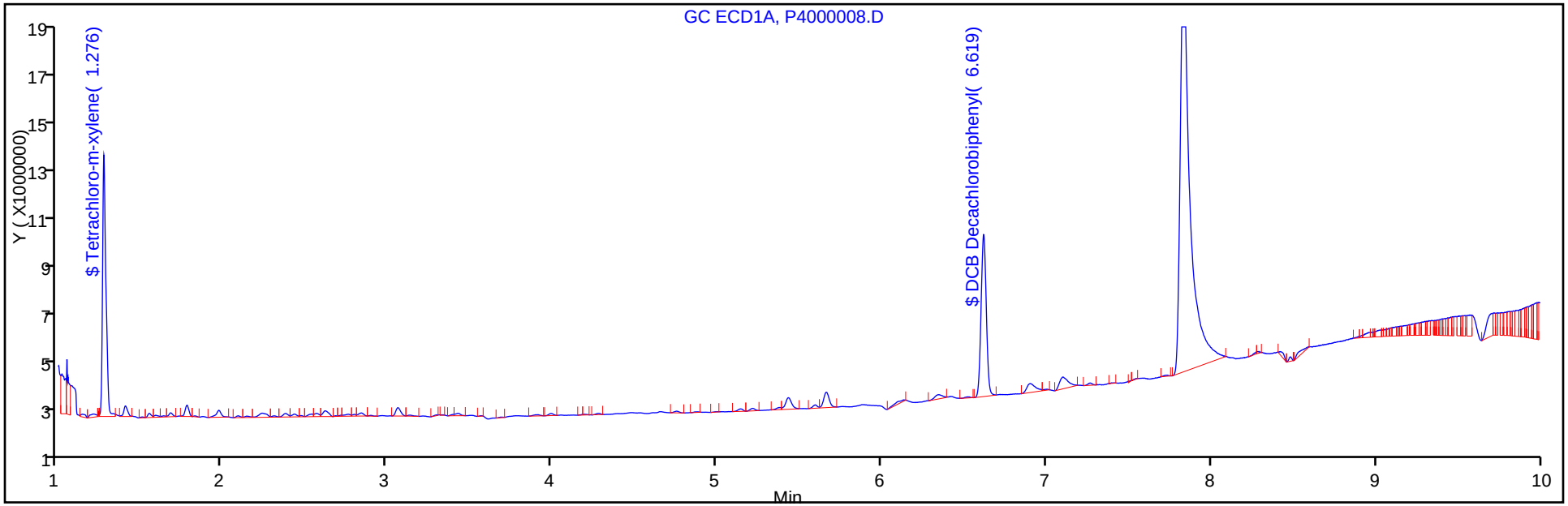
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.620	-0.001	15047822	0.0113			
2	2	7.841	7.841	0.000	15948590	0.0109			
						RPD = 2.89			

Report Date: 19-Apr-2013 14:47:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

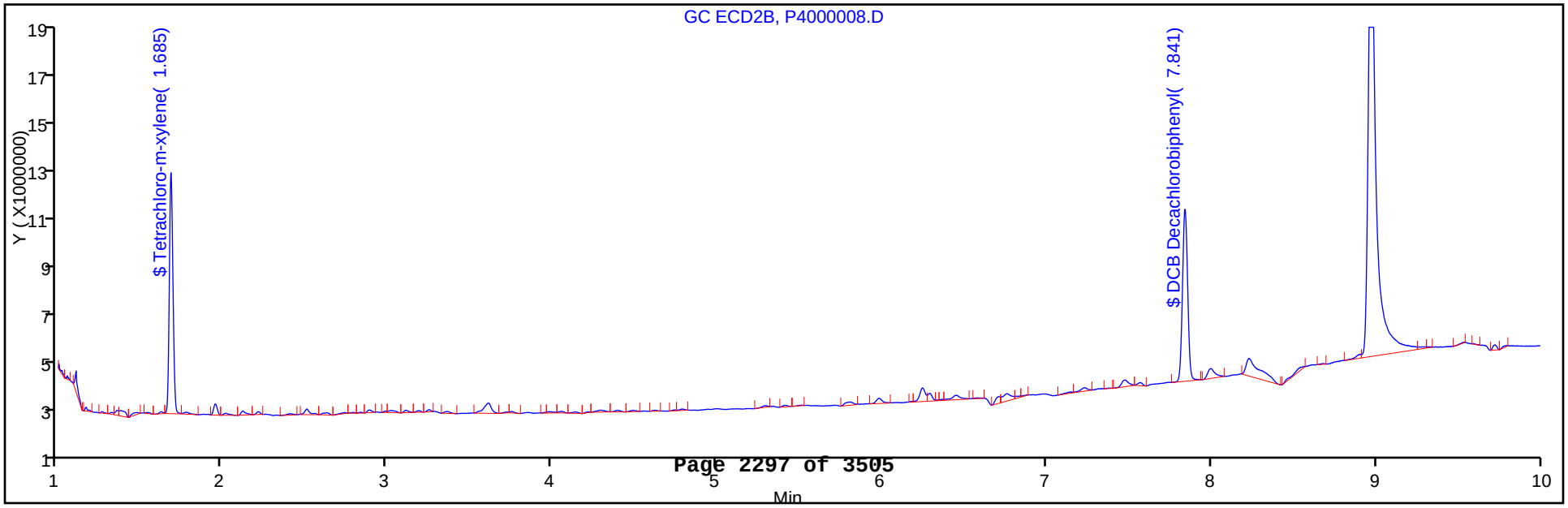
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000008.D		
Injection Date:	18-Apr-2013 10:55:25	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0026M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0026M-0001-SO | Lab Sample ID: 240-22663-26

Matrix: Solid | Lab File ID: P4000008.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 10:37

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.04(g) | Date Analyzed: 04/18/2013 10:55

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*25*	*U*	*50*	25	*16*
12674-11-2	*Aroclor-1016*	*25*	*U*	*65*	25	*21*
11141-16-5	*Aroclor-1232*	*25*	*U*	*45*	25	*14*
53469-21-9	*Aroclor-1242*	*25*	*U*	*40*	25	*13*
12672-29-6	*Aroclor-1248*	*25*	*U*	*55*	25	*17*
11097-69-1	*Aroclor-1254*	*25*	*U*	*55*	25	*17*
11096-82-5	*Aroclor-1260*	*25*	*U*	*55*	25	*17*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	50		40-140
2051-24-3	DCB Decachlorobiphenyl	55	*Q*	60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000008.D		
Lims ID:	240-22663-G-26-C	Client ID:	079SB-0026M-0001-SO
Inject. Date:	18-Apr-2013 10:55:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	82363	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 14:41:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	15862579	0.0100			
2	2	1.685	1.682	0.003	15719062	0.0100			
						RPD = 0.54			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

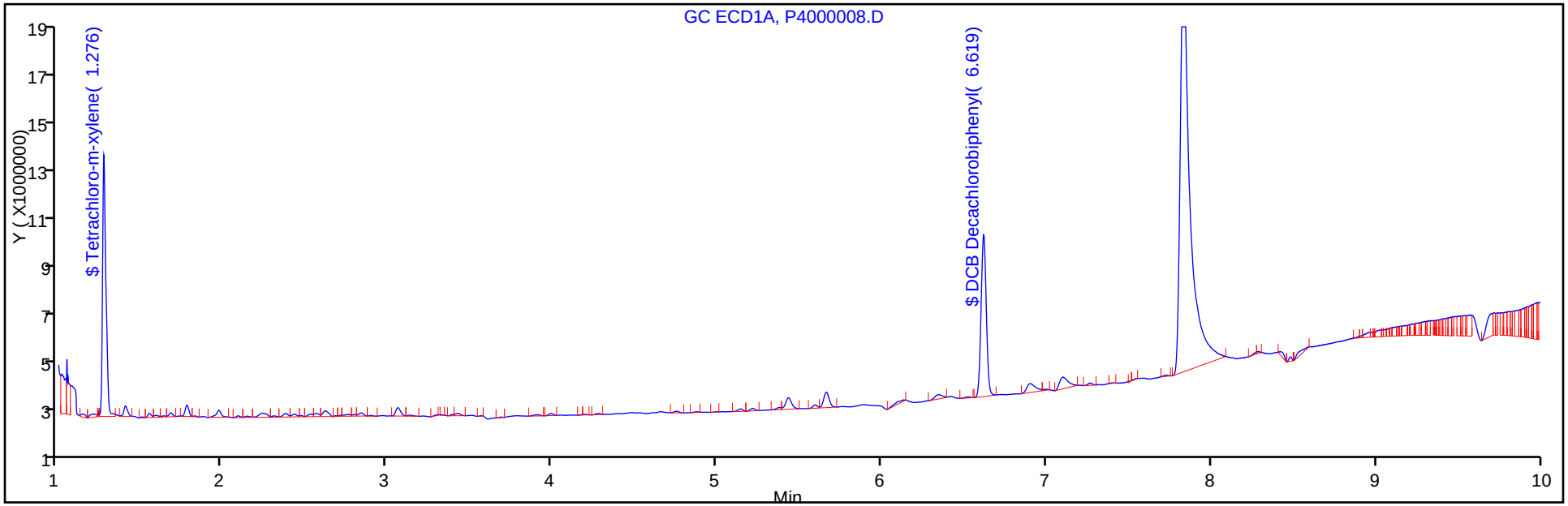
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.620	-0.001	15047822	0.0113			
2	2	7.841	7.841	0.000	15948590	0.0109			
						RPD = 2.89			

Report Date: 19-Apr-2013 14:47:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

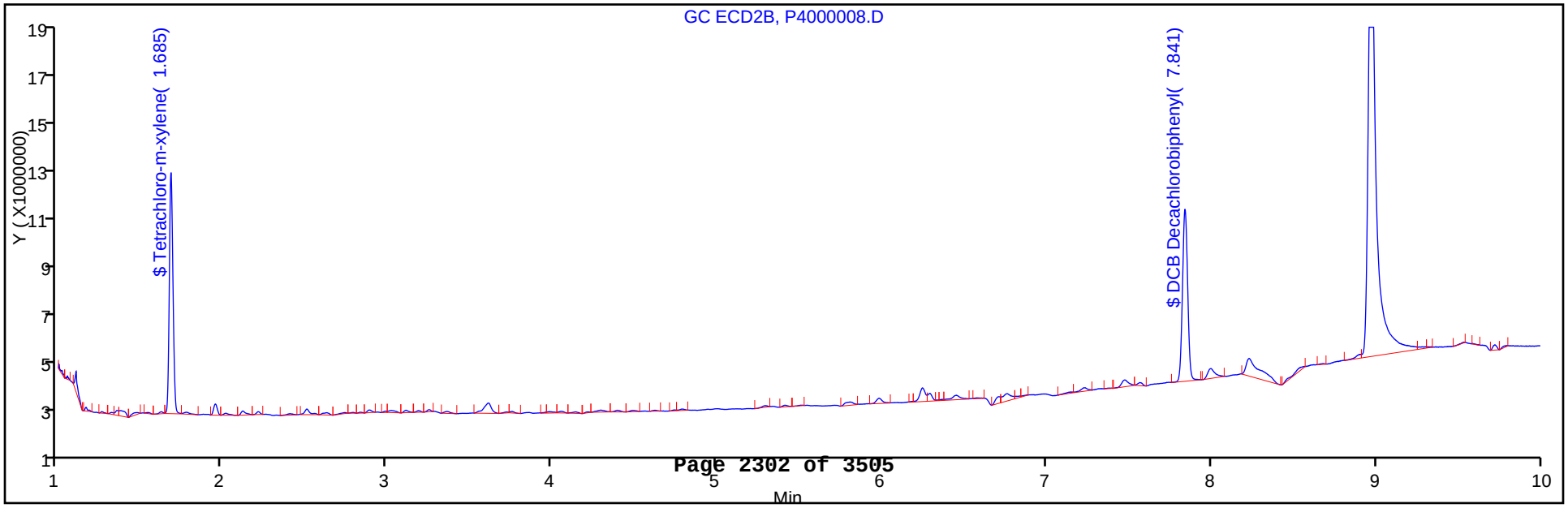
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000008.D		
Injection Date:	18-Apr-2013 10:55:25	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0026M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0026M-0001-SO Lab Sample ID: 240-22663-26

Matrix: Solid Lab File ID: P4000005.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 10:37

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.10(g) Date Analyzed: 04/29/2013 08:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	64		40-140
2051-24-3	DCB Decachlorobiphenyl	71		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000005.D		
Lims ID:	240-22663-G-26-I	Client ID:	079SB-0026M-0001-SO
Inject. Date:	29-Apr-2013 08:49:36	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019366-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	83996	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m		
Last Update:	29-Apr-2013 15:57:20	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: hassl Date: 29-Apr-2013 14:41:15

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.302	1.291	0.011	20191410	0.0128			
2	2	1.710	1.700	0.010	21458319	0.0136			
						RPD = 6.45			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100		1.562						
1	2		1.846						
1	3		2.241						
1	4		2.361						
1	5		2.741						
2	6		2.165						
2	7		2.561						
2	8		3.016						
2	9		3.155						
2	10		3.259						
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.941						
1	2		4.231						
1	3		4.516						
1	4		5.215						
1	5		5.506						
2	6		4.969						
2	7		5.201						
2	8		5.570						
2	9		6.256						
2	10		6.636						
$ 12 DCB Decachlorobiphenyl									
1	100	6.647	6.648	-0.001	18842779	0.0141			
2	2	7.869	7.869	0.000	18577181	0.0128			
						RPD = 10.11			

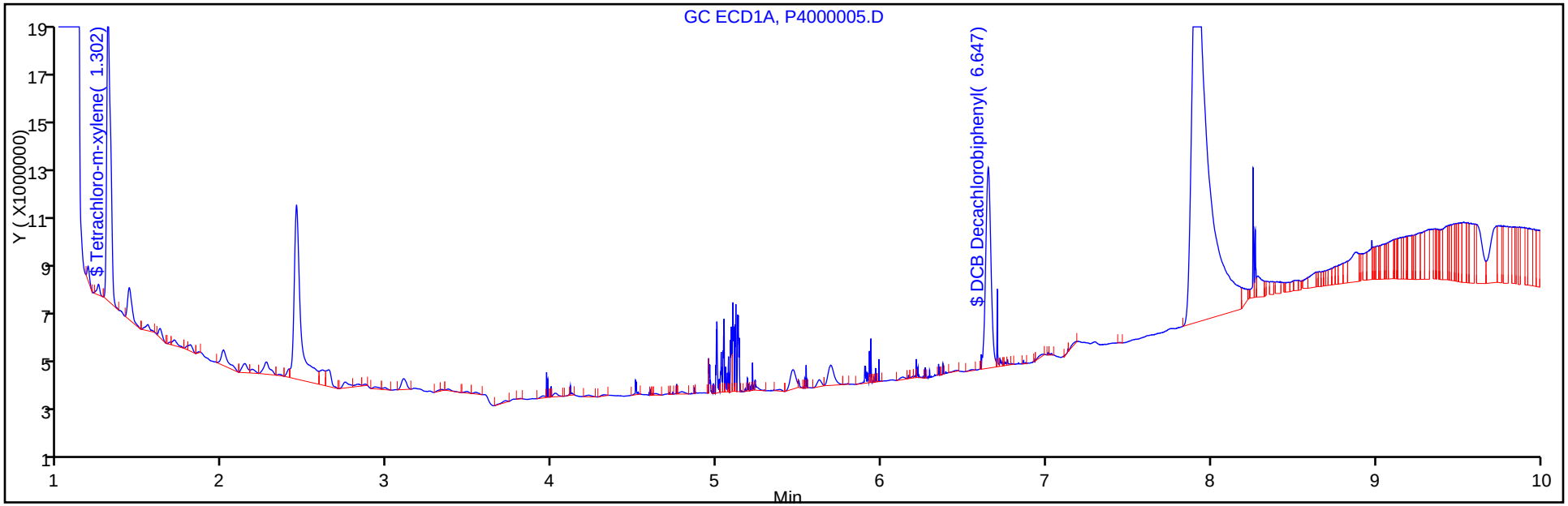
Report Date: 29-Apr-2013 15:57:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

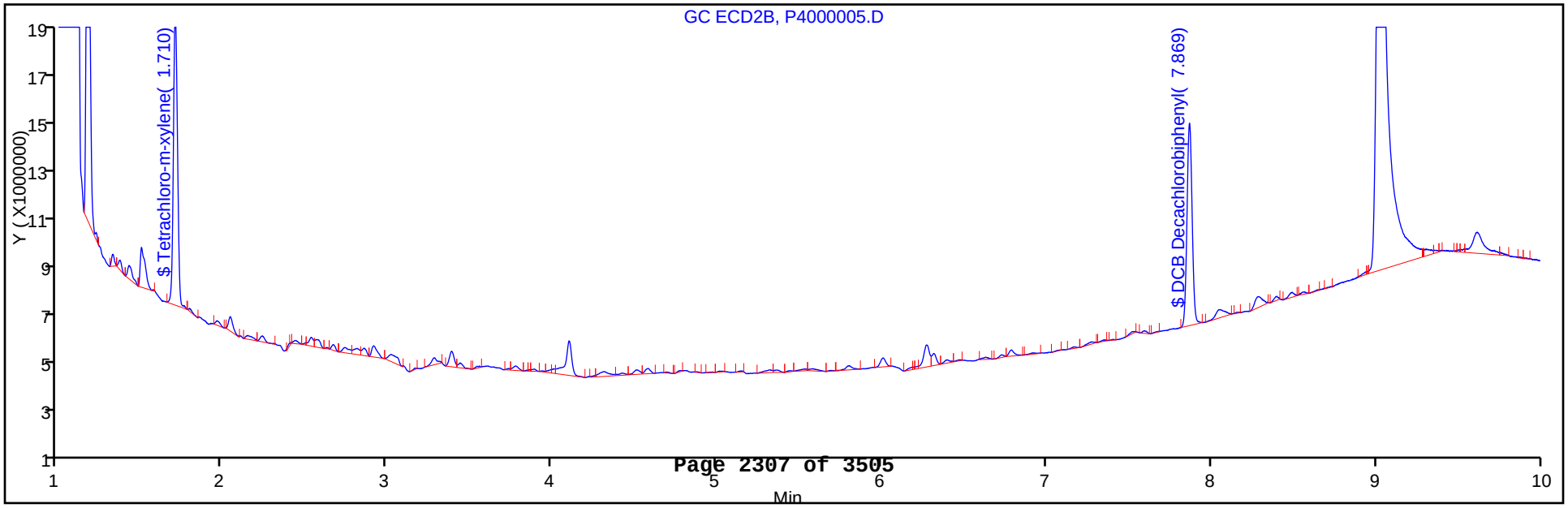
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000005.D

Injection Date:	29-Apr-2013 08:49:36	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0026M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0026M-0001-SO Lab Sample ID: 240-22663-26

Matrix: Solid Lab File ID: P4000005.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 10:37

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.10(g) Date Analyzed: 04/29/2013 08:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U H	50	25	16
12674-11-2	Aroclor-1016	25	U H	65	25	21
11141-16-5	Aroclor-1232	25	U H	45	25	14
53469-21-9	Aroclor-1242	25	U H	40	25	13
12672-29-6	Aroclor-1248	25	U H	55	25	17
11097-69-1	Aroclor-1254	25	U H	55	25	17
11096-82-5	Aroclor-1260	25	U H	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	68		40-140
2051-24-3	DCB Decachlorobiphenyl	64		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000005.D		
Lims ID:	240-22663-G-26-I	Client ID:	079SB-0026M-0001-SO
Inject. Date:	29-Apr-2013 08:49:36	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019366-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	83996	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m		
Last Update:	29-Apr-2013 15:57:20	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: hassl Date: 29-Apr-2013 14:41:15

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.302	1.291	0.011	20191410	0.0128			
2	2	1.710	1.700	0.010	21458319	0.0136			
						RPD = 6.45			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100		1.562						
1	2		1.846						
1	3		2.241						
1	4		2.361						
1	5		2.741						
2	6		2.165						
2	7		2.561						
2	8		3.016						
2	9		3.155						
2	10		3.259						
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.941						
1	2		4.231						
1	3		4.516						
1	4		5.215						
1	5		5.506						
2	6		4.969						
2	7		5.201						
2	8		5.570						
2	9		6.256						
2	10		6.636						
$ 12 DCB Decachlorobiphenyl									
1	100	6.647	6.648	-0.001	18842779	0.0141			
2	2	7.869	7.869	0.000	18577181	0.0128			
						RPD = 10.11			

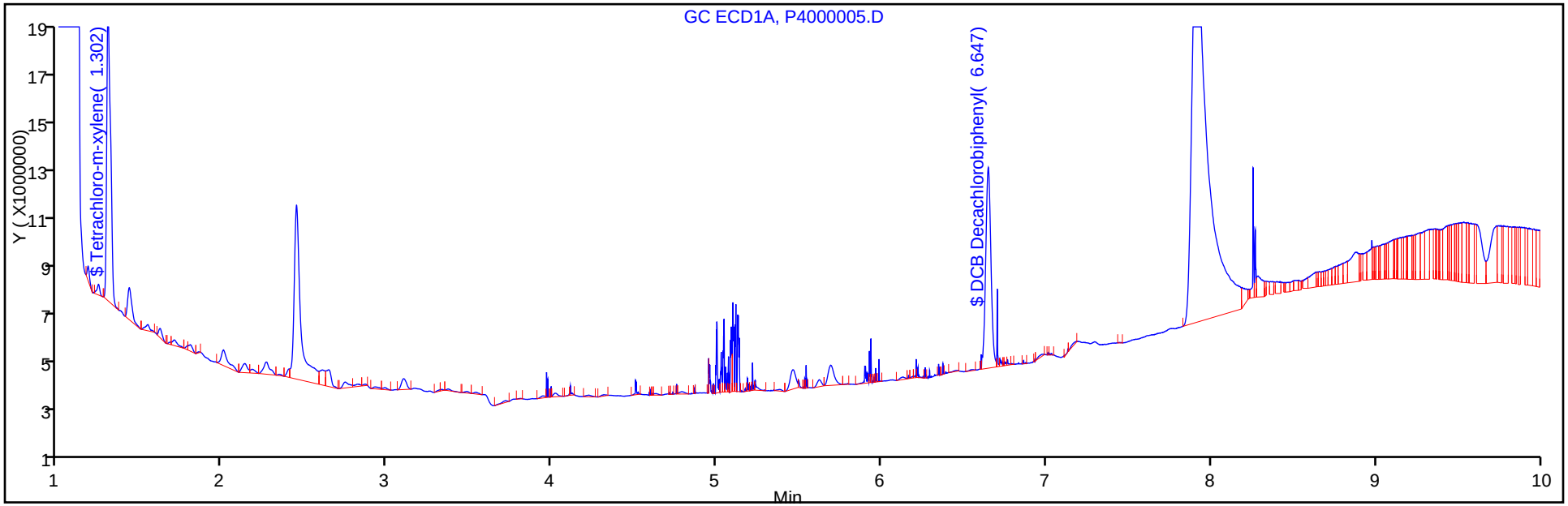
Report Date: 29-Apr-2013 15:57:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

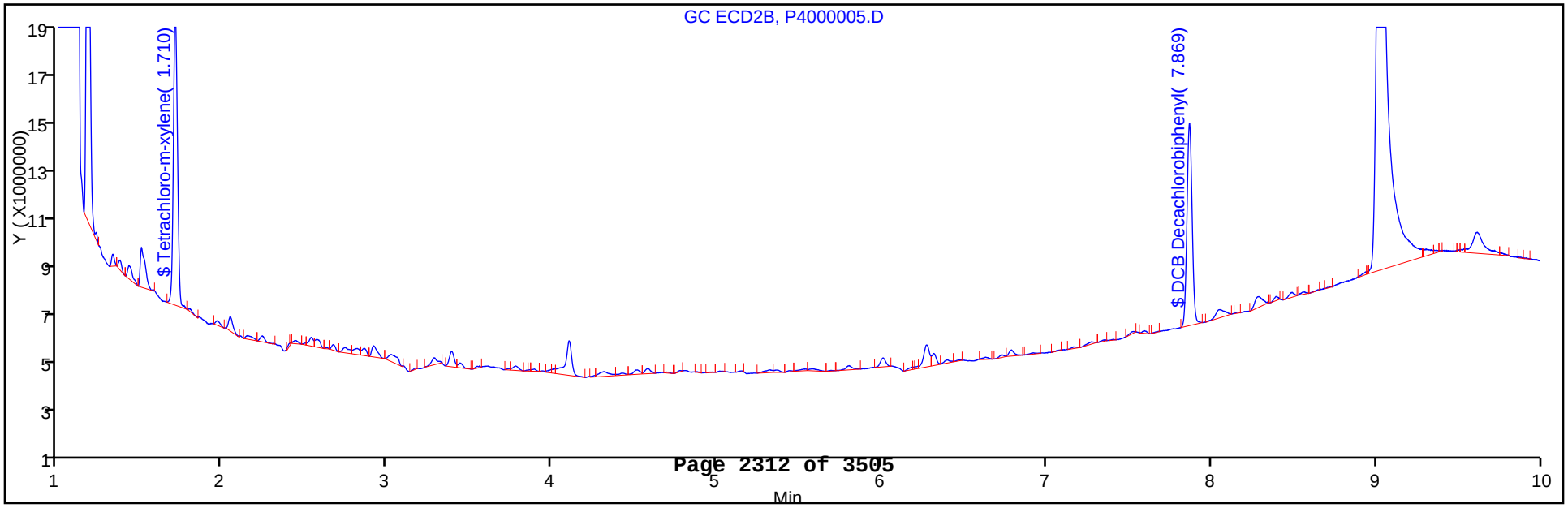
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000005.D

Injection Date:	29-Apr-2013 08:49:36	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0026M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO | Lab Sample ID: 240-22663-28

Matrix: Solid | Lab File ID: P4000009.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 10:43

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.15(g) | Date Analyzed: 04/18/2013 11:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	49		40-140
2051-24-3	DCB Decachlorobiphenyl	57	Q	60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000009.D		
Lims ID:	240-22663-G-28-C	Client ID:	079SB-0028M-0001-SO
Inject. Date:	18-Apr-2013 11:11:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	9
Lims Batch ID:	82363	Lims Sample ID:	9
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 14:41:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	15539335	0.009813			
2	2	1.684	1.682	0.002	15122252	0.009584			
						RPD = 2.35			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

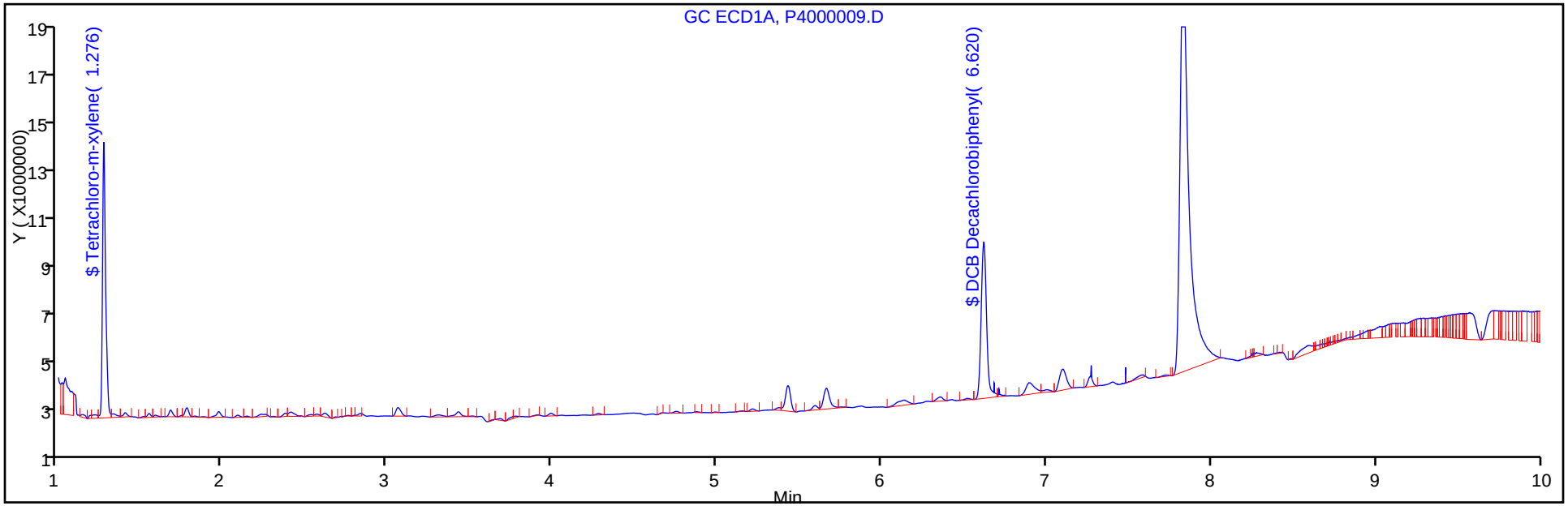
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	15243102	0.0114			
2	2	7.844	7.841	0.003	15551804	0.0107			
						RPD = 6.69			

Report Date: 19-Apr-2013 14:47:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

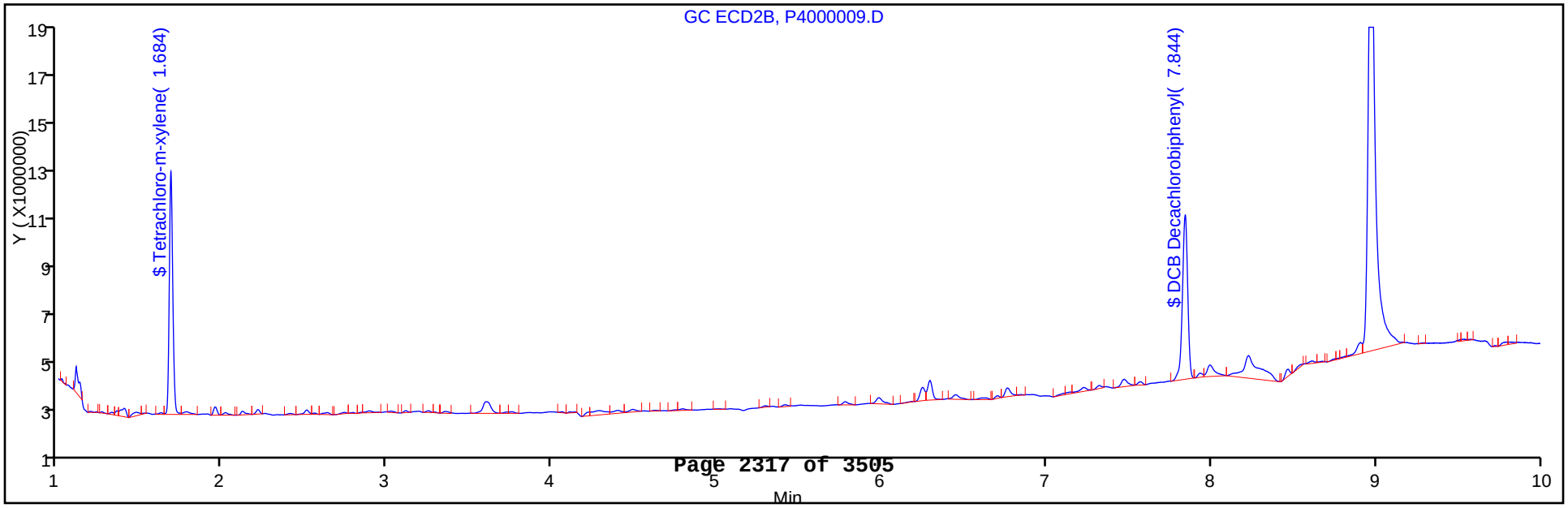
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000009.D		
Injection Date:	18-Apr-2013 11:11:04	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO | Lab Sample ID: 240-22663-28

Matrix: Solid | Lab File ID: P4000009.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 10:43

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.15(g) | Date Analyzed: 04/18/2013 11:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*25*	*U*	*50*	25	*16*
12674-11-2	*Aroclor-1016*	*25*	*U*	*65*	25	*21*
11141-16-5	*Aroclor-1232*	*25*	*U*	*45*	25	*14*
53469-21-9	*Aroclor-1242*	*25*	*U*	*40*	25	*13*
12672-29-6	*Aroclor-1248*	*25*	*U*	*55*	25	*17*
11097-69-1	*Aroclor-1254*	*25*	*U*	*55*	25	*17*
11096-82-5	*Aroclor-1260*	*25*	*U*	*55*	25	*17*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	48		40-140
2051-24-3	DCB Decachlorobiphenyl	53	*Q*	60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000009.D		
Lims ID:	240-22663-G-28-C	Client ID:	079SB-0028M-0001-SO
Inject. Date:	18-Apr-2013 11:11:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018971-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	9
Lims Batch ID:	82363	Lims Sample ID:	9
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m		
Last Update:	19-Apr-2013 14:47:51	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 14:41:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	15539335	0.009813			
2	2	1.684	1.682	0.002	15122252	0.009584			
						RPD = 2.35			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

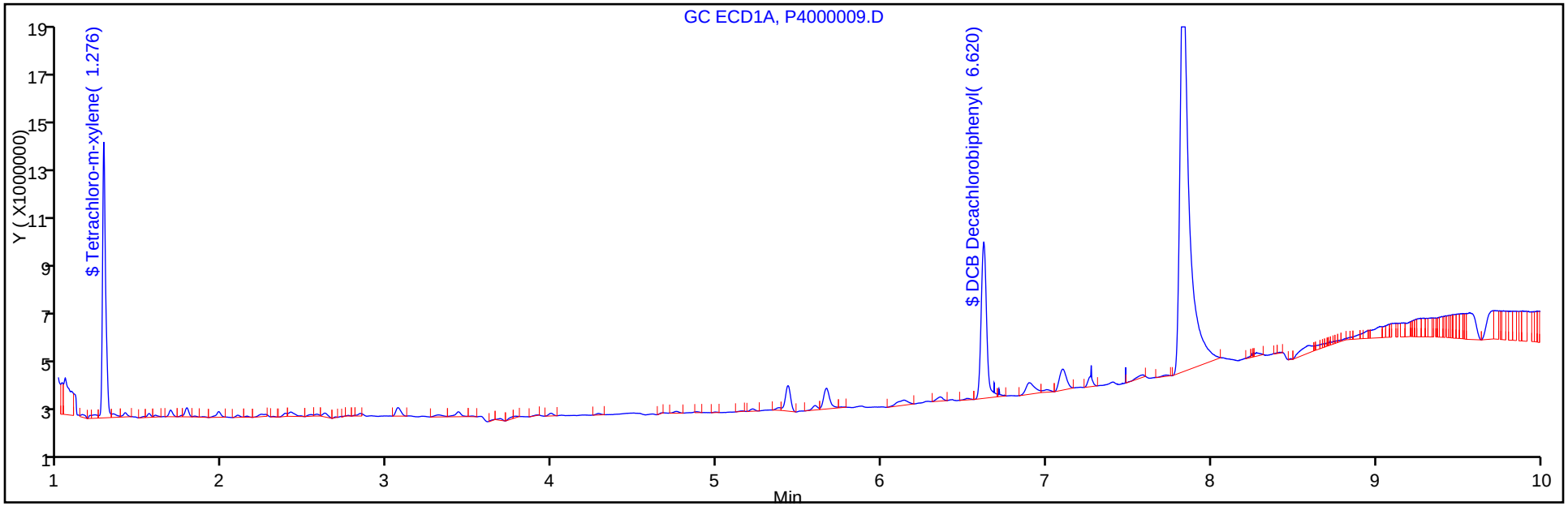
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	15243102	0.0114			
2	2	7.844	7.841	0.003	15551804	0.0107			
						RPD = 6.69			

Report Date: 19-Apr-2013 14:47:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

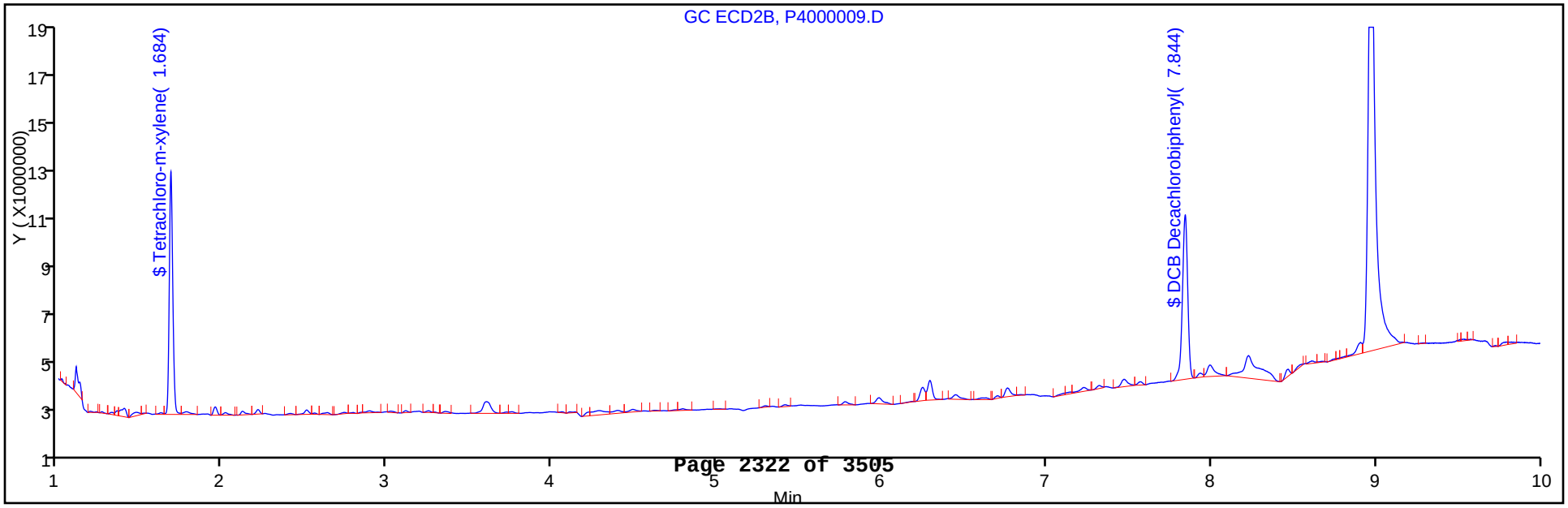
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000009.D		
Injection Date:	18-Apr-2013 11:11:04	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO Lab Sample ID: 240-22663-28

Matrix: Solid Lab File ID: P4000006.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 10:43

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.18(g) Date Analyzed: 04/29/2013 09:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	70		40-140
2051-24-3	DCB Decachlorobiphenyl	85		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000006.D		
Lims ID:	240-22663-G-28-K	Client ID:	079SB-0028M-0001-SO
Inject. Date:	29-Apr-2013 09:04:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019366-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	83996	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m		
Last Update:	29-Apr-2013 15:57:20	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: hassl Date: 29-Apr-2013 14:41:24

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.302	1.291	0.011	22091955	0.0140			
2	2	1.710	1.700	0.010	43570953	0.0276			
						RPD = 65.75			
3 PCB-1221									1
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100		1.562						
1	2		1.846						
1	3		2.241						
1	4		2.361						
1	5		2.741						
2	6		2.165						
2	7		2.561						
2	8		3.016						
2	9		3.155						
2	10		3.259						
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.941						
1	2		4.231						
1	3		4.516						
1	4		5.215						
1	5		5.506						
2	6		4.969						
2	7		5.201						
2	8		5.570						
2	9		6.256						
2	10		6.636						
$ 12 DCB Decachlorobiphenyl									
1	100	6.645	6.648	-0.003	22758916	0.0170			
2	2	7.869	7.869	0.000	21249524	0.0146			
						RPD = 15.53			

QC Flag Legend

Processing Flags
1 - Missing Peaks

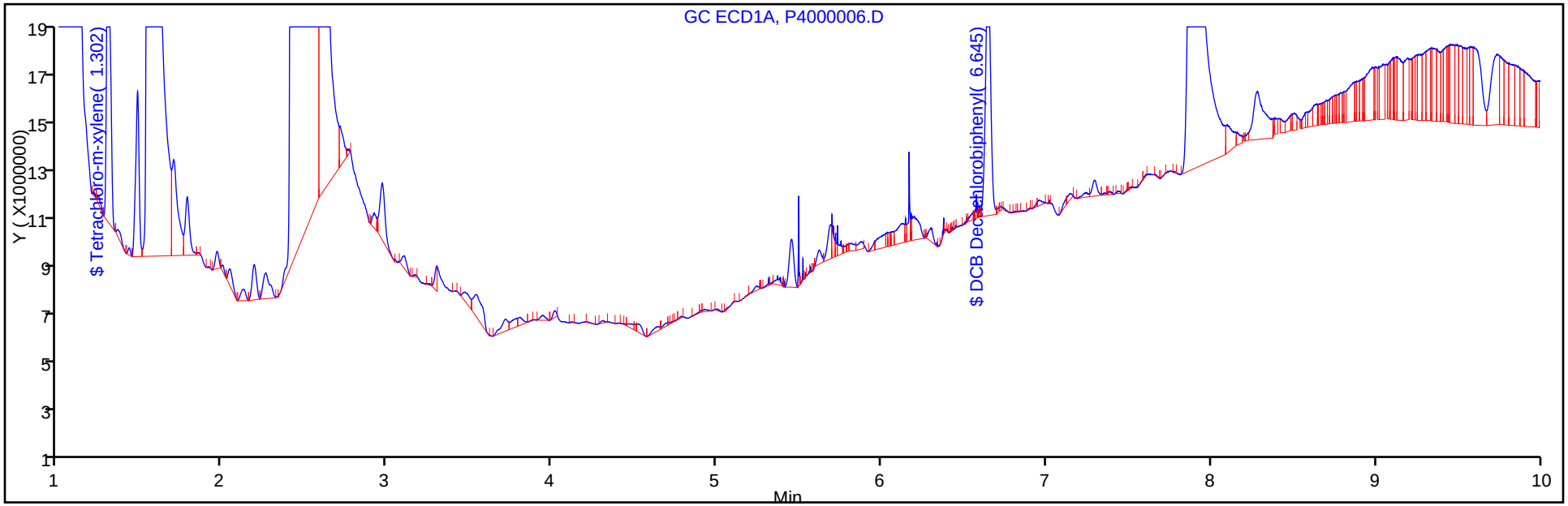
Report Date: 29-Apr-2013 15:57:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

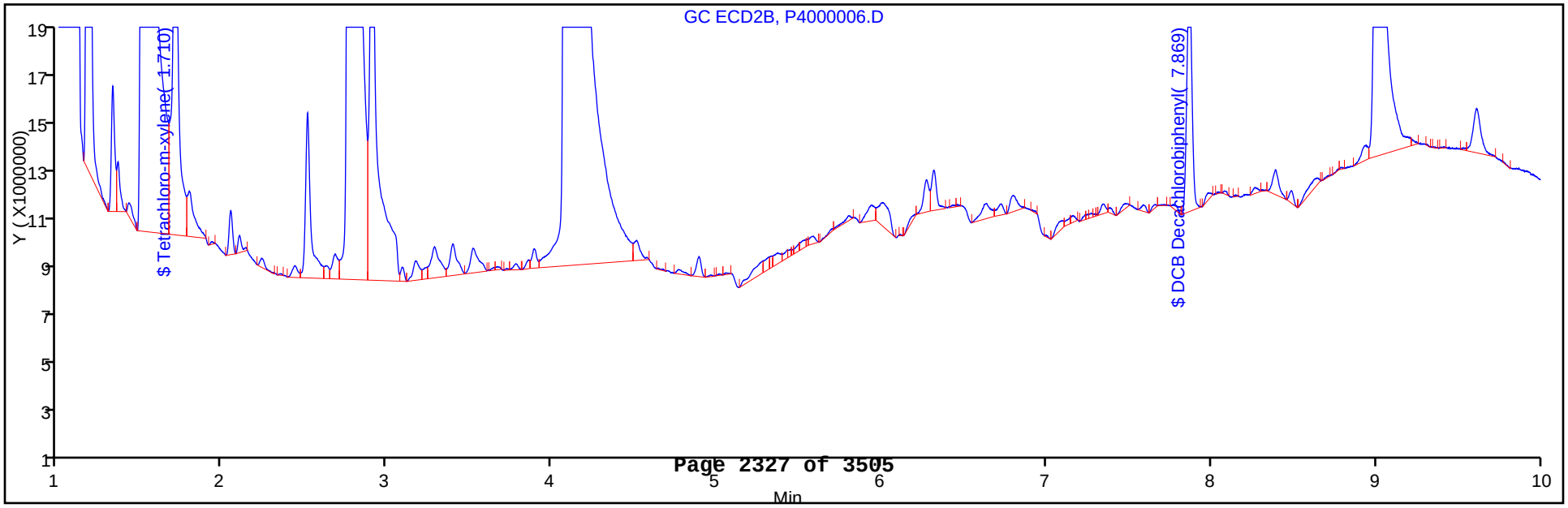
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000006.D

Injection Date:	29-Apr-2013 09:04:56	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO Lab Sample ID: 240-22663-28

Matrix: Solid Lab File ID: P4000006.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 10:43

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.18(g) Date Analyzed: 04/29/2013 09:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U H	50	25	16
12674-11-2	Aroclor-1016	25	U H	65	25	21
11141-16-5	Aroclor-1232	25	U H	45	25	14
53469-21-9	Aroclor-1242	25	U H	40	25	13
12672-29-6	Aroclor-1248	25	U H	55	25	17
11097-69-1	Aroclor-1254	25	U H	55	25	17
11096-82-5	Aroclor-1260	25	U H	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	138		40-140
2051-24-3	DCB Decachlorobiphenyl	73		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000006.D		
Lims ID:	240-22663-G-28-K	Client ID:	079SB-0028M-0001-SO
Inject. Date:	29-Apr-2013 09:04:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0019366-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	83996	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m		
Last Update:	29-Apr-2013 15:57:20	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: hassl Date: 29-Apr-2013 14:41:24

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.302	1.291	0.011	22091955	0.0140			
2	2	1.710	1.700	0.010	43570953	0.0276			
						RPD = 65.75			
3 PCB-1221									1
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100		1.562						
1	2		1.846						
1	3		2.241						
1	4		2.361						
1	5		2.741						
2	6		2.165						
2	7		2.561						
2	8		3.016						
2	9		3.155						
2	10		3.259						
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.941						
1	2		4.231						
1	3		4.516						
1	4		5.215						
1	5		5.506						
2	6		4.969						
2	7		5.201						
2	8		5.570						
2	9		6.256						
2	10		6.636						
$ 12 DCB Decachlorobiphenyl									
1	100	6.645	6.648	-0.003	22758916	0.0170			
2	2	7.869	7.869	0.000	21249524	0.0146			
						RPD = 15.53			

QC Flag Legend

Processing Flags
1 - Missing Peaks

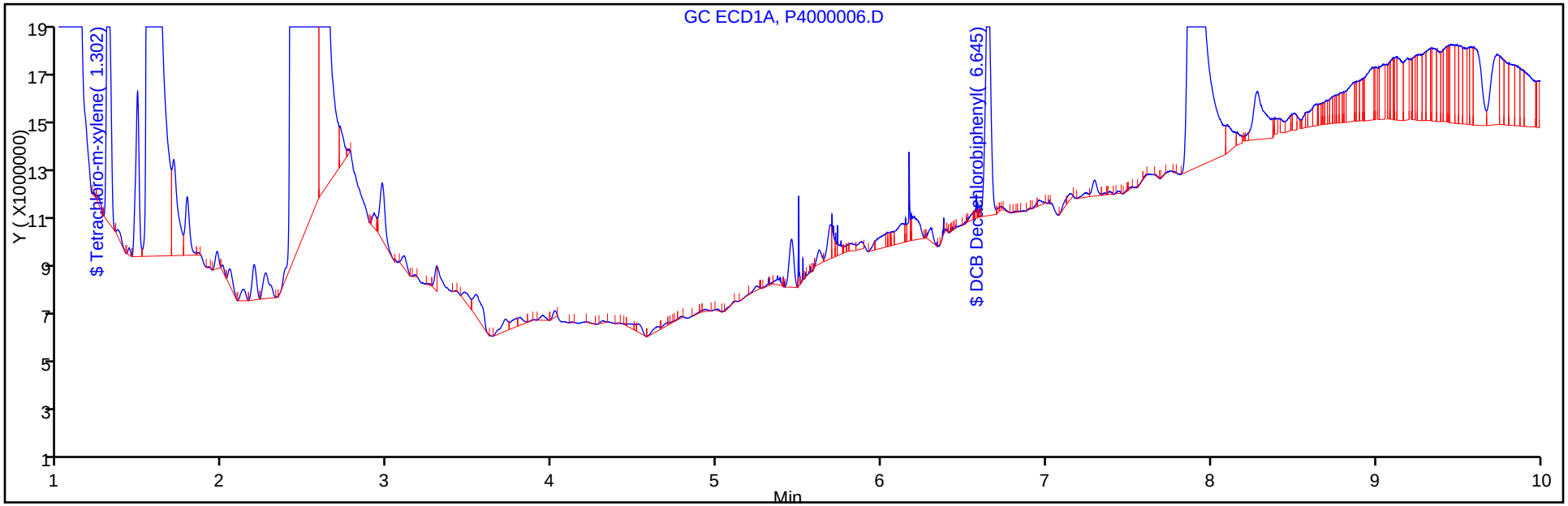
Report Date: 29-Apr-2013 15:57:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

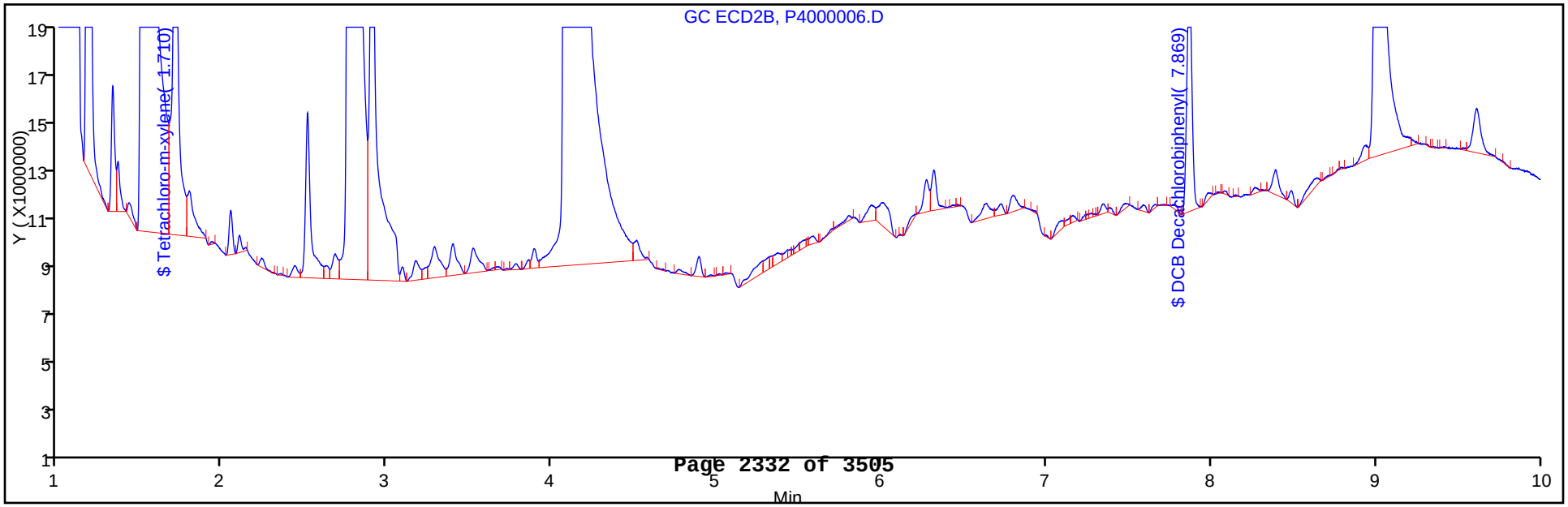
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000006.D

Injection Date:	29-Apr-2013 09:04:56	Limit Group:	GC 8082A ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0017M-0001-SO Lab Sample ID: 240-22663-31

Matrix: Solid Lab File ID: P4000005.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:42

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.42(g) Date Analyzed: 04/17/2013 11:12

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	58		40-140
2051-24-3	DCB Decachlorobiphenyl	71		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000005.D		
Lims ID:	240-22663-C-31-B	Client ID:	068SB-0017M-0001-SO
Inject. Date:	17-Apr-2013 11:12:55	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	82267	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:10

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.276	0.001	18305566	0.0116			
2	2	1.679	1.683	-0.004	18469826	0.0117			
						RPD = 1.26			
3 PCB-1221									1
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.918	3.915	0.003	678020	0.0109		100.0	
1	2	4.207	4.201	0.006	771543	0.007006	152.2- 202.2	113.8	
1	3	4.480	4.482	-0.002	1903336	0.0177	146.4- 196.4	280.7	
1	4	5.185	5.181	0.004	1275633	0.009860	180.7- 230.7	188.1	
1	5	5.466	5.465	0.001	1313796	0.0226	64.1- 114.1	193.8	
			Average of Peak Amounts =			0.0136			
2	6	4.940	4.943	-0.003	424516	0.006172		100.0	
2	7	0.0	5.173	-5.173	0	0	87.6- 147.6		
2	8	5.543	5.540	0.003	2100350	0.0178	144.7- 204.7	494.8	
2	9	6.229	6.226	0.003	2533041	0.0174	187.7- 247.7	596.7	
2	10	6.603	6.608	-0.005	1512975	0.0157	115.0- 175.0	356.4	
			Average of Peak Amounts =			0.0142			
						RPD = 4.67			
$ 12 DCB Decachlorobiphenyl									
1	100	6.625	6.618	0.007	19026548	0.0142			
2	2	7.840	7.842	-0.002	18687596	0.0128			
						RPD = 10.49			

QC Flag Legend

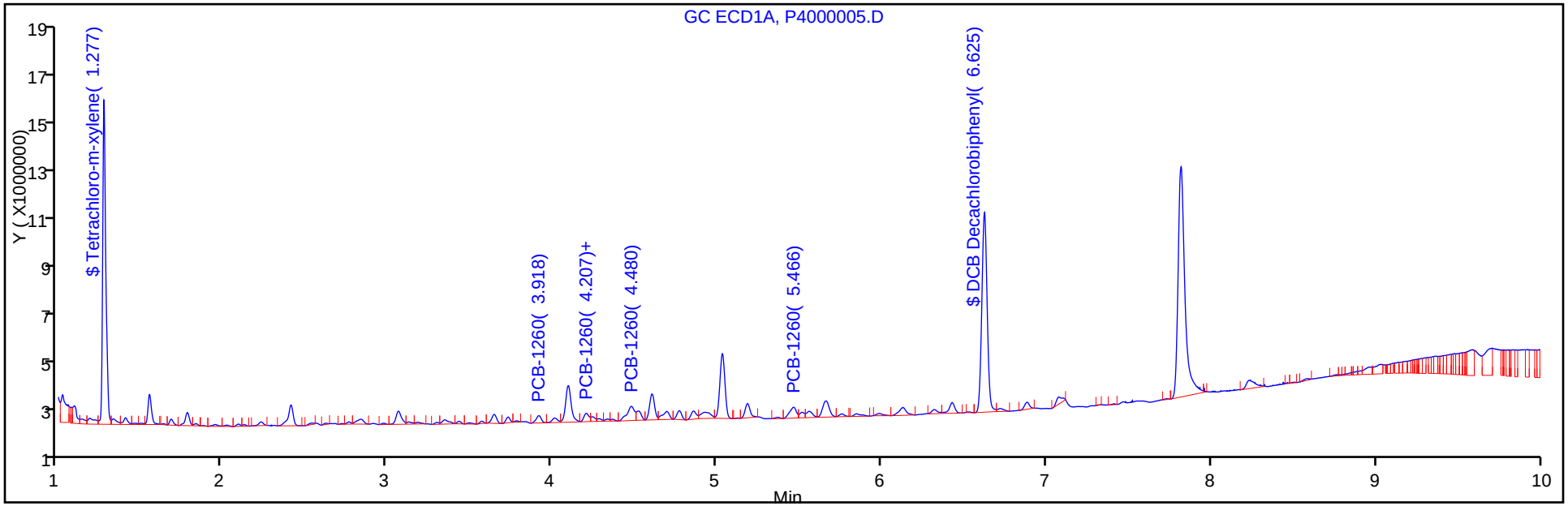
Processing Flags
1 - Missing Peaks

Report Date: 19-Apr-2013 09:25:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

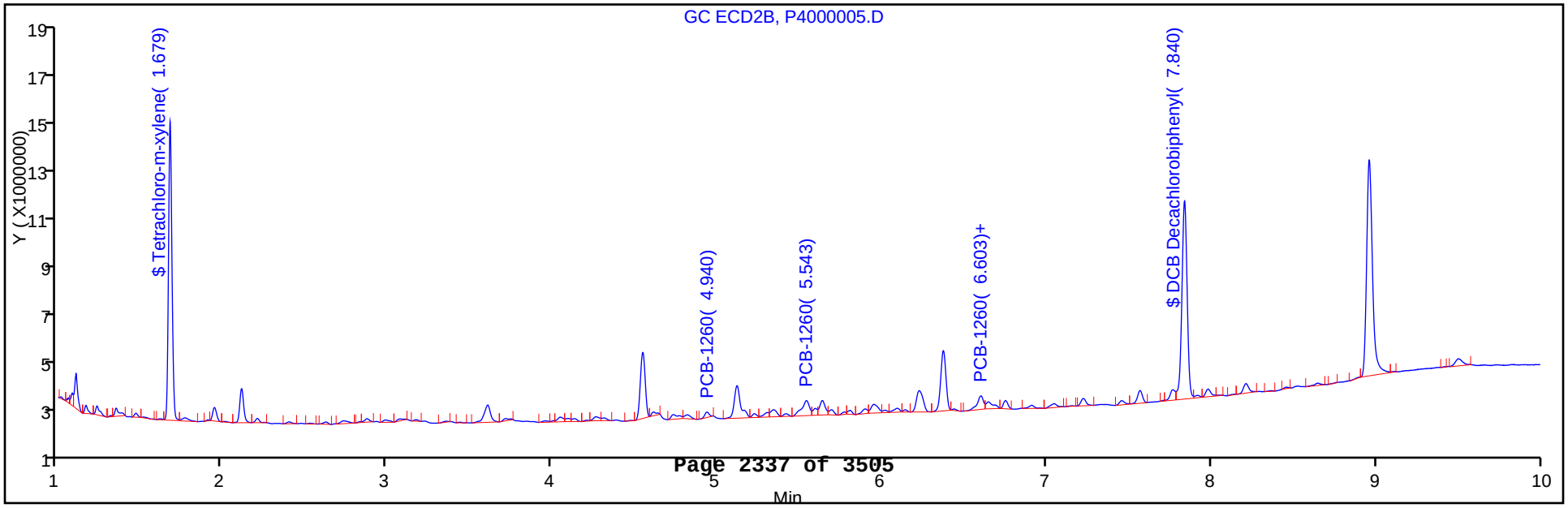
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000005.D		
Injection Date:	17-Apr-2013 11:12:55	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0017M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0017M-0001-SO Lab Sample ID: 240-22663-31

Matrix: Solid Lab File ID: P4000005.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:42

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.42(g) Date Analyzed: 04/17/2013 11:12

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	24	U	49	24	16
12674-11-2	Aroclor-1016	24	U	64	24	21
11141-16-5	Aroclor-1232	24	U	44	24	14
53469-21-9	Aroclor-1242	24	U	39	24	13
12672-29-6	Aroclor-1248	24	U	54	24	17
11097-69-1	Aroclor-1254	24	U	54	24	17
11096-82-5	Aroclor-1260	24	U	54	24	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		40-140
2051-24-3	DCB Decachlorobiphenyl	64		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000005.D		
Lims ID:	240-22663-C-31-B	Client ID:	068SB-0017M-0001-SO
Inject. Date:	17-Apr-2013 11:12:55	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-005		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	82267	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:10

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.276	0.001	18305566	0.0116			
2	2	1.679	1.683	-0.004	18469826	0.0117			
						RPD = 1.26			
3 PCB-1221									1
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Report Date: 19-Apr-2013 09:25:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000005.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.918	3.915	0.003	678020	0.0109		100.0	
1	2	4.207	4.201	0.006	771543	0.007006	152.2- 202.2	113.8	
1	3	4.480	4.482	-0.002	1903336	0.0177	146.4- 196.4	280.7	
1	4	5.185	5.181	0.004	1275633	0.009860	180.7- 230.7	188.1	
1	5	5.466	5.465	0.001	1313796	0.0226	64.1- 114.1	193.8	
			Average of Peak Amounts =			0.0136			
2	6	4.940	4.943	-0.003	424516	0.006172		100.0	
2	7	0.0	5.173	-5.173	0	0	87.6- 147.6		
2	8	5.543	5.540	0.003	2100350	0.0178	144.7- 204.7	494.8	
2	9	6.229	6.226	0.003	2533041	0.0174	187.7- 247.7	596.7	
2	10	6.603	6.608	-0.005	1512975	0.0157	115.0- 175.0	356.4	
			Average of Peak Amounts =			0.0142			
						RPD = 4.67			
$ 12 DCB Decachlorobiphenyl									
1	100	6.625	6.618	0.007	19026548	0.0142			
2	2	7.840	7.842	-0.002	18687596	0.0128			
						RPD = 10.49			

QC Flag Legend

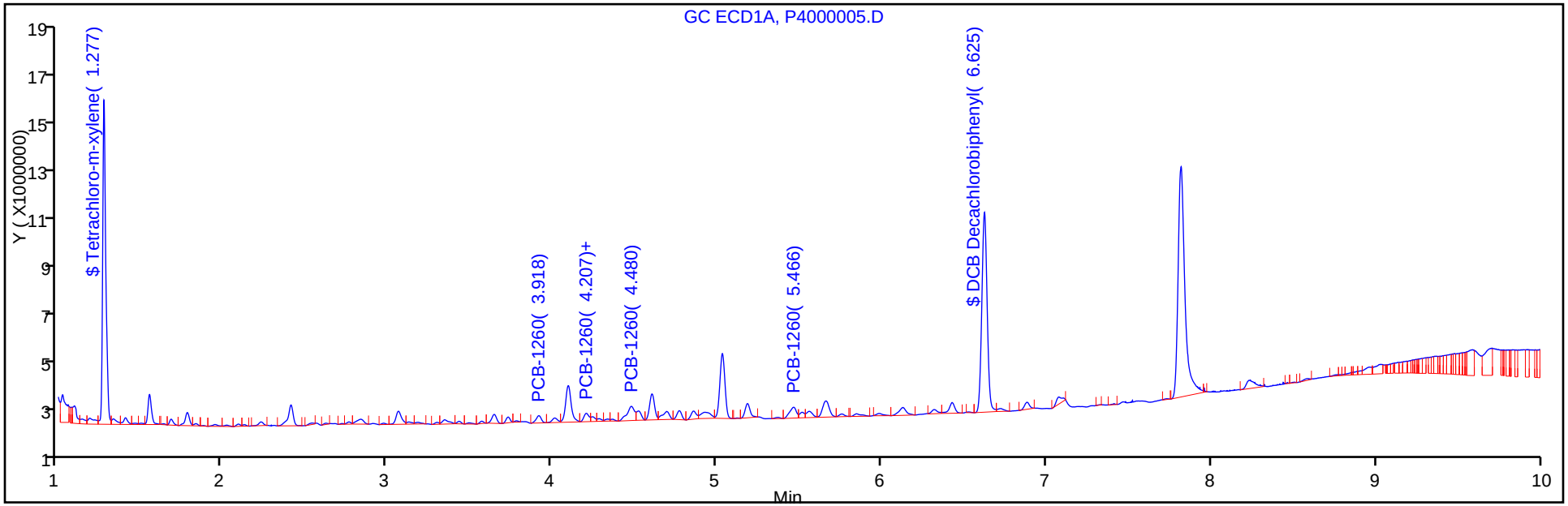
Processing Flags
1 - Missing Peaks

Report Date: 19-Apr-2013 09:25:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

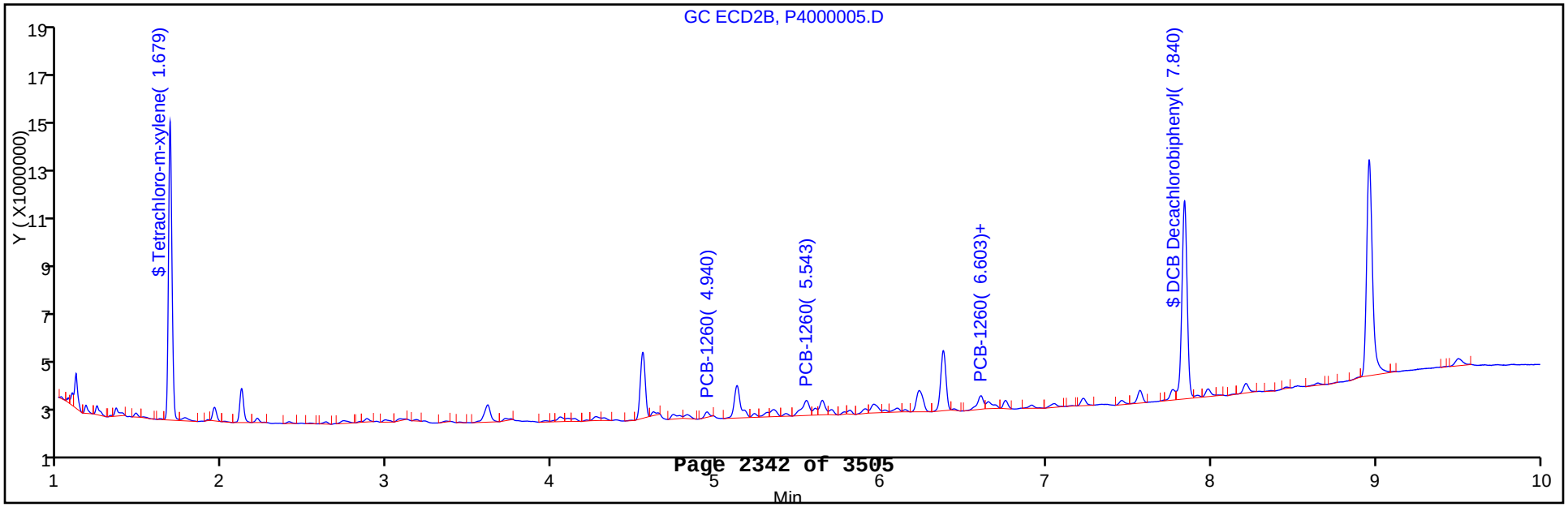
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000005.D		
Injection Date:	17-Apr-2013 11:12:55	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0017M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0018M-0001-SO Lab Sample ID: 240-22663-32

Matrix: Solid Lab File ID: P4000006.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:43

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.29(g) Date Analyzed: 04/17/2013 11:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		40-140
2051-24-3	DCB Decachlorobiphenyl	73		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000006.D		
Lims ID:	240-22663-C-32-B	Client ID:	068SB-0018M-0001-SO
Inject. Date:	17-Apr-2013 11:28:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	82267	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	19201525	0.0121			
2	2	1.681	1.683	-0.002	20574757	0.0130			
						RPD = 7.27			
3 PCB-1221									1
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.618	-0.001	19399327	0.0145			
2	2	7.839	7.842	-0.003	19444587	0.0133			
						RPD = 8.46			

QC Flag Legend

Processing Flags
1 - Missing Peaks

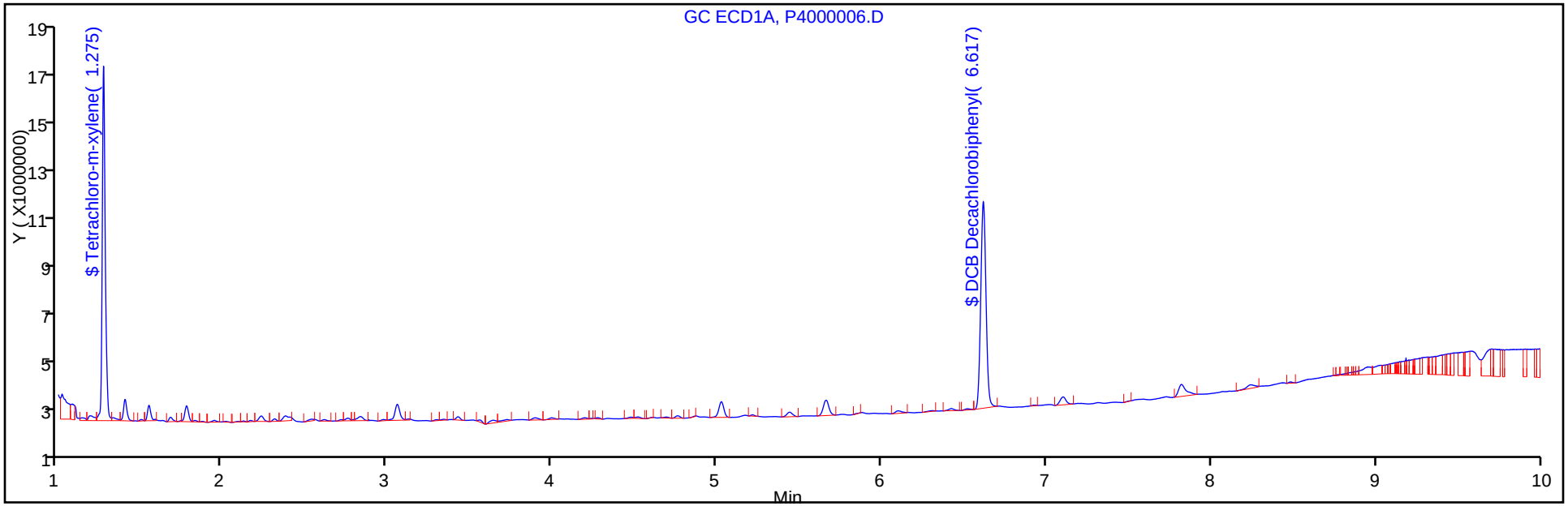
Report Date: 19-Apr-2013 09:25:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

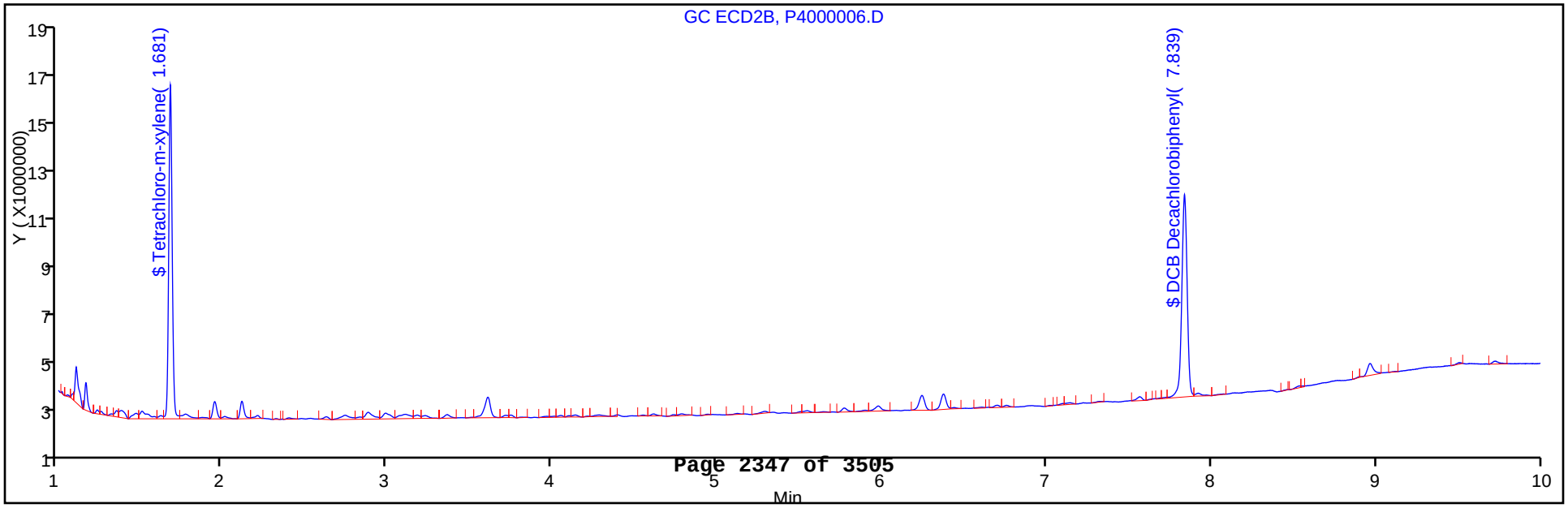
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000006.D

Injection Date:	17-Apr-2013 11:28:30	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0018M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0018M-0001-SO Lab Sample ID: 240-22663-32

Matrix: Solid Lab File ID: P4000006.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:43

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.29(g) Date Analyzed: 04/17/2013 11:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	64	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	54	25	17
11097-69-1	Aroclor-1254	25	U	54	25	17
11096-82-5	Aroclor-1260	25	U	54	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	65		40-140
2051-24-3	DCB Decachlorobiphenyl	67		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000006.D		
Lims ID:	240-22663-C-32-B	Client ID:	068SB-0018M-0001-SO
Inject. Date:	17-Apr-2013 11:28:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-006		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	82267	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	19201525	0.0121			
2	2	1.681	1.683	-0.002	20574757	0.0130			
						RPD = 7.27			
3 PCB-1221									1
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.617	6.618	-0.001	19399327	0.0145			
2	2	7.839	7.842	-0.003	19444587	0.0133			
						RPD = 8.46			

QC Flag Legend

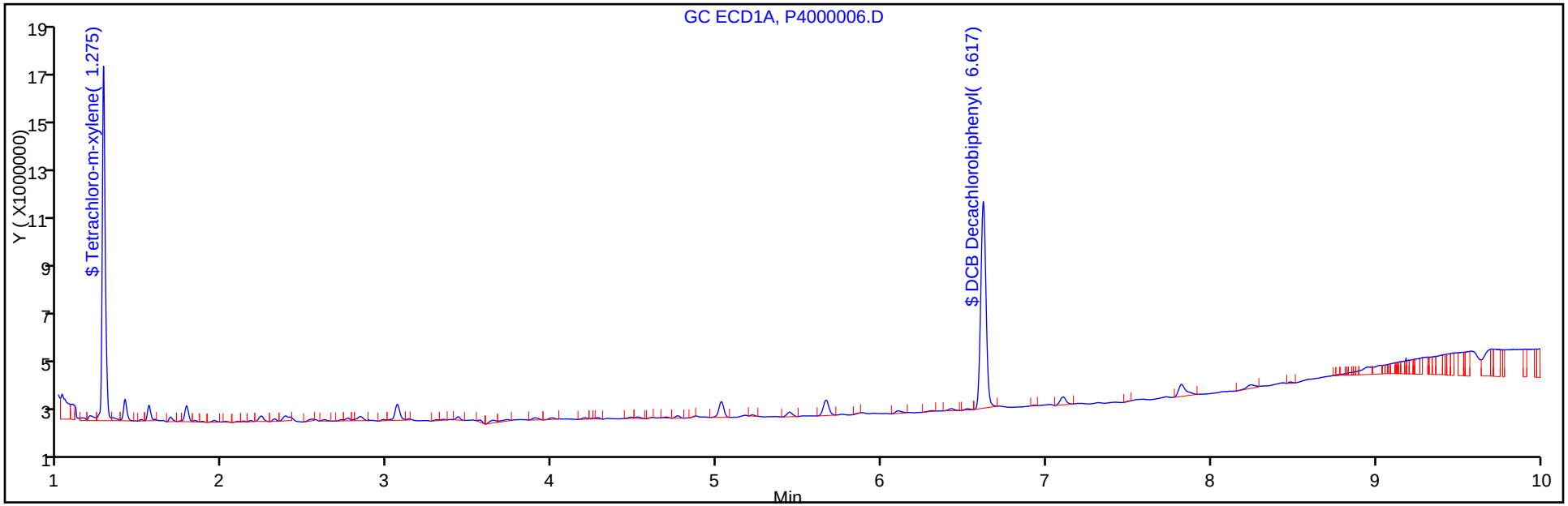
Processing Flags
1 - Missing Peaks

Report Date: 19-Apr-2013 09:25:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

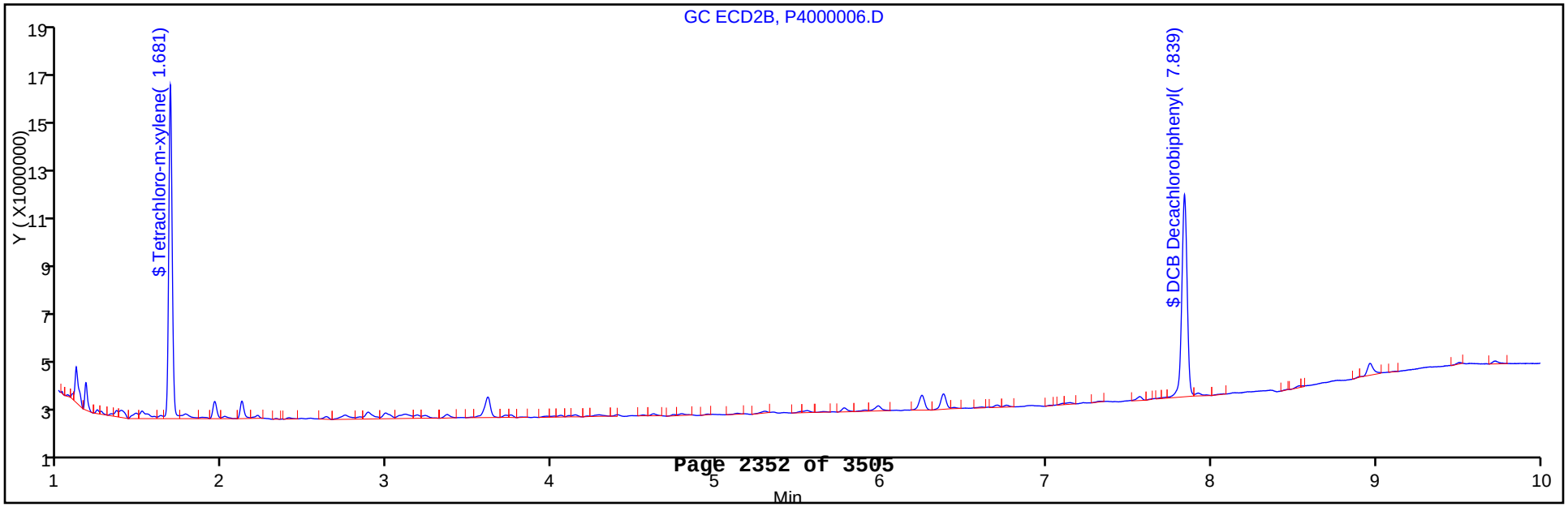
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000006.D		
Injection Date:	17-Apr-2013 11:28:30	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0018M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0019M-0001-SO Lab Sample ID: 240-22663-33

Matrix: Solid Lab File ID: P4000015.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:21

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.59(g) Date Analyzed: 04/17/2013 13:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	82		40-140
2051-24-3	DCB Decachlorobiphenyl	93		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000015.D		
Lims ID:	240-22663-C-33-B	Client ID:	068SB-0019M-0001-SO
Inject. Date:	17-Apr-2013 13:49:10	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0018945-015		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	15
Lims Batch ID:	82267	Lims Sample ID:	15
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:46:48

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	26110844	0.0165			
2	2	1.684	1.683	0.001	26397465	0.0167			
						RPD = 1.46			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

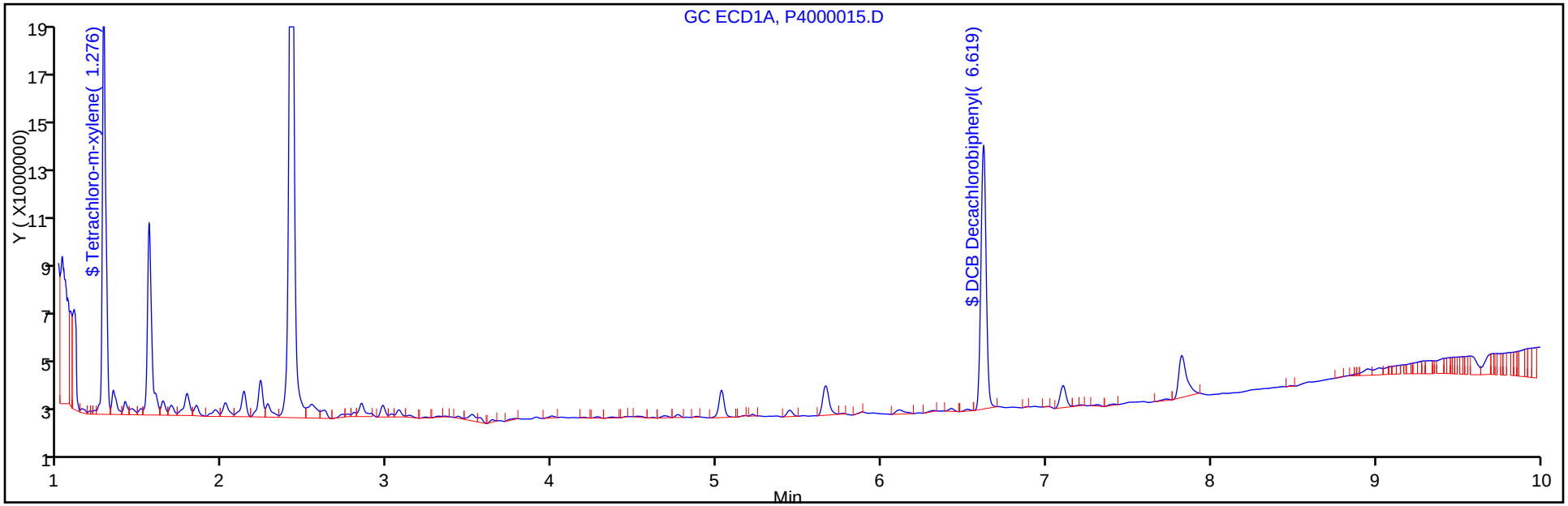
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	24750351	0.0185			
2	2	7.842	7.842	0.000	25487666	0.0175			
						RPD = 5.77			

Report Date: 19-Apr-2013 09:25:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

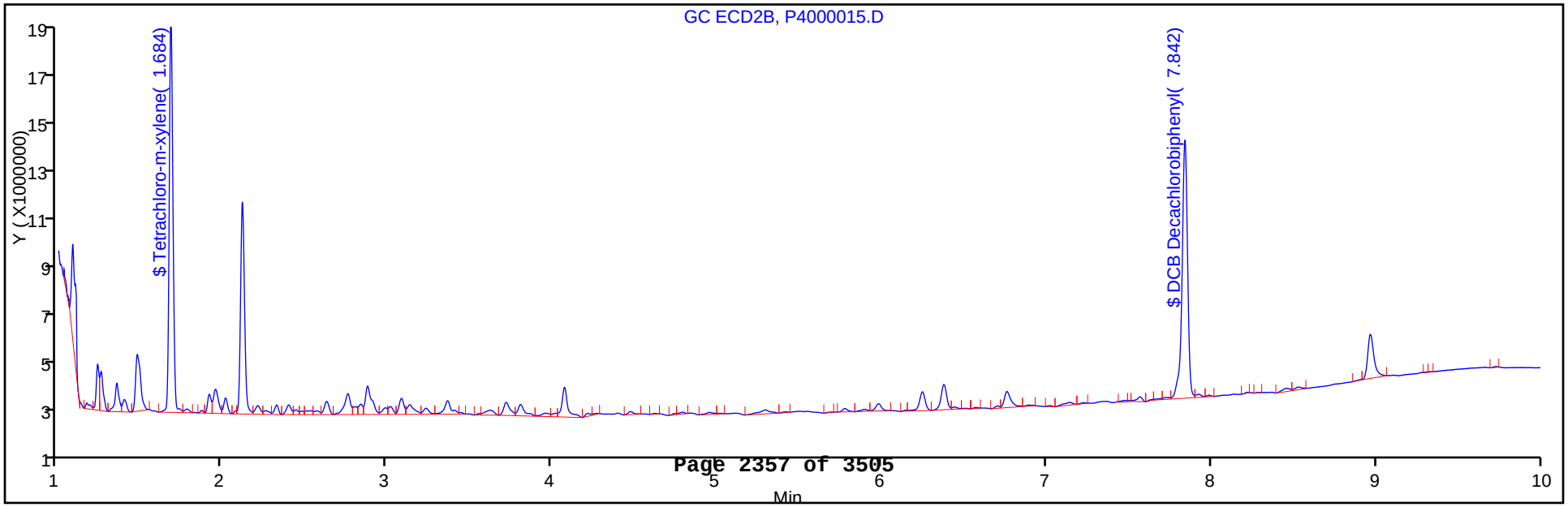
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000015.D		
Injection Date:	17-Apr-2013 13:49:10	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0019M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0019M-0001-SO Lab Sample ID: 240-22663-33

Matrix: Solid Lab File ID: P4000015.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:21

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.59(g) Date Analyzed: 04/17/2013 13:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	51	25	16
12674-11-2	Aroclor-1016	25	U	66	25	21
11141-16-5	Aroclor-1232	25	U	46	25	14
53469-21-9	Aroclor-1242	25	U	41	25	13
12672-29-6	Aroclor-1248	25	U	56	25	17
11097-69-1	Aroclor-1254	25	U	56	25	17
11096-82-5	Aroclor-1260	25	U	56	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		40-140
2051-24-3	DCB Decachlorobiphenyl	87		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000015.D		
Lims ID:	240-22663-C-33-B	Client ID:	068SB-0019M-0001-SO
Inject. Date:	17-Apr-2013 13:49:10	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0018945-015		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	15
Lims Batch ID:	82267	Lims Sample ID:	15
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:46:48

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	26110844	0.0165			
2	2	1.684	1.683	0.001	26397465	0.0167			
						RPD = 1.46			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

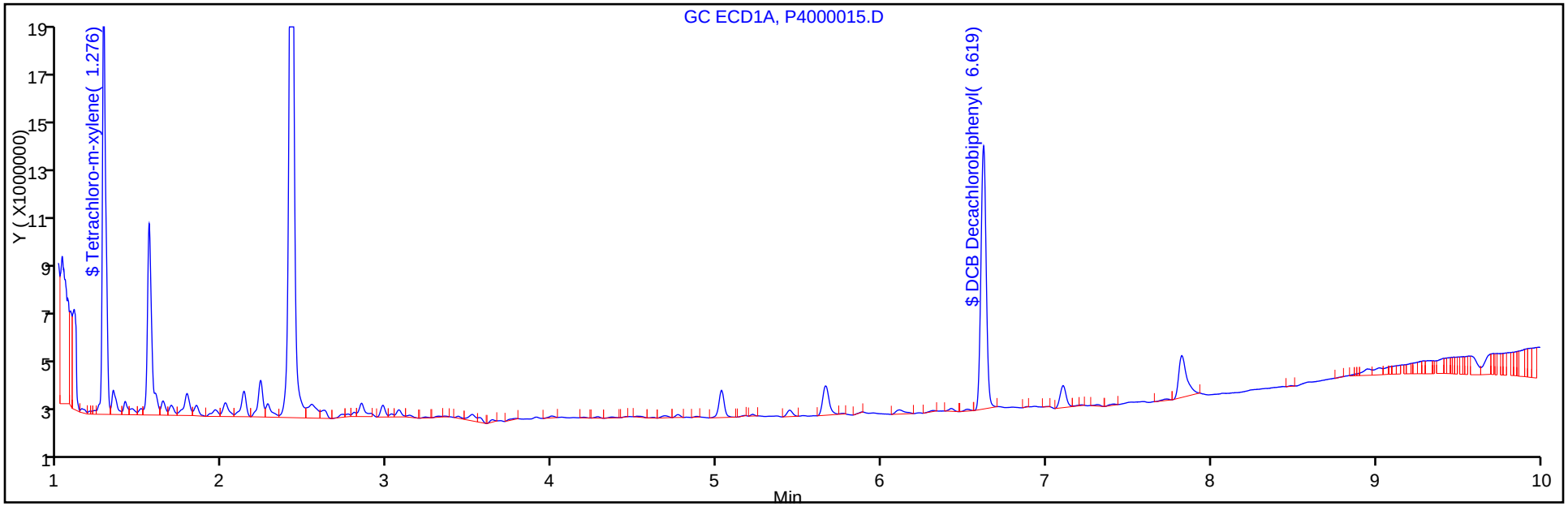
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	24750351	0.0185			
2	2	7.842	7.842	0.000	25487666	0.0175			
						RPD = 5.77			

Report Date: 19-Apr-2013 09:25:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

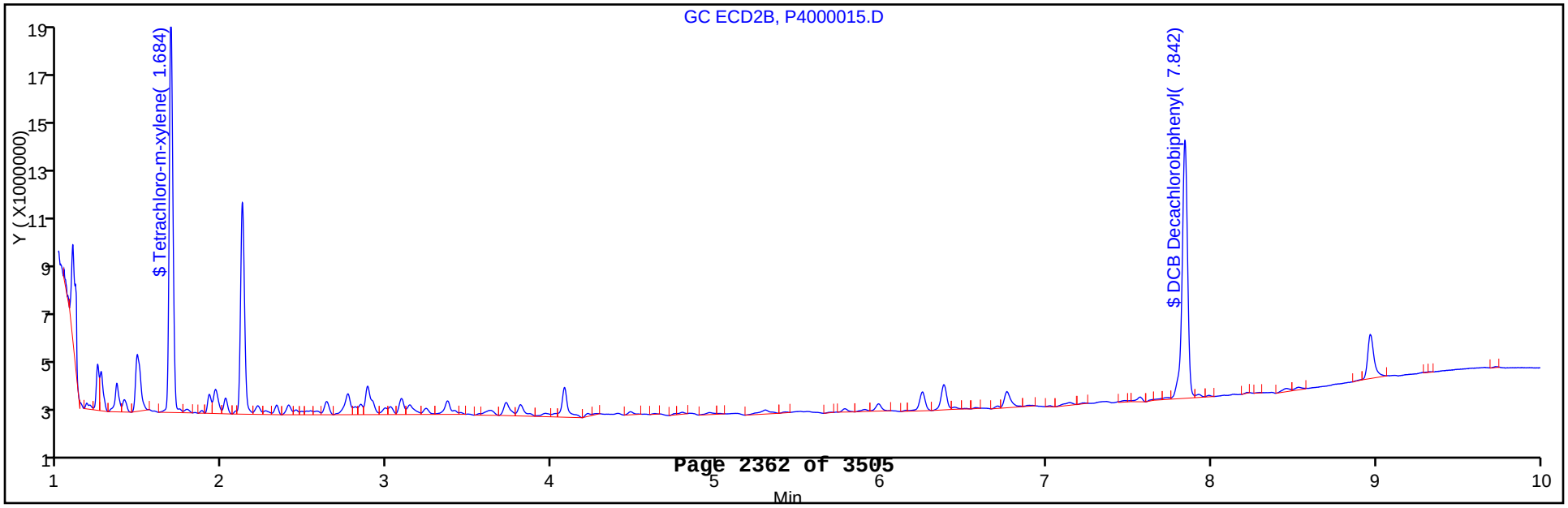
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000015.D		
Injection Date:	17-Apr-2013 13:49:10	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0019M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0022M-0001-SO Lab Sample ID: 240-22663-34

Matrix: Solid Lab File ID: P4000016.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:21

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.36(g) Date Analyzed: 04/17/2013 14:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		40-140
2051-24-3	DCB Decachlorobiphenyl	84		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000016.D		
Lims ID:	240-22663-C-34-B	Client ID:	068SB-0022M-0001-SO
Inject. Date:	17-Apr-2013 14:04:44	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0018945-016		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	16
Lims Batch ID:	82267	Lims Sample ID:	16
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	24173795	0.0153			
2	2	1.684	1.683	0.001	24930757	0.0158			
						RPD = 3.45			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

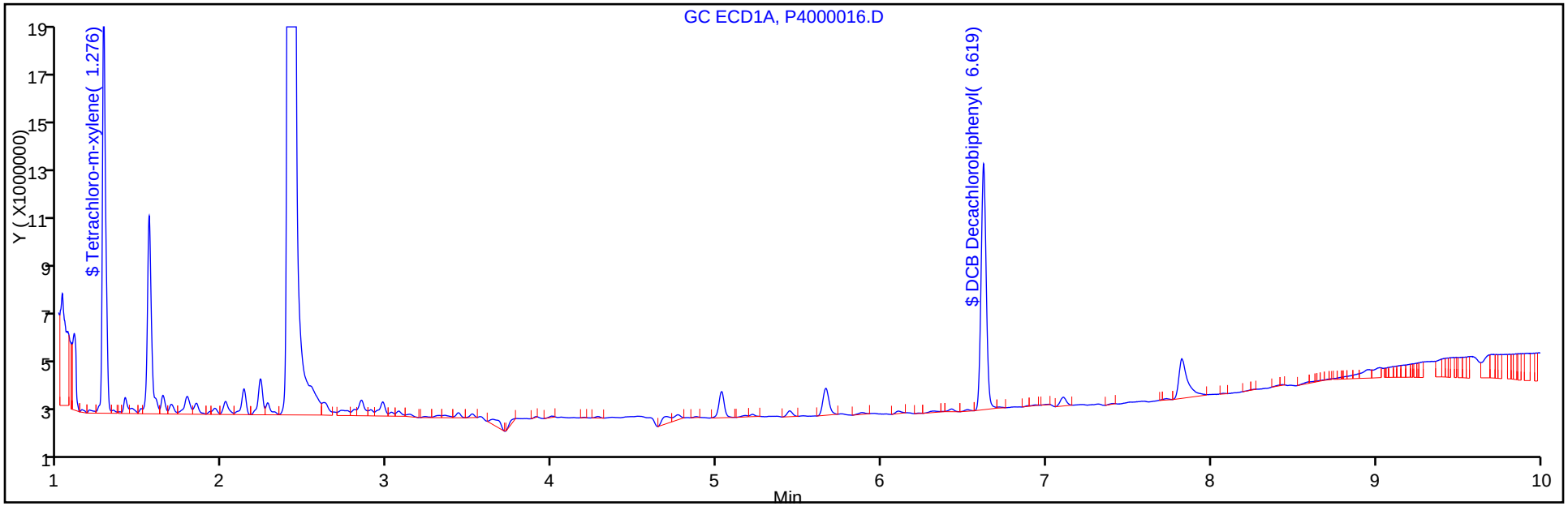
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	22505351	0.0169			
2	2	7.842	7.842	0.000	22023184	0.0151			
						RPD = 10.86			

Report Date: 19-Apr-2013 09:25:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

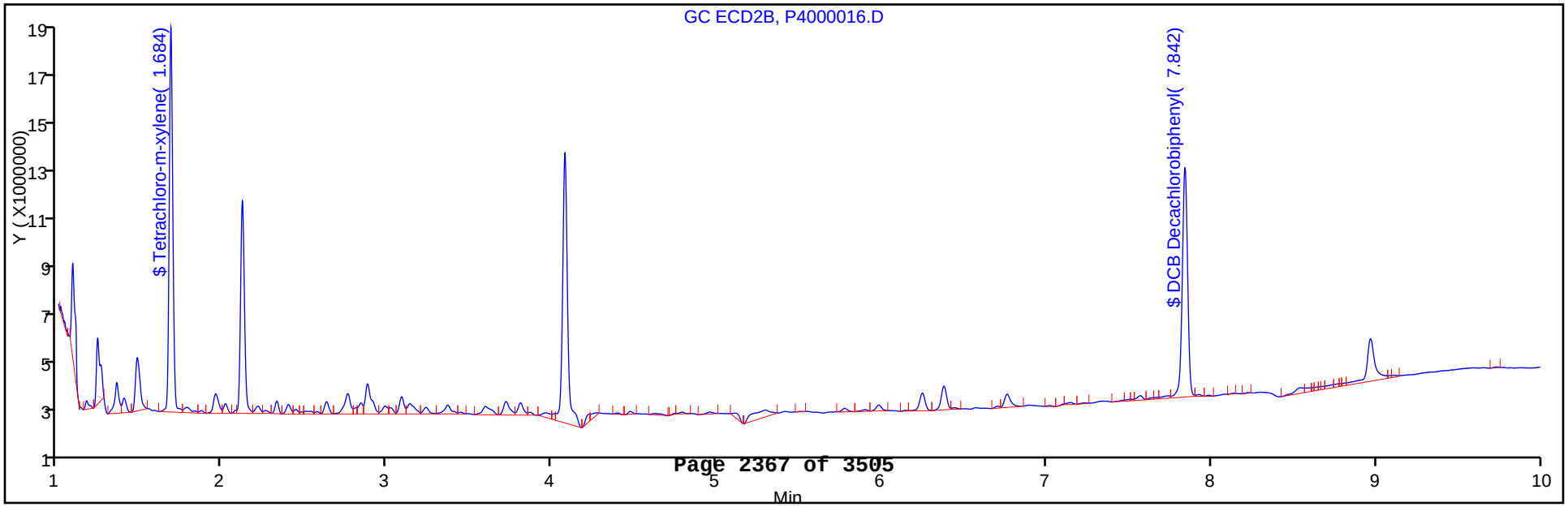
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000016.D		
Injection Date:	17-Apr-2013 14:04:44	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0022M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0022M-0001-SO Lab Sample ID: 240-22663-34

Matrix: Solid Lab File ID: P4000016.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:21

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.36(g) Date Analyzed: 04/17/2013 14:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	24	U	49	24	16
12674-11-2	Aroclor-1016	24	U	64	24	21
11141-16-5	Aroclor-1232	24	U	44	24	14
53469-21-9	Aroclor-1242	24	U	40	24	13
12672-29-6	Aroclor-1248	24	U	54	24	17
11097-69-1	Aroclor-1254	24	U	54	24	17
11096-82-5	Aroclor-1260	24	U	54	24	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		40-140
2051-24-3	DCB Decachlorobiphenyl	76		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000016.D		
Lims ID:	240-22663-C-34-B	Client ID:	068SB-0022M-0001-SO
Inject. Date:	17-Apr-2013 14:04:44	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0018945-016		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	16
Lims Batch ID:	82267	Lims Sample ID:	16
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	24173795	0.0153			
2	2	1.684	1.683	0.001	24930757	0.0158			
						RPD = 3.45			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

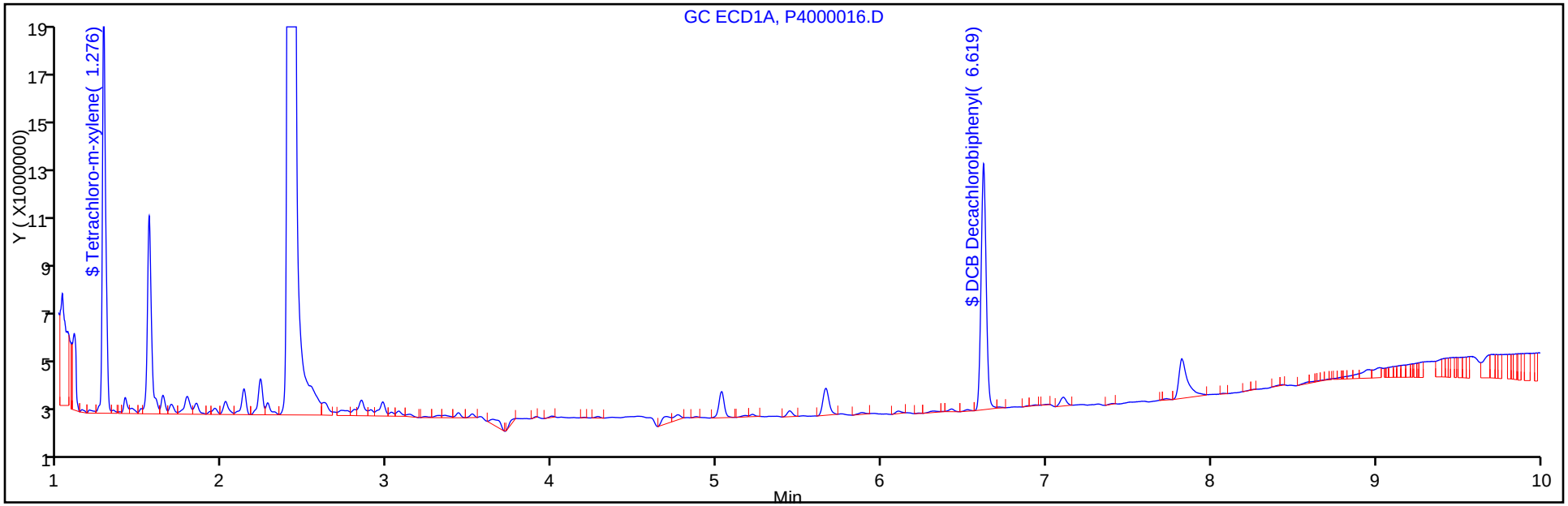
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	22505351	0.0169			
2	2	7.842	7.842	0.000	22023184	0.0151			
						RPD = 10.86			

Report Date: 19-Apr-2013 09:25:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

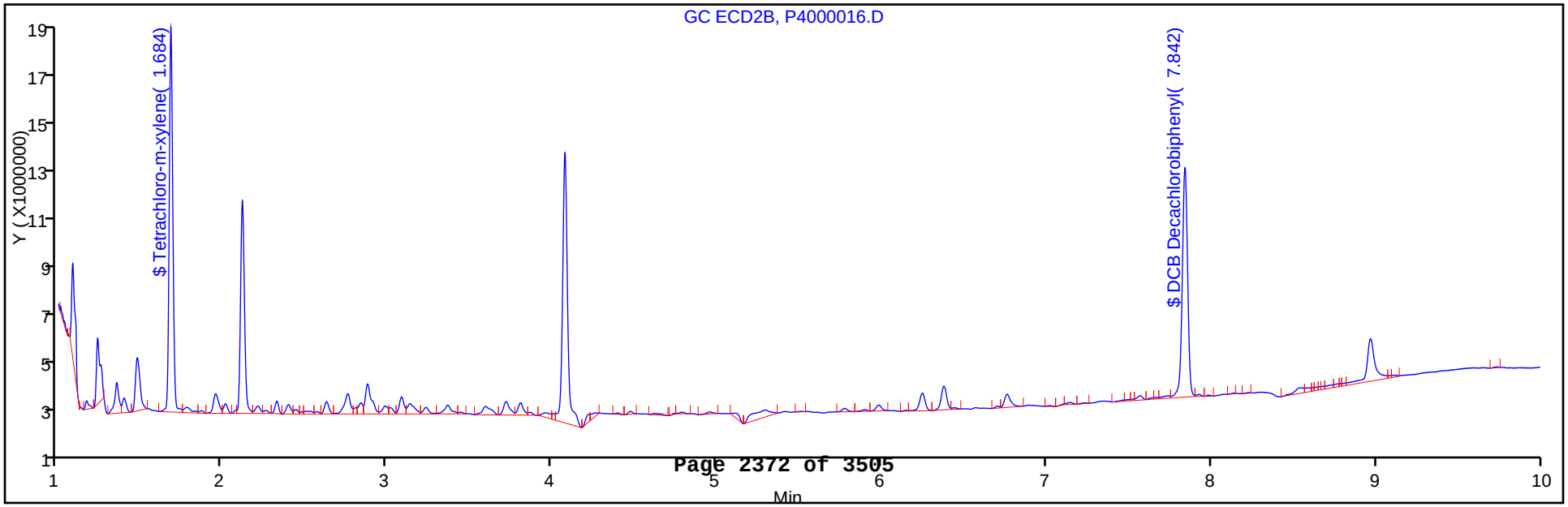
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000016.D		
Injection Date:	17-Apr-2013 14:04:44	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0022M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0020M-0001-SO Lab Sample ID: 240-22663-35

Matrix: Solid Lab File ID: P4000017.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:50

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.73(g) Date Analyzed: 04/17/2013 14:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		40-140
2051-24-3	DCB Decachlorobiphenyl	91		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000017.D		
Lims ID:	240-22663-C-35-B	Client ID:	068SB-0020M-0001-SO
Inject. Date:	17-Apr-2013 14:20:22	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0018945-017		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	17
Lims Batch ID:	82267	Lims Sample ID:	17
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:09

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	23940853	0.0151			
2	2	1.683	1.683	0.000	24907958	0.0158			
						RPD = 4.33			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

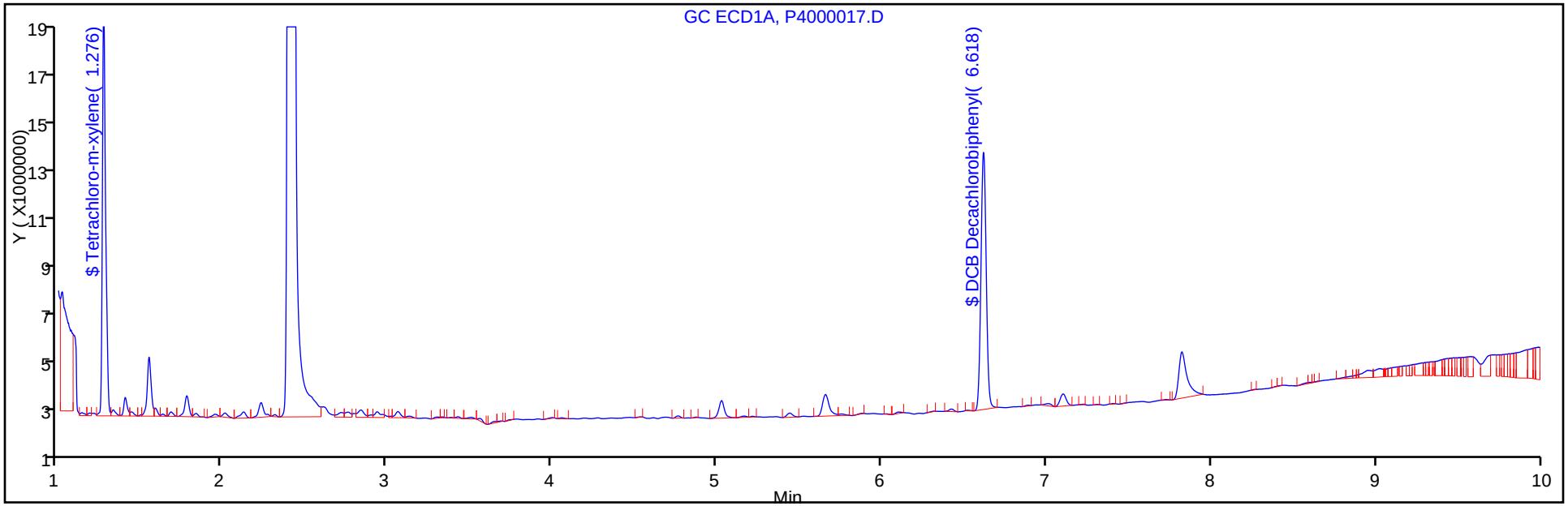
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.619	-0.001	24189723	0.0181			
2	2	7.841	7.842	-0.001	24292947	0.0167			
						RPD = 8.27			

Report Date: 19-Apr-2013 09:25:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

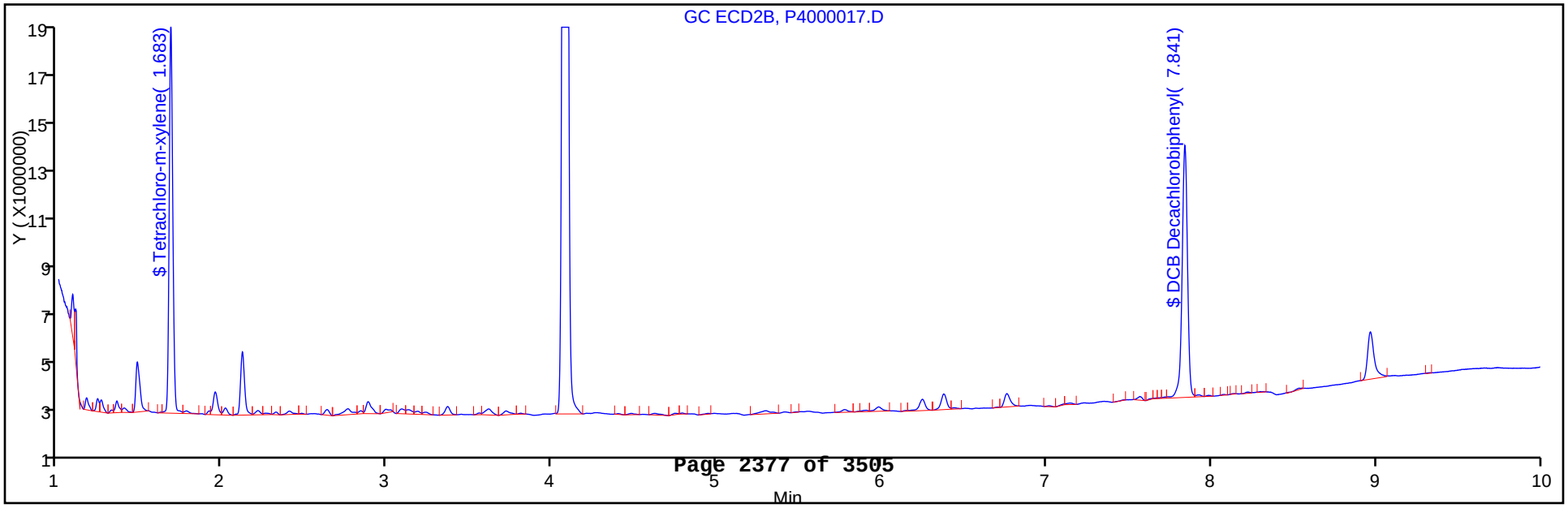
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000017.D		
Injection Date:	17-Apr-2013 14:20:22	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0020M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0020M-0001-SO | Lab Sample ID: 240-22663-35

Matrix: Solid | Lab File ID: P4000017.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 15:50

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.73(g) | Date Analyzed: 04/17/2013 14:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	66	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		40-140
2051-24-3	DCB Decachlorobiphenyl	83		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000017.D		
Lims ID:	240-22663-C-35-B	Client ID:	068SB-0020M-0001-SO
Inject. Date:	17-Apr-2013 14:20:22	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	240-0018945-017		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	17
Lims Batch ID:	82267	Lims Sample ID:	17
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:09

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	23940853	0.0151			
2	2	1.683	1.683	0.000	24907958	0.0158			
						RPD = 4.33			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.619	-0.001	24189723	0.0181			
2	2	7.841	7.842	-0.001	24292947	0.0167			
						RPD = 8.27			

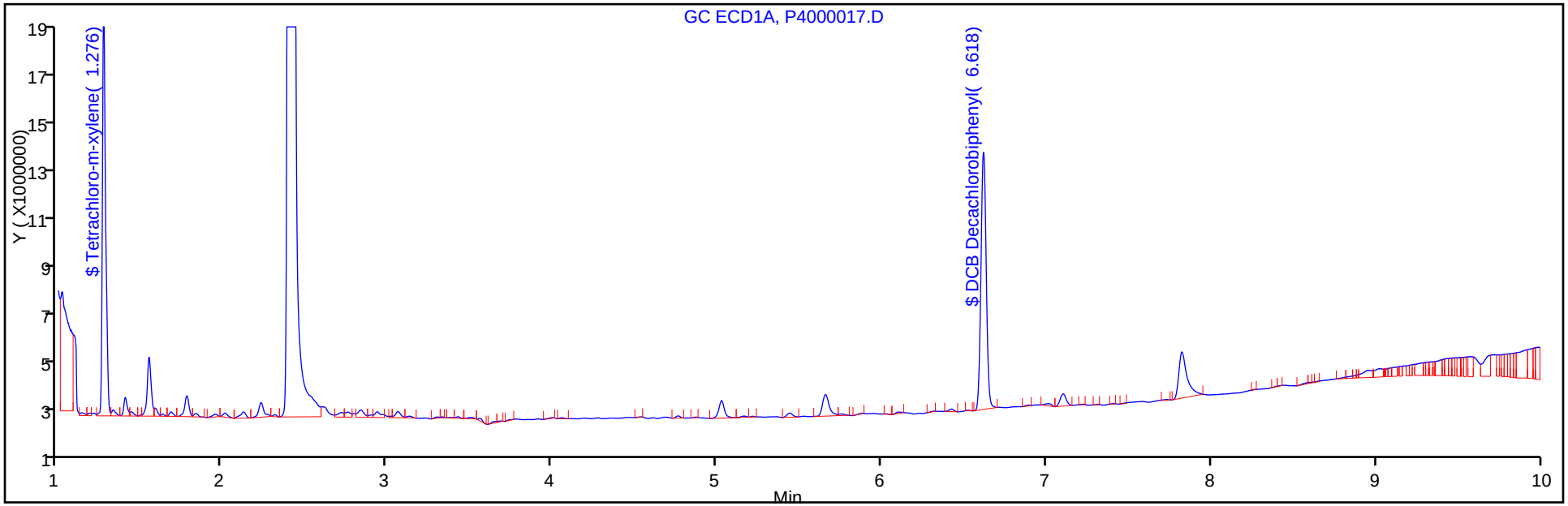
Report Date: 19-Apr-2013 09:25:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

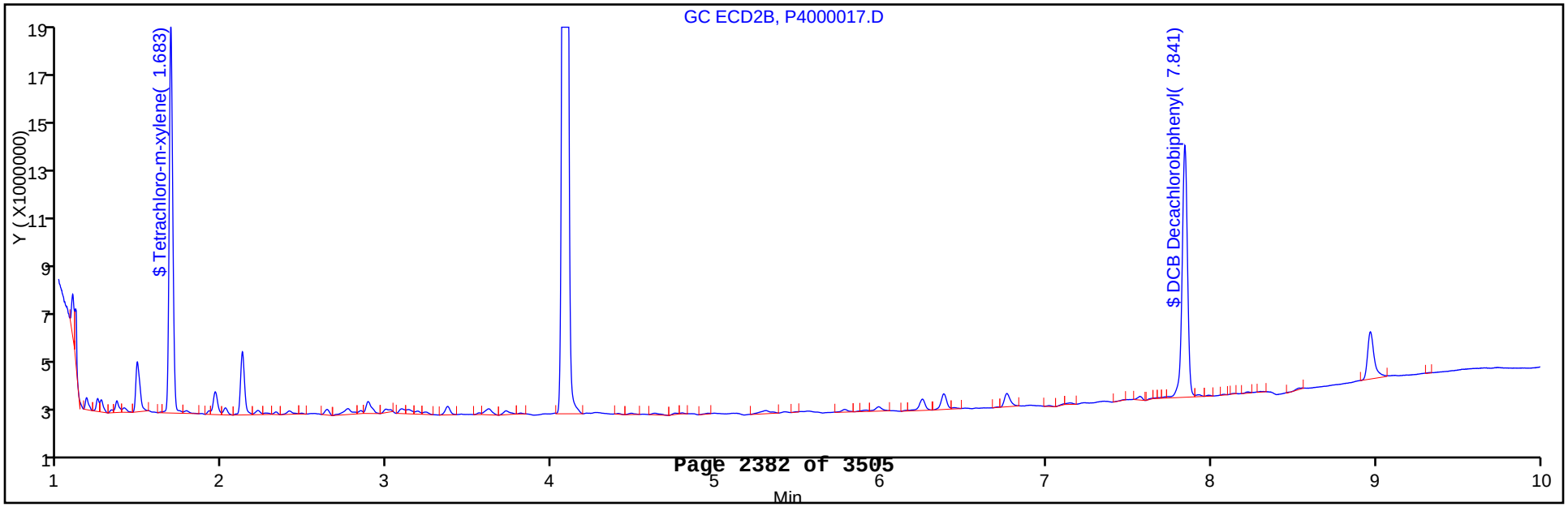
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000017.D

Injection Date:	17-Apr-2013 14:20:22	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0020M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0023M-0001-SO Lab Sample ID: 240-22663-36

Matrix: Solid Lab File ID: P4000018.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:40

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.89(g) Date Analyzed: 04/17/2013 14:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	72		40-140
2051-24-3	DCB Decachlorobiphenyl	82		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000018.D		
Lims ID:	240-22663-C-36-B	Client ID:	068SB-0023M-0001-SO
Inject. Date:	17-Apr-2013 14:35:58	Dil. Factor:	100.0000
Sample Type:	Client		
Sample ID:	240-0018945-018		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	18
Lims Batch ID:	82267	Lims Sample ID:	18
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	22710906	0.0143			
2	2	1.684	1.683	0.001	24079625	0.0153			
						RPD = 6.22			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	21881691	0.0164			
2	2	7.843	7.842	0.001	21768928	0.0149			
						RPD = 9.21			

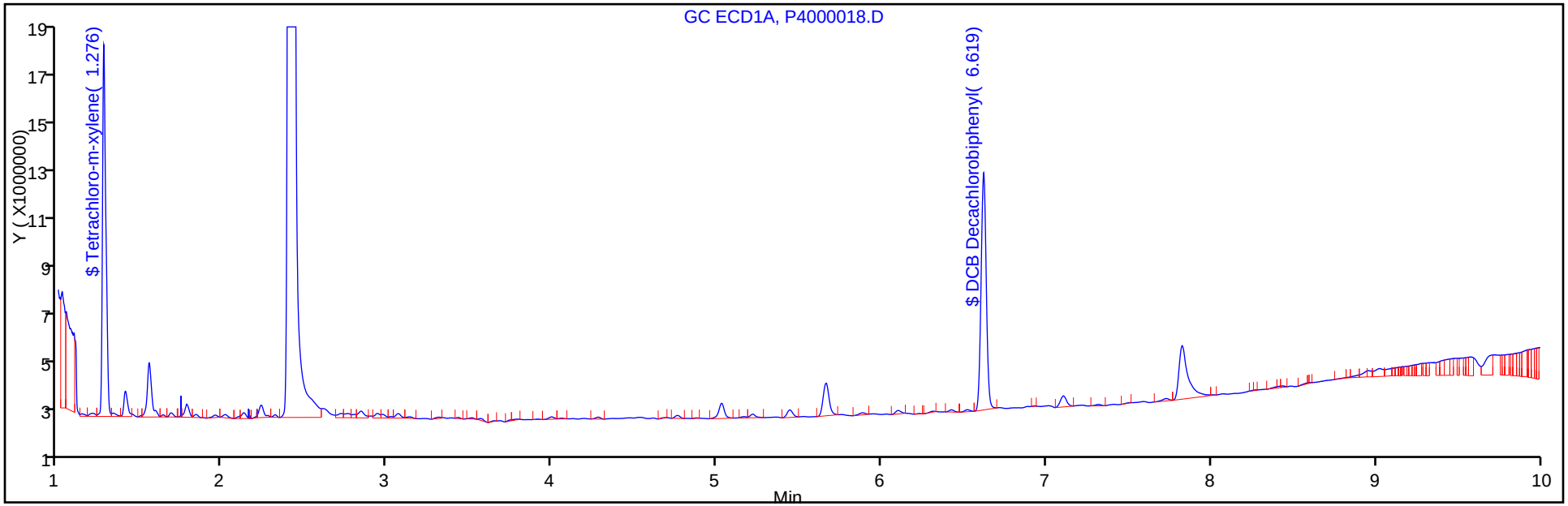
Report Date: 19-Apr-2013 09:25:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

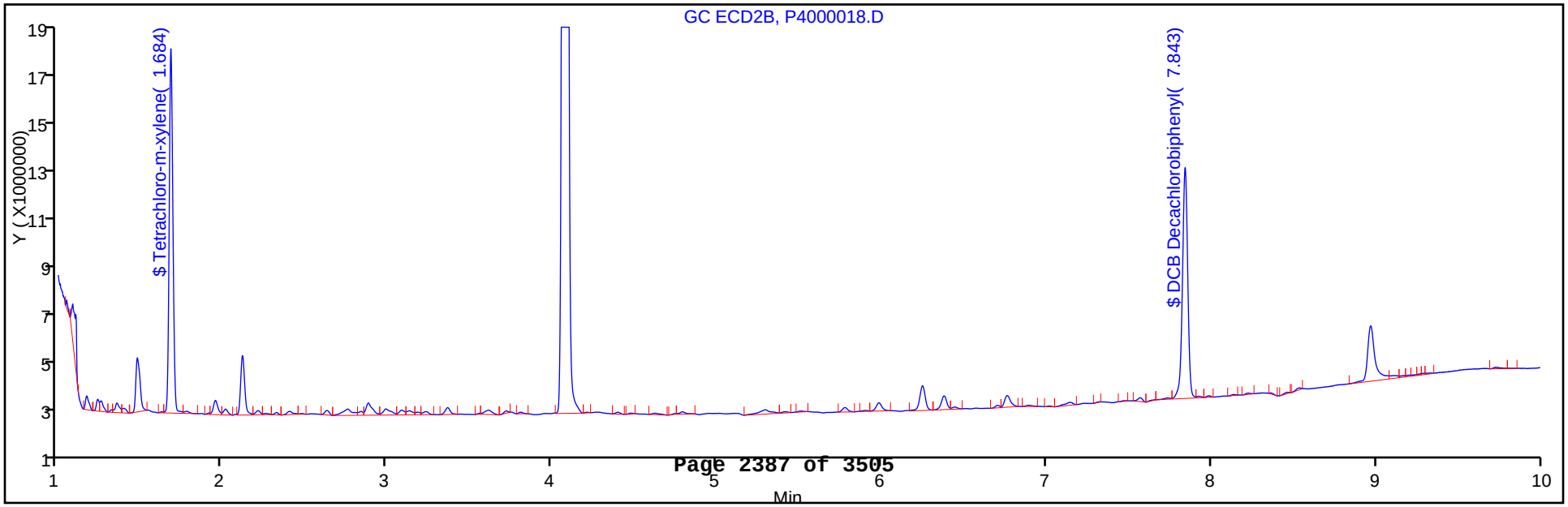
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000018.D

Injection Date:	17-Apr-2013 14:35:58	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0023M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0023M-0001-SO | Lab Sample ID: 240-22663-36

Matrix: Solid | Lab File ID: P4000018.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 14:40

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.89(g) | Date Analyzed: 04/17/2013 14:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	76		40-140
2051-24-3	DCB Decachlorobiphenyl	75		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000018.D		
Lims ID:	240-22663-C-36-B	Client ID:	068SB-0023M-0001-SO
Inject. Date:	17-Apr-2013 14:35:58	Dil. Factor:	100.0000
Sample Type:	Client		
Sample ID:	240-0018945-018		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	18
Lims Batch ID:	82267	Lims Sample ID:	18
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	22710906	0.0143			
2	2	1.684	1.683	0.001	24079625	0.0153			
						RPD = 6.22			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

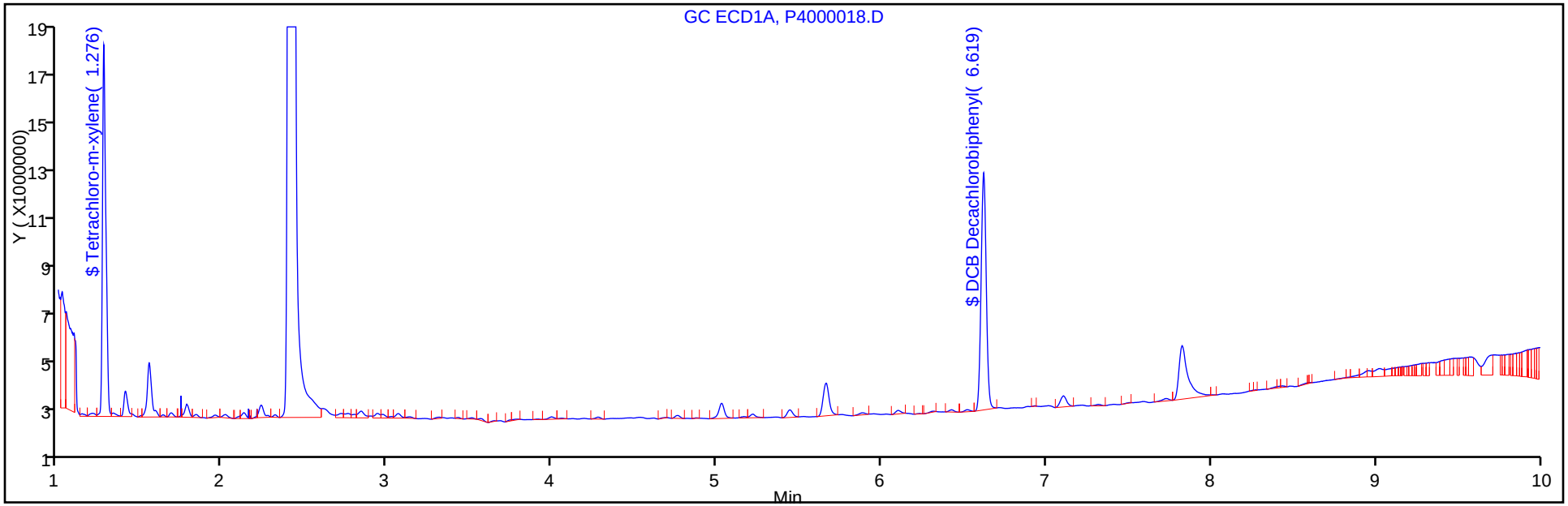
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	21881691	0.0164			
2	2	7.843	7.842	0.001	21768928	0.0149			
						RPD = 9.21			

Report Date: 19-Apr-2013 09:25:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

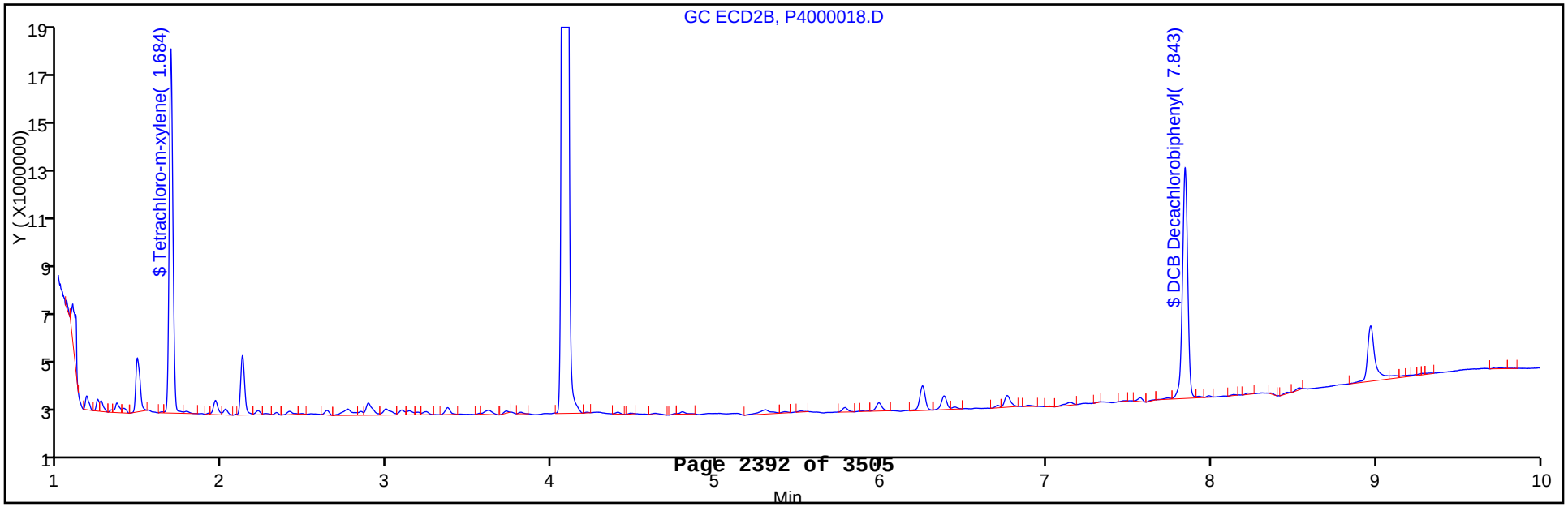
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000018.D		
Injection Date:	17-Apr-2013 14:35:58	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0023M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0024M-0001-SO Lab Sample ID: 240-22663-37

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:20

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.05(g) Date Analyzed: 04/17/2013 11:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		40-140
2051-24-3	DCB Decachlorobiphenyl	75		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000007.D		
Lims ID:	240-22663-C-37-B	Client ID:	068SB-0024M-0001-SO
Inject. Date:	17-Apr-2013 11:44:02	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-007		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	82267	Lims Sample ID:	7
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	19182343	0.0121			
2	2	1.682	1.683	-0.001	20128578	0.0128			
						RPD = 5.18			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	19922368	0.0149			
2	2	7.840	7.842	-0.002	19955131	0.0137			
						RPD = 8.53			

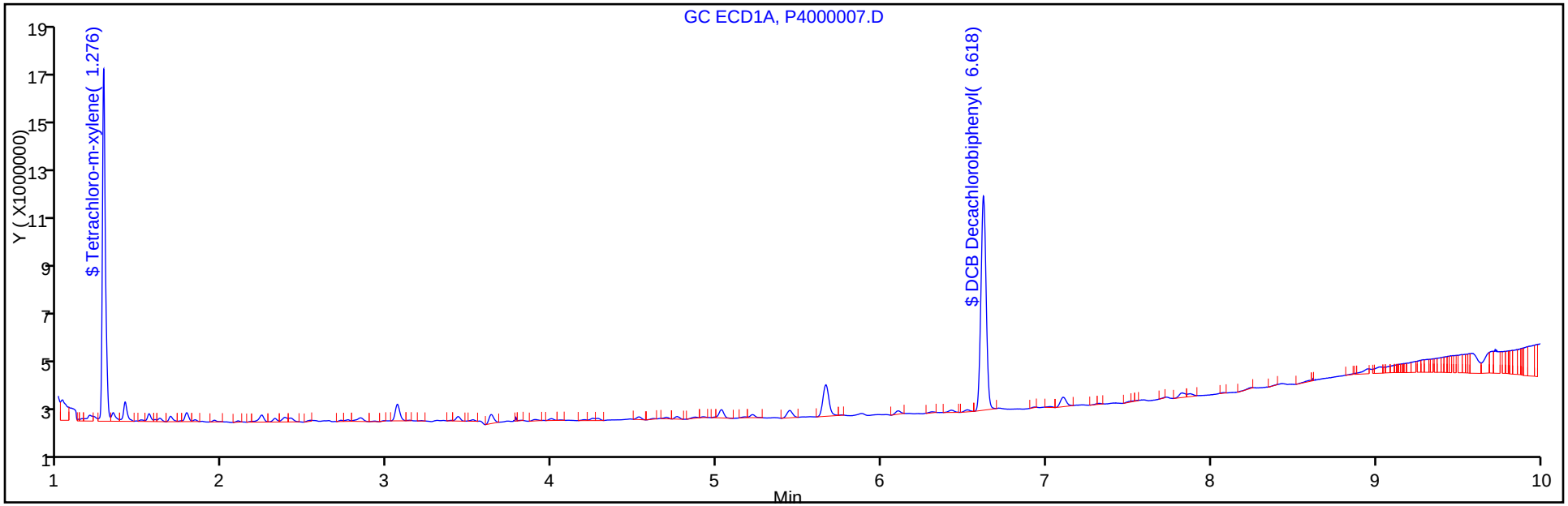
Report Date: 19-Apr-2013 09:25:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

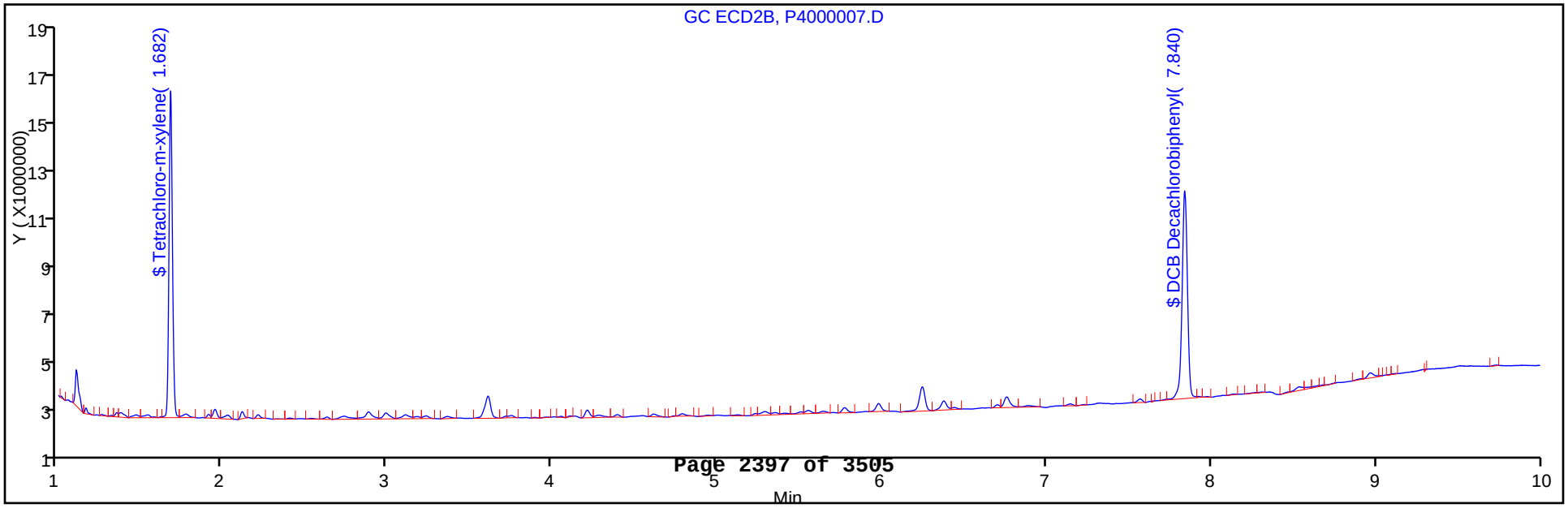
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000007.D

Injection Date:	17-Apr-2013 11:44:02	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0024M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0024M-0001-SO Lab Sample ID: 240-22663-37

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:20

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.05(g) Date Analyzed: 04/17/2013 11:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	64		40-140
2051-24-3	DCB Decachlorobiphenyl	68		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000007.D		
Lims ID:	240-22663-C-37-B	Client ID:	068SB-0024M-0001-SO
Inject. Date:	17-Apr-2013 11:44:02	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-007		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	82267	Lims Sample ID:	7
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:22

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	19182343	0.0121			
2	2	1.682	1.683	-0.001	20128578	0.0128			
						RPD = 5.18			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	19922368	0.0149			
2	2	7.840	7.842	-0.002	19955131	0.0137			
						RPD = 8.53			

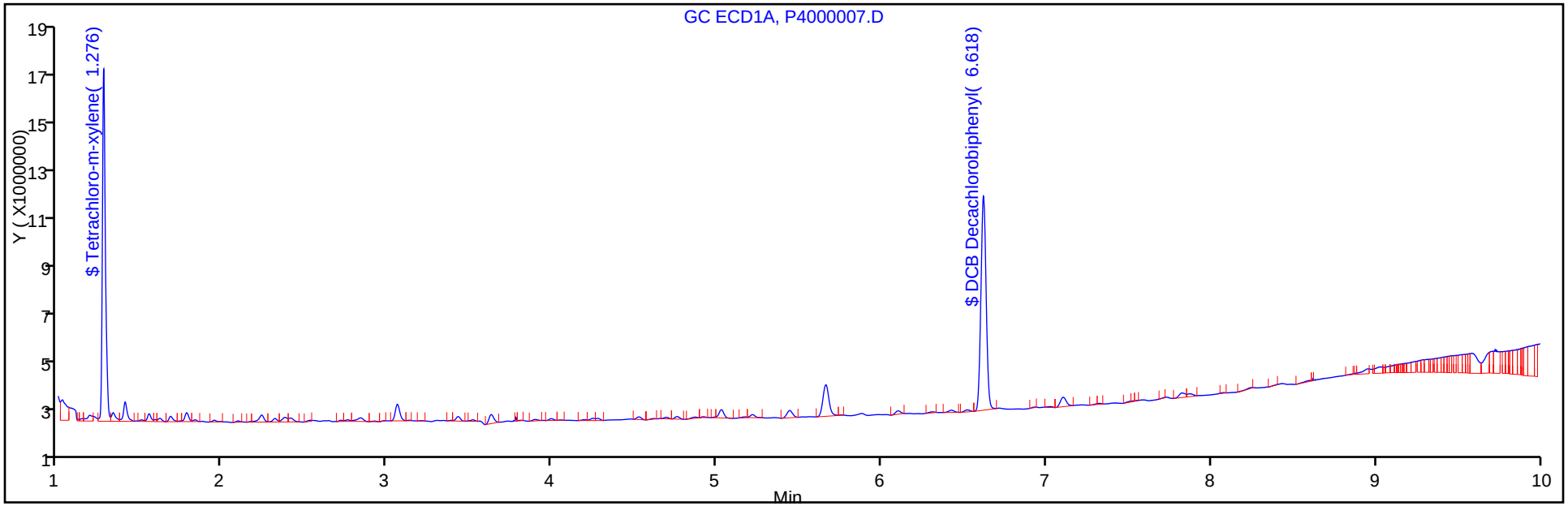
Report Date: 19-Apr-2013 09:25:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

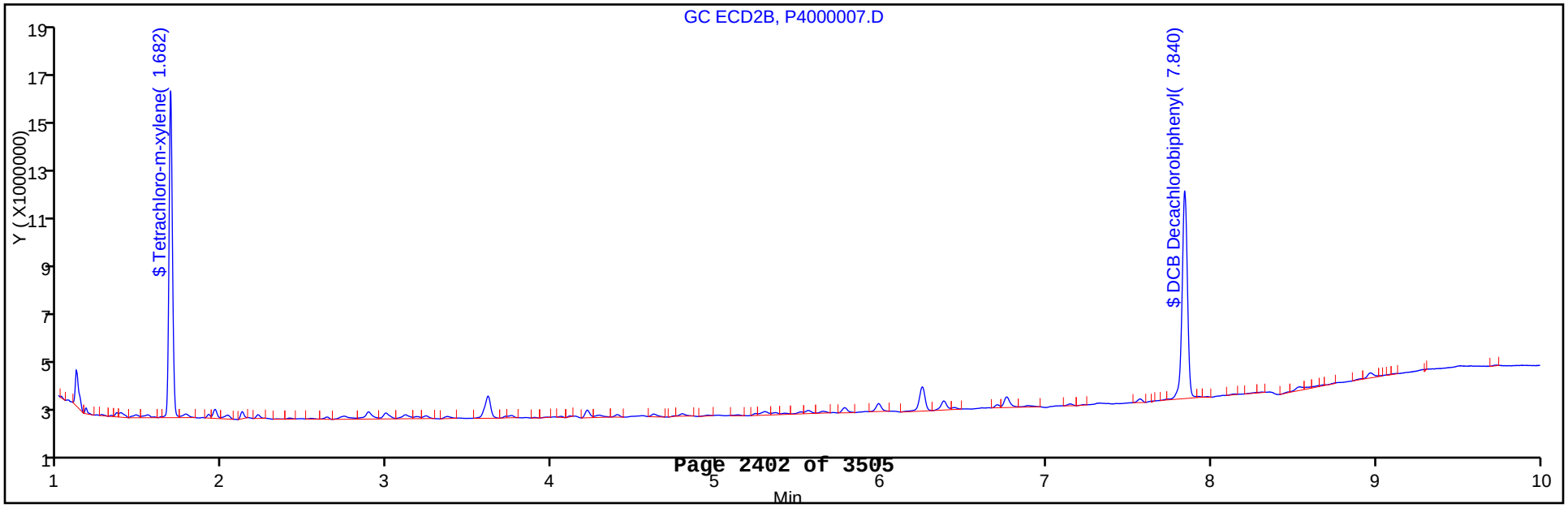
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000007.D

Injection Date:	17-Apr-2013 11:44:02	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0024M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0025M-0001-SO Lab Sample ID: 240-22663-38

Matrix: Solid Lab File ID: P4000008.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:45

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.07(g) Date Analyzed: 04/17/2013 11:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	66		40-140
2051-24-3	DCB Decachlorobiphenyl	80		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000008.D		
Lims ID:	240-22663-C-38-B	Client ID:	068SB-0025M-0001-SO
Inject. Date:	17-Apr-2013 11:59:38	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	82267	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		
First Level Reviewer: hassl		Date:	19-Apr-2013 08:41:31

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	20965632	0.0132			
2	2	1.682	1.683	-0.001	23513369	0.0149			
						RPD = 11.82			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	21404271	0.0160			
2	2	7.841	7.842	-0.001	20933567	0.0144			
						RPD = 10.92			

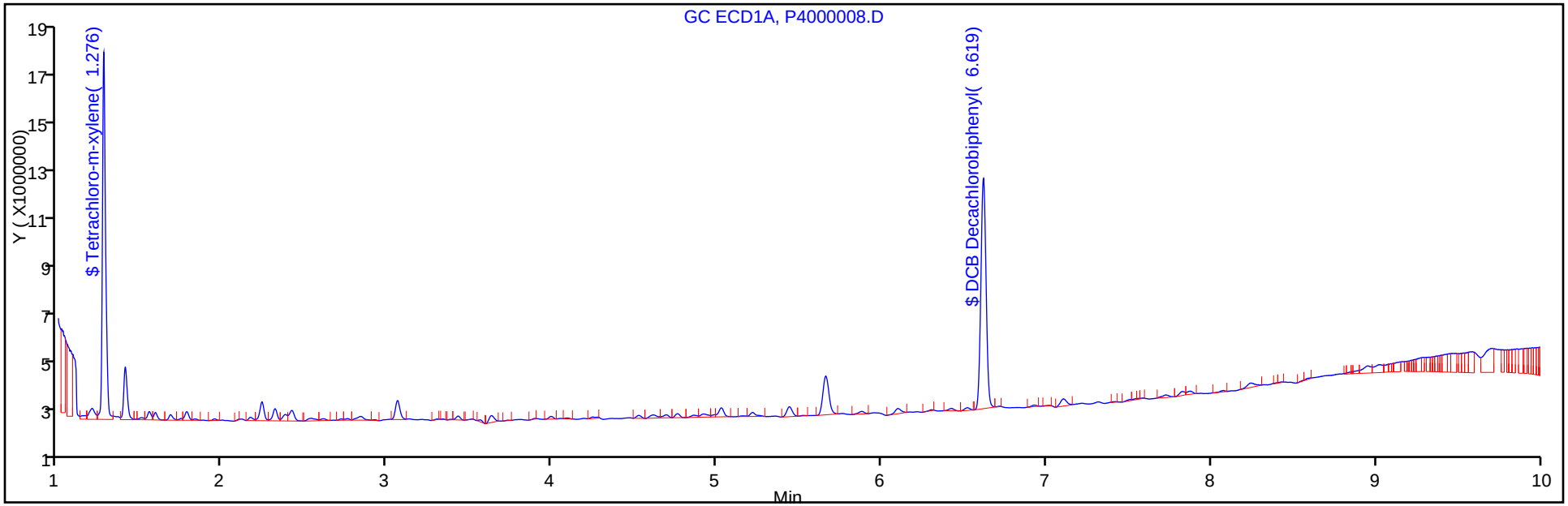
Report Date: 19-Apr-2013 09:25:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

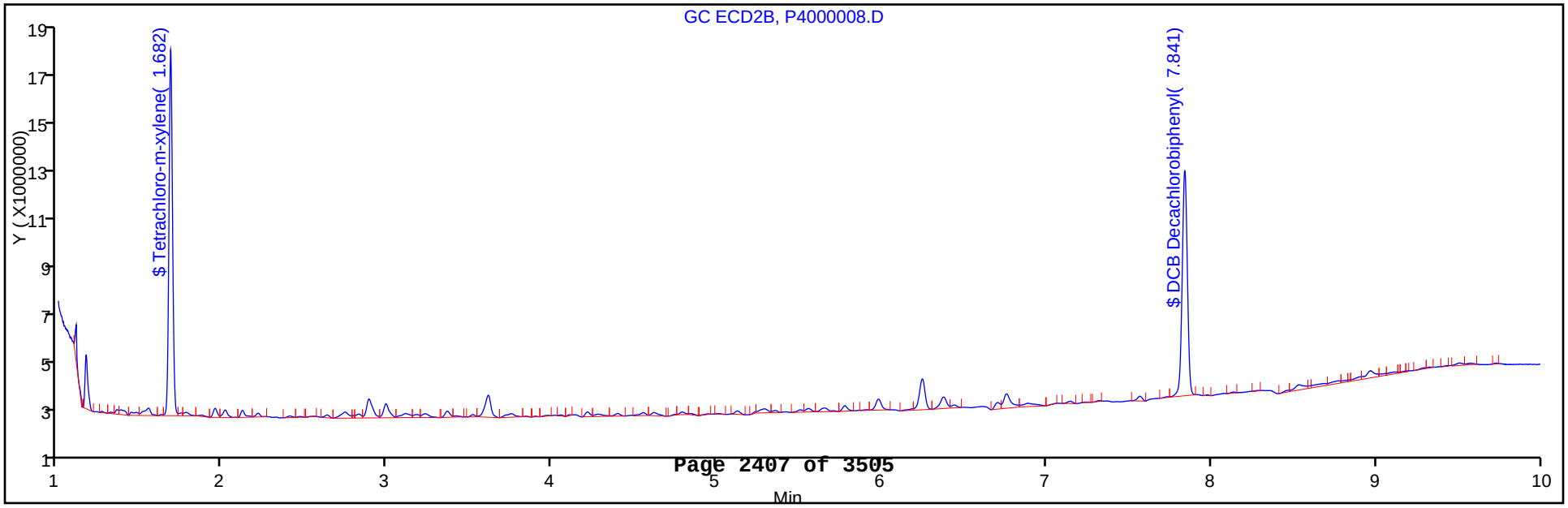
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000008.D

Injection Date:	17-Apr-2013 11:59:38	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0025M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0025M-0001-SO Lab Sample ID: 240-22663-38

Matrix: Solid Lab File ID: P4000008.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:45

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.07(g) Date Analyzed: 04/17/2013 11:59

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		40-140
2051-24-3	DCB Decachlorobiphenyl	72		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000008.D		
Lims ID:	240-22663-C-38-B	Client ID:	068SB-0025M-0001-SO
Inject. Date:	17-Apr-2013 11:59:38	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-008		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	82267	Lims Sample ID:	8
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:31

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	20965632	0.0132			
2	2	1.682	1.683	-0.001	23513369	0.0149			
						RPD = 11.82			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	21404271	0.0160			
2	2	7.841	7.842	-0.001	20933567	0.0144			
						RPD = 10.92			

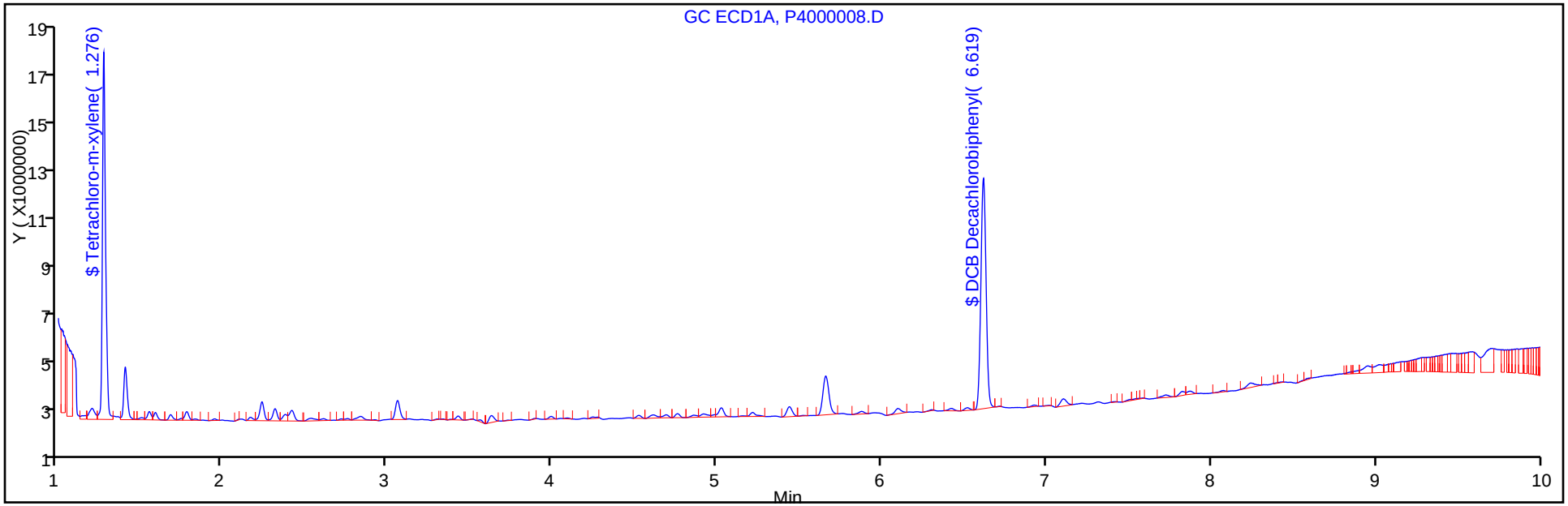
Report Date: 19-Apr-2013 09:25:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

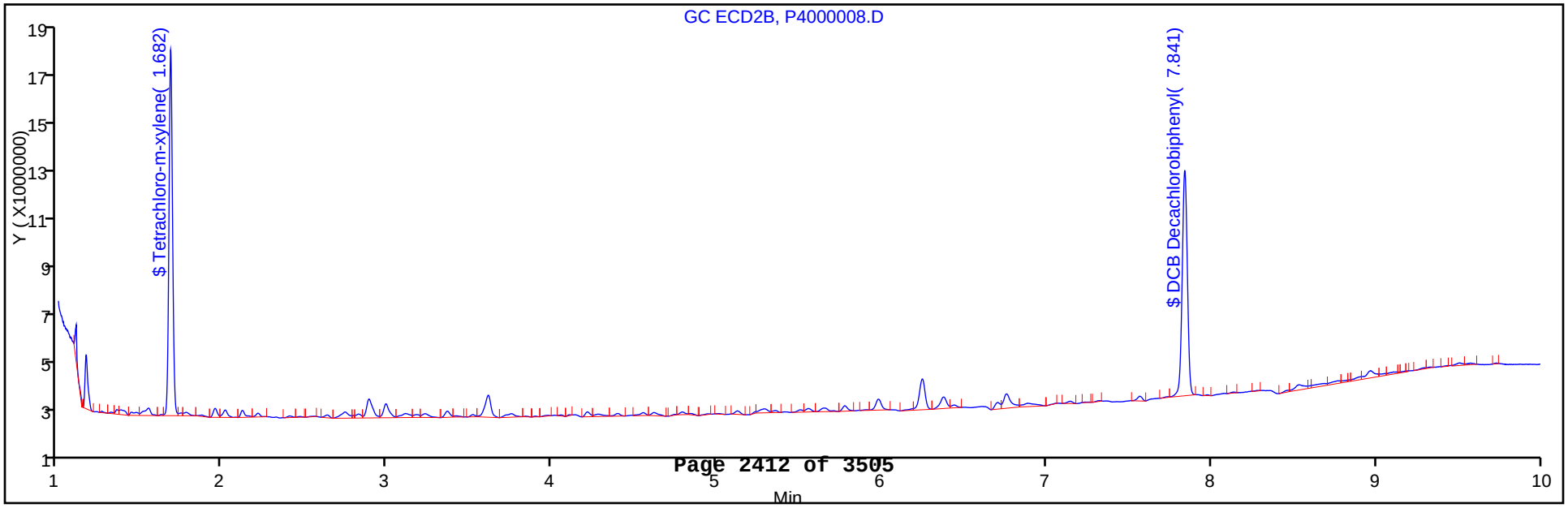
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000008.D

Injection Date:	17-Apr-2013 11:59:38	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0025M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0032-0001-SO Lab Sample ID: 240-22663-39

Matrix: Solid Lab File ID: P4000009.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 15:30

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.07(g) Date Analyzed: 04/17/2013 12:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 12.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	60		40-140
2051-24-3	DCB Decachlorobiphenyl	70		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000009.D		
Lims ID:	240-22663-C-39-A	Client ID:	068SB-0032-0001-SO
Inject. Date:	17-Apr-2013 12:15:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	9
Lims Batch ID:	82267	Lims Sample ID:	9
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:54

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	19098747	0.0121			
2	2	1.683	1.683	0.000	18774897	0.0119			
						RPD = 1.34			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

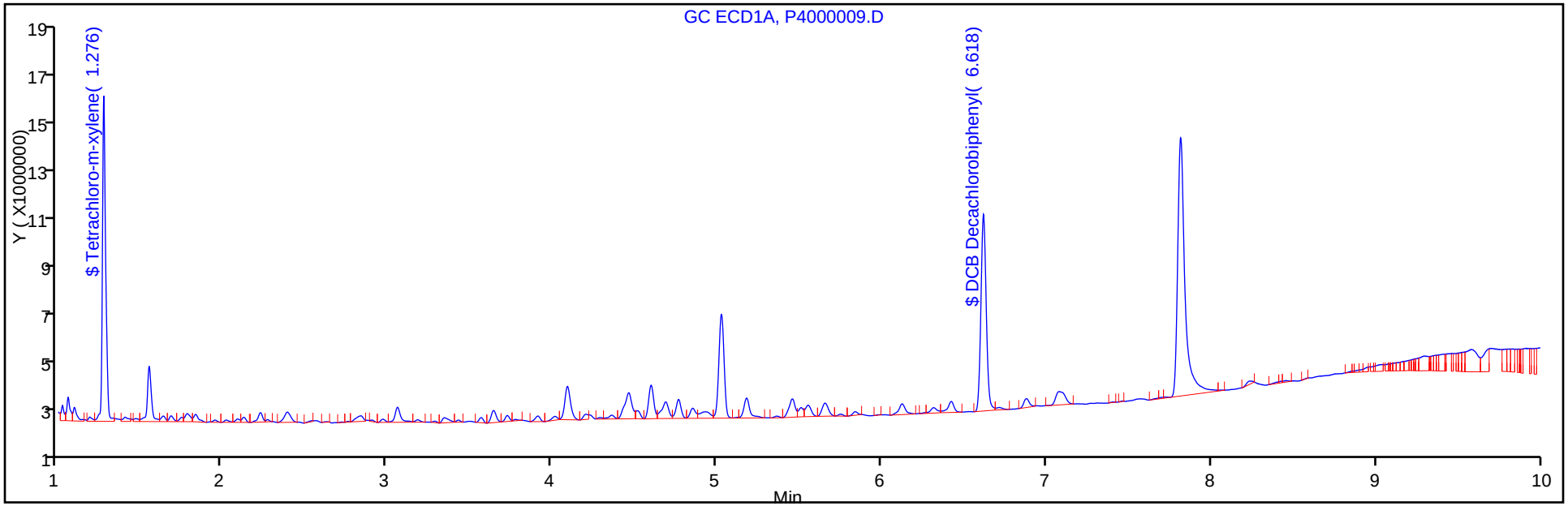
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	18624757	0.0139			
2	2	7.841	7.842	-0.001	18563978	0.0127			
						RPD = 9.02			

Report Date: 19-Apr-2013 09:25:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

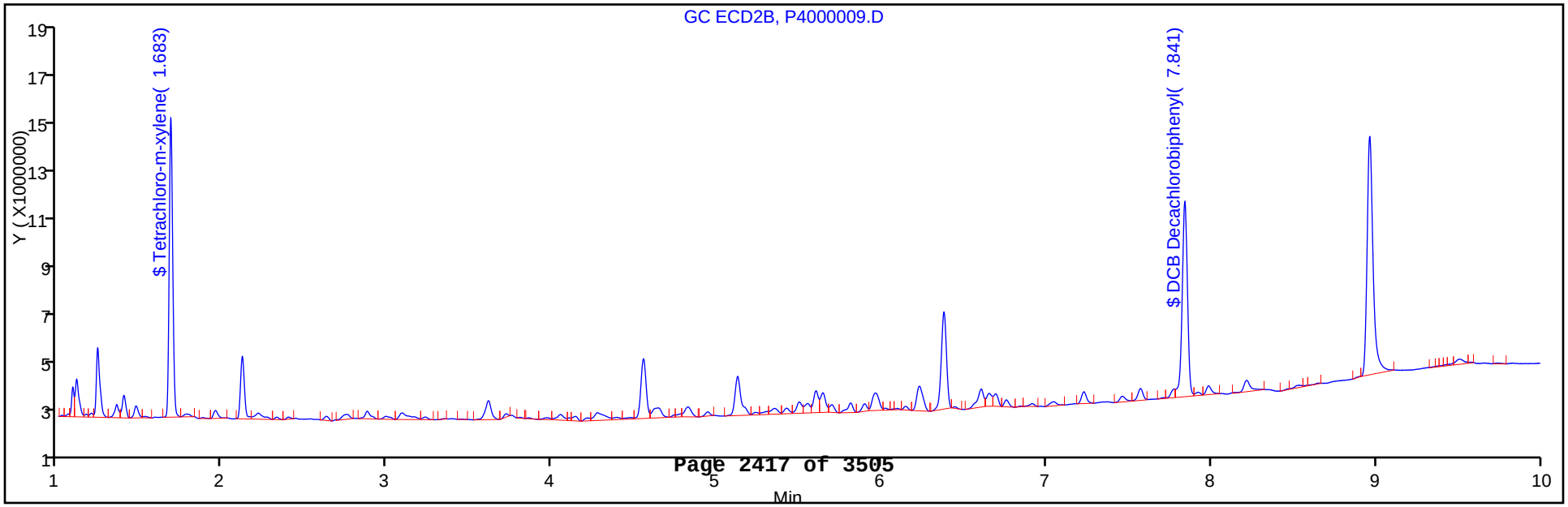
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000009.D		
Injection Date:	17-Apr-2013 12:15:22	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0032-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0032-0001-SO | Lab Sample ID: 240-22663-39

Matrix: Solid | Lab File ID: P4000009.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 15:30

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.07(g) | Date Analyzed: 04/17/2013 12:15

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 12.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 82267 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	28	U	57	28	18
12674-11-2	Aroclor-1016	28	U	74	28	24
11141-16-5	Aroclor-1232	28	U	51	28	16
53469-21-9	Aroclor-1242	28	U	46	28	15
12672-29-6	Aroclor-1248	28	U	63	28	19
11097-69-1	Aroclor-1254	28	U	63	28	19
11096-82-5	Aroclor-1260	28	U	63	28	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		40-140
2051-24-3	DCB Decachlorobiphenyl	64		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000009.D		
Lims ID:	240-22663-C-39-A	Client ID:	068SB-0032-0001-SO
Inject. Date:	17-Apr-2013 12:15:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	9
Lims Batch ID:	82267	Lims Sample ID:	9
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:41:54

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	19098747	0.0121			
2	2	1.683	1.683	0.000	18774897	0.0119			
						RPD = 1.34			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

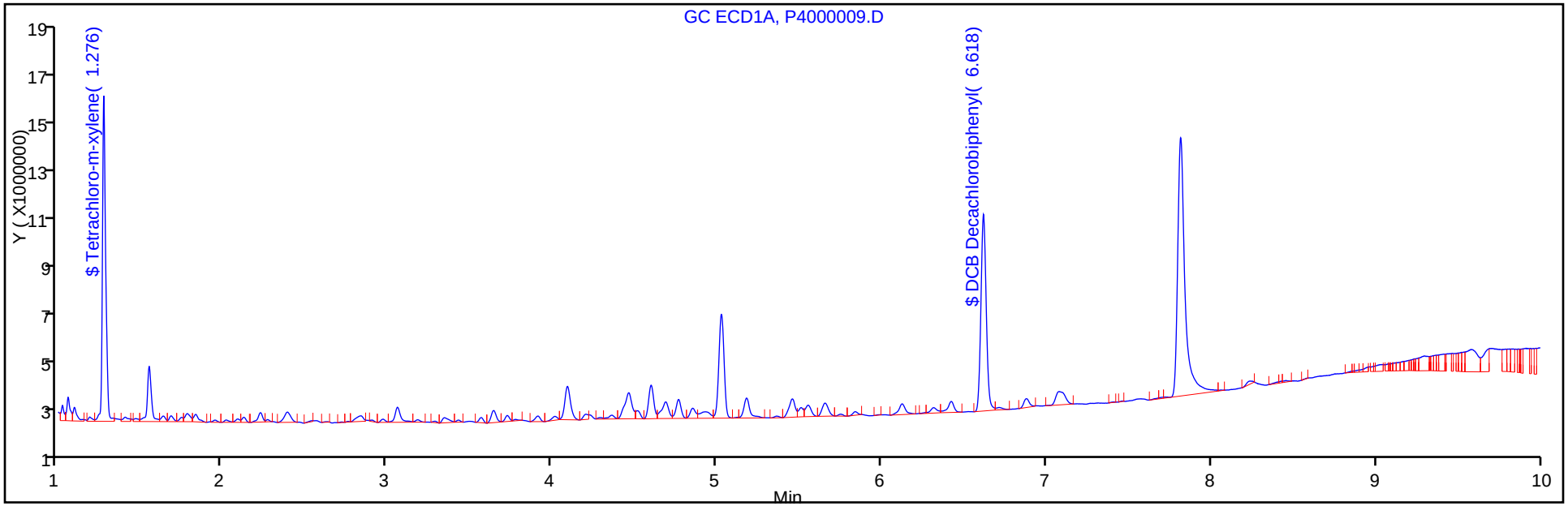
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	18624757	0.0139			
2	2	7.841	7.842	-0.001	18563978	0.0127			
						RPD = 9.02			

Report Date: 19-Apr-2013 09:25:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

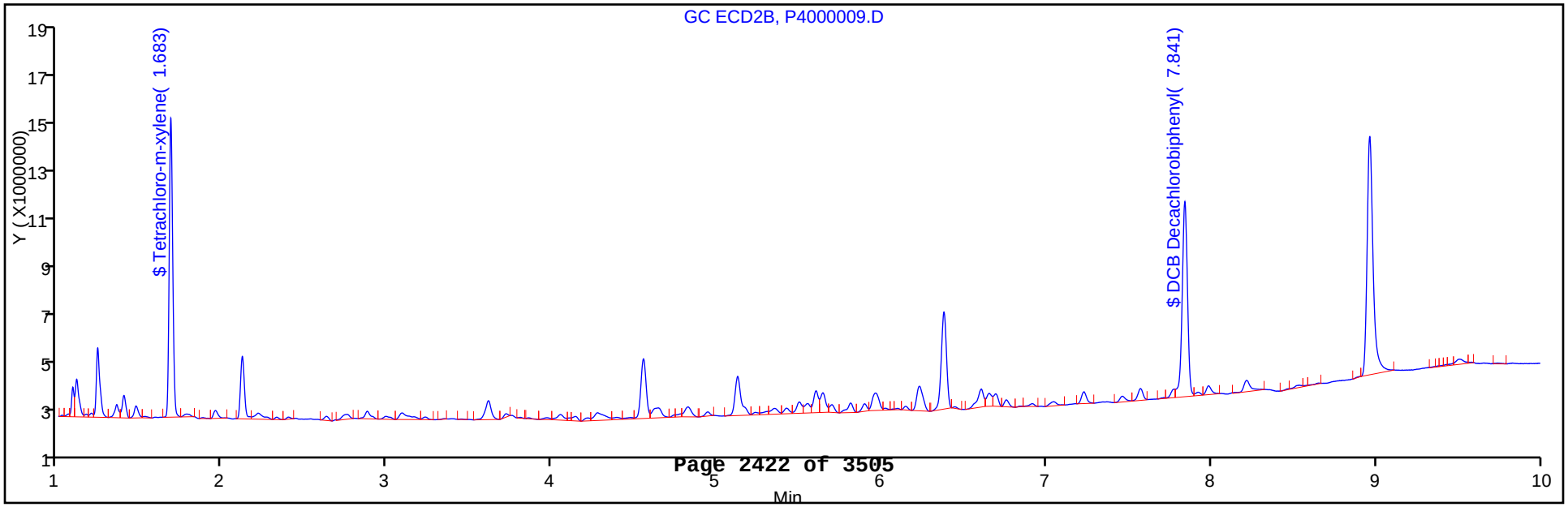
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000009.D		
Injection Date:	17-Apr-2013 12:15:22	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0032-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0027M-0001-SO Lab Sample ID: 240-22663-40

Matrix: Solid Lab File ID: P4000010.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:00

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.29(g) Date Analyzed: 04/17/2013 12:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	67		40-140
2051-24-3	DCB Decachlorobiphenyl	82		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000010.D		
Lims ID:	240-22663-C-40-B	Client ID:	068SB-0027M-0001-SO
Inject. Date:	17-Apr-2013 12:31:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-010		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	10
Lims Batch ID:	82267	Lims Sample ID:	10
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:42:13

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	21324518	0.0135			
2	2	1.683	1.683	0.000	21024915	0.0133			
						RPD = 1.05			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	21846384	0.0164			
2	2	7.842	7.842	0.000	20470323	0.0141			
						RPD = 15.18			

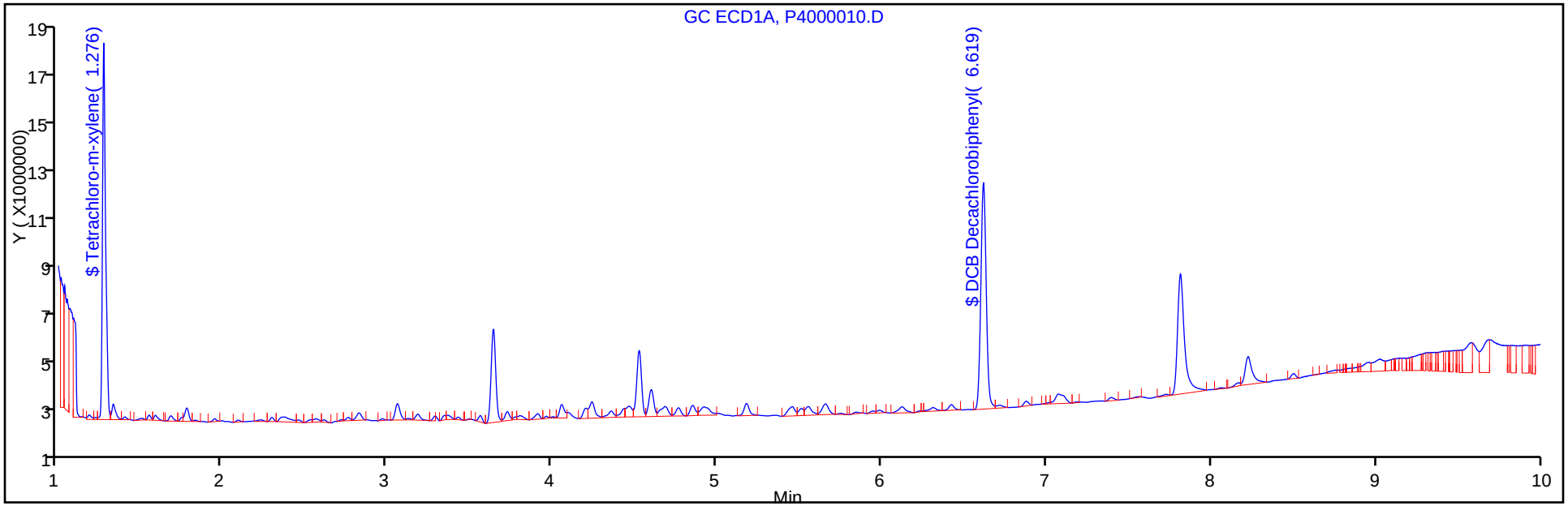
Report Date: 19-Apr-2013 09:25:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

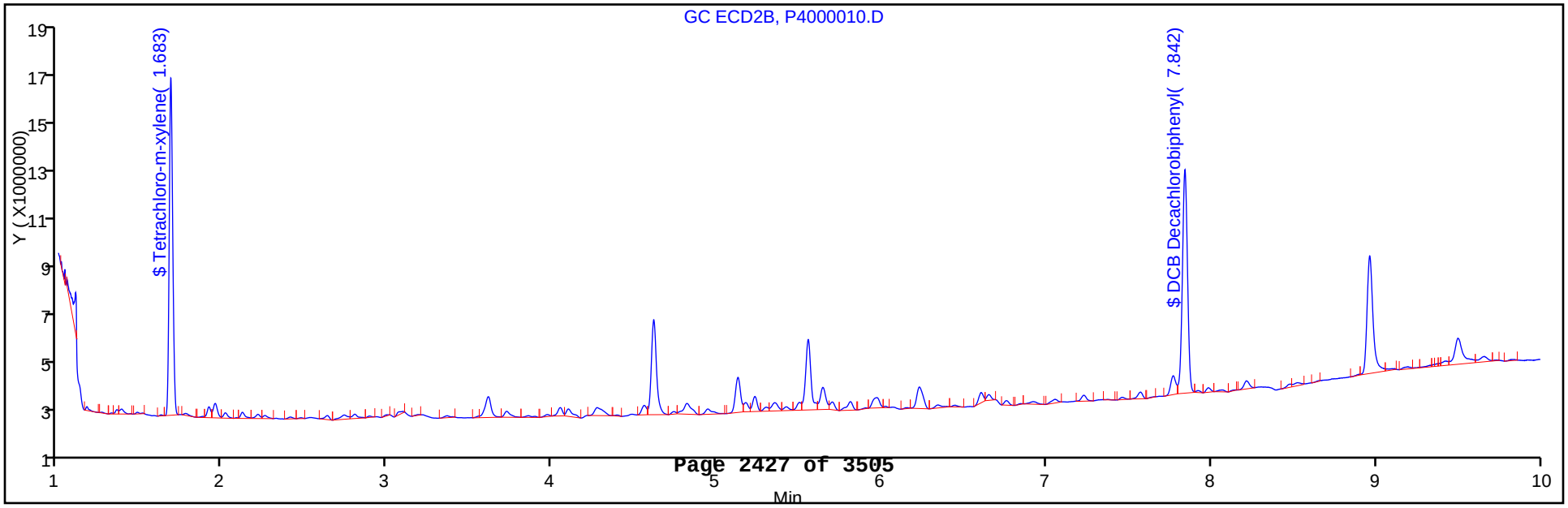
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000010.D

Injection Date:	17-Apr-2013 12:31:00	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0027M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0027M-0001-SO | Lab Sample ID: 240-22663-40

Matrix: Solid | Lab File ID: P4000010.D

Analysis Method: 8082/DOD | Date Collected: 04/01/2013 14:00

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.29(g) | Date Analyzed: 04/17/2013 12:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	64	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	54	25	17
11097-69-1	Aroclor-1254	25	U	54	25	17
11096-82-5	Aroclor-1260	25	U	54	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	67		40-140
2051-24-3	DCB Decachlorobiphenyl	70		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000010.D		
Lims ID:	240-22663-C-40-B	Client ID:	068SB-0027M-0001-SO
Inject. Date:	17-Apr-2013 12:31:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-010		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	10
Lims Batch ID:	82267	Lims Sample ID:	10
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:42:13

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	21324518	0.0135			
2	2	1.683	1.683	0.000	21024915	0.0133			
						RPD = 1.05			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	21846384	0.0164			
2	2	7.842	7.842	0.000	20470323	0.0141			
						RPD = 15.18			

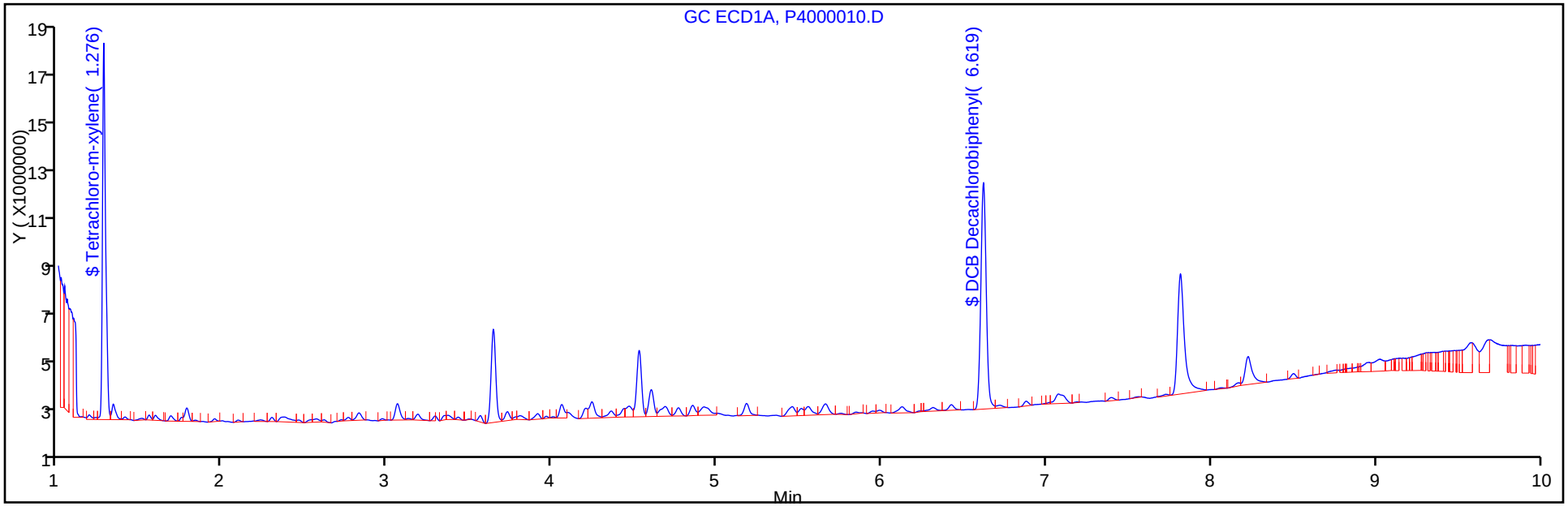
Report Date: 19-Apr-2013 09:25:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

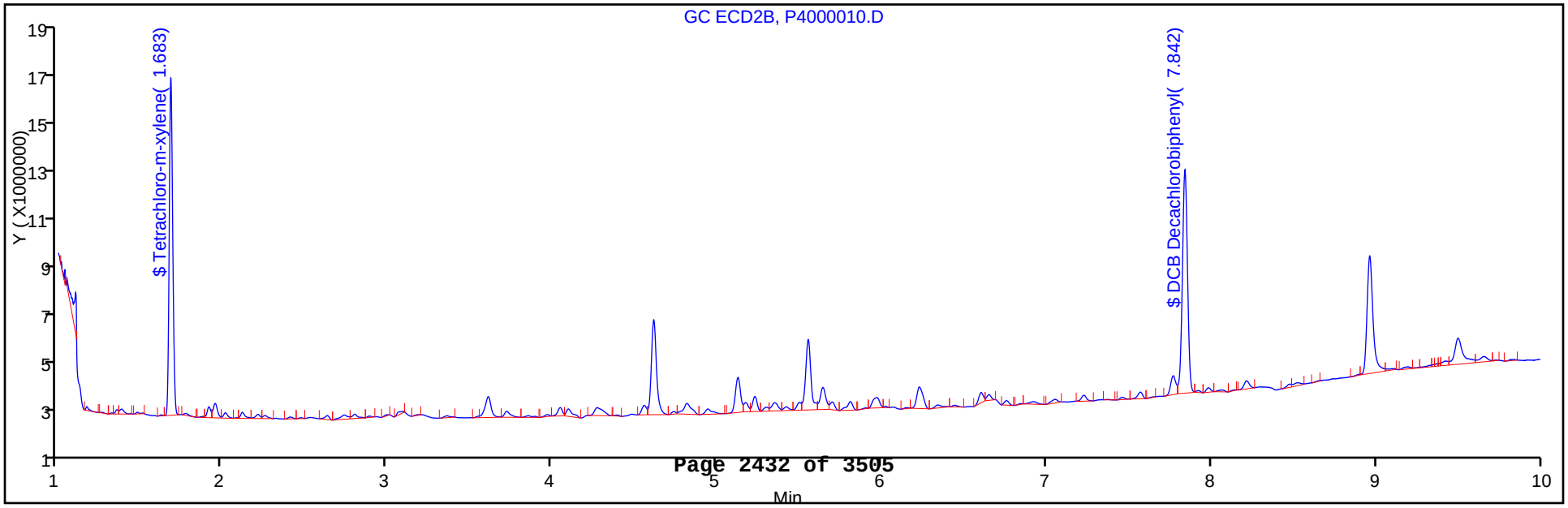
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000010.D

Injection Date:	17-Apr-2013 12:31:00	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0027M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0028M-0001-SO Lab Sample ID: 240-22663-41

Matrix: Solid Lab File ID: P4000011.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:02

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.12(g) Date Analyzed: 04/17/2013 12:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	52		40-140
2051-24-3	DCB Decachlorobiphenyl	70		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000011.D		
Lims ID:	240-22663-C-41-B	Client ID:	068SB-0028M-0001-SO
Inject. Date:	17-Apr-2013 12:46:34	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	11
Lims Batch ID:	82267	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		
First Level Reviewer: hassl		Date:	19-Apr-2013 08:42:20

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	16384228	0.0103			
2	2	1.684	1.683	0.001	16077991	0.0102			
						RPD = 1.52			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

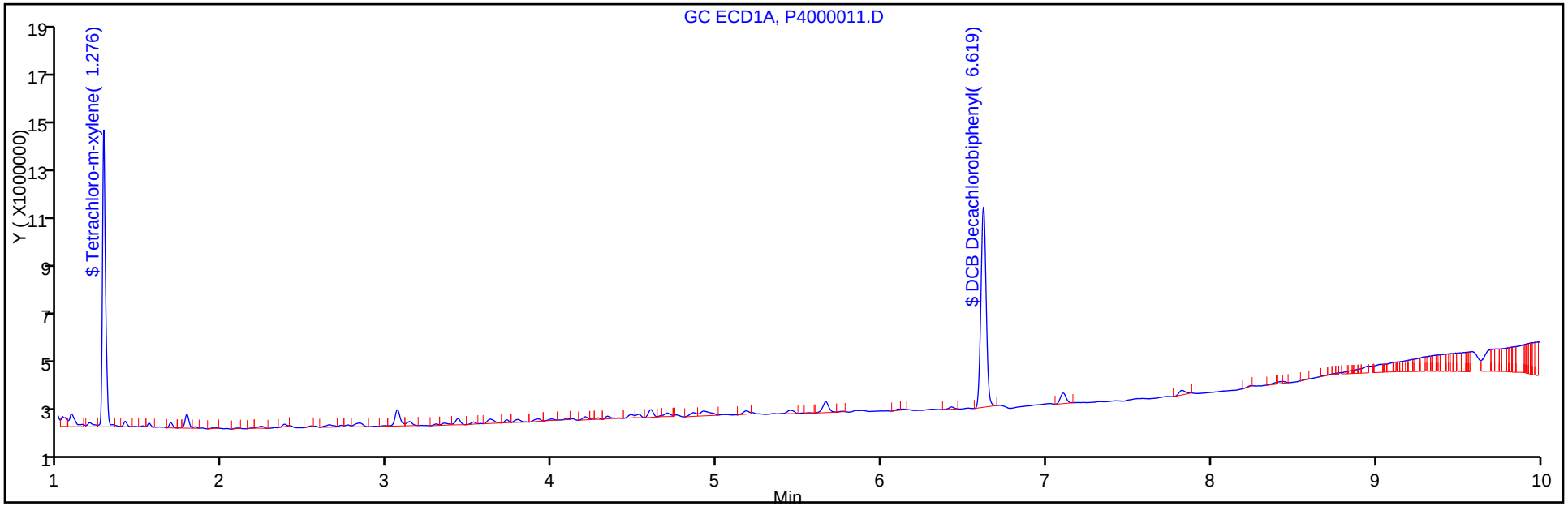
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	18749252	0.0140			
2	2	7.841	7.842	-0.001	19403346	0.0133			
						RPD = 5.27			

Report Date: 19-Apr-2013 09:25:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

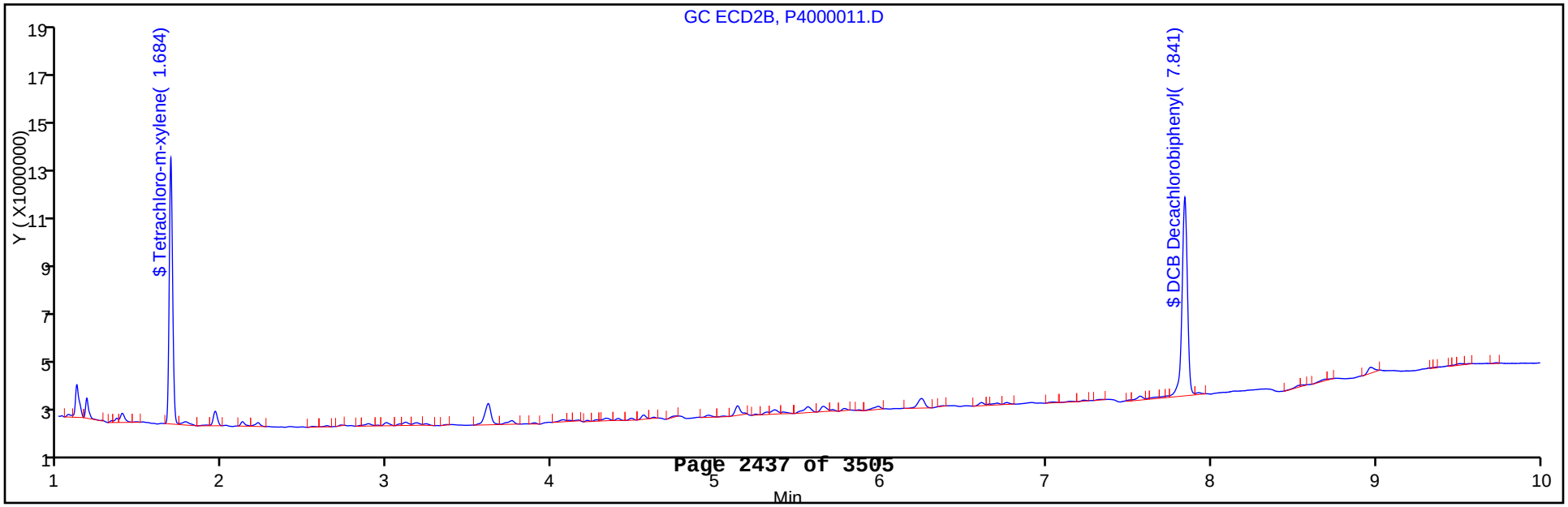
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000011.D		
Injection Date:	17-Apr-2013 12:46:34	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0028M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0028M-0001-SO Lab Sample ID: 240-22663-41

Matrix: Solid Lab File ID: P4000011.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:02

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30.12(g) Date Analyzed: 04/17/2013 12:46

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	51		40-140
2051-24-3	DCB Decachlorobiphenyl	67		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000011.D		
Lims ID:	240-22663-C-41-B	Client ID:	068SB-0028M-0001-SO
Inject. Date:	17-Apr-2013 12:46:34	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-011		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	11
Lims Batch ID:	82267	Lims Sample ID:	11
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:42:20

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	16384228	0.0103			
2	2	1.684	1.683	0.001	16077991	0.0102			
						RPD = 1.52			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

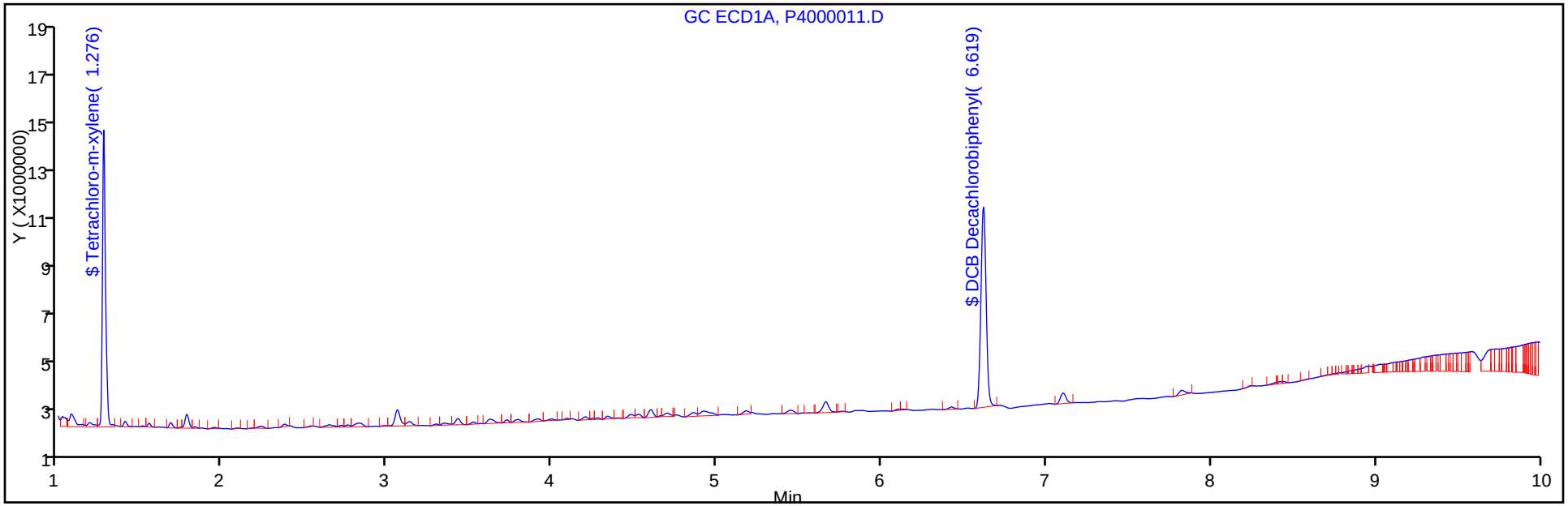
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	18749252	0.0140			
2	2	7.841	7.842	-0.001	19403346	0.0133			
						RPD = 5.27			

Report Date: 19-Apr-2013 09:25:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

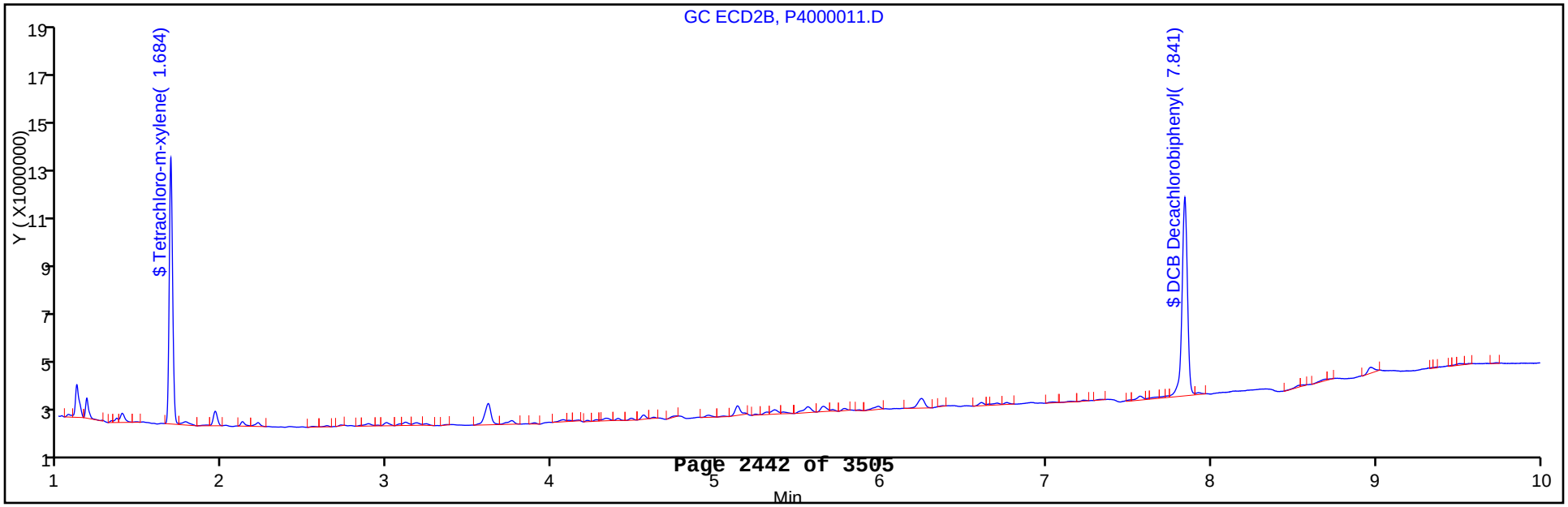
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000011.D		
Injection Date:	17-Apr-2013 12:46:34	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0028M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0030M-0001-SO Lab Sample ID: 240-22663-43

Matrix: Solid Lab File ID: P4000012.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:05

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.91(g) Date Analyzed: 04/17/2013 13:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	70		40-140
2051-24-3	DCB Decachlorobiphenyl	79		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000012.D		
Lims ID:	240-22663-C-43-B	Client ID:	068SB-0030M-0001-SO
Inject. Date:	17-Apr-2013 13:02:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	12
Lims Batch ID:	82267	Lims Sample ID:	12
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:42:26

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	22056935	0.0139			
2	2	1.684	1.683	0.001	22034912	0.0140			
						RPD = 0.27			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

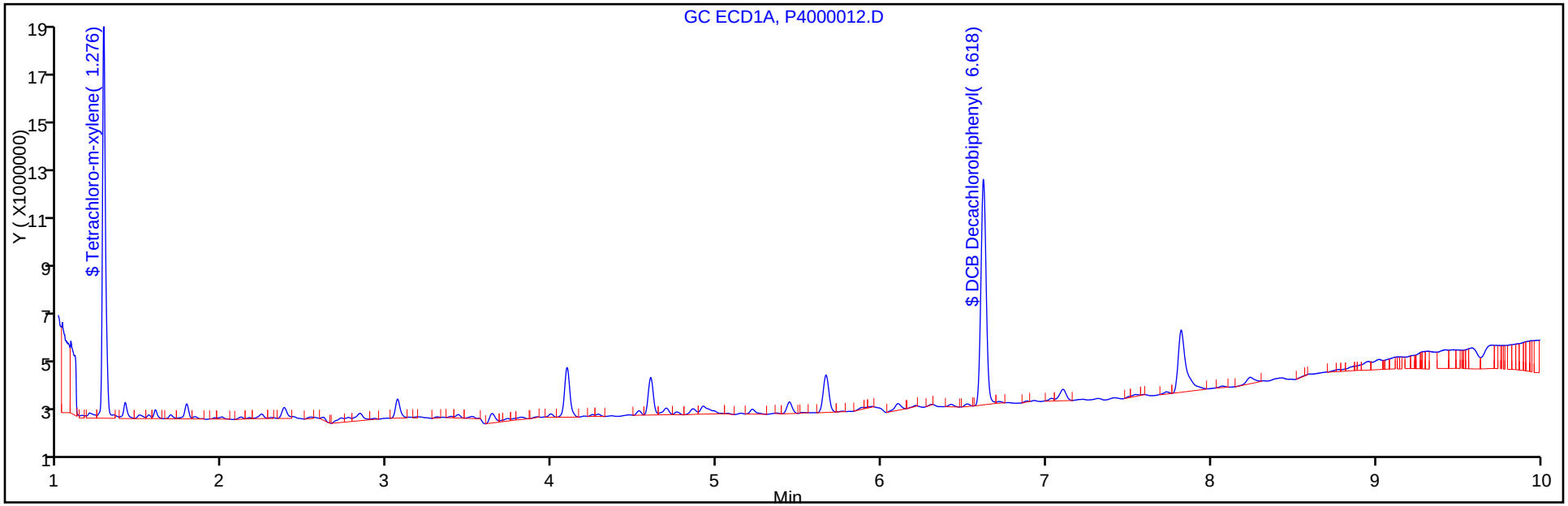
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	21174141	0.0159			
2	2	7.841	7.842	-0.001	21608819	0.0148			
						RPD = 6.67			

Report Date: 19-Apr-2013 09:25:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

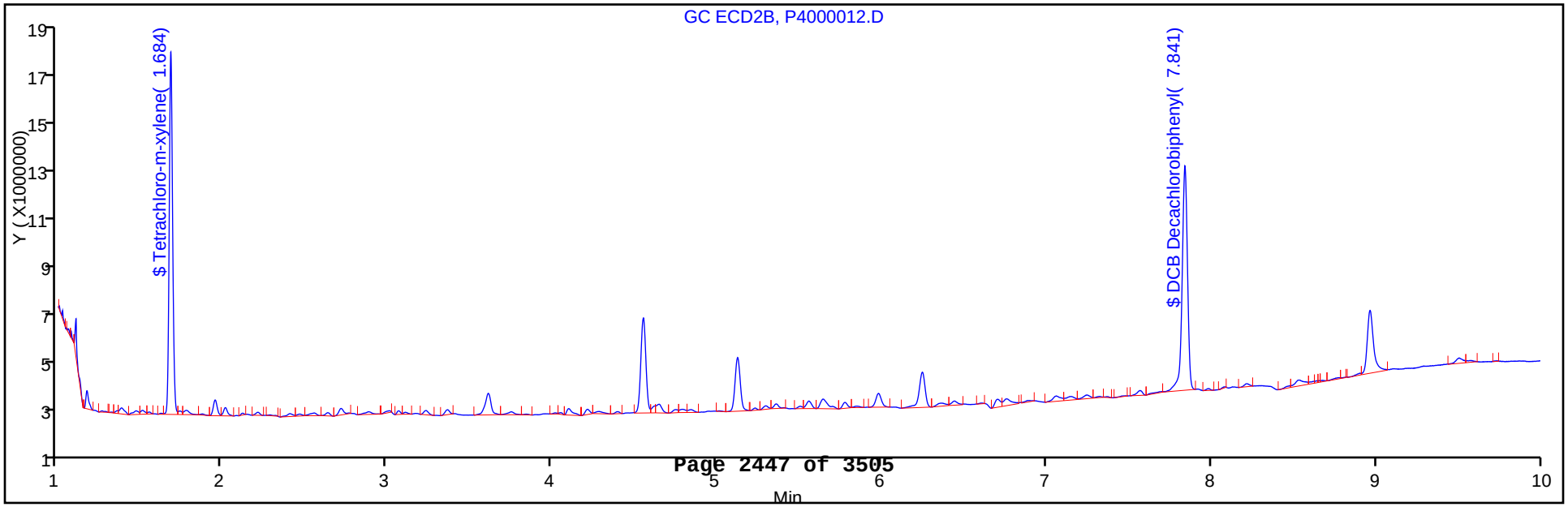
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000012.D		
Injection Date:	17-Apr-2013 13:02:14	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0030M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0030M-0001-SO Lab Sample ID: 240-22663-43

Matrix: Solid Lab File ID: P4000012.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 14:05

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.91(g) Date Analyzed: 04/17/2013 13:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	70		40-140
2051-24-3	DCB Decachlorobiphenyl	74		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000012.D		
Lims ID:	240-22663-C-43-B	Client ID:	068SB-0030M-0001-SO
Inject. Date:	17-Apr-2013 13:02:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	12
Lims Batch ID:	82267	Lims Sample ID:	12
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:42:26

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	22056935	0.0139			
2	2	1.684	1.683	0.001	22034912	0.0140			
						RPD = 0.27			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

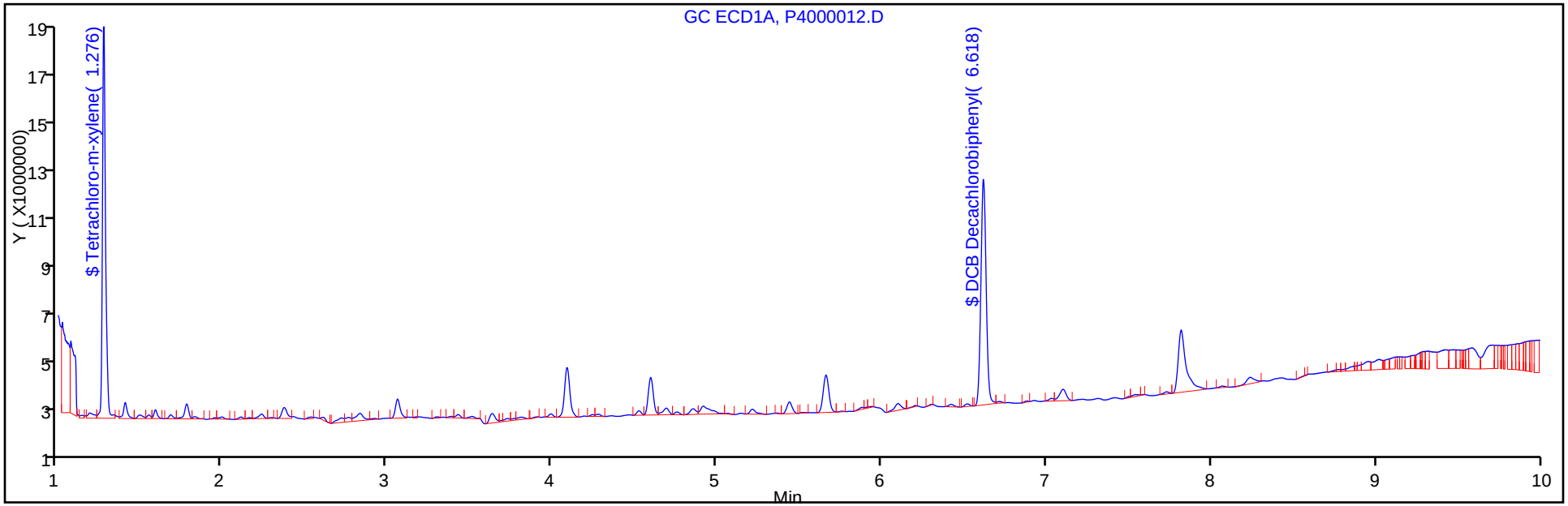
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	21174141	0.0159			
2	2	7.841	7.842	-0.001	21608819	0.0148			
						RPD = 6.67			

Report Date: 19-Apr-2013 09:25:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

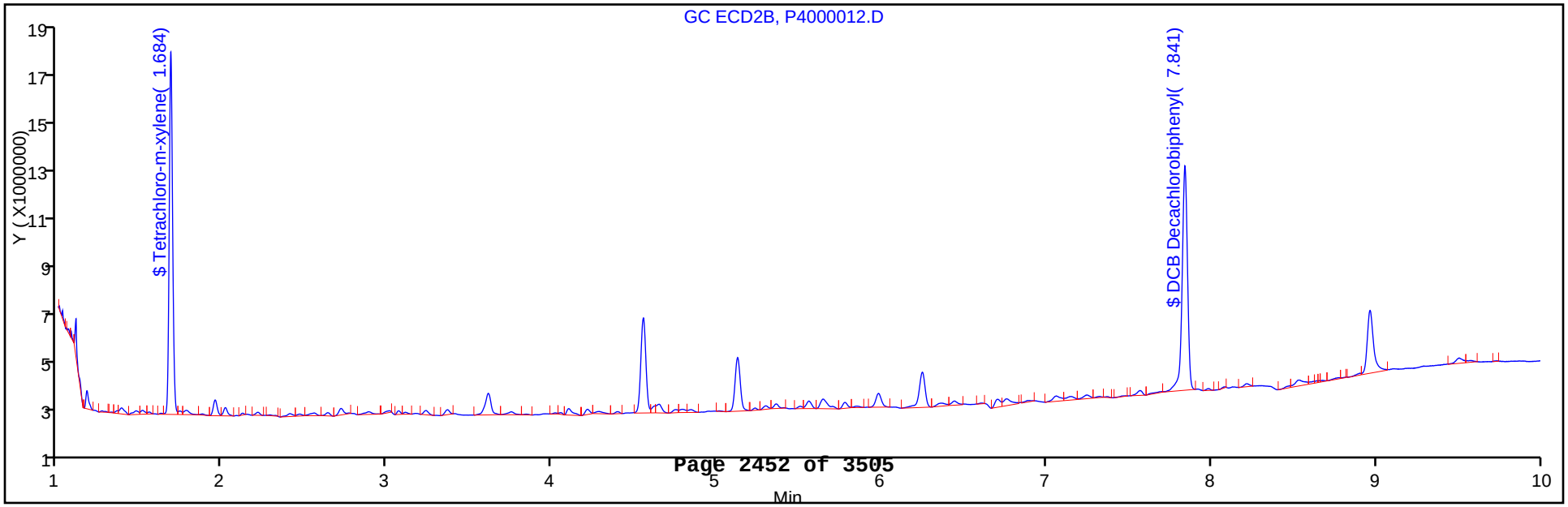
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000012.D		
Injection Date:	17-Apr-2013 13:02:14	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0030M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0031M-0001-SO Lab Sample ID: 240-22663-44

Matrix: Solid Lab File ID: P4000013.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 13:44

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.64(g) Date Analyzed: 04/17/2013 13:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	55		40-140
2051-24-3	DCB Decachlorobiphenyl	67		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000013.D		
Lims ID:	240-22663-C-44-B	Client ID:	068SB-0031M-0001-SO
Inject. Date:	17-Apr-2013 13:17:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-013		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	13
Lims Batch ID:	82267	Lims Sample ID:	13
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:42:35

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	17331477	0.0109			
2	2	1.683	1.683	0.000	17351049	0.0110			
						RPD = 0.48			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	17834321	0.0134			
2	2	7.841	7.842	-0.001	17731002	0.0122			
						RPD = 9.28			

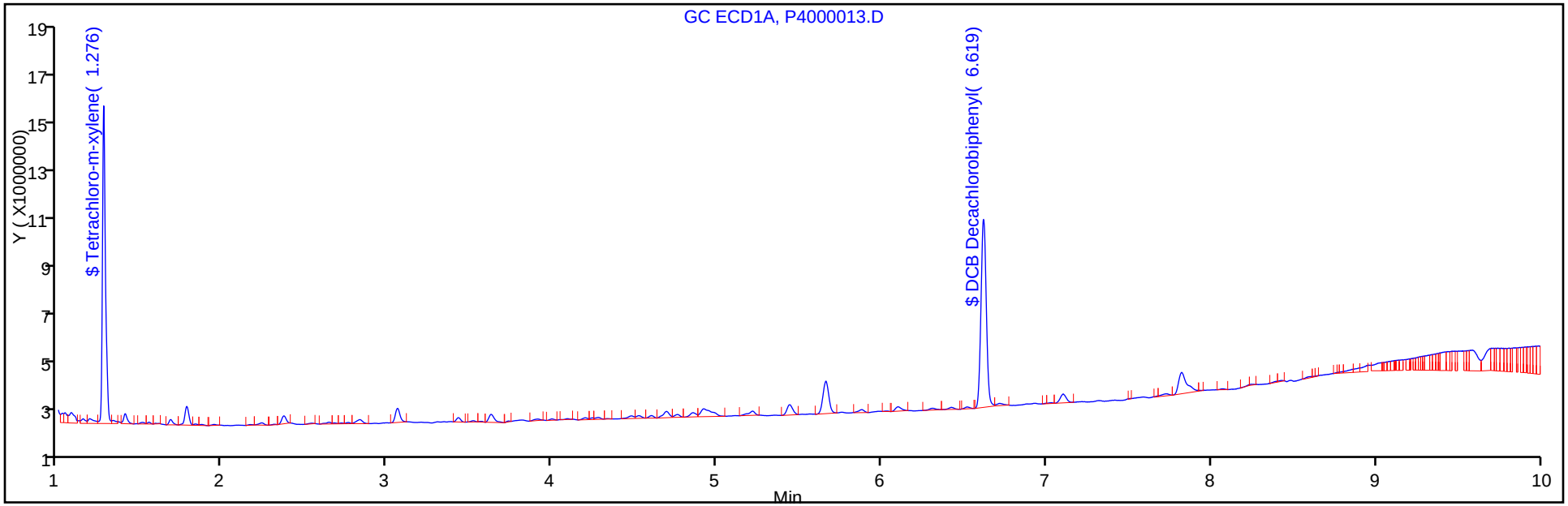
Report Date: 19-Apr-2013 09:25:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

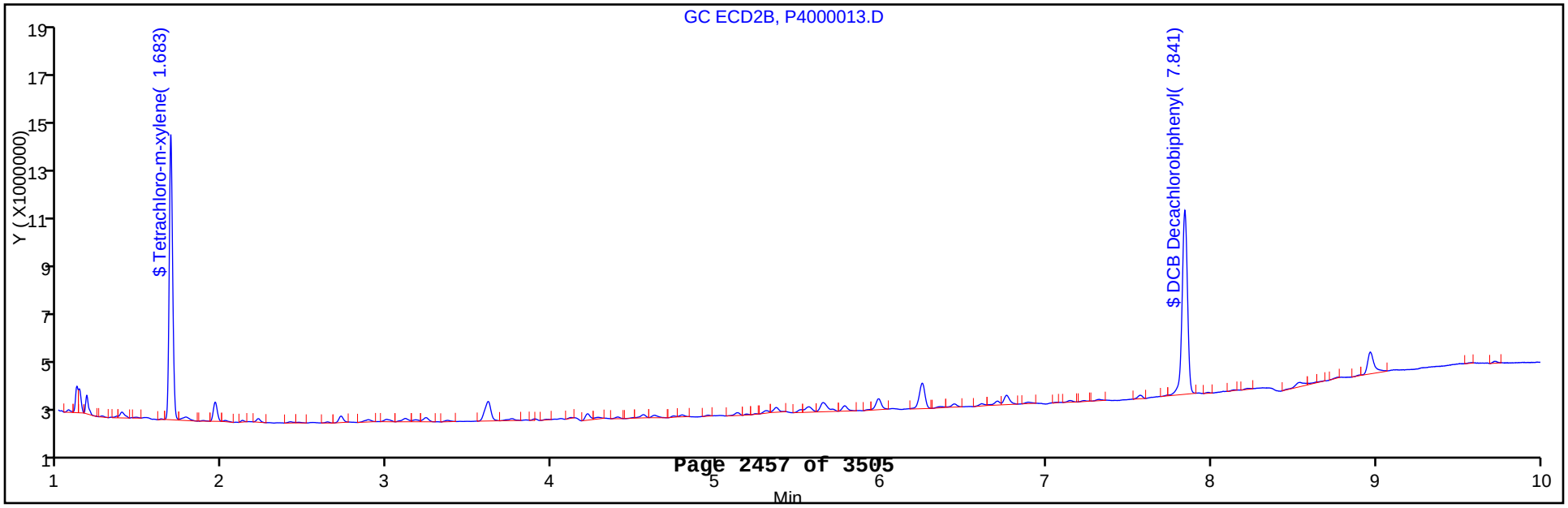
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000013.D

Injection Date:	17-Apr-2013 13:17:56	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0031M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: 068SB-0031M-0001-SO Lab Sample ID: 240-22663-44

Matrix: Solid Lab File ID: P4000013.D

Analysis Method: 8082/DOD Date Collected: 04/01/2013 13:44

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 29.64(g) Date Analyzed: 04/17/2013 13:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	51	25	16
12674-11-2	Aroclor-1016	25	U	66	25	21
11141-16-5	Aroclor-1232	25	U	46	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	56	25	17
11097-69-1	Aroclor-1254	25	U	56	25	17
11096-82-5	Aroclor-1260	25	U	56	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	55		40-140
2051-24-3	DCB Decachlorobiphenyl	61		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000013.D		
Lims ID:	240-22663-C-44-B	Client ID:	068SB-0031M-0001-SO
Inject. Date:	17-Apr-2013 13:17:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0018945-013		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	13
Lims Batch ID:	82267	Lims Sample ID:	13
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		
First Level Reviewer: hassl		Date:	19-Apr-2013 08:42:35

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	17331477	0.0109			
2	2	1.683	1.683	0.000	17351049	0.0110			
						RPD = 0.48			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.828						
1	3		2.219						
1	4		2.338						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.130						
2	10		3.233						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

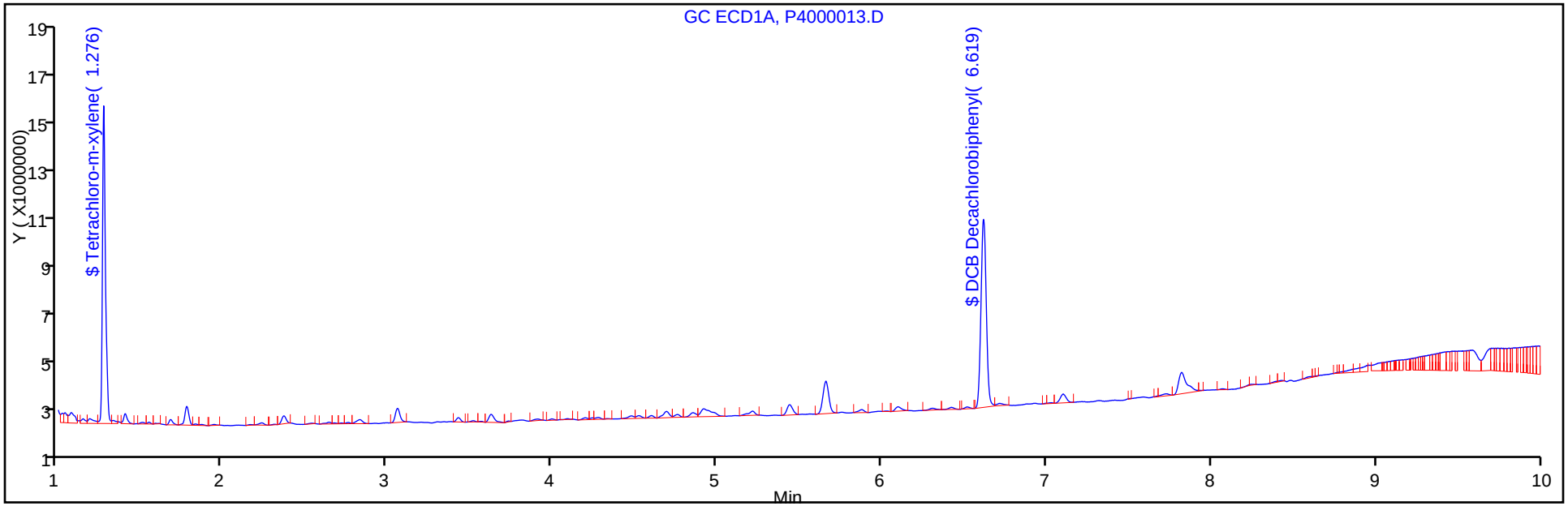
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.915						
1	2		4.201						
1	3		4.482						
1	4		5.181						
1	5		5.465						
2	6		4.943						
2	7		5.173						
2	8		5.540						
2	9		6.226						
2	10		6.608						
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.618	0.001	17834321	0.0134			
2	2	7.841	7.842	-0.001	17731002	0.0122			
						RPD = 9.28			

Report Date: 19-Apr-2013 09:25:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

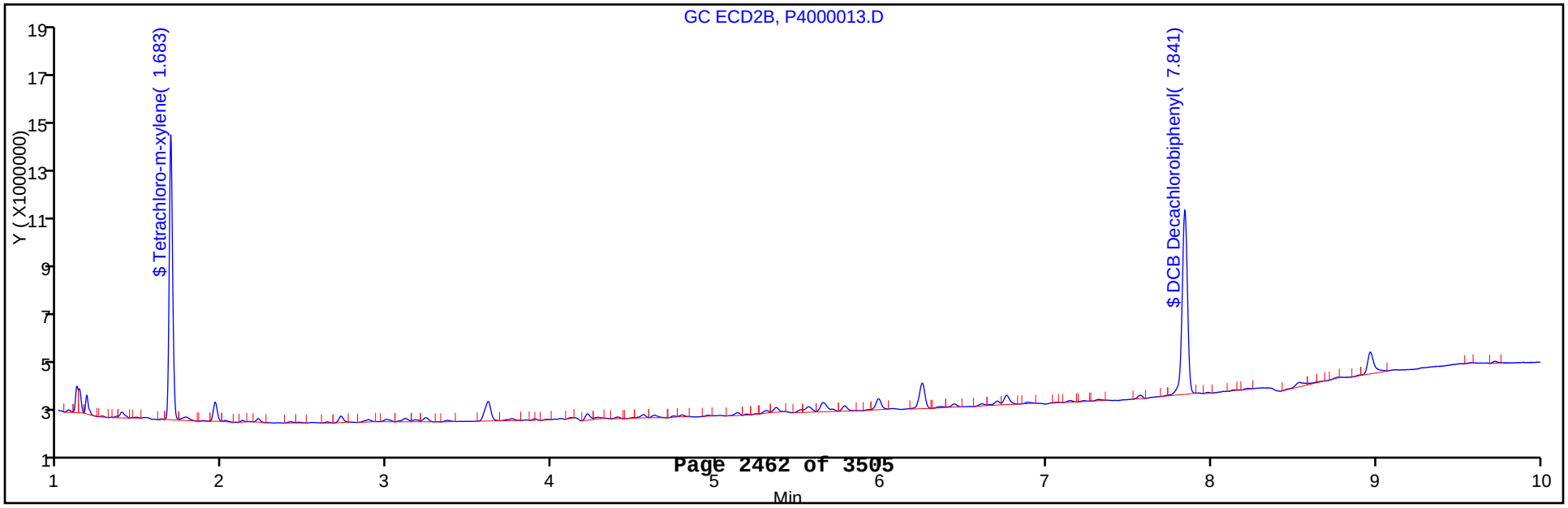
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000013.D		
Injection Date:	17-Apr-2013 13:17:56	Limit Group:	GC 8082A ICAL
Client ID:	068SB-0031M-0001-SO	Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/14/2013 23:42 Calibration End Date: 04/15/2013 01:00 Calibration ID: 14509

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/3	P4000003.D
Level 2	STD01 240-81761/4	P4000004.D
Level 3	STD02 240-81761/5	P4000005.D
Level 4	STD05 240-81761/6	P4000006.D
Level 5	STD1 240-81761/7	P4000007.D
Level 6	STD2 240-81761/8	P4000008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	1.538	1.538	1.539	1.539	1.539	1.538					1.438 - 1.638	1.539
PCB-1232 Peak 2	1.820	1.820	1.821	1.821	1.821	1.821					1.720 - 1.920	1.821
PCB-1232 Peak 3	2.210	2.211	2.211	2.211	2.213	2.211					2.110 - 2.310	2.211
PCB-1232 Peak 4	2.330	2.331	2.332	2.332	2.332	2.331					2.230 - 2.430	2.331
PCB-1232 Peak 5	2.707	2.709	2.709	2.710	2.709	2.708					2.607 - 2.807	2.709

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/14/2013 23:42 Calibration End Date: 04/15/2013 01:00 Calibration ID: 14509

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/3	P4000003.D
Level 2	STD01 240-81761/4	P4000004.D
Level 3	STD02 240-81761/5	P4000005.D
Level 4	STD05 240-81761/6	P4000006.D
Level 5	STD1 240-81761/7	P4000007.D
Level 6	STD2 240-81761/8	P4000008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	34691800 27056868	32818030 25878490	31171920	28251988	Ave		29978182.7				12.0		20.0			
PCB-1232 Peak 2	24420280 18766909	25395130 18136280	23820215	19737064	Ave		21712646.3				15.0		20.0			
PCB-1232 Peak 3	43703860 38931784	41496490 39453239	39555920	39098008	Ave		40373216.8				4.6		20.0			
PCB-1232 Peak 4	18512220 17039321	16713830 16969340	17382515	17509480	Ave		17354450.9				3.7		20.0			
PCB-1232 Peak 5	17975600 15263717	16238410 15003728	17032815	15707798	Ave		16203677.9				7.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/14/2013 23:42 Calibration End Date: 04/15/2013 01:00 Calibration ID: 14509

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/3	P4000003.D
Level 2	STD01 240-81761/4	P4000004.D
Level 3	STD02 240-81761/5	P4000005.D
Level 4	STD05 240-81761/6	P4000006.D
Level 5	STD1 240-81761/7	P4000007.D
Level 6	STD2 240-81761/8	P4000008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	1734590 51756980	3281803	6234384	14125994	27056868	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	1221014 36272560	2539513	4764043	9868532	18766909	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	2185193 78906477	4149649	7911184	19549004	38931784	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	925611 33938679	1671383	3476503	8754740	17039321	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	898780 30007455	1623841	3406563	7853899	15263717	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000003.D
Lims ID: STD005 1232 Client ID:
Inject. Date: 14-Apr-2013 23:42:10 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 81761 Lims Sample ID: 3
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:34 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.538	1.538	0.000	1734590	0.0579		100.0	
1	2	1.820	1.820	0.000	1221014	0.0562	51.4- 101.4	70.4	
1	3	2.210	2.210	0.000	2185193	0.0541	101.9- 151.9	126.0	
1	4	2.330	2.330	0.000	925611	0.0533	30.8- 80.8	53.4	
1	5	2.707	2.707	0.000	898780	0.0555	29.6- 79.6	51.8	
			Average of Peak Amounts =			0.0554			
2	6	2.136	2.136	0.000	1715989	0.0588		100.0	
2	7	2.531	2.531	0.000	1423247	0.0600	47.8- 107.8	82.9	
2	8	2.980	2.980	0.000	2325881	0.0547	111.9- 171.9	135.5	
2	9	3.120	3.120	0.000	1232586	0.0618	36.1- 96.1	71.8	
2	10	3.727	3.727	0.000	895382	0.0575	20.4- 80.4	52.2	
			Average of Peak Amounts =			0.0585			
						RPD = 5.51			

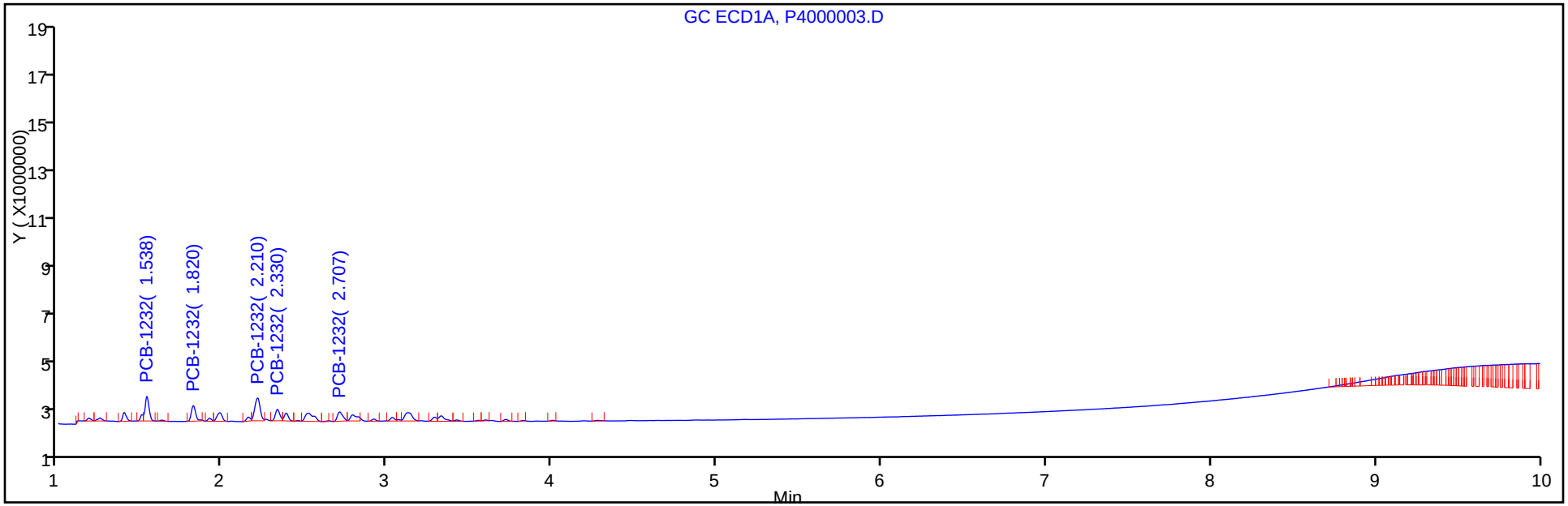
Report Date: 15-Apr-2013 13:04:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

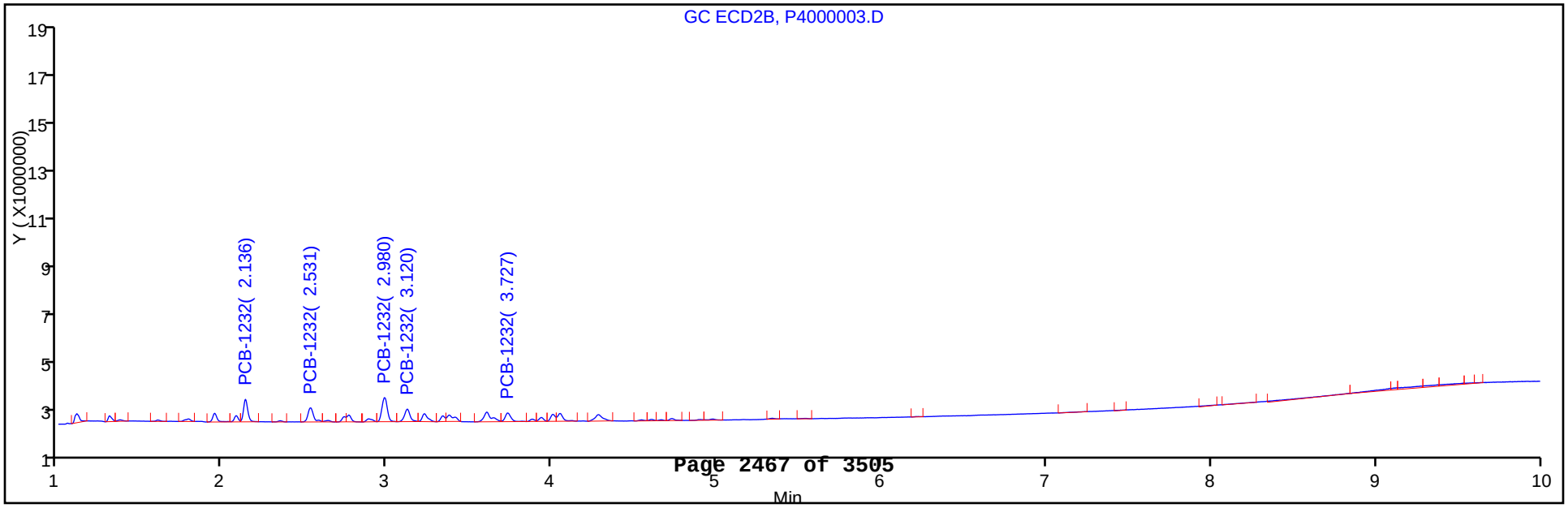
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000003.D

Injection Date:	14-Apr-2013 23:42:10	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000004.D
Lims ID: STD01 1232 Client ID:
Inject. Date: 14-Apr-2013 23:57:54 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018824-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 81761 Lims Sample ID: 4
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.538	1.538	0.000	3281803	0.1095		100.0	
1	2	1.820	1.820	0.000	2539513	0.1170	51.4- 101.4	77.4	
1	3	2.211	2.210	0.001	4149649	0.1028	101.9- 151.9	126.4	
1	4	2.331	2.330	0.001	1671383	0.0963	30.8- 80.8	50.9	
1	5	2.709	2.707	0.002	1623841	0.1002	29.6- 79.6	49.5	
			Average of Peak Amounts =			0.1051			
2	6	2.137	2.136	0.001	3186451	0.1091		100.0	
2	7	2.532	2.531	0.001	2748679	0.1158	47.8- 107.8	86.3	
2	8	2.983	2.980	0.003	4441797	0.1044	111.9- 171.9	139.4	
2	9	3.122	3.120	0.002	2170154	0.1088	36.1- 96.1	68.1	
2	10	3.730	3.727	0.003	1667373	0.1071	20.4- 80.4	52.3	
			Average of Peak Amounts =			0.1090			
						RPD = 3.64			

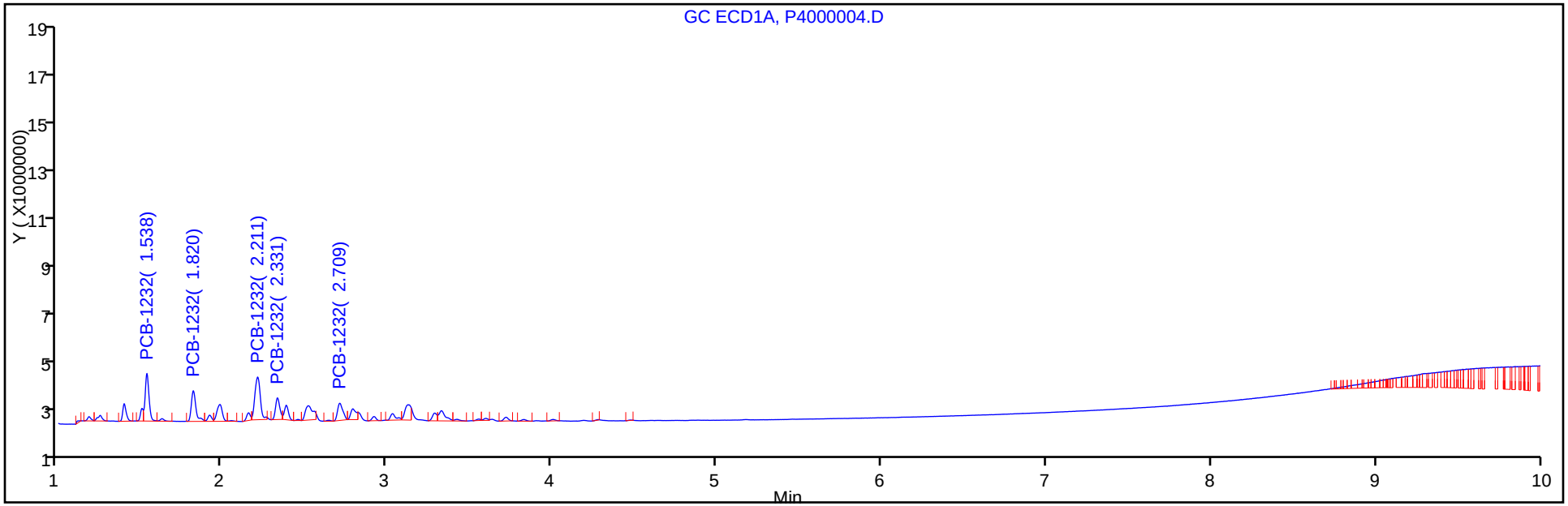
Report Date: 15-Apr-2013 13:04:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

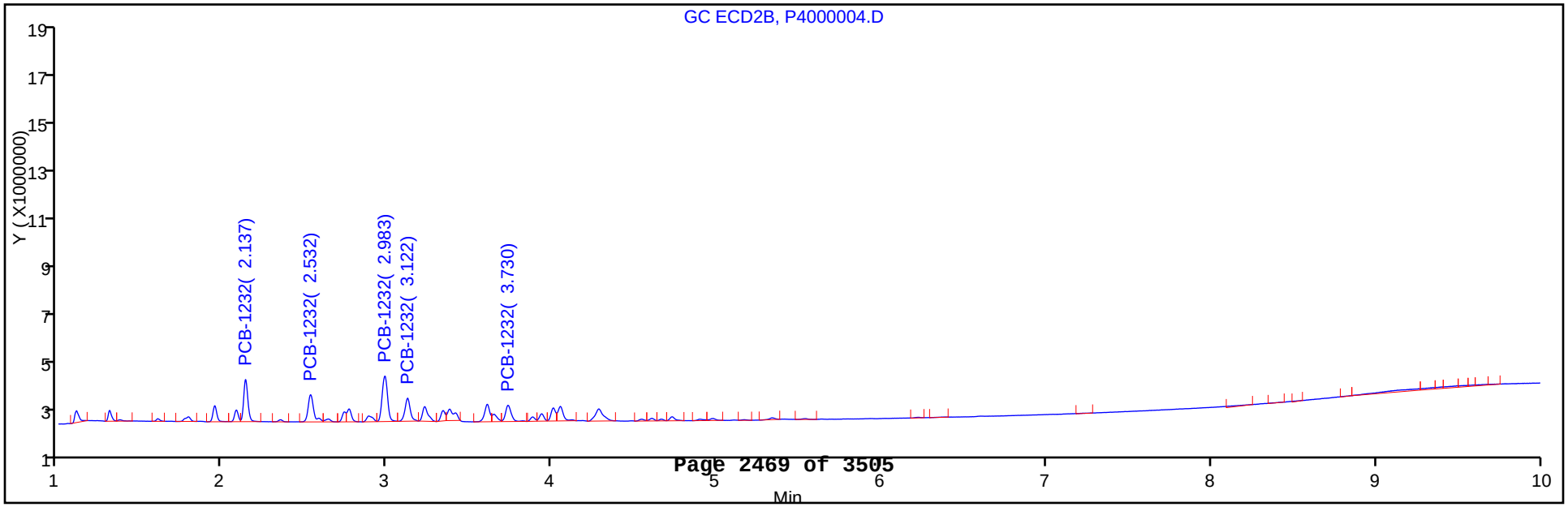
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000004.D

Injection Date:	14-Apr-2013 23:57:54	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000005.D
Lims ID: STD02 1232 Client ID:
Inject. Date: 15-Apr-2013 00:13:40 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-005
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 81761 Lims Sample ID: 5
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:37 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.539	1.538	0.001	6234384	0.2080		100.0	
1	2	1.821	1.820	0.001	4764043	0.2194	51.4- 101.4	76.4	
1	3	2.211	2.210	0.001	7911184	0.1960	101.9- 151.9	126.9	
1	4	2.332	2.330	0.002	3476503	0.2003	30.8- 80.8	55.8	
1	5	2.709	2.707	0.002	3406563	0.2102	29.6- 79.6	54.6	
			Average of Peak Amounts =			0.2068			
2	6	2.138	2.136	0.002	5943640	0.2036		100.0	
2	7	2.533	2.531	0.002	4621768	0.1948	47.8- 107.8	77.8	
2	8	2.984	2.980	0.004	8433984	0.1982	111.9- 171.9	141.9	
2	9	3.122	3.120	0.002	3930765	0.1971	36.1- 96.1	66.1	
2	10	3.732	3.727	0.005	2996608	0.1924	20.4- 80.4	50.4	
			Average of Peak Amounts =			0.1972			
						RPD = 4.73			

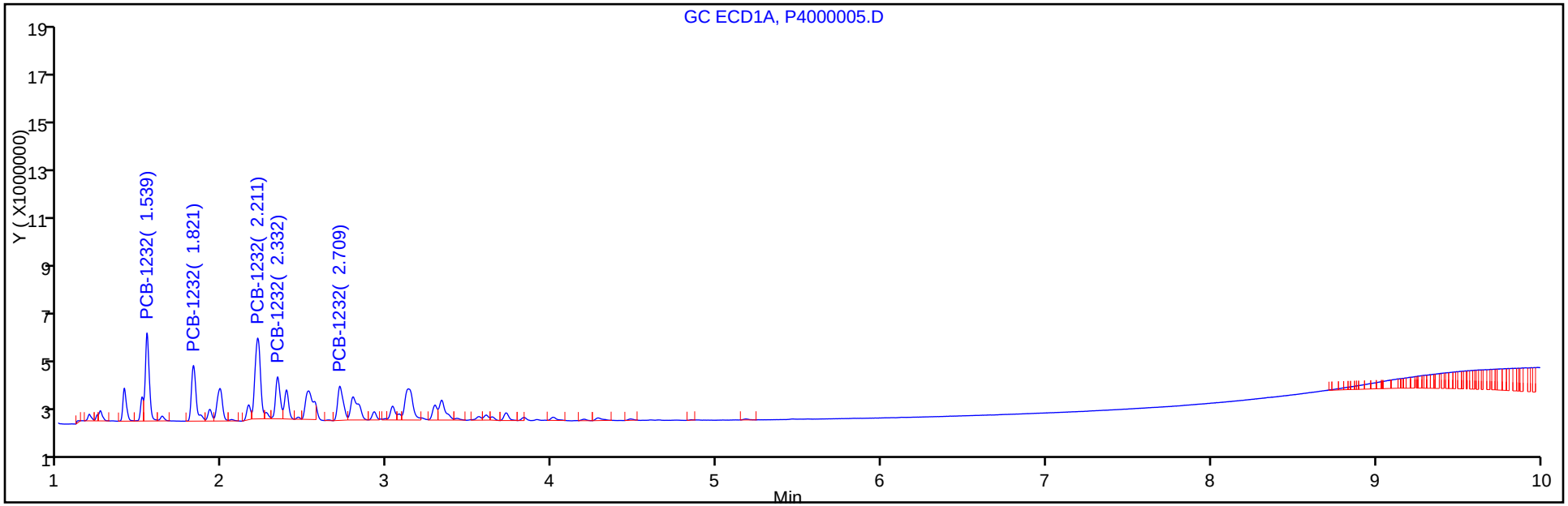
Report Date: 15-Apr-2013 13:04:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

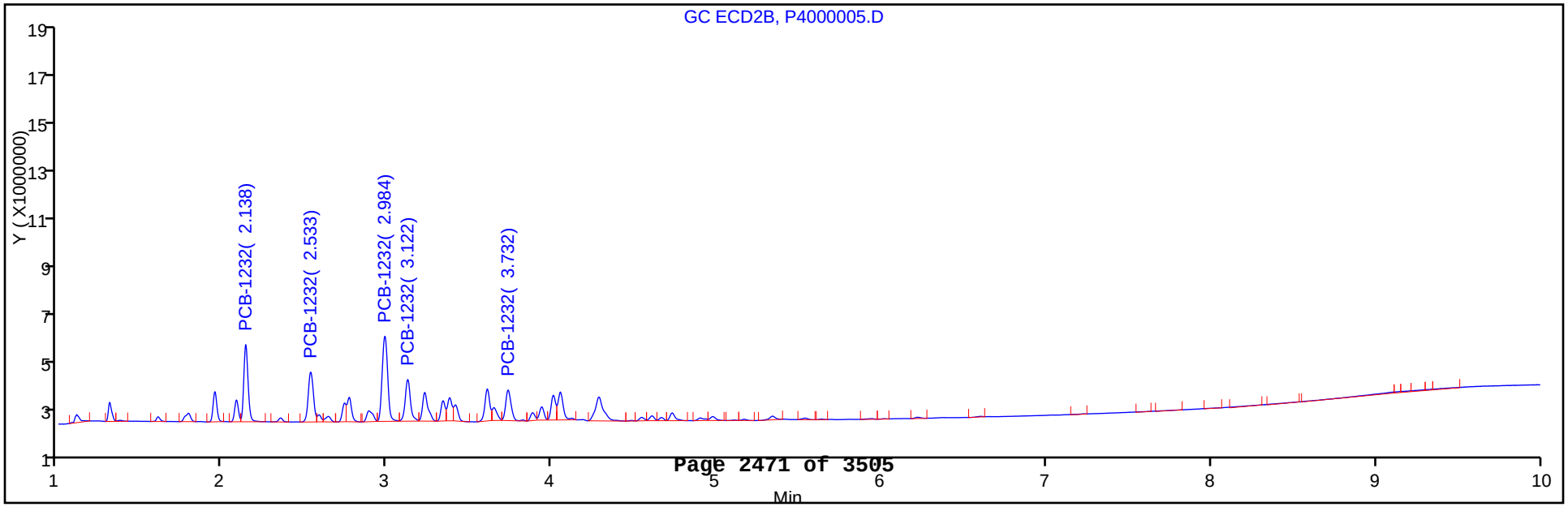
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000005.D

Injection Date:	15-Apr-2013 00:13:40	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000006.D
Lims ID: STD05 1232 Client ID:
Inject. Date: 15-Apr-2013 00:29:19 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018824-006
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 81761 Lims Sample ID: 6
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:38 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.539	1.538	0.001	14125994	0.4712		100.0	
1	2	1.821	1.820	0.001	9868532	0.4545	51.4- 101.4	69.9	
1	3	2.211	2.210	0.001	19549004	0.4842	101.9- 151.9	138.4	
1	4	2.332	2.330	0.002	8754740	0.5045	30.8- 80.8	62.0	
1	5	2.710	2.707	0.003	7853899	0.4847	29.6- 79.6	55.6	
			Average of Peak Amounts =			0.4798			
2	6	2.139	2.136	0.003	13574790	0.4649		100.0	
2	7	2.534	2.531	0.003	11644076	0.4907	47.8- 107.8	85.8	
2	8	2.985	2.980	0.005	20093090	0.4722	111.9- 171.9	148.0	
2	9	3.123	3.120	0.003	8887201	0.4457	36.1- 96.1	65.5	
2	10	3.733	3.727	0.006	7197440	0.4622	20.4- 80.4	53.0	
			Average of Peak Amounts =			0.4671			
						RPD = 2.68			

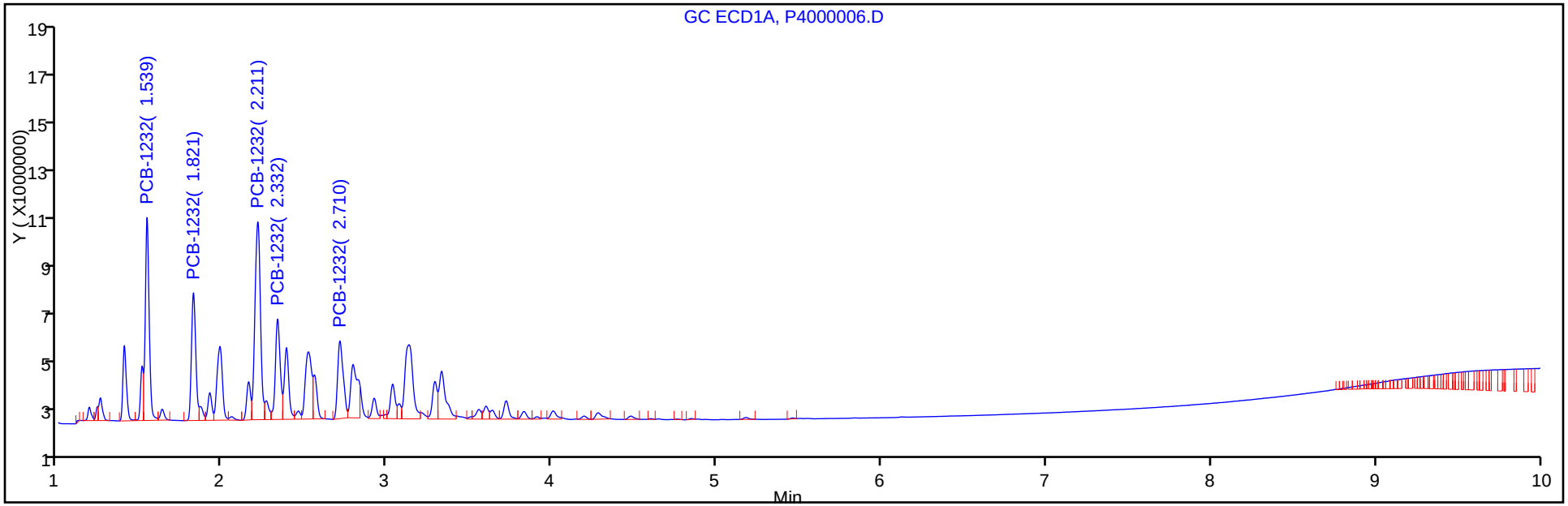
Report Date: 15-Apr-2013 13:04:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

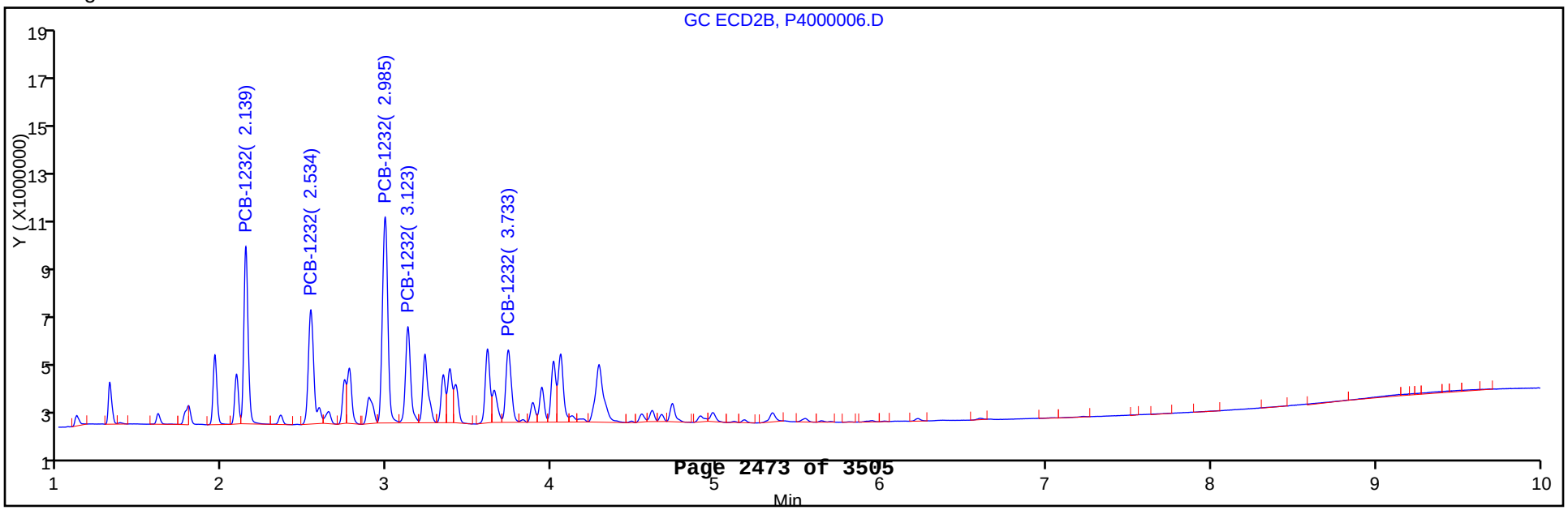
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000006.D

Injection Date:	15-Apr-2013 00:29:19	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000007.D
Lims ID: STD1 1232 Client ID:
Inject. Date: 15-Apr-2013 00:44:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-007
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 81761 Lims Sample ID: 7
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:40 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.539	1.538	0.001	27056868	0.9026		100.0	
1	2	1.821	1.820	0.001	18766909	0.8643	51.4- 101.4	69.4	
1	3	2.213	2.210	0.003	38931784	0.9643	101.9- 151.9	143.9	
1	4	2.332	2.330	0.002	17039321	0.9818	30.8- 80.8	63.0	
1	5	2.709	2.707	0.002	15263717	0.9420	29.6- 79.6	56.4	
			Average of Peak Amounts =			0.9310			
2	6	2.138	2.136	0.002	26596872	0.9109		100.0	
2	7	2.533	2.531	0.002	20384639	0.8590	47.8- 107.8	76.6	
2	8	2.984	2.980	0.004	40746418	0.9576	111.9- 171.9	153.2	
2	9	3.123	3.120	0.003	17982813	0.9018	36.1- 96.1	67.6	
2	10	3.733	3.727	0.006	14725802	0.9456	20.4- 80.4	55.4	
			Average of Peak Amounts =			0.9150			
						RPD = 1.74			

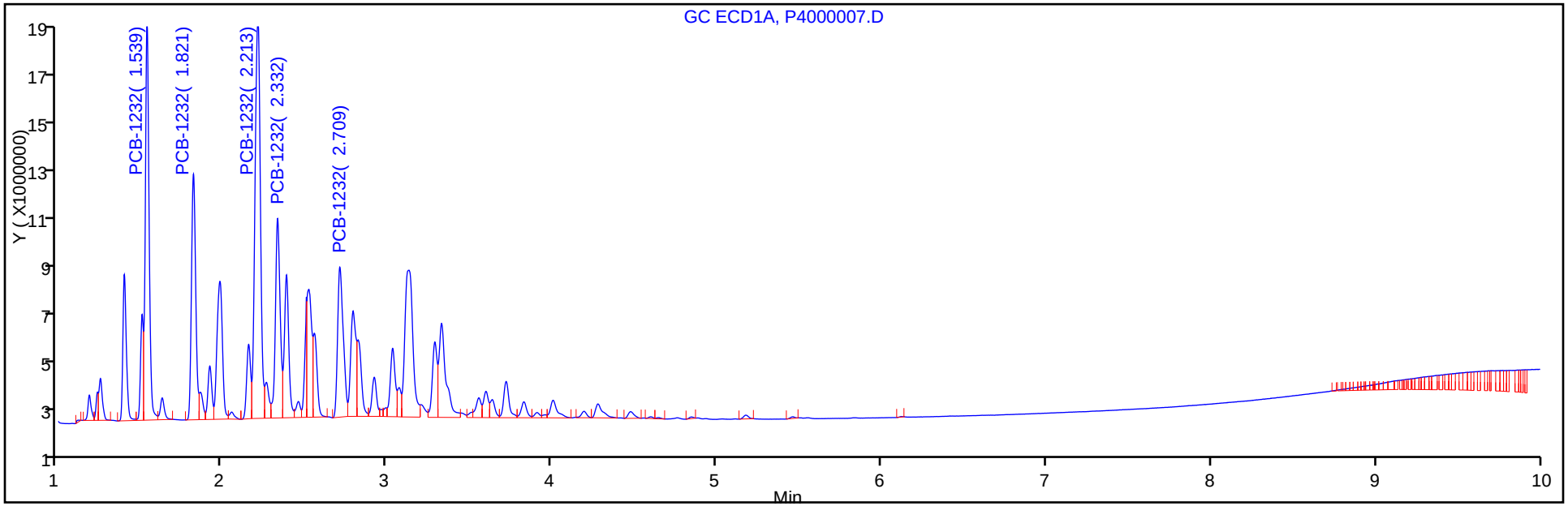
Report Date: 15-Apr-2013 13:04:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

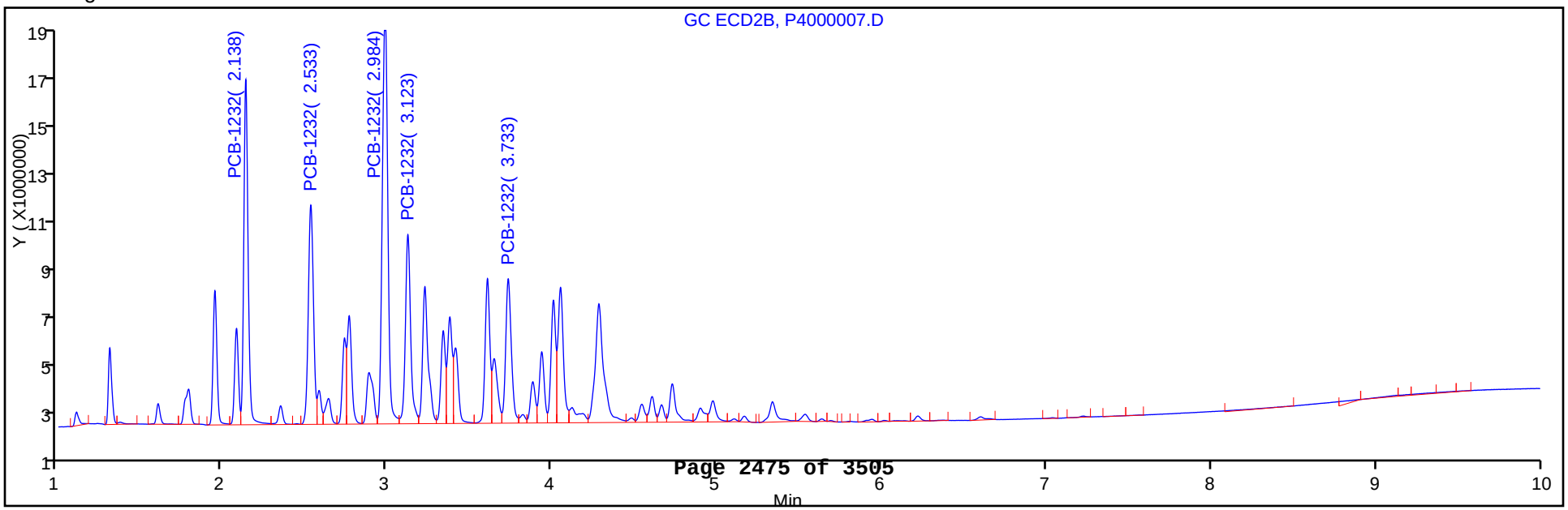
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000007.D

Injection Date:	15-Apr-2013 00:44:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000008.D
Lims ID: STD2 1232 Client ID:
Inject. Date: 15-Apr-2013 01:00:35 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-008
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 81761 Lims Sample ID: 8
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.538	1.538	0.000	51756980	1.73		100.0	
1	2	1.821	1.820	0.001	36272560	1.67	51.4- 101.4	70.1	
1	3	2.211	2.210	0.001	78906477	1.95	101.9- 151.9	152.5	
1	4	2.331	2.330	0.001	33938679	1.96	30.8- 80.8	65.6	
1	5	2.708	2.707	0.001	30007455	1.85	29.6- 79.6	58.0	
			Average of Peak Amounts =			1.83			
2	6	2.138	2.136	0.002	51081361	1.75		100.0	
2	7	2.533	2.531	0.002	39302362	1.66	47.8- 107.8	76.9	
2	8	2.984	2.980	0.004	82540487	1.94	111.9- 171.9	161.6	
2	9	3.123	3.120	0.003	35771213	1.79	36.1- 96.1	70.0	
2	10	3.732	3.727	0.005	29503749	1.89	20.4- 80.4	57.8	
			Average of Peak Amounts =			1.81			
						RPD = 1.38			

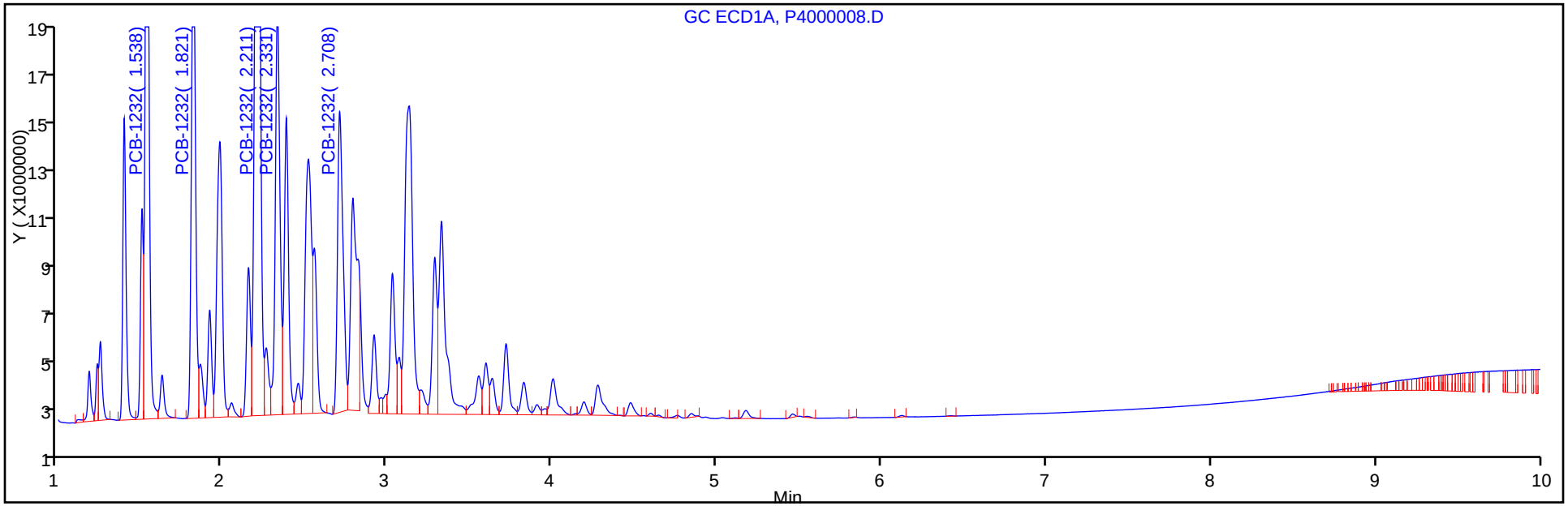
Report Date: 15-Apr-2013 13:04:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

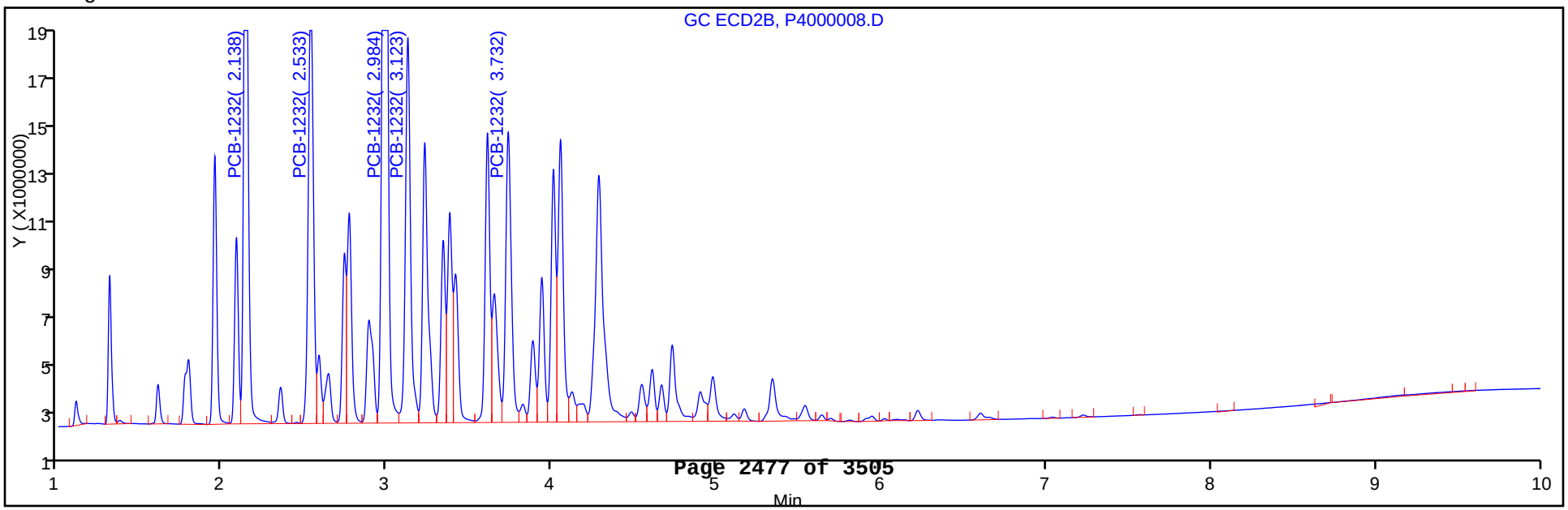
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000008.D

Injection Date:	15-Apr-2013 01:00:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/14/2013 23:42 Calibration End Date: 04/15/2013 01:00 Calibration ID: 14510

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/3	P4000003.D
Level 2	STD01 240-81761/4	P4000004.D
Level 3	STD02 240-81761/5	P4000005.D
Level 4	STD05 240-81761/6	P4000006.D
Level 5	STD1 240-81761/7	P4000007.D
Level 6	STD2 240-81761/8	P4000008.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	2.136	2.137	2.138	2.139	2.138	2.138					2.036 - 2.236	2.138
PCB-1232 Peak 2	2.531	2.532	2.533	2.534	2.533	2.533					2.431 - 2.631	2.533
PCB-1232 Peak 3	2.980	2.983	2.984	2.985	2.984	2.984					2.880 - 3.080	2.983
PCB-1232 Peak 4	3.120	3.122	3.122	3.123	3.123	3.123					3.020 - 3.220	3.122
PCB-1232 Peak 5	3.727	3.730	3.732	3.733	3.733	3.732					3.627 - 3.827	3.731

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/14/2013 23:42 Calibration End Date: 04/15/2013 01:00 Calibration ID: 14510

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/3	P4000003.D
Level 2	STD01 240-81761/4	P4000004.D
Level 3	STD02 240-81761/5	P4000005.D
Level 4	STD05 240-81761/6	P4000006.D
Level 5	STD1 240-81761/7	P4000007.D
Level 6	STD2 240-81761/8	P4000008.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	34319780 26596872	31864510 25540681	29718200	27149580	Ave		29198270.4				12.0		20.0			
PCB-1232 Peak 2	28464940 20384639	27486790 19651181	23108840	23288152	Ave		23730757.0				15.0		20.0			
PCB-1232 Peak 3	46517620 40746418	44417970 41270244	42169920	40186180	Ave		42551391.9				5.7		20.0			
PCB-1232 Peak 4	24651720 17982813	21701540 17885607	19653825	17774402	Ave		19941651.1				14.0		20.0			
PCB-1232 Peak 5	17907640 14725802	16673730 14751874	14983040	14394880	Ave		15572827.8				9.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/14/2013 23:42 Calibration End Date: 04/15/2013 01:00 Calibration ID: 14510

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/3	P4000003.D
Level 2	STD01 240-81761/4	P4000004.D
Level 3	STD02 240-81761/5	P4000005.D
Level 4	STD05 240-81761/6	P4000006.D
Level 5	STD1 240-81761/7	P4000007.D
Level 6	STD2 240-81761/8	P4000008.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	1715989 51081361	3186451	5943640	13574790	26596872	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	Ave	1423247 39302362	2748679	4621768	11644076	20384639	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	Ave	2325881 82540487	4441797	8433984	20093090	40746418	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	Ave	1232586 35771213	2170154	3930765	8887201	17982813	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	Ave	895382 29503749	1667373	2996608	7197440	14725802	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000003.D
Lims ID: STD005 1232 Client ID:
Inject. Date: 14-Apr-2013 23:42:10 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 81761 Lims Sample ID: 3
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:34 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.538	1.538	0.000	1734590	0.0579		100.0	
1	2	1.820	1.820	0.000	1221014	0.0562	51.4- 101.4	70.4	
1	3	2.210	2.210	0.000	2185193	0.0541	101.9- 151.9	126.0	
1	4	2.330	2.330	0.000	925611	0.0533	30.8- 80.8	53.4	
1	5	2.707	2.707	0.000	898780	0.0555	29.6- 79.6	51.8	
			Average of Peak Amounts =			0.0554			
2	6	2.136	2.136	0.000	1715989	0.0588		100.0	
2	7	2.531	2.531	0.000	1423247	0.0600	47.8- 107.8	82.9	
2	8	2.980	2.980	0.000	2325881	0.0547	111.9- 171.9	135.5	
2	9	3.120	3.120	0.000	1232586	0.0618	36.1- 96.1	71.8	
2	10	3.727	3.727	0.000	895382	0.0575	20.4- 80.4	52.2	
			Average of Peak Amounts =			0.0585			
						RPD = 5.51			

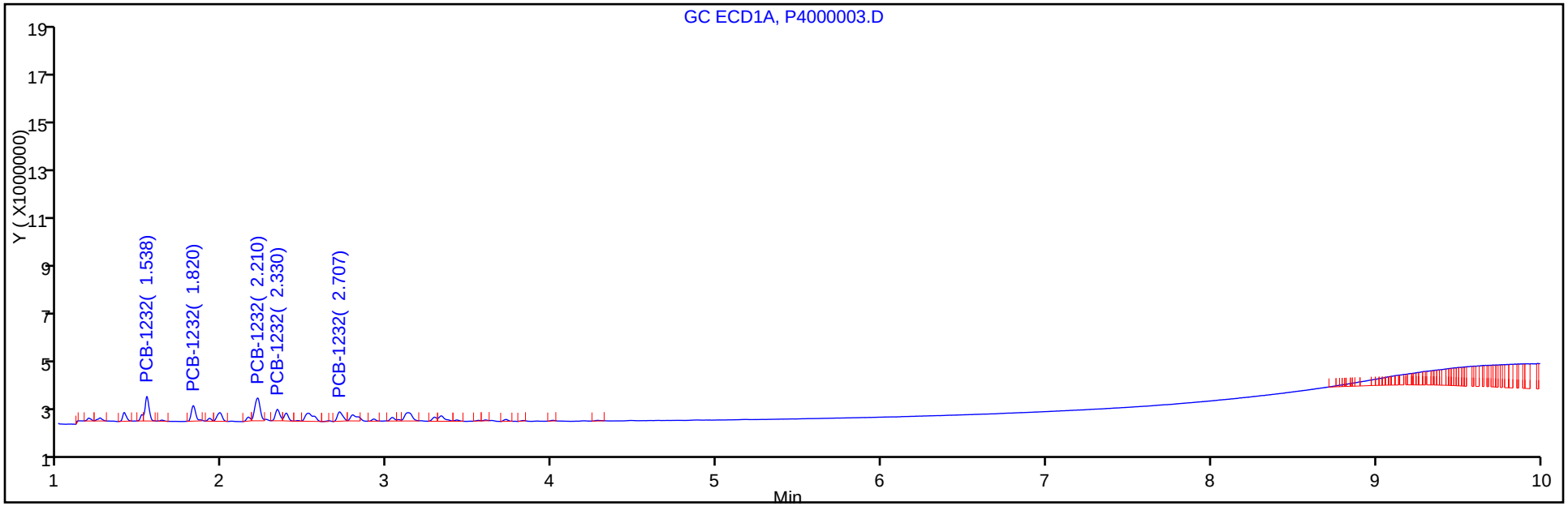
Report Date: 15-Apr-2013 13:04:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

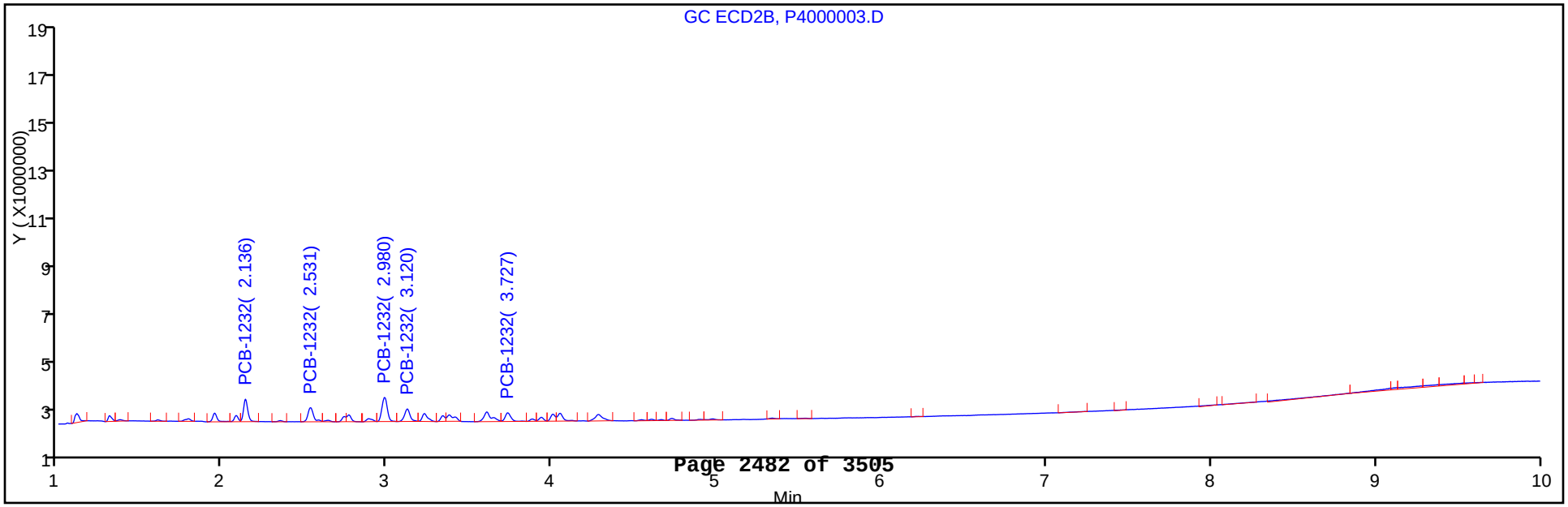
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000003.D

Injection Date:	14-Apr-2013 23:42:10	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000004.D
Lims ID: STD01 1232 Client ID:
Inject. Date: 14-Apr-2013 23:57:54 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018824-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 81761 Lims Sample ID: 4
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.538	1.538	0.000	3281803	0.1095		100.0	
1	2	1.820	1.820	0.000	2539513	0.1170	51.4- 101.4	77.4	
1	3	2.211	2.210	0.001	4149649	0.1028	101.9- 151.9	126.4	
1	4	2.331	2.330	0.001	1671383	0.0963	30.8- 80.8	50.9	
1	5	2.709	2.707	0.002	1623841	0.1002	29.6- 79.6	49.5	
			Average of Peak Amounts =			0.1051			
2	6	2.137	2.136	0.001	3186451	0.1091		100.0	
2	7	2.532	2.531	0.001	2748679	0.1158	47.8- 107.8	86.3	
2	8	2.983	2.980	0.003	4441797	0.1044	111.9- 171.9	139.4	
2	9	3.122	3.120	0.002	2170154	0.1088	36.1- 96.1	68.1	
2	10	3.730	3.727	0.003	1667373	0.1071	20.4- 80.4	52.3	
			Average of Peak Amounts =			0.1090			
						RPD = 3.64			

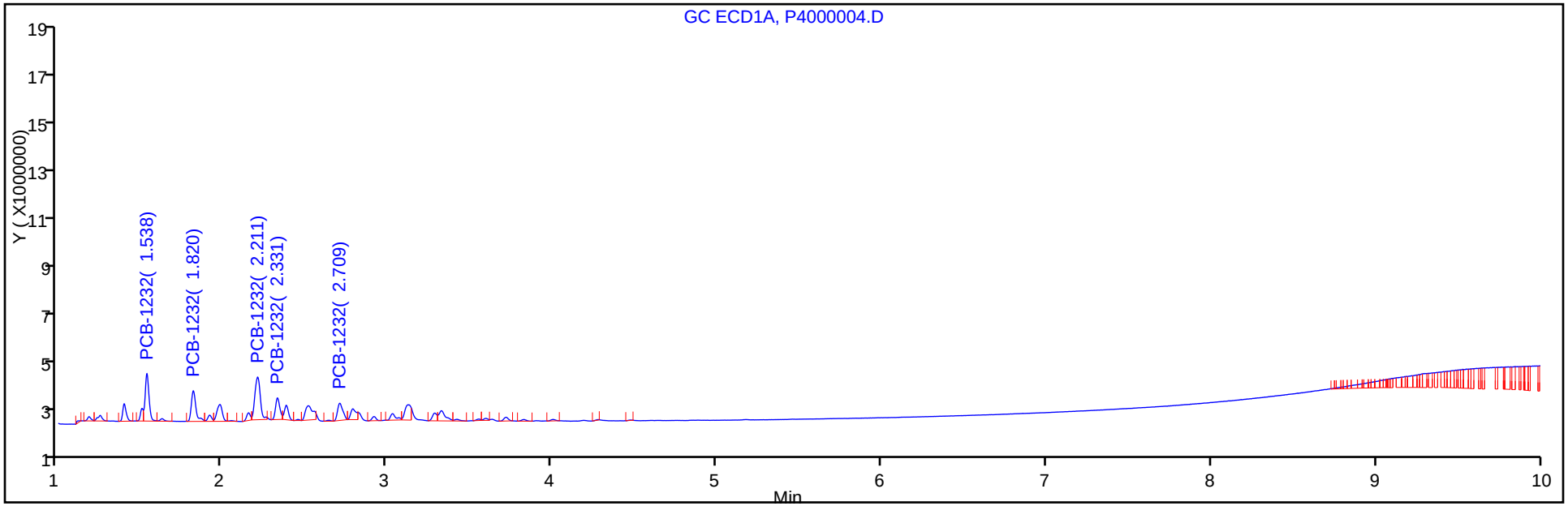
Report Date: 15-Apr-2013 13:04:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

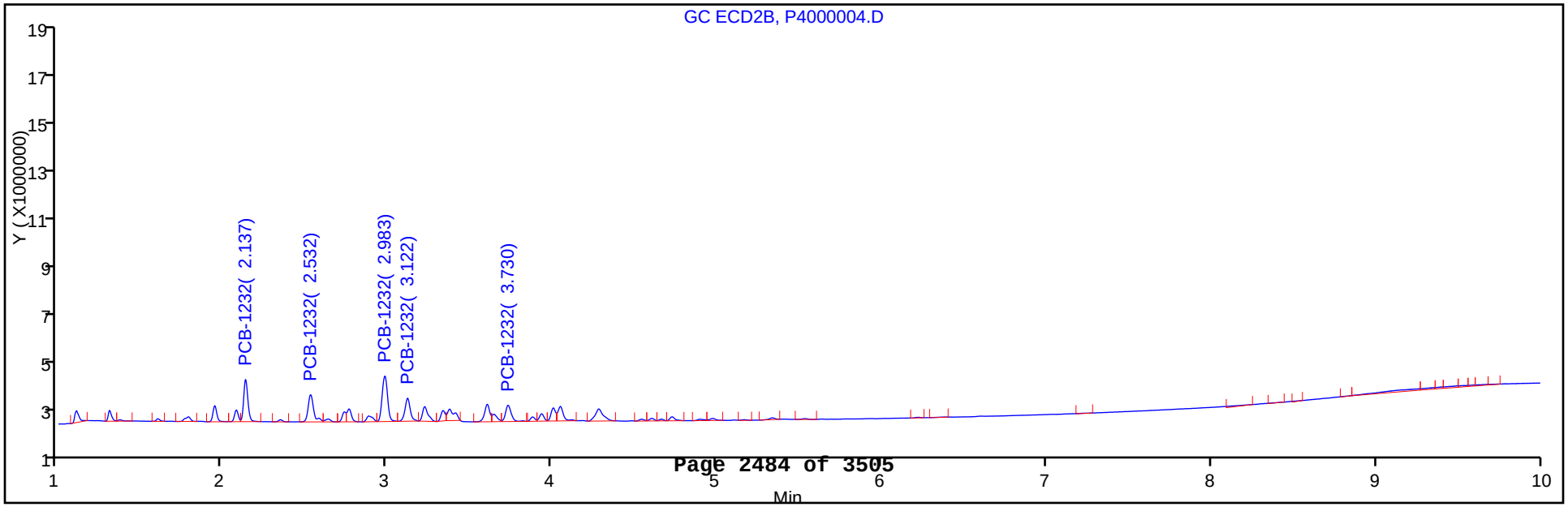
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000004.D

Injection Date:	14-Apr-2013 23:57:54	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000005.D
Lims ID: STD02 1232 Client ID:
Inject. Date: 15-Apr-2013 00:13:40 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-005
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 5
Lims Batch ID: 81761 Lims Sample ID: 5
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:37 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.539	1.538	0.001	6234384	0.2080		100.0	
1	2	1.821	1.820	0.001	4764043	0.2194	51.4- 101.4	76.4	
1	3	2.211	2.210	0.001	7911184	0.1960	101.9- 151.9	126.9	
1	4	2.332	2.330	0.002	3476503	0.2003	30.8- 80.8	55.8	
1	5	2.709	2.707	0.002	3406563	0.2102	29.6- 79.6	54.6	
			Average of Peak Amounts =			0.2068			
2	6	2.138	2.136	0.002	5943640	0.2036		100.0	
2	7	2.533	2.531	0.002	4621768	0.1948	47.8- 107.8	77.8	
2	8	2.984	2.980	0.004	8433984	0.1982	111.9- 171.9	141.9	
2	9	3.122	3.120	0.002	3930765	0.1971	36.1- 96.1	66.1	
2	10	3.732	3.727	0.005	2996608	0.1924	20.4- 80.4	50.4	
			Average of Peak Amounts =			0.1972			
						RPD = 4.73			

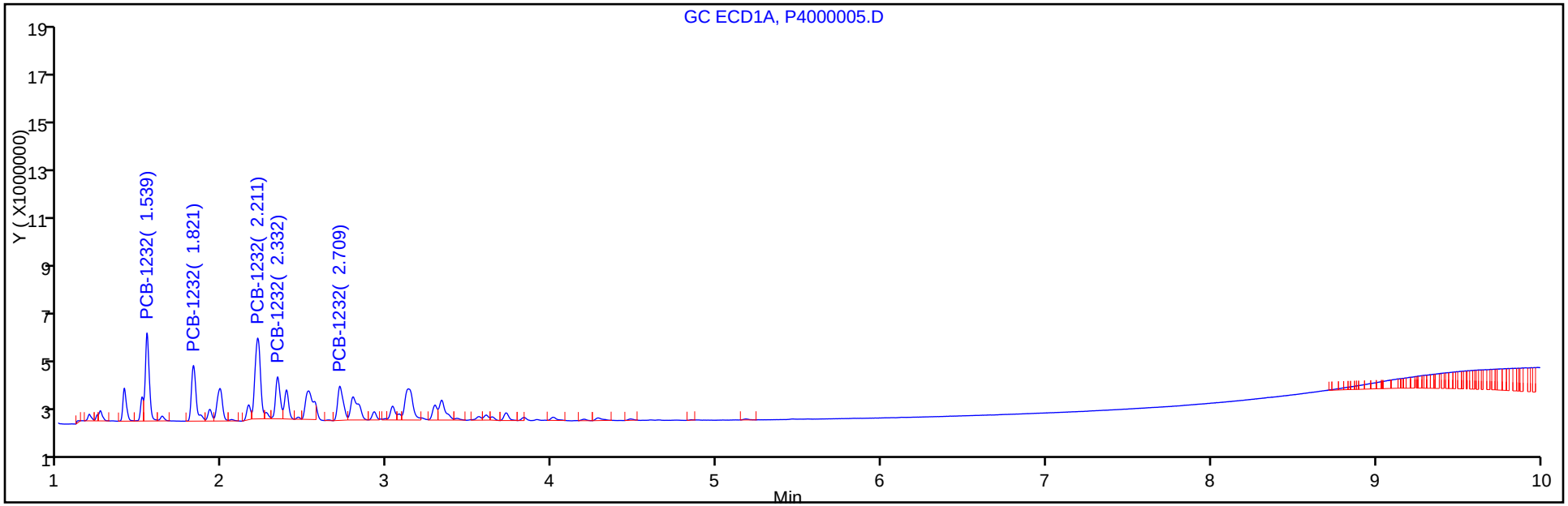
Report Date: 15-Apr-2013 13:04:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

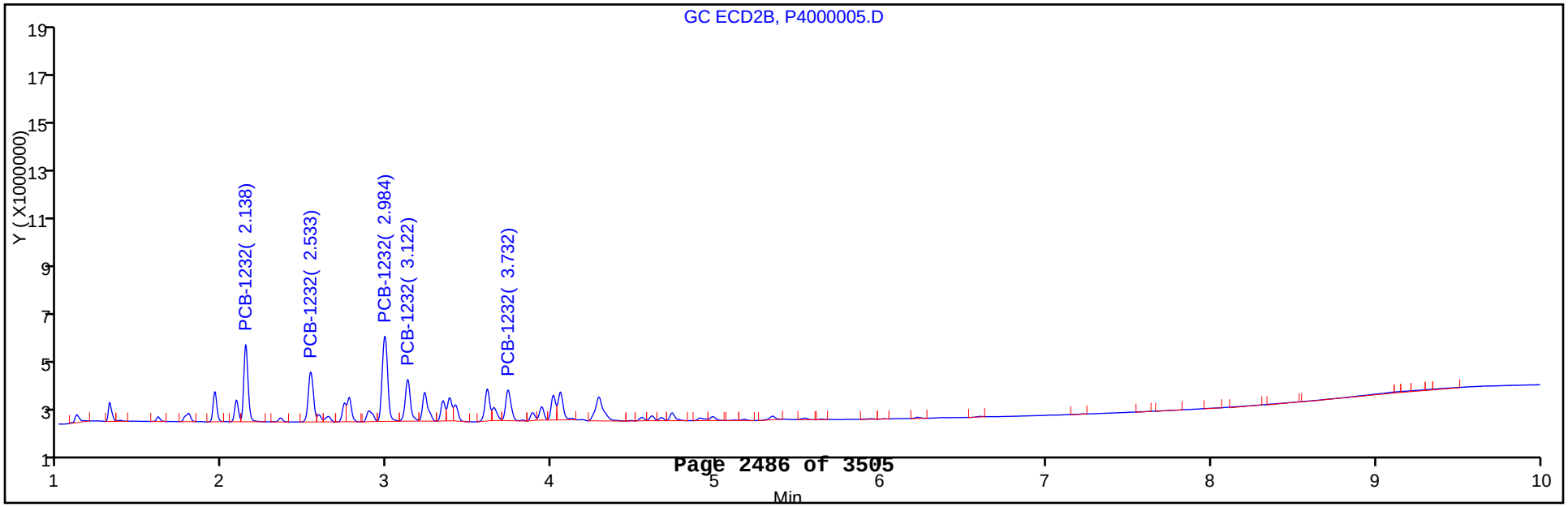
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000005.D

Injection Date:	15-Apr-2013 00:13:40	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000006.D
Lims ID: STD05 1232 Client ID:
Inject. Date: 15-Apr-2013 00:29:19 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018824-006
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 81761 Lims Sample ID: 6
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:38 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.539	1.538	0.001	14125994	0.4712		100.0	
1	2	1.821	1.820	0.001	9868532	0.4545	51.4- 101.4	69.9	
1	3	2.211	2.210	0.001	19549004	0.4842	101.9- 151.9	138.4	
1	4	2.332	2.330	0.002	8754740	0.5045	30.8- 80.8	62.0	
1	5	2.710	2.707	0.003	7853899	0.4847	29.6- 79.6	55.6	
			Average of Peak Amounts =			0.4798			
2	6	2.139	2.136	0.003	13574790	0.4649		100.0	
2	7	2.534	2.531	0.003	11644076	0.4907	47.8- 107.8	85.8	
2	8	2.985	2.980	0.005	20093090	0.4722	111.9- 171.9	148.0	
2	9	3.123	3.120	0.003	8887201	0.4457	36.1- 96.1	65.5	
2	10	3.733	3.727	0.006	7197440	0.4622	20.4- 80.4	53.0	
			Average of Peak Amounts =			0.4671			
						RPD = 2.68			

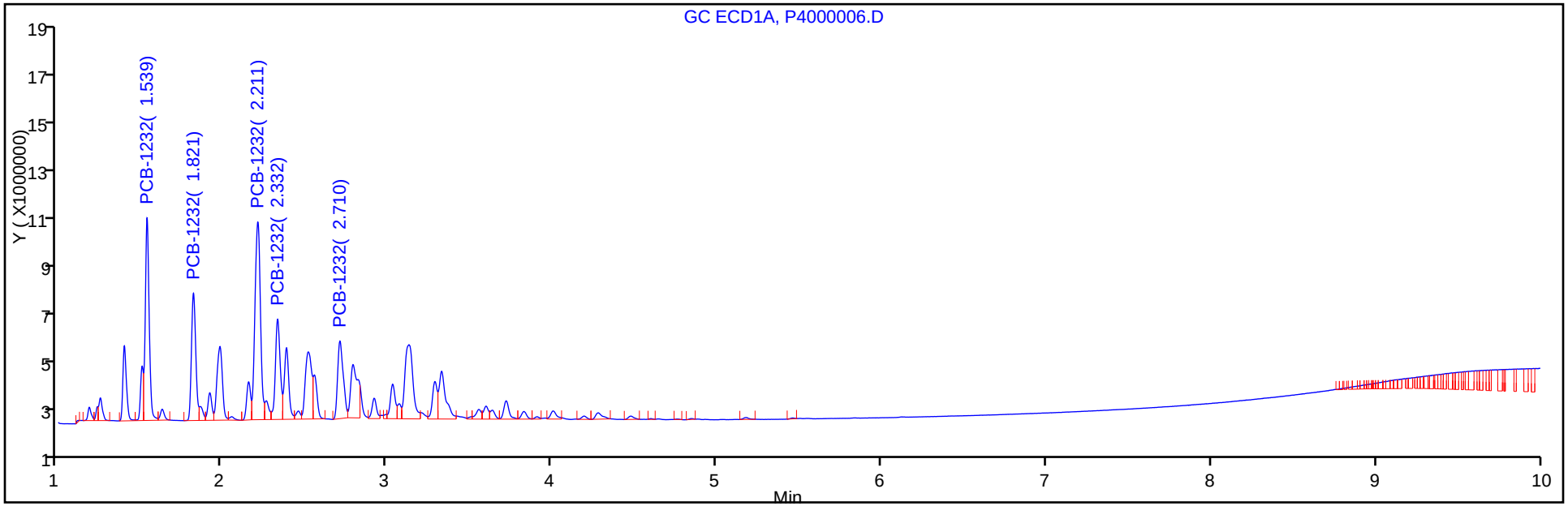
Report Date: 15-Apr-2013 13:04:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

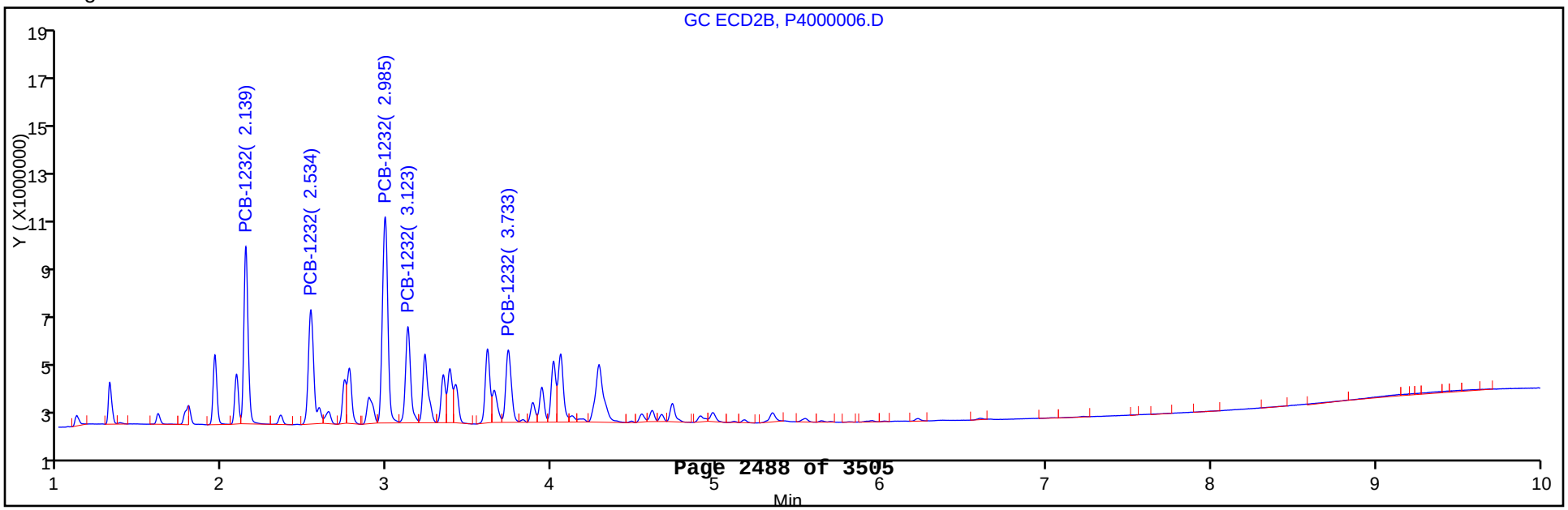
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000006.D

Injection Date:	15-Apr-2013 00:29:19	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000007.D
Lims ID: STD1 1232 Client ID:
Inject. Date: 15-Apr-2013 00:44:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-007
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 81761 Lims Sample ID: 7
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:40 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.539	1.538	0.001	27056868	0.9026		100.0	
1	2	1.821	1.820	0.001	18766909	0.8643	51.4- 101.4	69.4	
1	3	2.213	2.210	0.003	38931784	0.9643	101.9- 151.9	143.9	
1	4	2.332	2.330	0.002	17039321	0.9818	30.8- 80.8	63.0	
1	5	2.709	2.707	0.002	15263717	0.9420	29.6- 79.6	56.4	
			Average of Peak Amounts =			0.9310			
2	6	2.138	2.136	0.002	26596872	0.9109		100.0	
2	7	2.533	2.531	0.002	20384639	0.8590	47.8- 107.8	76.6	
2	8	2.984	2.980	0.004	40746418	0.9576	111.9- 171.9	153.2	
2	9	3.123	3.120	0.003	17982813	0.9018	36.1- 96.1	67.6	
2	10	3.733	3.727	0.006	14725802	0.9456	20.4- 80.4	55.4	
			Average of Peak Amounts =			0.9150			
						RPD = 1.74			

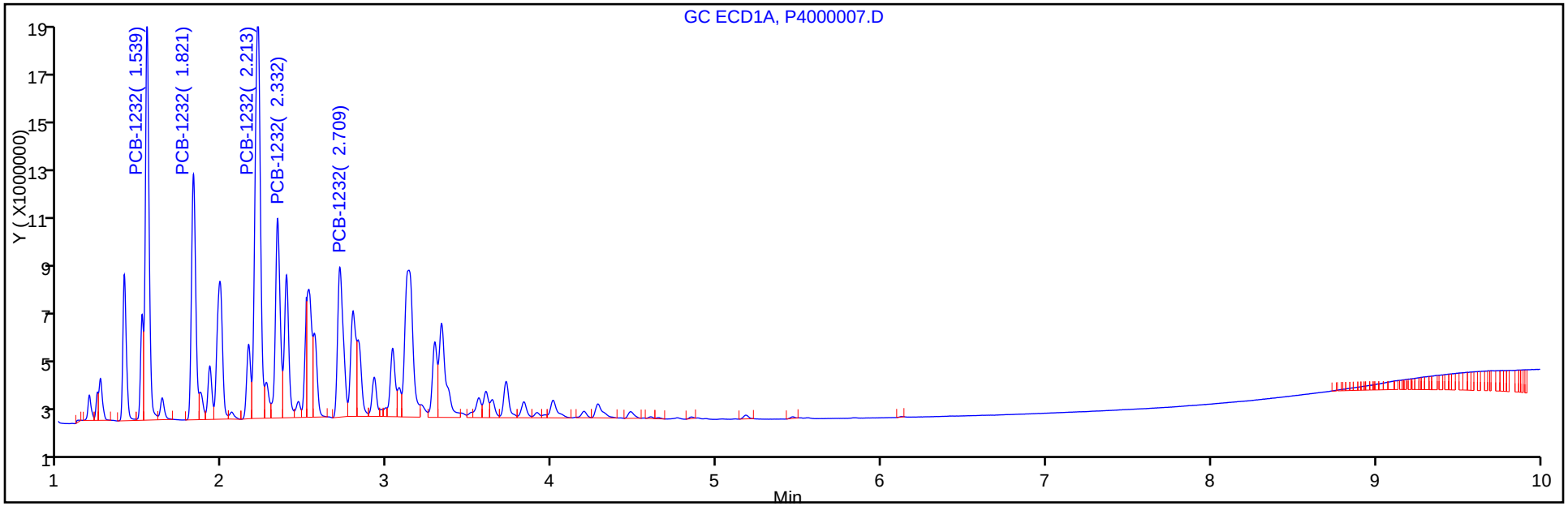
Report Date: 15-Apr-2013 13:04:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

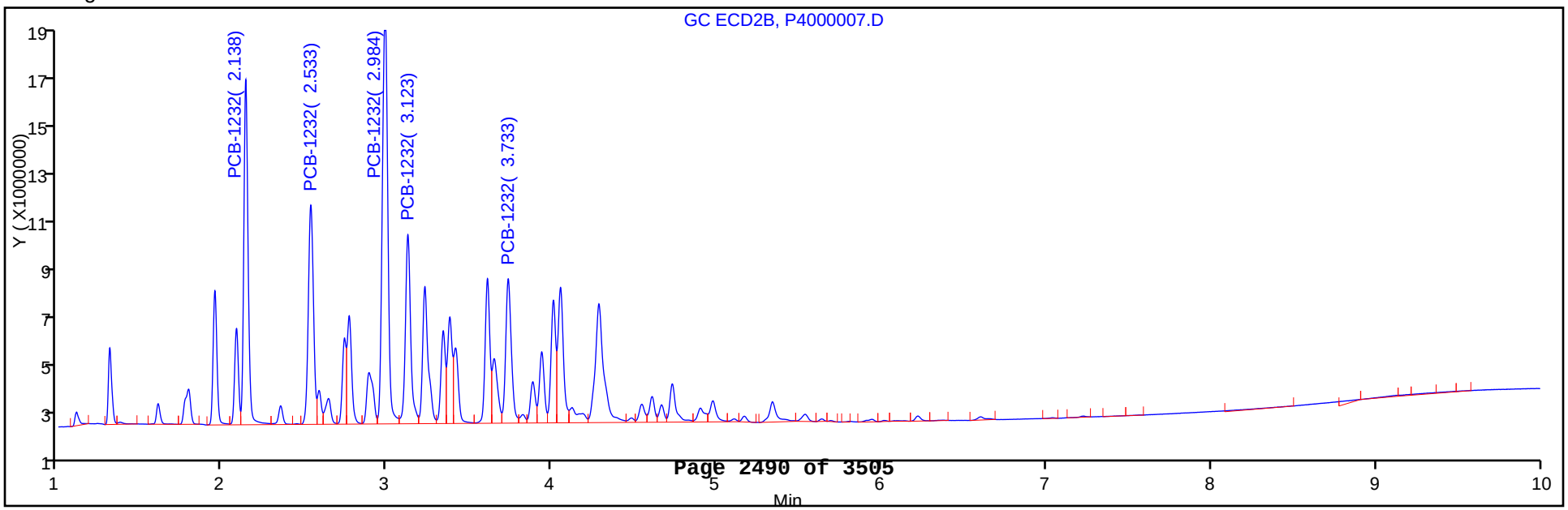
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000007.D

Injection Date:	15-Apr-2013 00:44:57	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000008.D
Lims ID: STD2 1232 Client ID:
Inject. Date: 15-Apr-2013 01:00:35 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-008
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 81761 Lims Sample ID: 8
Sublist: chrom-PCB4*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100	1.538	1.538	0.000	51756980	1.73		100.0	
1	2	1.821	1.820	0.001	36272560	1.67	51.4- 101.4	70.1	
1	3	2.211	2.210	0.001	78906477	1.95	101.9- 151.9	152.5	
1	4	2.331	2.330	0.001	33938679	1.96	30.8- 80.8	65.6	
1	5	2.708	2.707	0.001	30007455	1.85	29.6- 79.6	58.0	
			Average of Peak Amounts =			1.83			
2	6	2.138	2.136	0.002	51081361	1.75		100.0	
2	7	2.533	2.531	0.002	39302362	1.66	47.8- 107.8	76.9	
2	8	2.984	2.980	0.004	82540487	1.94	111.9- 171.9	161.6	
2	9	3.123	3.120	0.003	35771213	1.79	36.1- 96.1	70.0	
2	10	3.732	3.727	0.005	29503749	1.89	20.4- 80.4	57.8	
			Average of Peak Amounts =			1.81			
						RPD = 1.38			

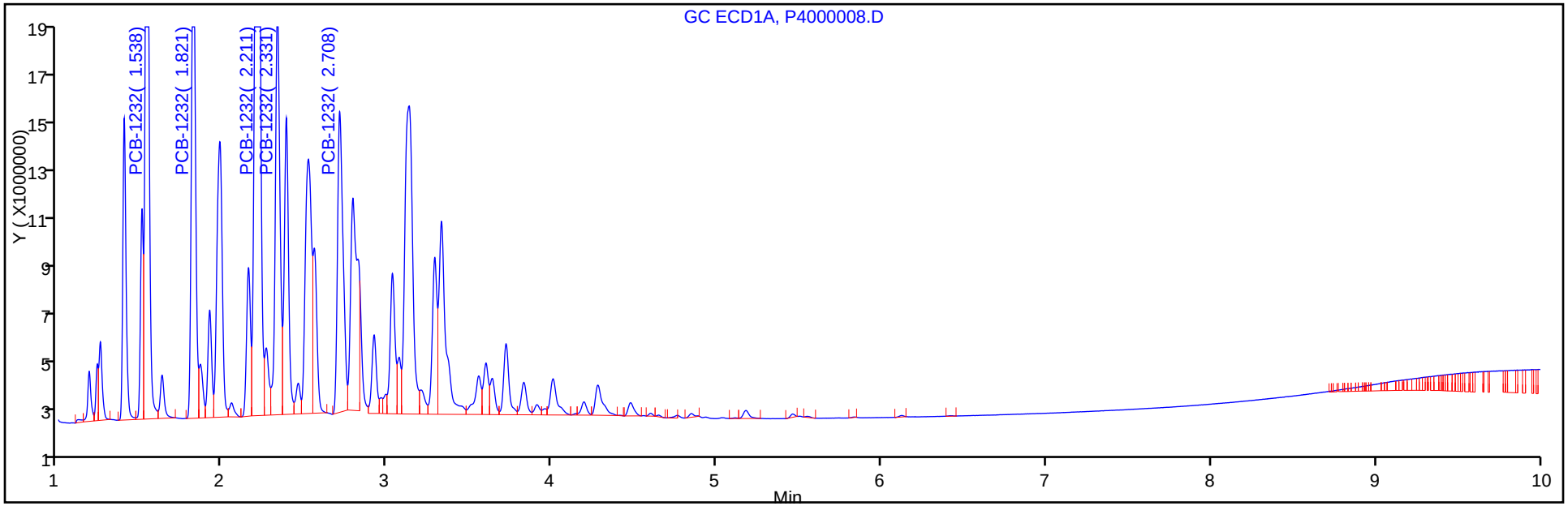
Report Date: 15-Apr-2013 13:04:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

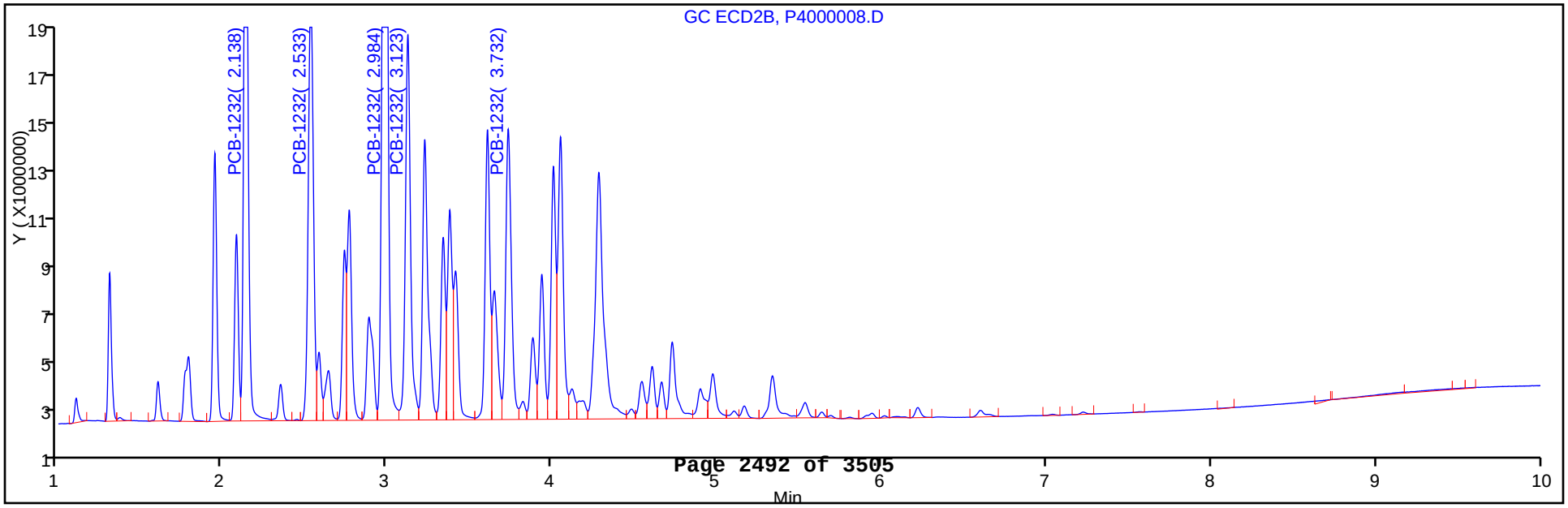
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000008.D

Injection Date:	15-Apr-2013 01:00:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 01:16 Calibration End Date: 04/15/2013 02:34 Calibration ID: 14515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/9	P4000009.D
Level 2	STD01 240-81761/10	P4000010.D
Level 3	STD02 240-81761/11	P4000011.D
Level 4	STD05 240-81761/12	P4000012.D
Level 5	STD1 240-81761/13	P4000013.D
Level 6	STD2 240-81761/14	P4000014.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	1.540	1.536	1.540	1.541	1.540	1.540					1.440 - 1.640	1.540
PCB-1242 Peak 2	1.821	1.821	1.821	1.822	1.822	1.822					1.721 - 1.921	1.822
PCB-1242 Peak 3	2.213	2.213	2.212	2.213	2.213	2.213					2.113 - 2.313	2.213
PCB-1242 Peak 4	2.333	2.334	2.333	2.334	2.333	2.333					2.233 - 2.433	2.333
PCB-1242 Peak 5	2.711	2.711	2.711	2.712	2.711	2.710					2.611 - 2.811	2.711

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 01:16 Calibration End Date: 04/15/2013 02:34 Calibration ID: 14515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/9	P4000009.D
Level 2	STD01 240-81761/10	P4000010.D
Level 3	STD02 240-81761/11	P4000011.D
Level 4	STD05 240-81761/12	P4000012.D
Level 5	STD1 240-81761/13	P4000013.D
Level 6	STD2 240-81761/14	P4000014.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	25213480 20136124	21482240 18252743	23357625	21013412	Ave		21575937.3				11.0		20.0			
PCB-1242 Peak 2	47308320 37109215	45275130 33501130	41691870	38177118	Ave		40510463.8				13.0		20.0			
PCB-1242 Peak 3	82336700 75642273	83759860 71963574	78707195	74425240	Ave		77805807.0				5.9		20.0			
PCB-1242 Peak 4	33622500 32957971	38347870 31391768	35585145	33222204	Ave		34187909.7				7.1		20.0			
PCB-1242 Peak 5	36830840 32115158	37888330 31488470	34865780	32803562	Ave		34332023.3				7.7		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 01:16 Calibration End Date: 04/15/2013 02:34 Calibration ID: 14515

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/9	P4000009.D
Level 2	STD01 240-81761/10	P4000010.D
Level 3	STD02 240-81761/11	P4000011.D
Level 4	STD05 240-81761/12	P4000012.D
Level 5	STD1 240-81761/13	P4000013.D
Level 6	STD2 240-81761/14	P4000014.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	1260674 36505486	2148224	4671525	10506706	20136124	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	2365416 67002260	4527513	8338374	19088559	37109215	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	4116835 143927148	8375986	15741439	37212620	75642273	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1681125 62783536	3834787	7117029	16611102	32957971	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Ave	1841542 62976939	3788833	6973156	16401781	32115158	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000009.D
Lims ID: STD005 1242 Client ID:
Inject. Date: 15-Apr-2013 01:16:16 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-009
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 81761 Lims Sample ID: 9
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:42 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:52:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.540	1.540	0.000	1260674	0.0584		100.0	
1	2	1.821	1.821	0.000	2365416	0.0584	153.5- 203.5	187.6	
1	3	2.213	2.213	0.000	4116835	0.0529	312.0- 362.0	326.6	
1	4	2.333	2.333	0.000	1681125	0.0492	127.3- 177.3	133.4	
1	5	2.711	2.711	0.000	1841542	0.0536	124.3- 174.3	146.1	
			Average of Peak Amounts =			0.0545			
2	6	2.140	2.140	0.000	1226997	0.0569		100.0	
2	7	2.535	2.535	0.000	2379583	0.0570	163.2- 223.2	193.9	
2	8	2.986	2.986	0.000	4248838	0.0527	335.3- 395.3	346.3	
2	9	3.123	3.123	0.000	1930091	0.0540	133.4- 193.4	157.3	
2	10	3.733	3.733	0.000	1836399	0.0544	119.1- 179.1	149.7	
			Average of Peak Amounts =			0.0550			
						RPD = 0.90			

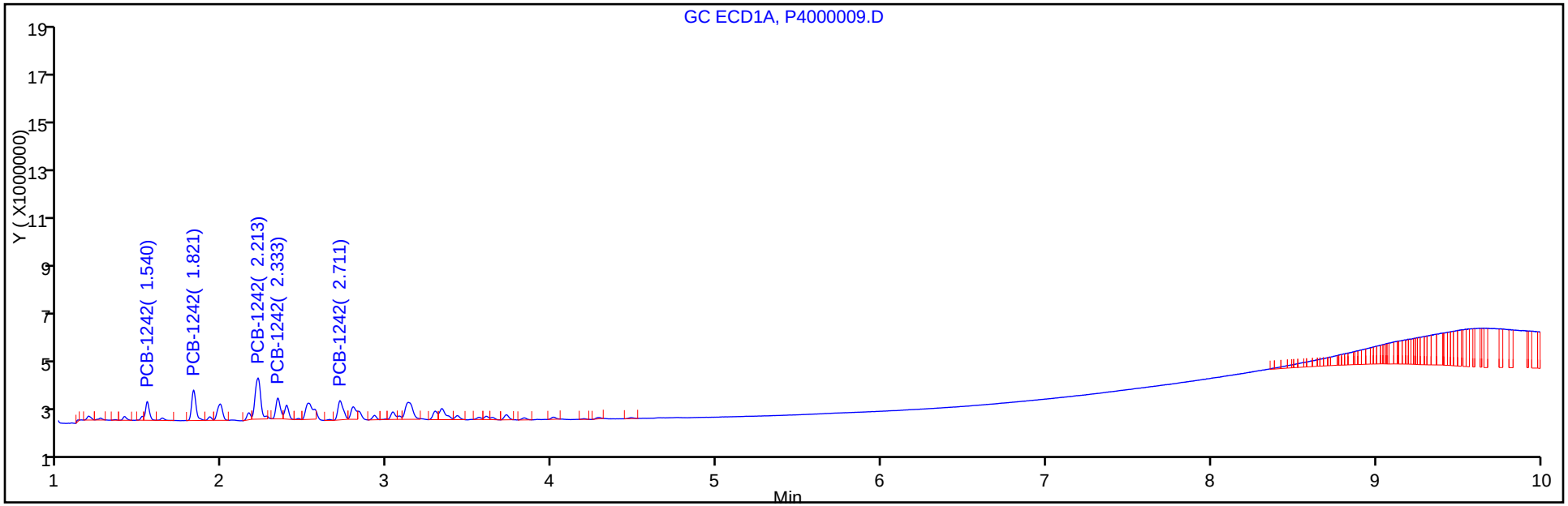
Report Date: 15-Apr-2013 13:04:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

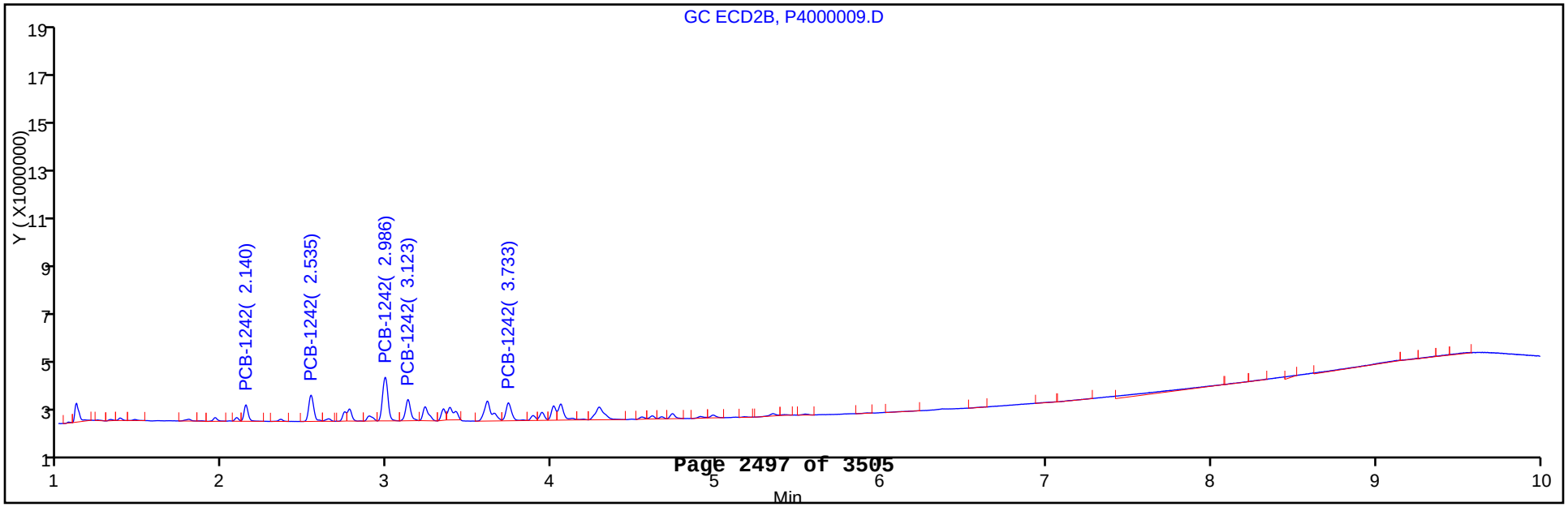
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000009.D

Injection Date:	15-Apr-2013 01:16:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000010.D
Lims ID: STD01 1242 Client ID:
Inject. Date: 15-Apr-2013 01:31:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018824-010
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 81761 Lims Sample ID: 10
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:44 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.536	1.540	-0.004	2148224	0.0996		100.0	
1	2	1.821	1.821	0.000	4527513	0.1118	153.5- 203.5	210.8	
1	3	2.213	2.213	0.000	8375986	0.1077	312.0- 362.0	389.9	
1	4	2.334	2.333	0.001	3834787	0.1122	127.3- 177.3	178.5	
1	5	2.711	2.711	0.000	3788833	0.1104	124.3- 174.3	176.4	
			Average of Peak Amounts =			0.1083			
2	6	2.140	2.140	0.000	2381598	0.1104		100.0	
2	7	2.535	2.535	0.000	4671714	0.1119	163.2- 223.2	196.2	
2	8	2.985	2.986	-0.001	8664077	0.1075	335.3- 395.3	363.8	
2	9	3.124	3.123	0.001	4080744	0.1143	133.4- 193.4	171.3	
2	10	3.734	3.733	0.001	3778301	0.1119	119.1- 179.1	158.6	
			Average of Peak Amounts =			0.1112			
						RPD = 2.62			

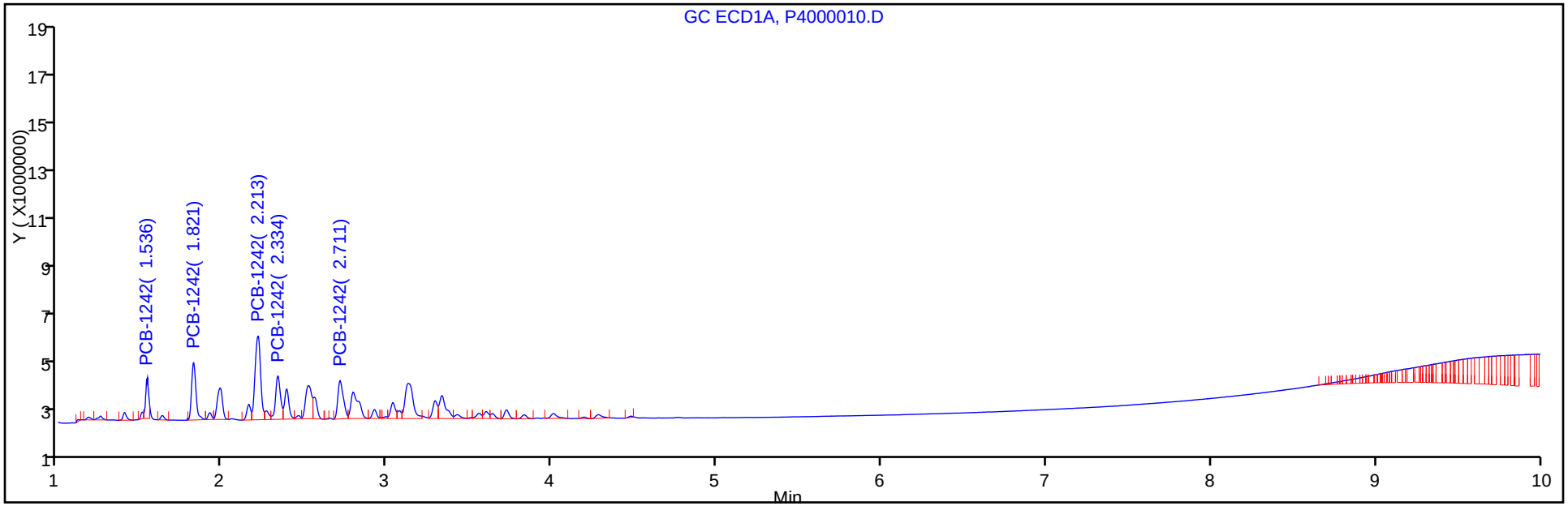
Report Date: 15-Apr-2013 13:04:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

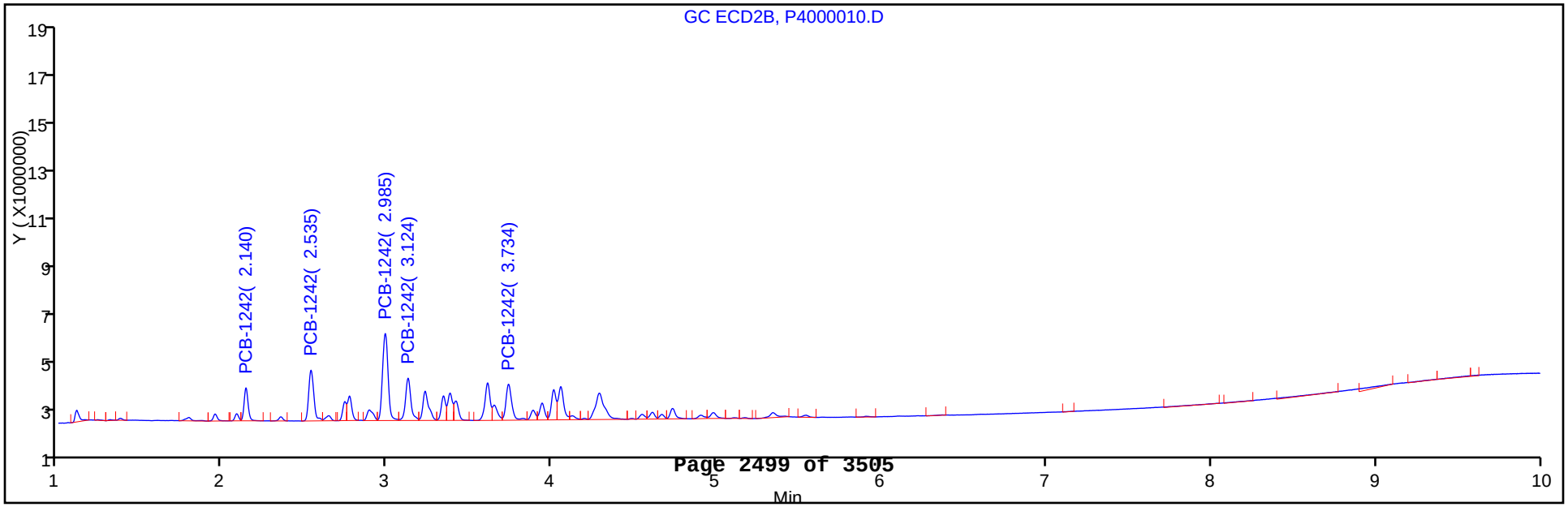
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000010.D

Injection Date:	15-Apr-2013 01:31:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000011.D
Lims ID: STD02 1242 Client ID:
Inject. Date: 15-Apr-2013 01:47:35 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-011
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 81761 Lims Sample ID: 11
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:45 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:53:05

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.540	1.540	0.000	4671525	0.2165		100.0	
1	2	1.821	1.821	0.000	8338374	0.2058	153.5- 203.5	178.5	
1	3	2.212	2.213	-0.001	15741439	0.2023	312.0- 362.0	337.0	M
1	4	2.333	2.333	0.000	7117029	0.2082	127.3- 177.3	152.3	M
1	5	2.711	2.711	0.000	6973156	0.2031	124.3- 174.3	149.3	M
			Average of Peak Amounts =			0.2072			
2	6	2.139	2.140	-0.001	4505873	0.2089		100.0	
2	7	2.534	2.535	-0.001	8706735	0.2085	163.2- 223.2	193.2	
2	8	2.986	2.986	0.000	16458445	0.2043	335.3- 395.3	365.3	
2	9	3.124	3.123	0.001	7362816	0.2061	133.4- 193.4	163.4	
2	10	3.734	3.733	0.001	6719791	0.1989	119.1- 179.1	149.1	
			Average of Peak Amounts =			0.2053			
						RPD = 0.90			

QC Flag Legend

Review Flags
M - Manually Integrated

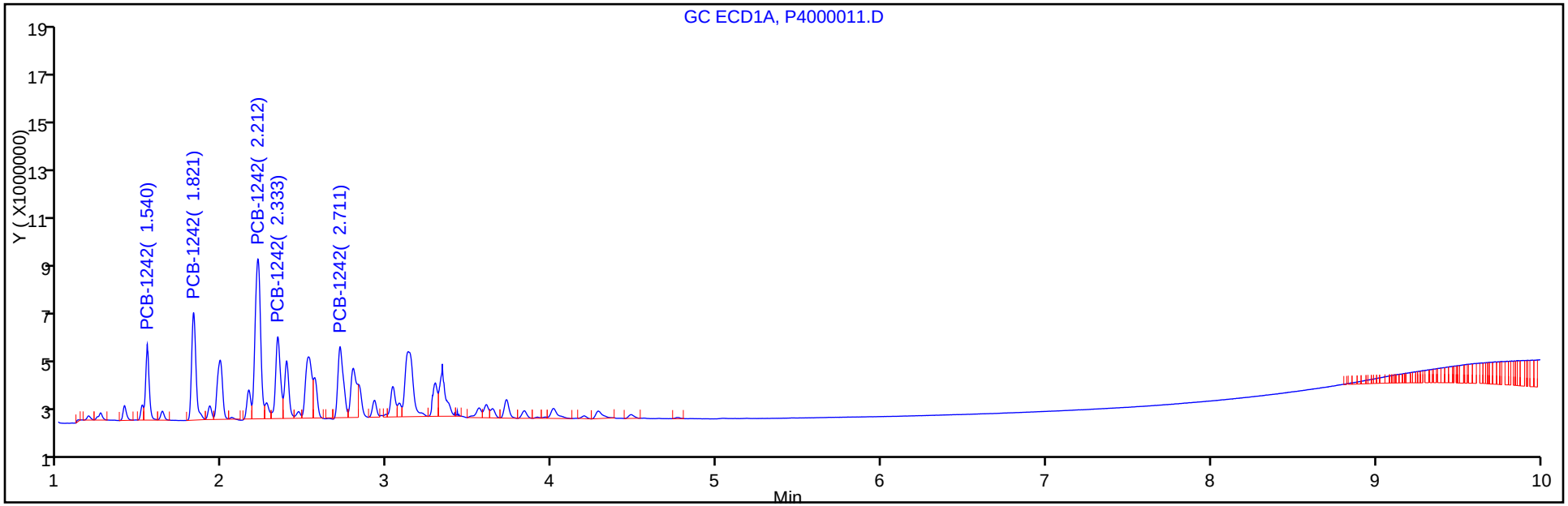
Report Date: 15-Apr-2013 13:04:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

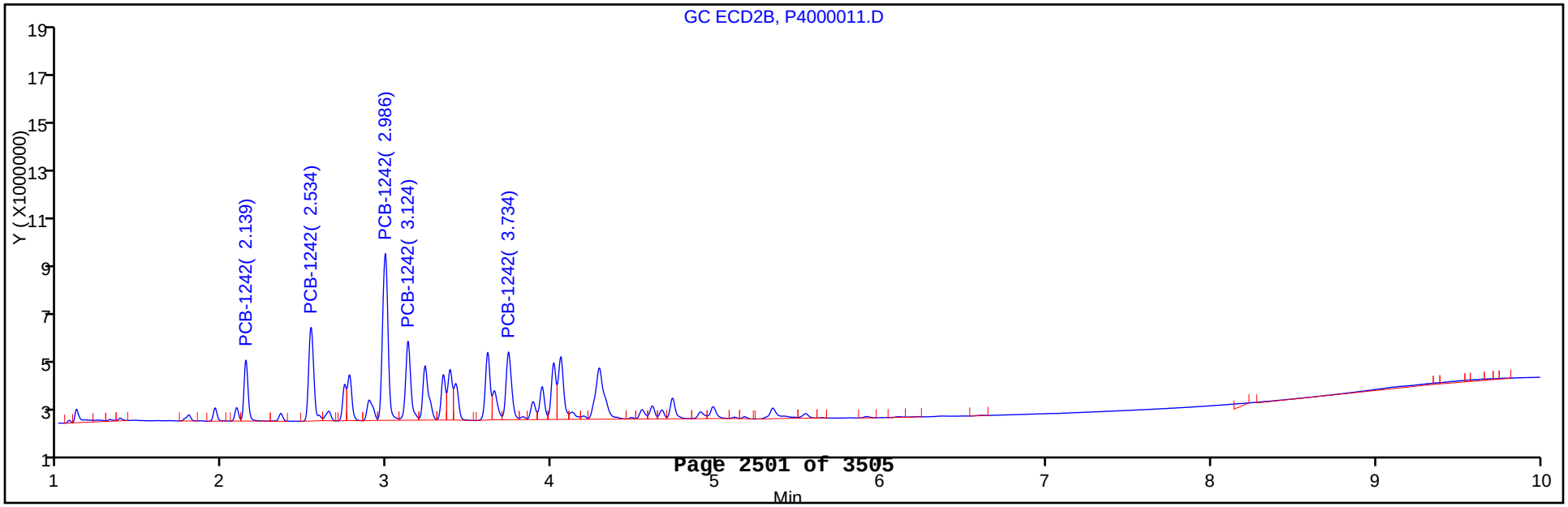
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000011.D

Injection Date:	15-Apr-2013 01:47:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



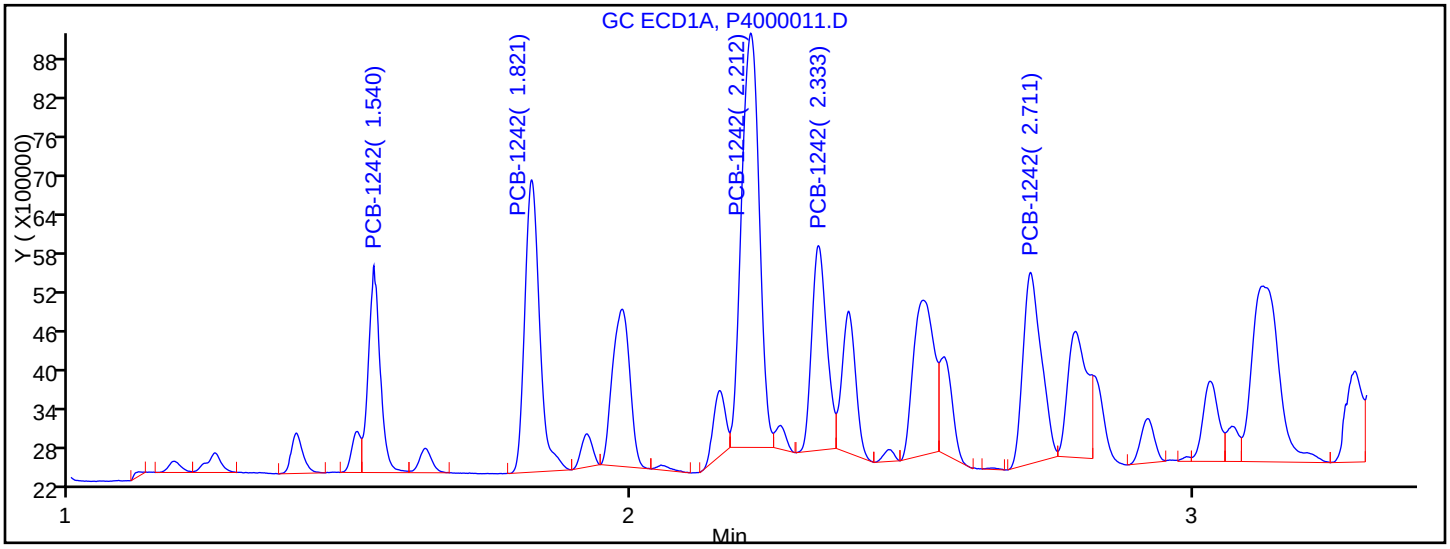
Report Date: 15-Apr-2013 13:04:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000011.D

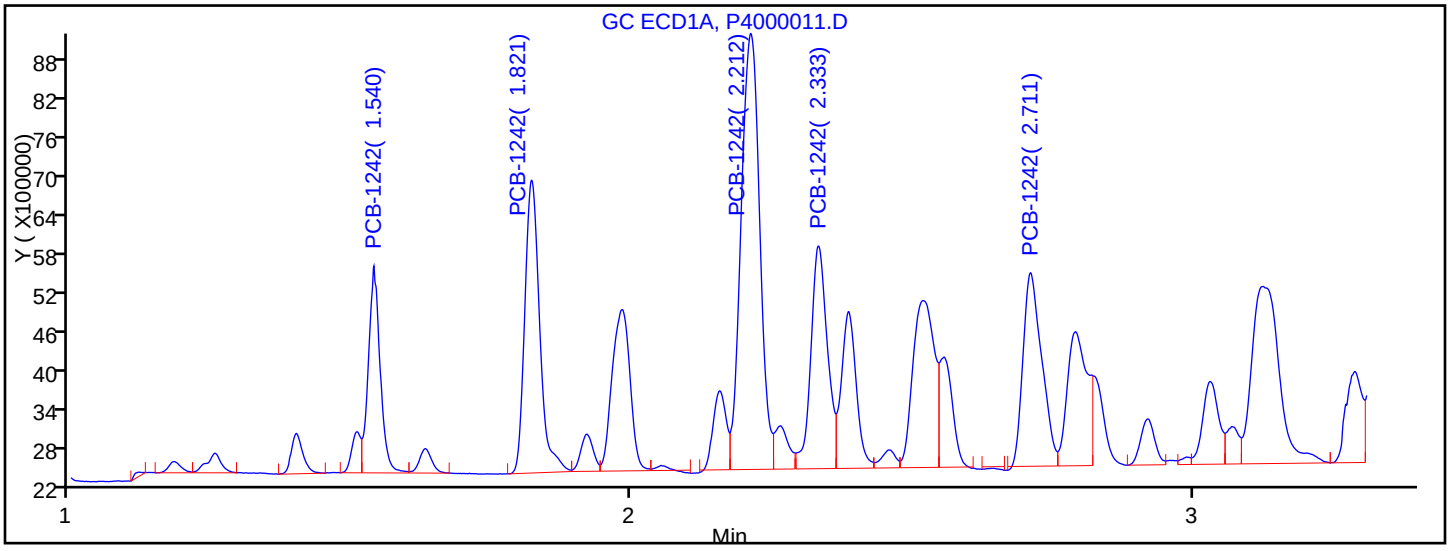
Injection Date:	15-Apr-2013 01:47:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 PCB-1242, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.540	Response = 4671525	
RT = 1.821	Response = 8338374	
RT = 2.212	Response = 14175851	M
RT = 2.333	Response = 5927442	M
RT = 2.711	Response = 6743240	M



Manual Integration Results

RT = 1.540	Response = 4671525	
RT = 1.821	Response = 8338374	
RT = 2.212	Response = 15741439	M
RT = 2.333	Response = 7117029	M
RT = 2.711	Response = 6973156	M

Reviewer: hassl, 15-Apr-2013 07:53:05

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000012.D		
Lims ID:	STD05 1242	Client ID:	
Inject. Date:	15-Apr-2013 02:03:15	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018824-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	81761	Lims Sample ID:	12
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:47	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 05:51:54

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.541	1.540	0.001	10506706	0.4870		100.0	
1	2	1.822	1.821	0.001	19088559	0.4712	153.5- 203.5	181.7	
1	3	2.213	2.213	0.000	37212620	0.4783	312.0- 362.0	354.2	
1	4	2.334	2.333	0.001	16611102	0.4859	127.3- 177.3	158.1	
1	5	2.712	2.711	0.001	16401781	0.4777	124.3- 174.3	156.1	
			Average of Peak Amounts =			0.4800			
2	6	2.140	2.140	0.000	10298784	0.4774		100.0	
2	7	2.535	2.535	0.000	19564185	0.4685	163.2- 223.2	190.0	
2	8	2.986	2.986	0.000	37434532	0.4646	335.3- 395.3	363.5	
2	9	3.124	3.123	0.001	15589363	0.4365	133.4- 193.4	151.4	
2	10	3.734	3.733	0.001	15930304	0.4716	119.1- 179.1	154.7	
			Average of Peak Amounts =			0.4637			
						RPD = 3.45			

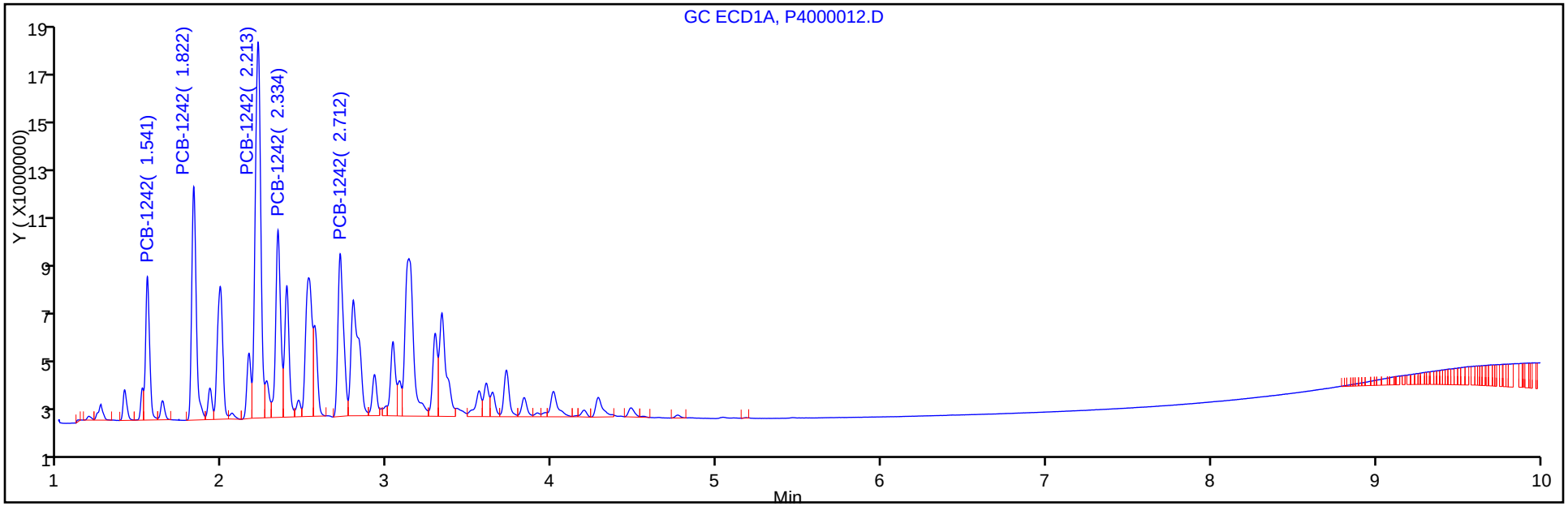
Report Date: 15-Apr-2013 13:04:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

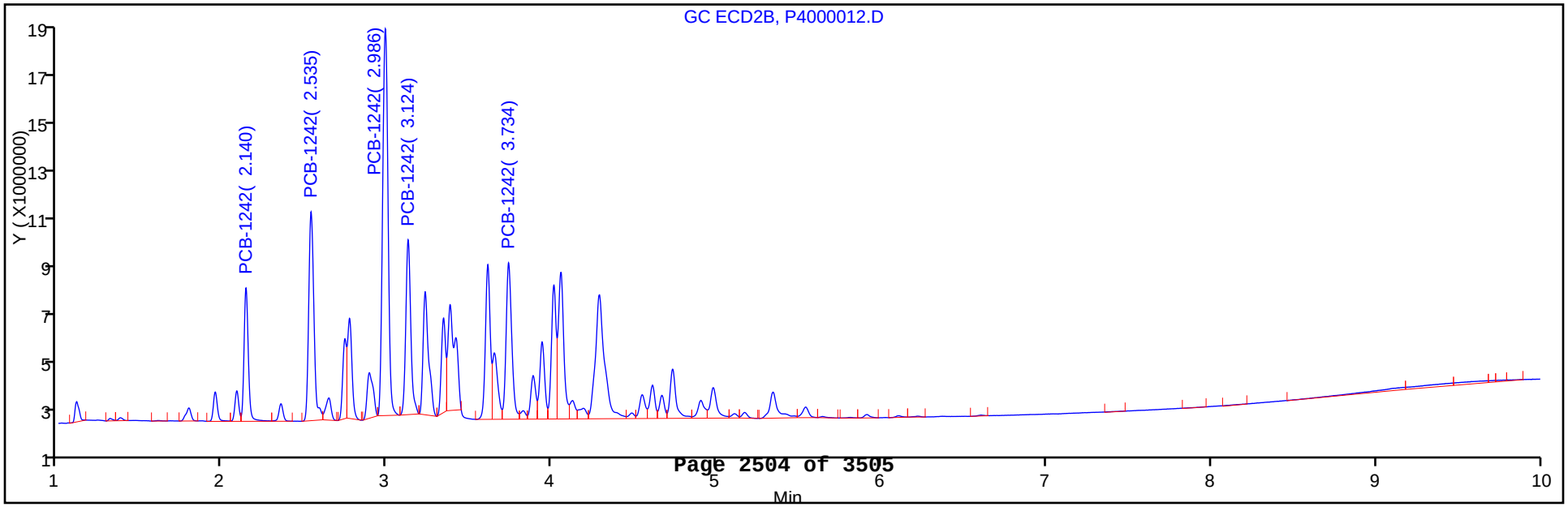
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000012.D

Injection Date:	15-Apr-2013 02:03:15	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000013.D
Lims ID: STD1 1242 Client ID:
Inject. Date: 15-Apr-2013 02:19:01 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 81761 Lims Sample ID: 13
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:48 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.540	1.540	0.000	20136124	0.9333		100.0	
1	2	1.822	1.821	0.001	37109215	0.9160	153.5- 203.5	184.3	
1	3	2.213	2.213	0.000	75642273	0.9722	312.0- 362.0	375.7	
1	4	2.333	2.333	0.000	32957971	0.9640	127.3- 177.3	163.7	
1	5	2.711	2.711	0.000	32115158	0.9354	124.3- 174.3	159.5	
			Average of Peak Amounts =			0.9442			
2	6	2.139	2.140	-0.001	19903453	0.9227		100.0	
2	7	2.534	2.535	-0.001	38623247	0.9248	163.2- 223.2	194.1	
2	8	2.986	2.986	0.000	79681280	0.9889	335.3- 395.3	400.3	
2	9	3.124	3.123	0.001	34688353	0.9712	133.4- 193.4	174.3	
2	10	3.735	3.733	0.002	32371258	0.9584	119.1- 179.1	162.6	
			Average of Peak Amounts =			0.9532			
						RPD = 0.95			

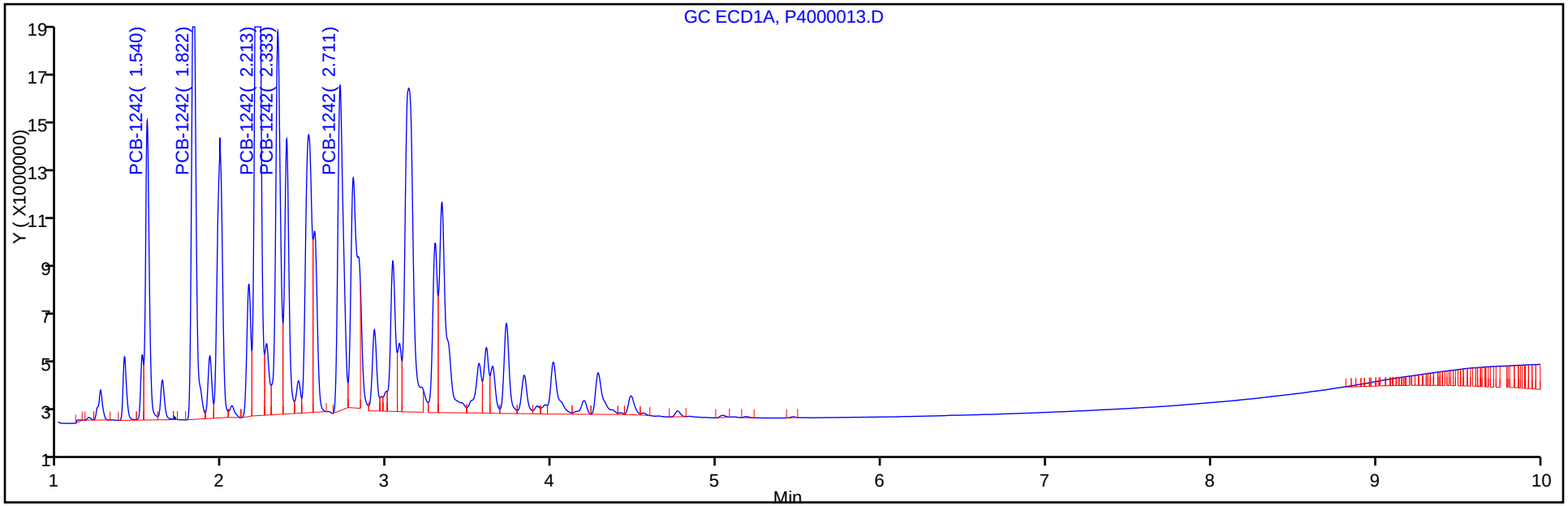
Report Date: 15-Apr-2013 13:04:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

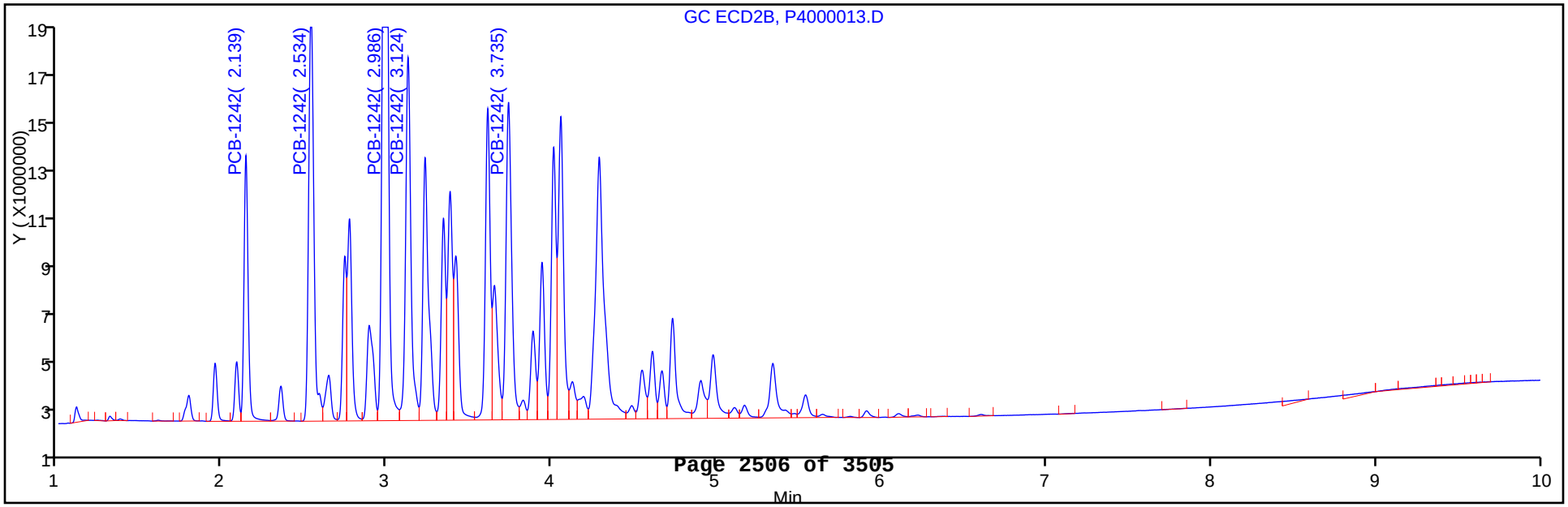
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000013.D

Injection Date:	15-Apr-2013 02:19:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000014.D
Lims ID: STD2 1242 Client ID:
Inject. Date: 15-Apr-2013 02:34:41 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 81761 Lims Sample ID: 14
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:50 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:53:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.540	1.540	0.000	36505486	1.69		100.0	
1	2	1.822	1.821	0.001	67002260	1.65	153.5- 203.5	183.5	M
1	3	2.213	2.213	0.000	143927148	1.85	312.0- 362.0	394.3	M
1	4	2.333	2.333	0.000	62783536	1.84	127.3- 177.3	172.0	M
1	5	2.710	2.711	-0.001	62976939	1.83	124.3- 174.3	172.5	M
			Average of Peak Amounts =			1.77			
2	6	2.139	2.140	-0.001	36078109	1.67		100.0	
2	7	2.535	2.535	0.000	69968164	1.68	163.2- 223.2	193.9	
2	8	2.986	2.986	0.000	150021790	1.86	335.3- 395.3	415.8	
2	9	3.124	3.123	0.001	64419209	1.80	133.4- 193.4	178.6	
2	10	3.733	3.733	0.000	60641277	1.80	119.1- 179.1	168.1	
			Average of Peak Amounts =			1.76			
						RPD = 0.65			

QC Flag Legend

Review Flags
M - Manually Integrated

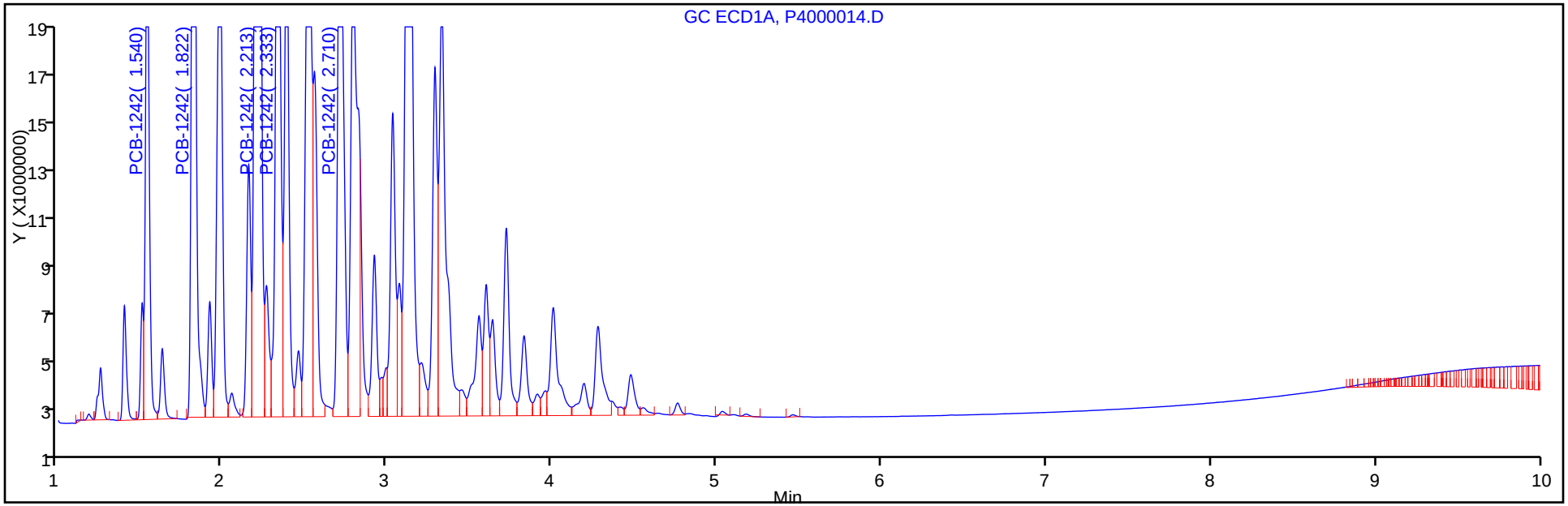
Report Date: 15-Apr-2013 13:04:50 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

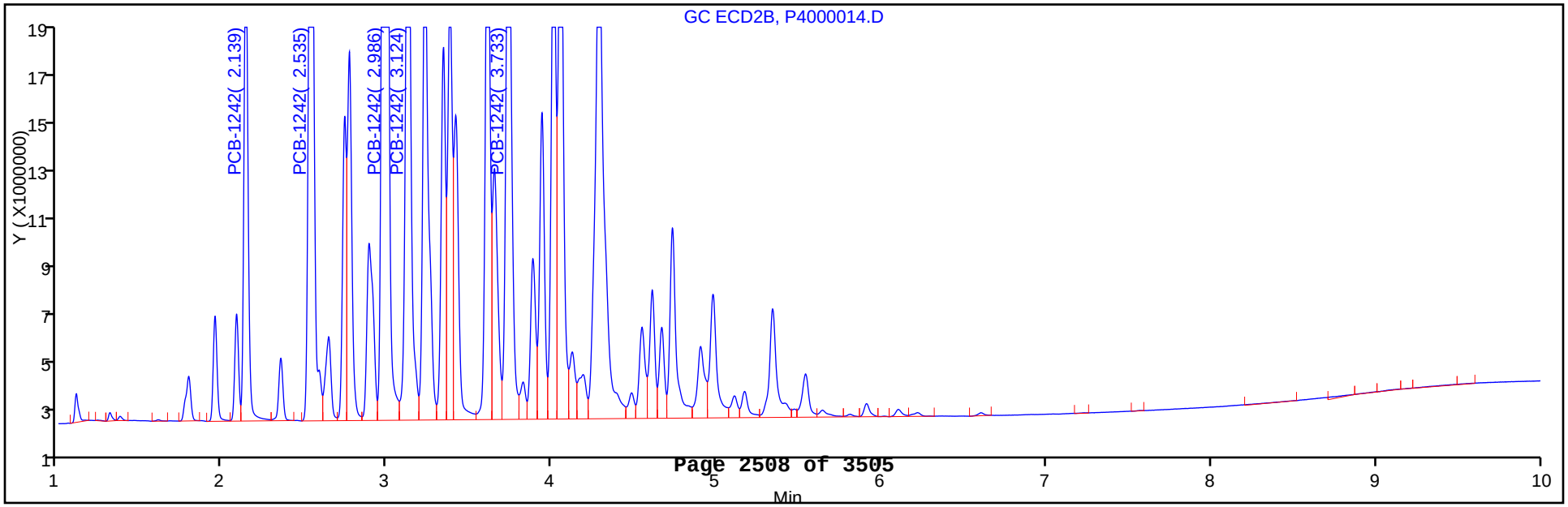
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000014.D

Injection Date:	15-Apr-2013 02:34:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



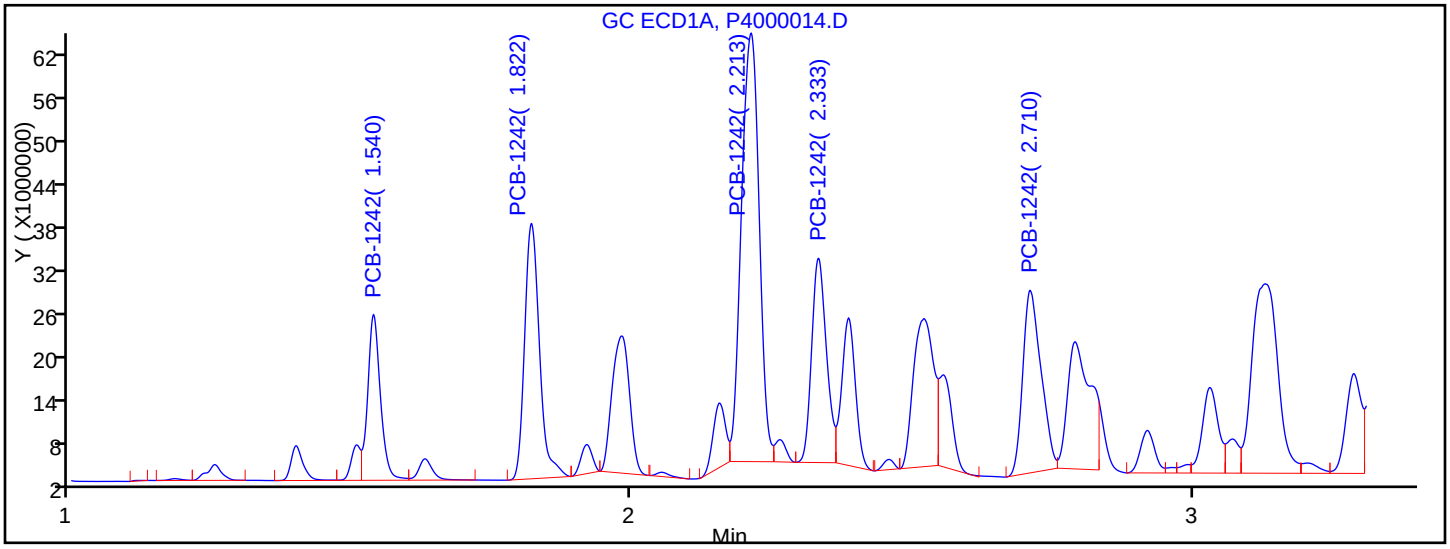
Report Date: 15-Apr-2013 13:04:51 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000014.D

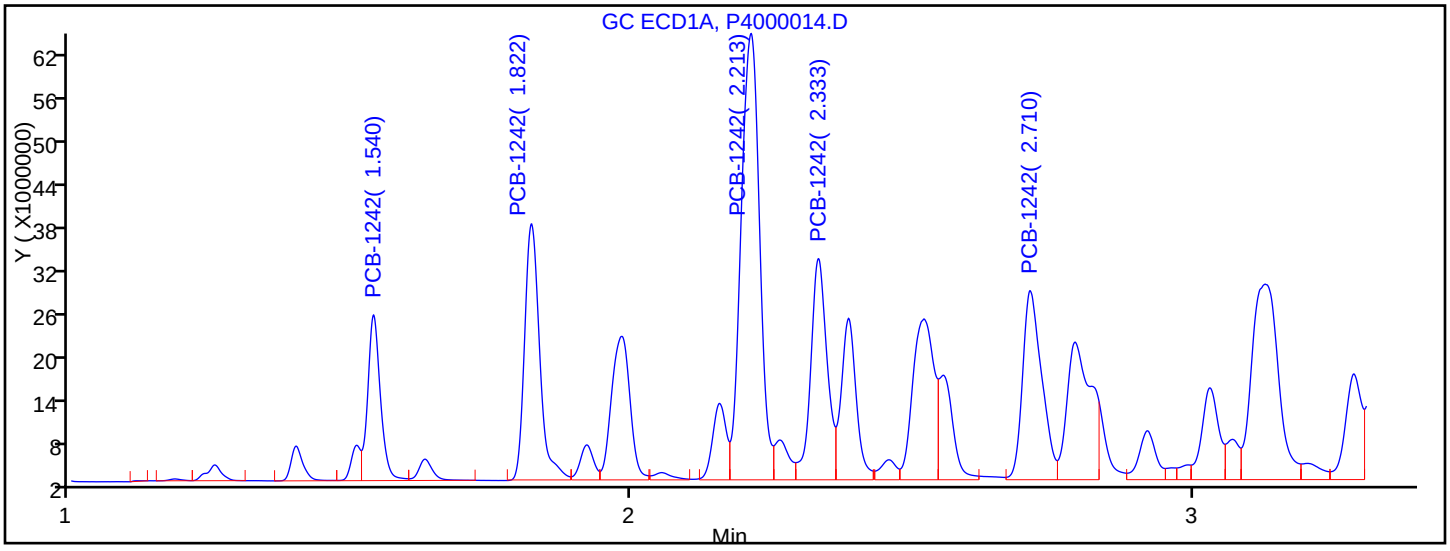
Injection Date:	15-Apr-2013 02:34:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 PCB-1242, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.540	Response = 36505486	
RT = 1.822	Response = 65822463	M
RT = 2.213	Response = 132192423	M
RT = 2.333	Response = 52602075	M
RT = 2.710	Response = 57788693	M



Manual Integration Results

RT = 1.540	Response = 36505486	
RT = 1.822	Response = 67002260	M
RT = 2.213	Response = 143927148	M
RT = 2.333	Response = 62783536	M
RT = 2.710	Response = 62976939	M

Reviewer: hassl, 15-Apr-2013 07:53:23

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 01:16 Calibration End Date: 04/15/2013 02:34 Calibration ID: 14516

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/9	P4000009.D
Level 2	STD01 240-81761/10	P4000010.D
Level 3	STD02 240-81761/11	P4000011.D
Level 4	STD05 240-81761/12	P4000012.D
Level 5	STD1 240-81761/13	P4000013.D
Level 6	STD2 240-81761/14	P4000014.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	2.140	2.140	2.139	2.140	2.139	2.139					2.040 - 2.240	2.140
PCB-1242 Peak 2	2.535	2.535	2.534	2.535	2.534	2.535					2.435 - 2.635	2.535
PCB-1242 Peak 3	2.986	2.985	2.986	2.986	2.986	2.986					2.886 - 3.086	2.986
PCB-1242 Peak 4	3.123	3.124	3.124	3.124	3.124	3.124					3.023 - 3.223	3.124
PCB-1242 Peak 5	3.733	3.734	3.734	3.734	3.735	3.733					3.633 - 3.833	3.734

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 01:16 Calibration End Date: 04/15/2013 02:34 Calibration ID: 14516

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/9	P4000009.D
Level 2	STD01 240-81761/10	P4000010.D
Level 3	STD02 240-81761/11	P4000011.D
Level 4	STD05 240-81761/12	P4000012.D
Level 5	STD1 240-81761/13	P4000013.D
Level 6	STD2 240-81761/14	P4000014.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	24539940 19903453	23815980 18039055	22529365	20597568	Ave		21570893.4				12.0		20.0			
PCB-1242 Peak 2	47591660 38623247	46717140 34984082	43533675	39128370	Ave		41763029.0				12.0		20.0			
PCB-1242 Peak 3	84976760 79681280	86640770 75010895	82292225	74869064	Ave		80578499.0				6.2		20.0			
PCB-1242 Peak 4	38601820 34688353	40807440 32209605	36814080	31178726	Ave		35716670.6				10.0		20.0			
PCB-1242 Peak 5	36727980 32371258	37783010 30320639	33598955	31860608	Ave		33777074.9				8.6		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 01:16 Calibration End Date: 04/15/2013 02:34 Calibration ID: 14516

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/9	P4000009.D
Level 2	STD01 240-81761/10	P4000010.D
Level 3	STD02 240-81761/11	P4000011.D
Level 4	STD05 240-81761/12	P4000012.D
Level 5	STD1 240-81761/13	P4000013.D
Level 6	STD2 240-81761/14	P4000014.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	1226997 36078109	2381598	4505873	10298784	19903453	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	Ave	2379583 69968164	4671714	8706735	19564185	38623247	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	Ave	4248838 150021790	8664077	16458445	37434532	79681280	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	Ave	1930091 64419209	4080744	7362816	15589363	34688353	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	Ave	1836399 60641277	3778301	6719791	15930304	32371258	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000009.D		
Lims ID:	STD005 1242	Client ID:	
Inject. Date:	15-Apr-2013 01:16:16	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018824-009		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	81761	Lims Sample ID:	9
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:42	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 07:52:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.540	1.540	0.000	1260674	0.0584		100.0	
1	2	1.821	1.821	0.000	2365416	0.0584	153.5- 203.5	187.6	
1	3	2.213	2.213	0.000	4116835	0.0529	312.0- 362.0	326.6	
1	4	2.333	2.333	0.000	1681125	0.0492	127.3- 177.3	133.4	
1	5	2.711	2.711	0.000	1841542	0.0536	124.3- 174.3	146.1	
			Average of Peak Amounts =			0.0545			
2	6	2.140	2.140	0.000	1226997	0.0569		100.0	
2	7	2.535	2.535	0.000	2379583	0.0570	163.2- 223.2	193.9	
2	8	2.986	2.986	0.000	4248838	0.0527	335.3- 395.3	346.3	
2	9	3.123	3.123	0.000	1930091	0.0540	133.4- 193.4	157.3	
2	10	3.733	3.733	0.000	1836399	0.0544	119.1- 179.1	149.7	
			Average of Peak Amounts =			0.0550			
						RPD = 0.90			

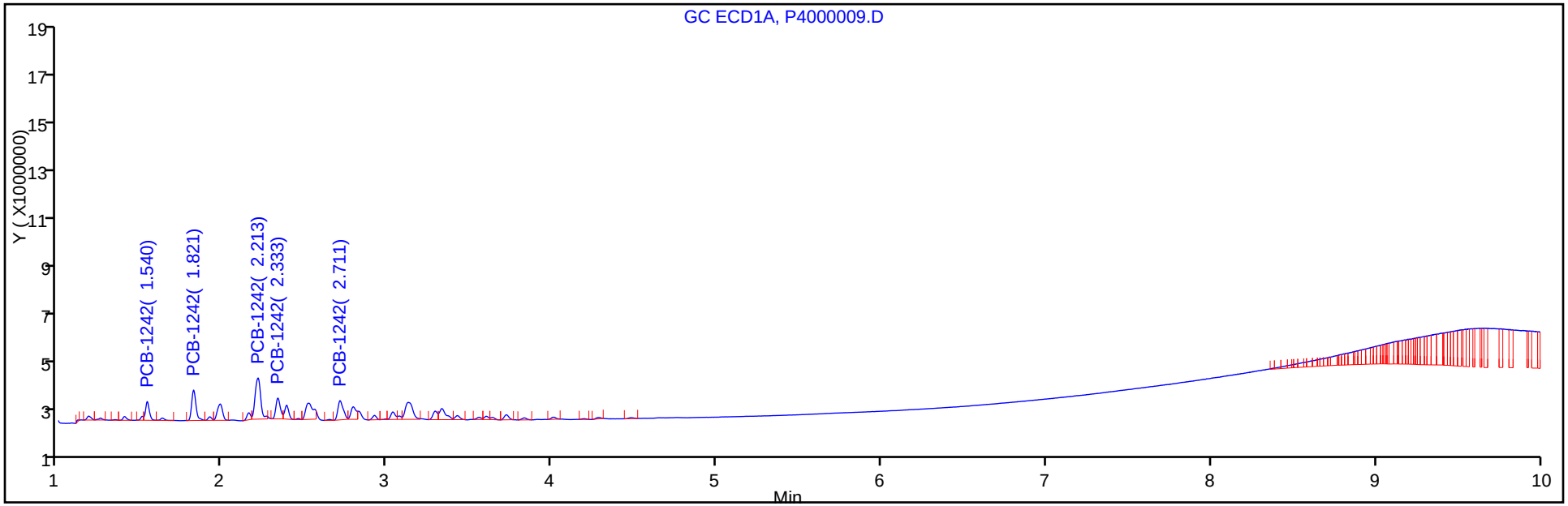
Report Date: 15-Apr-2013 13:04:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

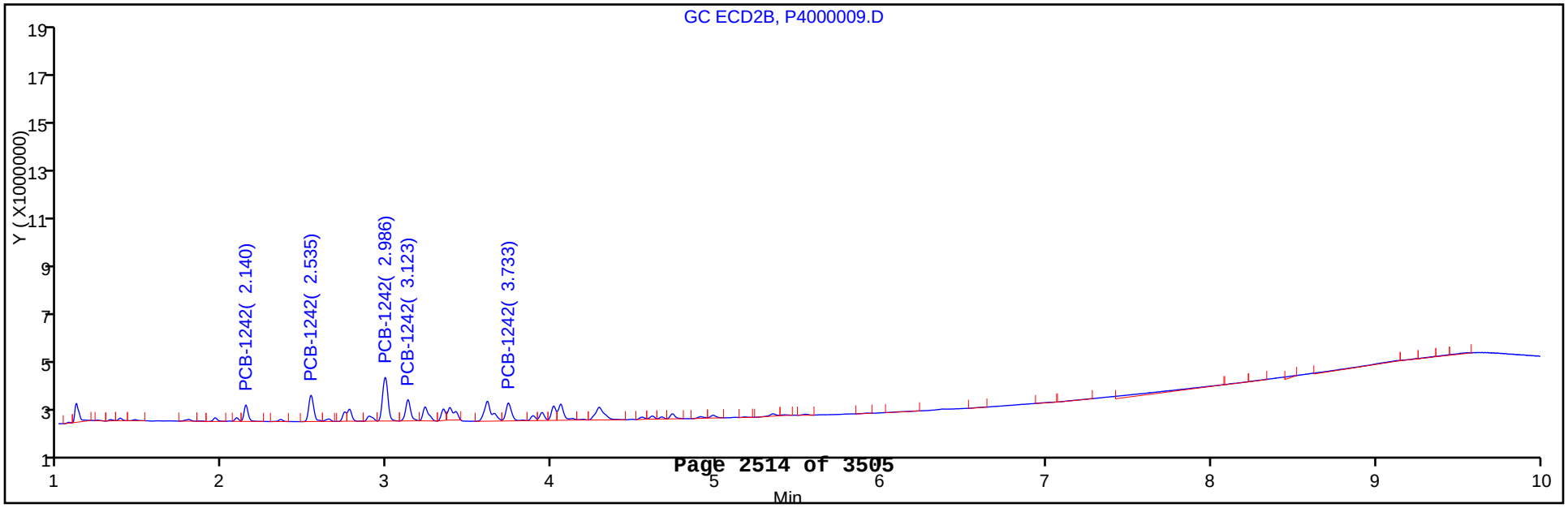
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000009.D

Injection Date:	15-Apr-2013 01:16:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000010.D
Lims ID: STD01 1242 Client ID:
Inject. Date: 15-Apr-2013 01:31:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018824-010
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 81761 Lims Sample ID: 10
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:44 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.536	1.540	-0.004	2148224	0.0996		100.0	
1	2	1.821	1.821	0.000	4527513	0.1118	153.5- 203.5	210.8	
1	3	2.213	2.213	0.000	8375986	0.1077	312.0- 362.0	389.9	
1	4	2.334	2.333	0.001	3834787	0.1122	127.3- 177.3	178.5	
1	5	2.711	2.711	0.000	3788833	0.1104	124.3- 174.3	176.4	
			Average of Peak Amounts =			0.1083			
2	6	2.140	2.140	0.000	2381598	0.1104		100.0	
2	7	2.535	2.535	0.000	4671714	0.1119	163.2- 223.2	196.2	
2	8	2.985	2.986	-0.001	8664077	0.1075	335.3- 395.3	363.8	
2	9	3.124	3.123	0.001	4080744	0.1143	133.4- 193.4	171.3	
2	10	3.734	3.733	0.001	3778301	0.1119	119.1- 179.1	158.6	
			Average of Peak Amounts =			0.1112			
						RPD = 2.62			

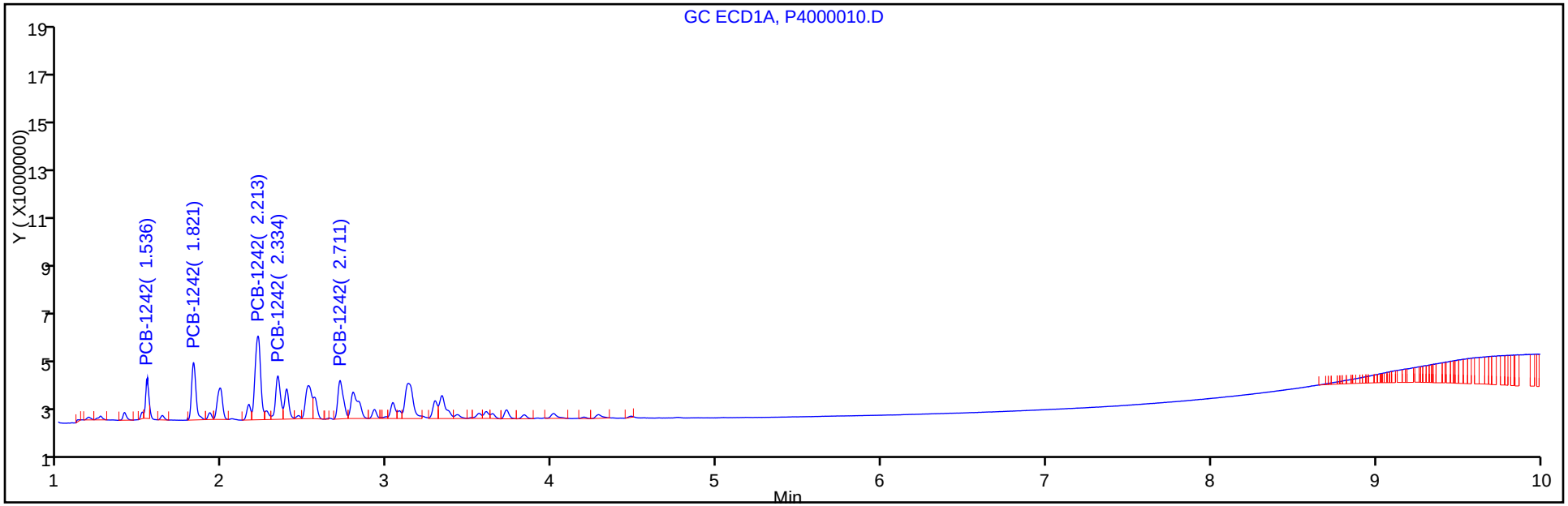
Report Date: 15-Apr-2013 13:04:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

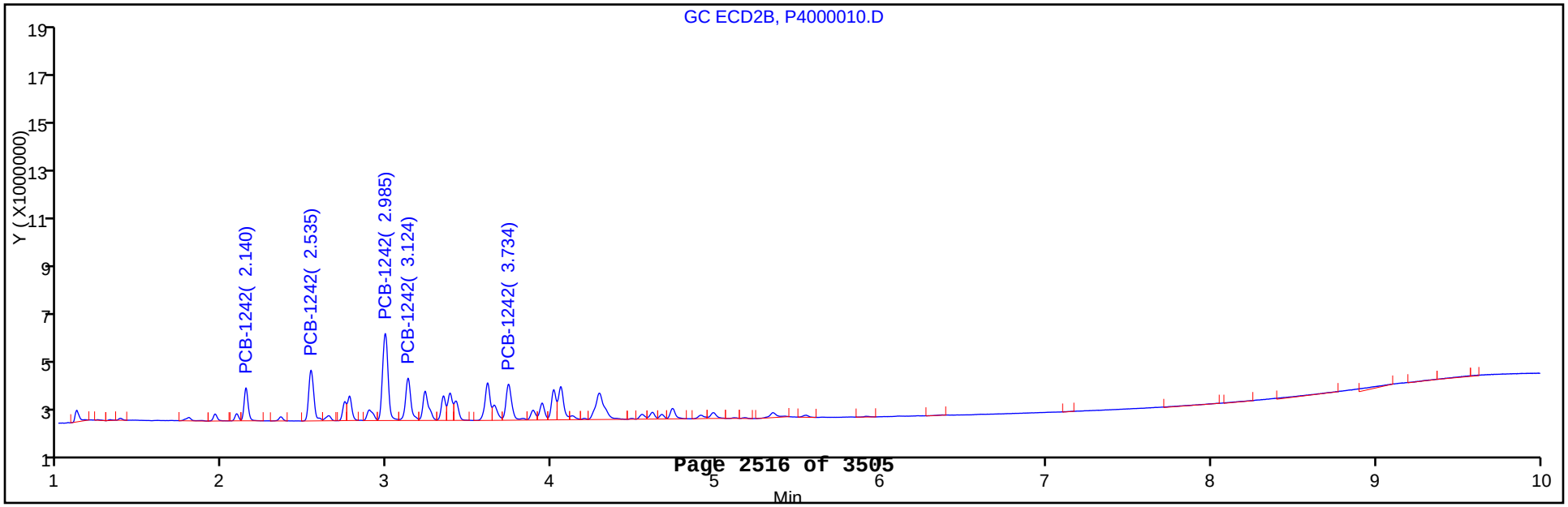
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000010.D

Injection Date:	15-Apr-2013 01:31:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000011.D
Lims ID: STD02 1242 Client ID:
Inject. Date: 15-Apr-2013 01:47:35 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-011
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 81761 Lims Sample ID: 11
Sublist: chrom-PCB4*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:45 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:53:05

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.540	1.540	0.000	4671525	0.2165		100.0	
1	2	1.821	1.821	0.000	8338374	0.2058	153.5- 203.5	178.5	
1	3	2.212	2.213	-0.001	15741439	0.2023	312.0- 362.0	337.0	M
1	4	2.333	2.333	0.000	7117029	0.2082	127.3- 177.3	152.3	M
1	5	2.711	2.711	0.000	6973156	0.2031	124.3- 174.3	149.3	M
			Average of Peak Amounts =			0.2072			
2	6	2.139	2.140	-0.001	4505873	0.2089		100.0	
2	7	2.534	2.535	-0.001	8706735	0.2085	163.2- 223.2	193.2	
2	8	2.986	2.986	0.000	16458445	0.2043	335.3- 395.3	365.3	
2	9	3.124	3.123	0.001	7362816	0.2061	133.4- 193.4	163.4	
2	10	3.734	3.733	0.001	6719791	0.1989	119.1- 179.1	149.1	
			Average of Peak Amounts =			0.2053			
						RPD = 0.90			

QC Flag Legend

Review Flags
M - Manually Integrated

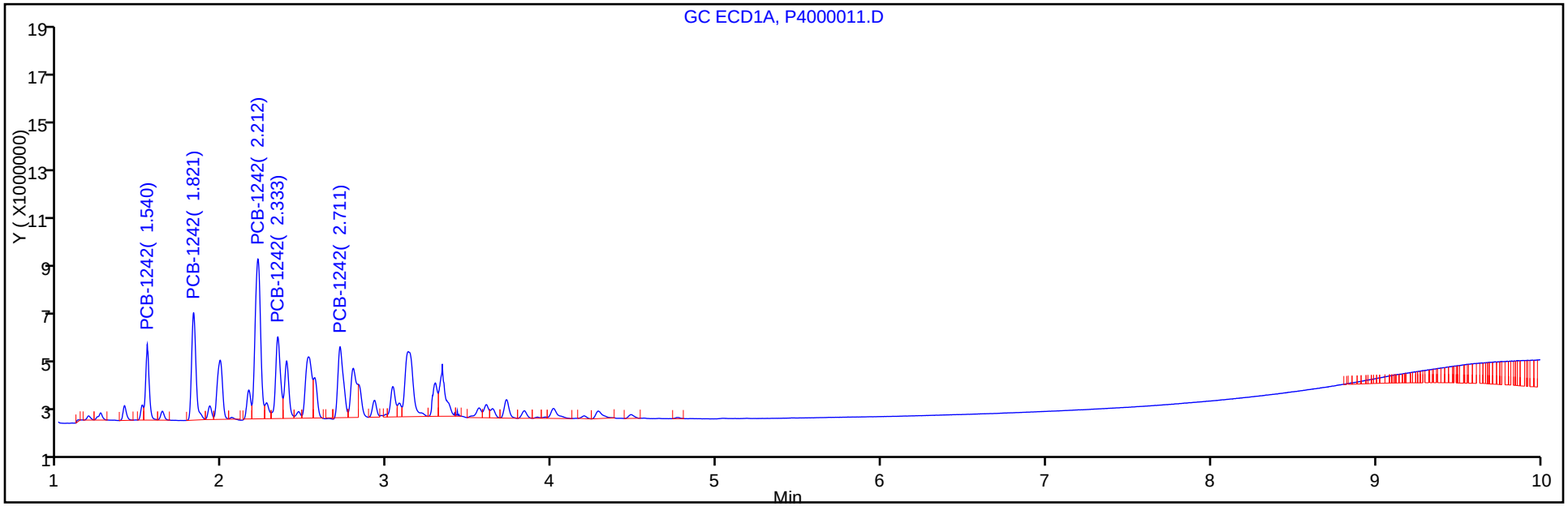
Report Date: 15-Apr-2013 13:04:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

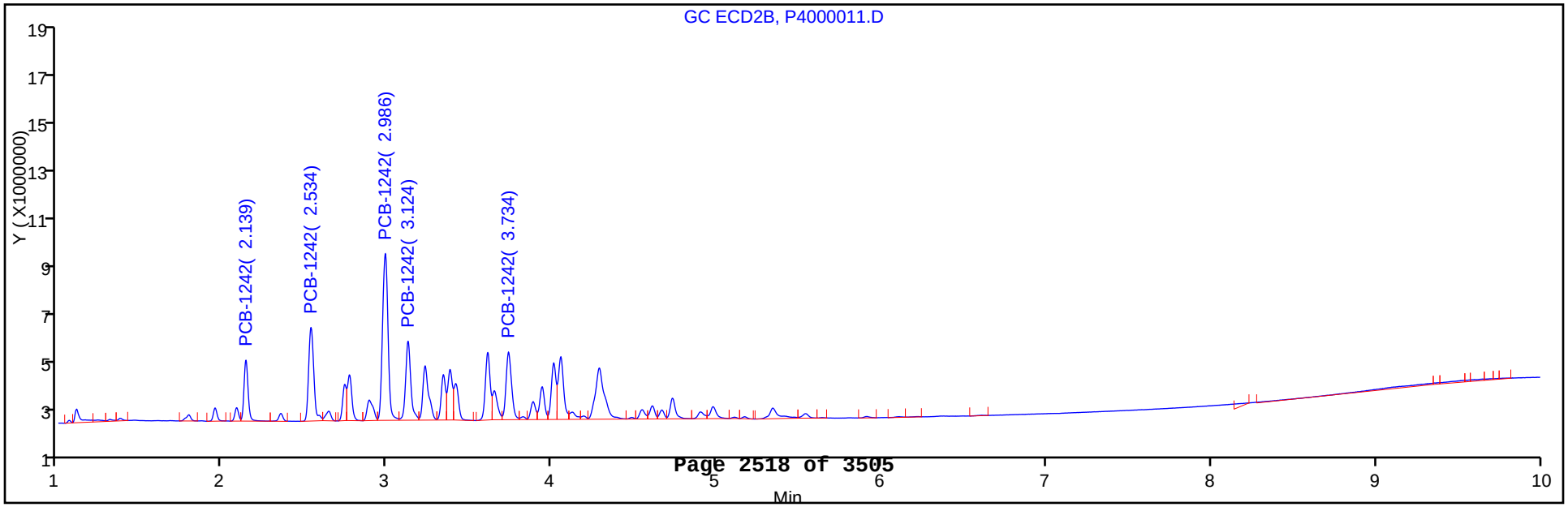
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000011.D

Injection Date:	15-Apr-2013 01:47:35	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	11
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000012.D		
Lims ID:	STD05 1242	Client ID:	
Inject. Date:	15-Apr-2013 02:03:15	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	240-0018824-012		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	81761	Lims Sample ID:	12
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:47	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 05:51:54

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.541	1.540	0.001	10506706	0.4870		100.0	
1	2	1.822	1.821	0.001	19088559	0.4712	153.5- 203.5	181.7	
1	3	2.213	2.213	0.000	37212620	0.4783	312.0- 362.0	354.2	
1	4	2.334	2.333	0.001	16611102	0.4859	127.3- 177.3	158.1	
1	5	2.712	2.711	0.001	16401781	0.4777	124.3- 174.3	156.1	
			Average of Peak Amounts =			0.4800			
2	6	2.140	2.140	0.000	10298784	0.4774		100.0	
2	7	2.535	2.535	0.000	19564185	0.4685	163.2- 223.2	190.0	
2	8	2.986	2.986	0.000	37434532	0.4646	335.3- 395.3	363.5	
2	9	3.124	3.123	0.001	15589363	0.4365	133.4- 193.4	151.4	
2	10	3.734	3.733	0.001	15930304	0.4716	119.1- 179.1	154.7	
			Average of Peak Amounts =			0.4637			
						RPD = 3.45			

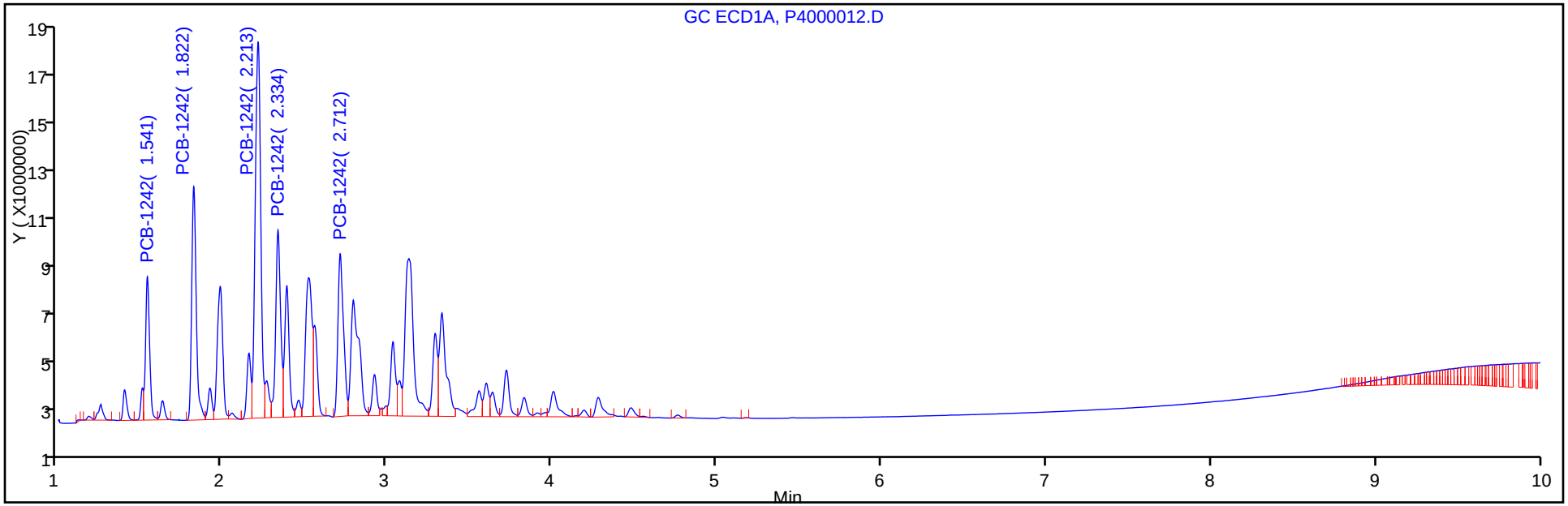
Report Date: 15-Apr-2013 13:04:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

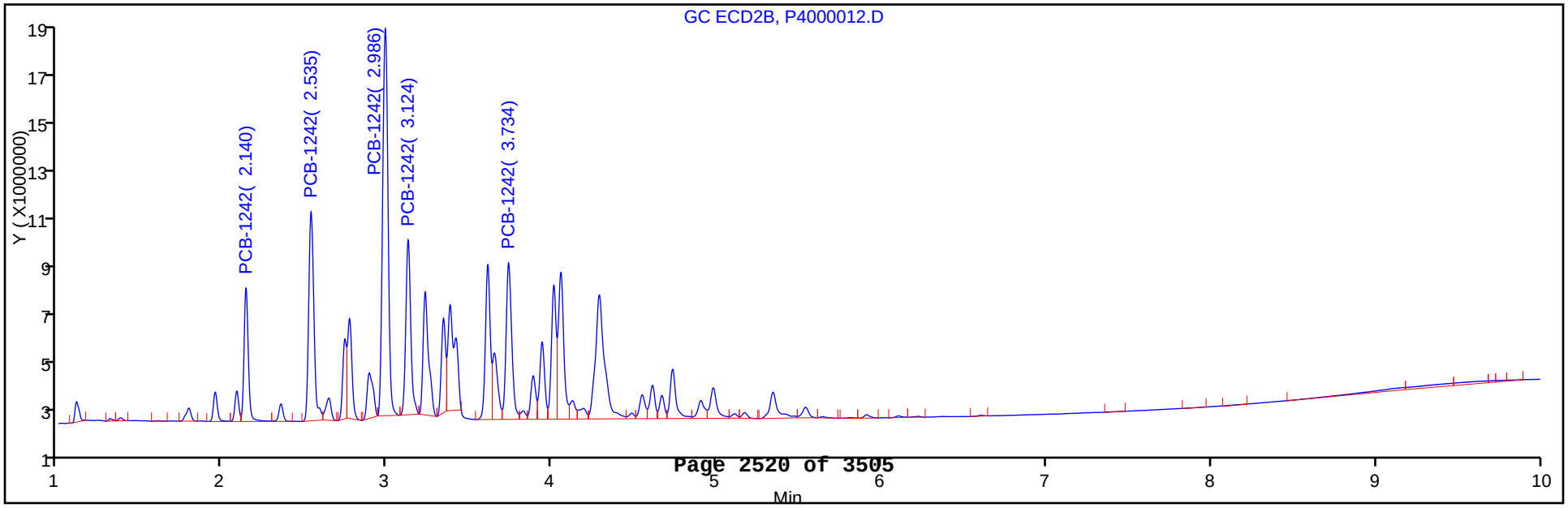
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000012.D

Injection Date:	15-Apr-2013 02:03:15	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	12
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000013.D		
Lims ID:	STD1 1242	Client ID:	
Inject. Date:	15-Apr-2013 02:19:01	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018824-013		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	13
Lims Batch ID:	81761	Lims Sample ID:	13
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:48	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100	1.540	1.540	0.000	20136124	0.9333		100.0	
1	2	1.822	1.821	0.001	37109215	0.9160	153.5- 203.5	184.3	
1	3	2.213	2.213	0.000	75642273	0.9722	312.0- 362.0	375.7	
1	4	2.333	2.333	0.000	32957971	0.9640	127.3- 177.3	163.7	
1	5	2.711	2.711	0.000	32115158	0.9354	124.3- 174.3	159.5	
			Average of Peak Amounts =			0.9442			
2	6	2.139	2.140	-0.001	19903453	0.9227		100.0	
2	7	2.534	2.535	-0.001	38623247	0.9248	163.2- 223.2	194.1	
2	8	2.986	2.986	0.000	79681280	0.9889	335.3- 395.3	400.3	
2	9	3.124	3.123	0.001	34688353	0.9712	133.4- 193.4	174.3	
2	10	3.735	3.733	0.002	32371258	0.9584	119.1- 179.1	162.6	
			Average of Peak Amounts =			0.9532			
						RPD = 0.95			

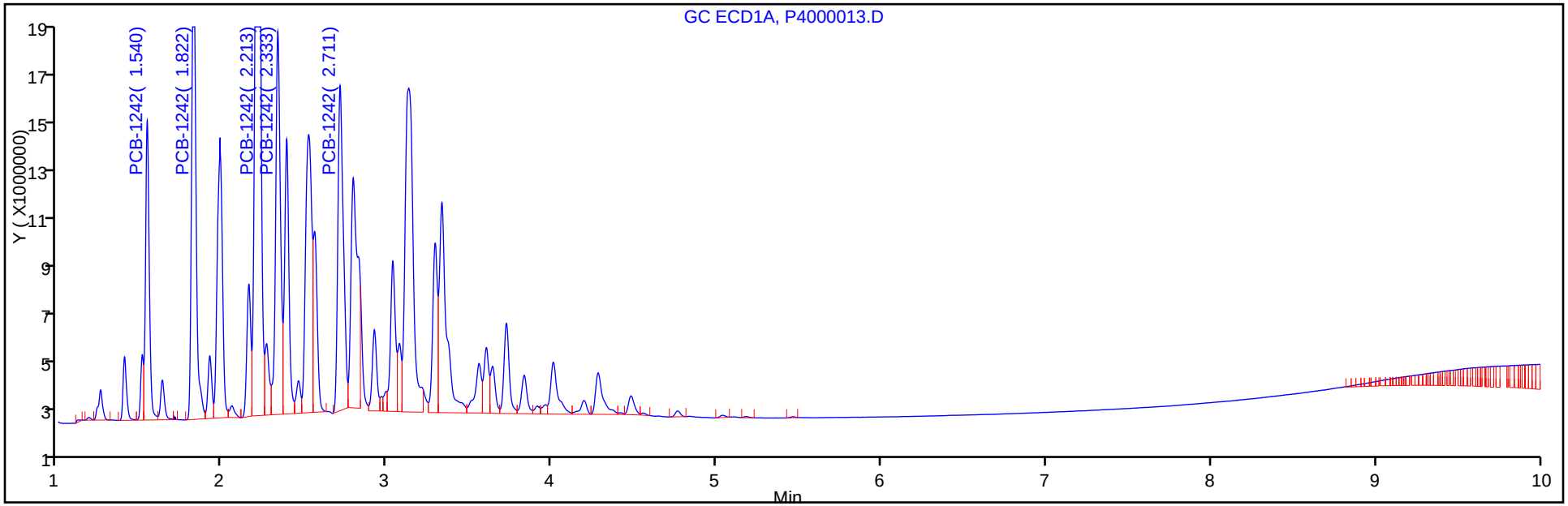
Report Date: 15-Apr-2013 13:04:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

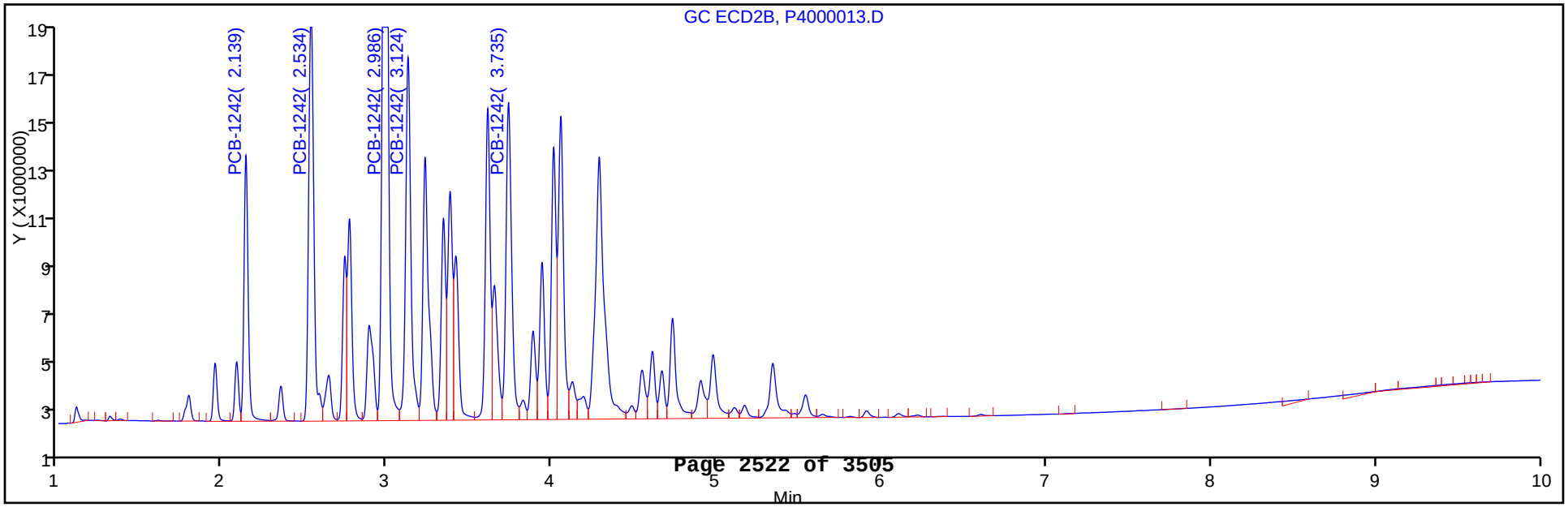
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000013.D

Injection Date:	15-Apr-2013 02:19:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000014.D		
Lims ID:	STD2 1242	Client ID:	
Inject. Date:	15-Apr-2013 02:34:41	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018824-014		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	14
Lims Batch ID:	81761	Lims Sample ID:	14
Sublist:	chrom-PCB4*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:50	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 07:53:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.540	1.540	0.000	36505486	1.69		100.0	
1	2	1.822	1.821	0.001	67002260	1.65	153.5- 203.5	183.5	M
1	3	2.213	2.213	0.000	143927148	1.85	312.0- 362.0	394.3	M
1	4	2.333	2.333	0.000	62783536	1.84	127.3- 177.3	172.0	M
1	5	2.710	2.711	-0.001	62976939	1.83	124.3- 174.3	172.5	M
			Average of Peak Amounts =			1.77			
2	6	2.139	2.140	-0.001	36078109	1.67		100.0	
2	7	2.535	2.535	0.000	69968164	1.68	163.2- 223.2	193.9	
2	8	2.986	2.986	0.000	150021790	1.86	335.3- 395.3	415.8	
2	9	3.124	3.123	0.001	64419209	1.80	133.4- 193.4	178.6	
2	10	3.733	3.733	0.000	60641277	1.80	119.1- 179.1	168.1	
			Average of Peak Amounts =			1.76			
						RPD = 0.65			

QC Flag Legend

Review Flags
M - Manually Integrated

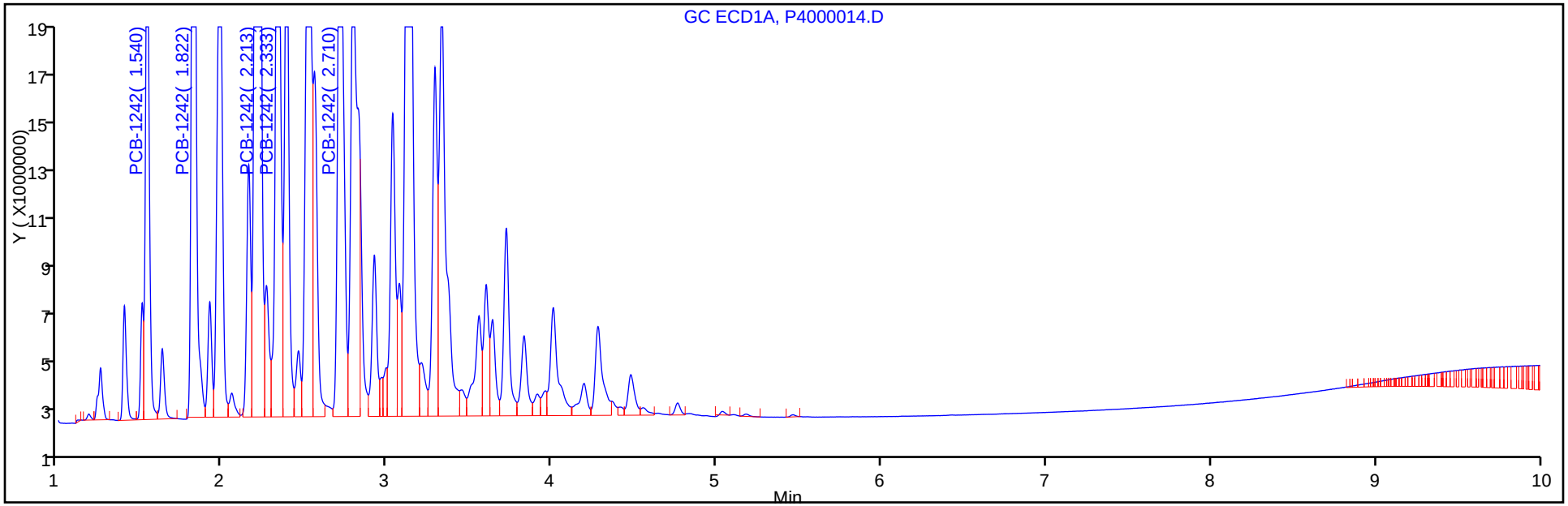
Report Date: 15-Apr-2013 13:04:51 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

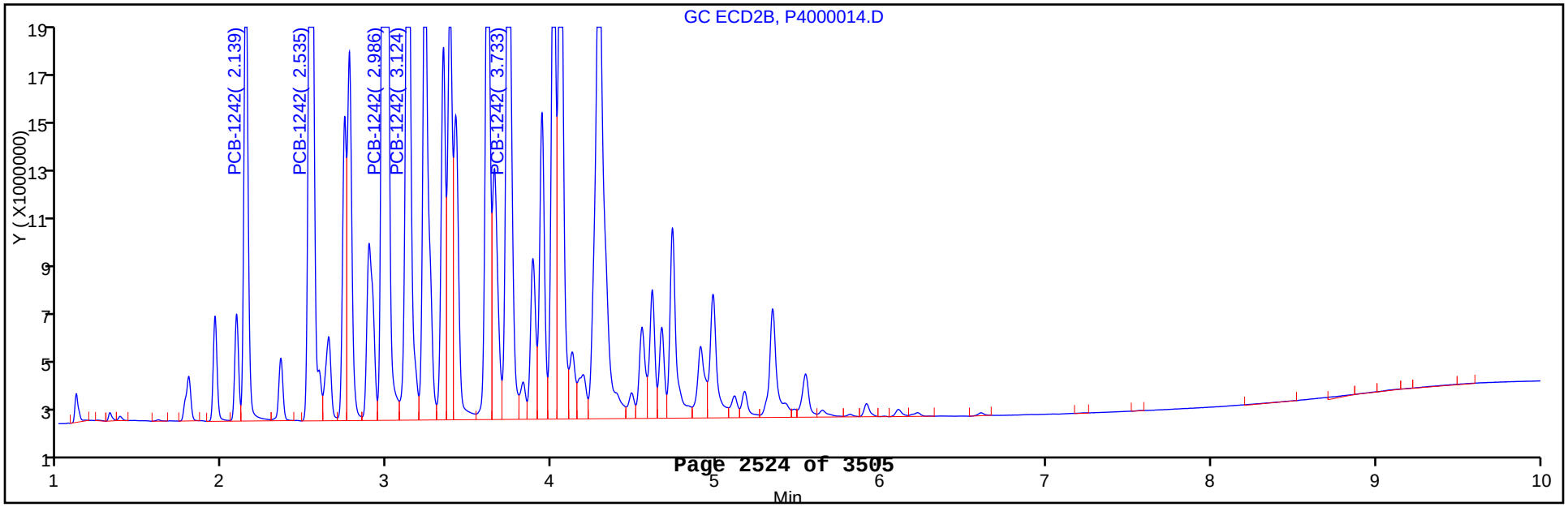
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000014.D

Injection Date:	15-Apr-2013 02:34:41	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 02:50 Calibration End Date: 04/15/2013 04:08 Calibration ID: 14521

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/15	P4000015.D
Level 2	STD01 240-81761/16	P4000016.D
Level 3	STD02 240-81761/17	P4000017.D
Level 4	STD05 240-81761/18	P4000018.D
Level 5	STD1 240-81761/19	P4000019.D
Level 6	STD2 240-81761/20	P4000020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	1.821	1.821	1.823	1.822	1.822	1.822					1.721 - 1.921	1.822
PCB-1248 Peak 2	2.210	2.212	2.213	2.212	2.213	2.213					2.110 - 2.310	2.212
PCB-1248 Peak 3	2.711	2.711	2.713	2.712	2.712	2.711					2.611 - 2.811	2.712
PCB-1248 Peak 4	3.290	3.289	3.290	3.290	3.290	3.289					3.190 - 3.390	3.290
PCB-1248 Peak 5	3.721	3.723	3.723	3.722	3.721	3.721					3.621 - 3.821	3.722

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 02:50 Calibration End Date: 04/15/2013 04:08 Calibration ID: 14521

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/15	P4000015.D
Level 2	STD01 240-81761/16	P4000016.D
Level 3	STD02 240-81761/17	P4000017.D
Level 4	STD05 240-81761/18	P4000018.D
Level 5	STD1 240-81761/19	P4000019.D
Level 6	STD2 240-81761/20	P4000020.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	22808440 18644528	22396480 17228404	21265040	18620612	Ave		20160584.0				11.0		20.0			
PCB-1248 Peak 2	49182060 48573249	53214070 46753398	44899700	46328216	Ave		48158448.8				6.1		20.0			
PCB-1248 Peak 3	62745220 54549073	60270520 52075353	57922345	52210644	Ave		56628859.1				7.8		20.0			
PCB-1248 Peak 4	28377660 29177858	28880170 28641530	27926845	26888042	Ave		28315350.8				2.9		20.0			
PCB-1248 Peak 5	26088960 28094417	28823300 27587981	27291550	27036588	Ave		27487132.7				3.4		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 02:50 Calibration End Date: 04/15/2013 04:08 Calibration ID: 14521

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/15	P4000015.D
Level 2	STD01 240-81761/16	P4000016.D
Level 3	STD02 240-81761/17	P4000017.D
Level 4	STD05 240-81761/18	P4000018.D
Level 5	STD1 240-81761/19	P4000019.D
Level 6	STD2 240-81761/20	P4000020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	1140422 34456808	2239648	4253008	9310306	18644528	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	2459103 93506796	5321407	8979940	23164108	48573249	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	3137261 104150705	6027052	11584469	26105322	54549073	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	1418883 57283059	2888017	5585369	13444021	29177858	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	1304448 55175962	2882330	5458310	13518294	28094417	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000015.D
Lims ID: STD005 1248 Client ID:
Inject. Date: 15-Apr-2013 02:50:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-015
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 81761 Lims Sample ID: 15
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.821	1.821	0.000	1140422	0.0566		100.0	
1	2	2.210	2.210	0.000	2459103	0.0511	186.1- 236.1	215.6	
1	3	2.711	2.711	0.000	3137261	0.0554	247.4- 297.4	275.1	
1	4	3.290	3.290	0.000	1418883	0.0501	106.3- 156.3	124.4	
1	5	3.721	3.721	0.000	1304448	0.0475	103.3- 153.3	114.4	
			Average of Peak Amounts =			0.0521			
2	6	2.532	2.532	0.000	1195857	0.0582		100.0	
2	7	2.982	2.982	0.000	2892764	0.0554	215.2- 275.2	241.9	
2	8	3.733	3.733	0.000	2934602	0.0547	225.9- 285.9	245.4	
2	9	4.008	4.008	0.000	2371135	0.0531	178.4- 238.4	198.3	
2	10	4.730	4.730	0.000	1469740	0.0499	97.2- 157.2	122.9	
			Average of Peak Amounts =			0.0543			
						RPD = 4.02			

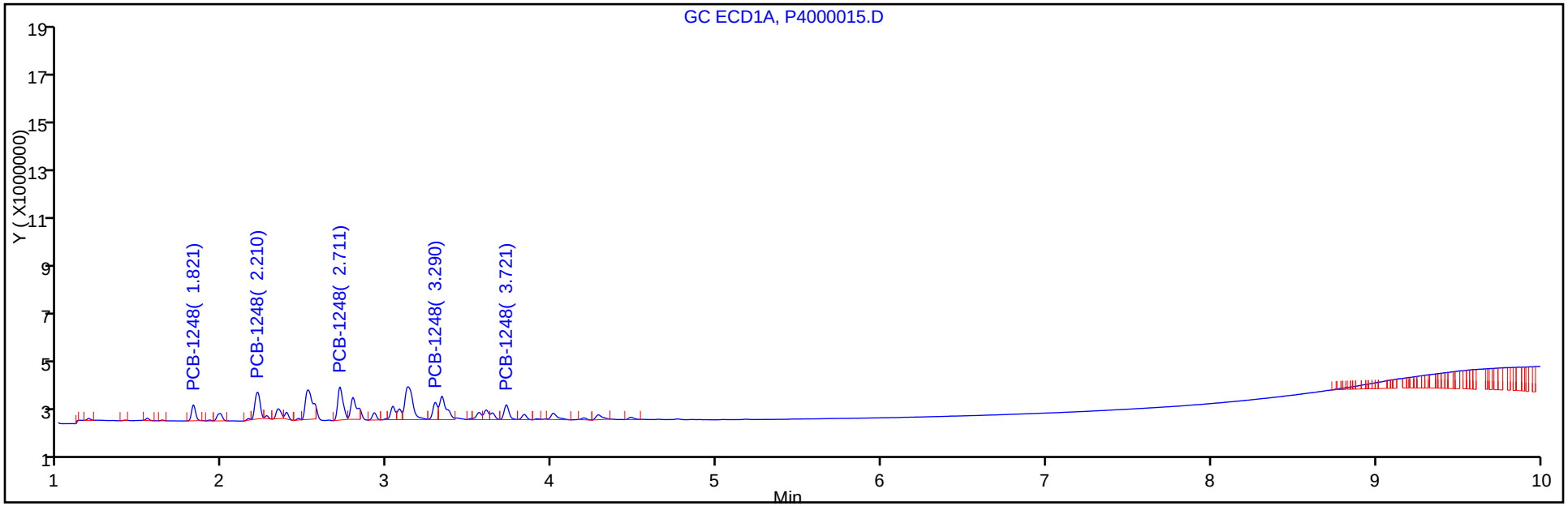
Report Date: 15-Apr-2013 13:04:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

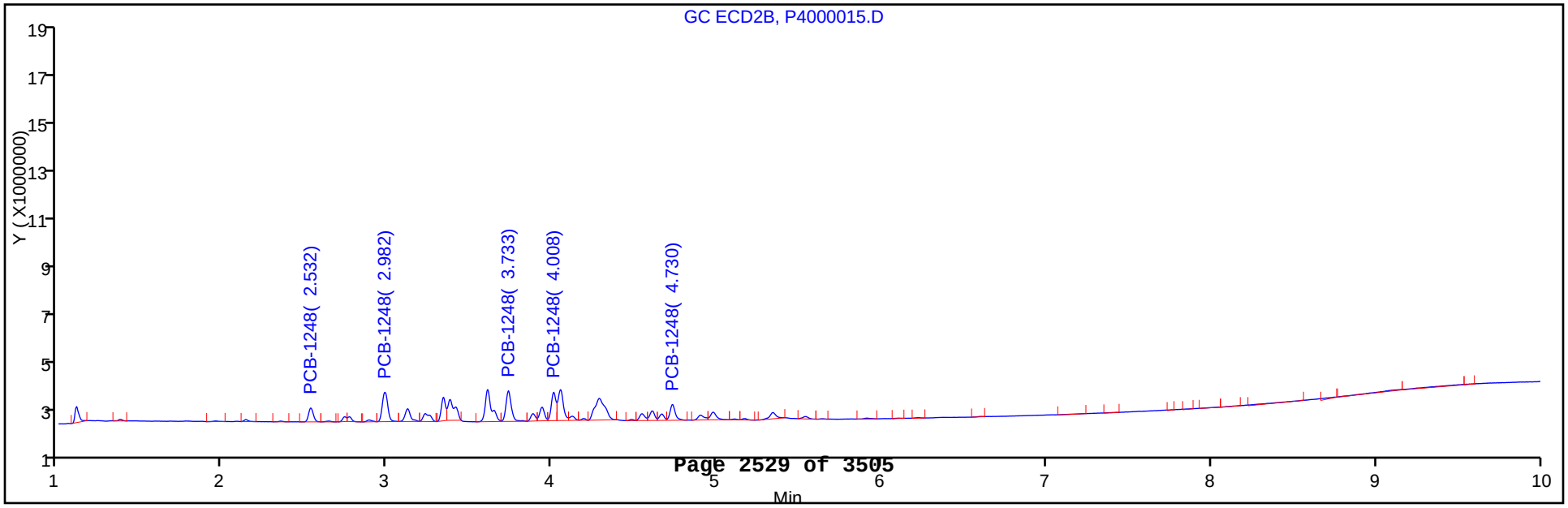
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000015.D

Injection Date:	15-Apr-2013 02:50:20	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000016.D		
Lims ID:	STD01 1248	Client ID:	
Inject. Date:	15-Apr-2013 03:06:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018824-016		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	81761	Lims Sample ID:	16
Sublist:	chrom-PCB4*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:52	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.821	1.821	0.000	2239648	0.1111		100.0	
1	2	2.212	2.210	0.002	5321407	0.1105	186.1- 236.1	237.6	
1	3	2.711	2.711	0.000	6027052	0.1064	247.4- 297.4	269.1	
1	4	3.289	3.290	-0.001	2888017	0.1020	106.3- 156.3	128.9	
1	5	3.723	3.721	0.002	2882330	0.1049	103.3- 153.3	128.7	
			Average of Peak Amounts =			0.1070			
2	6	2.534	2.532	0.002	2256900	0.1098		100.0	
2	7	2.984	2.982	0.002	5502441	0.1053	215.2- 275.2	243.8	
2	8	3.734	3.733	0.001	5653124	0.1055	225.9- 285.9	250.5	
2	9	4.009	4.008	0.001	4620069	0.1035	178.4- 238.4	204.7	
2	10	4.731	4.730	0.001	3084787	0.1047	97.2- 157.2	136.7	
			Average of Peak Amounts =			0.1057			
						RPD = 1.15			

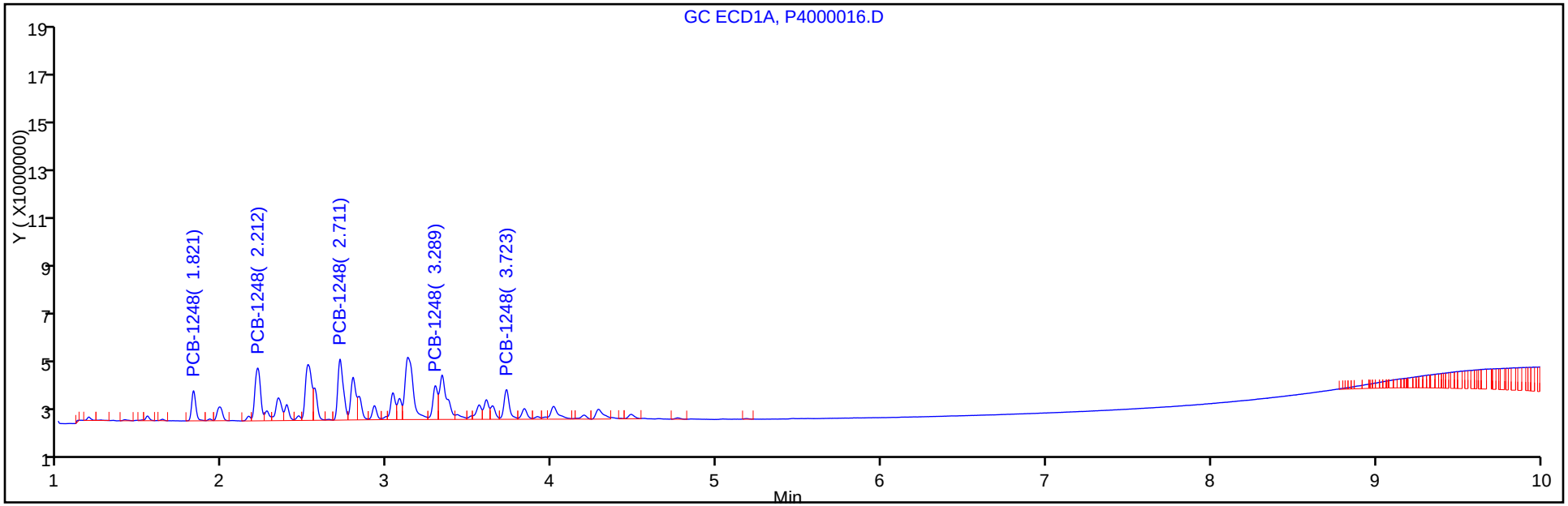
Report Date: 15-Apr-2013 13:04:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

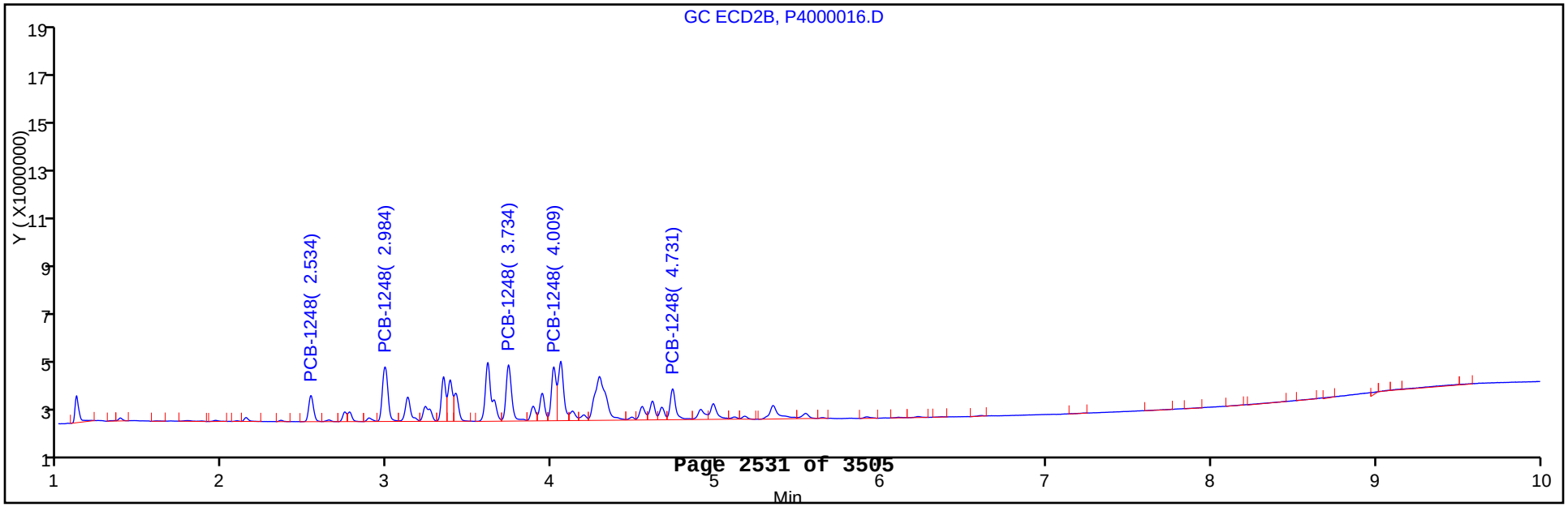
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000016.D

Injection Date:	15-Apr-2013 03:06:00	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000017.D
Lims ID: STD02 1248 Client ID:
Inject. Date: 15-Apr-2013 03:21:46 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-017
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 81761 Lims Sample ID: 17
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:54 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.823	1.821	0.002	4253008	0.2110		100.0	
1	2	2.213	2.210	0.003	8979940	0.1865	186.1- 236.1	211.1	
1	3	2.713	2.711	0.002	11584469	0.2046	247.4- 297.4	272.4	
1	4	3.290	3.290	0.000	5585369	0.1973	106.3- 156.3	131.3	
1	5	3.723	3.721	0.002	5458310	0.1986	103.3- 153.3	128.3	
			Average of Peak Amounts =			0.1996			
2	6	2.534	2.532	0.002	4260605	0.2073		100.0	
2	7	2.985	2.982	0.003	10448787	0.2000	215.2- 275.2	245.2	
2	8	3.735	3.733	0.002	10902961	0.2034	225.9- 285.9	255.9	
2	9	4.010	4.008	0.002	8878114	0.1989	178.4- 238.4	208.4	
2	10	4.731	4.730	0.001	5417368	0.1838	97.2- 157.2	127.2	
			Average of Peak Amounts =			0.1987			
						RPD = 0.45			

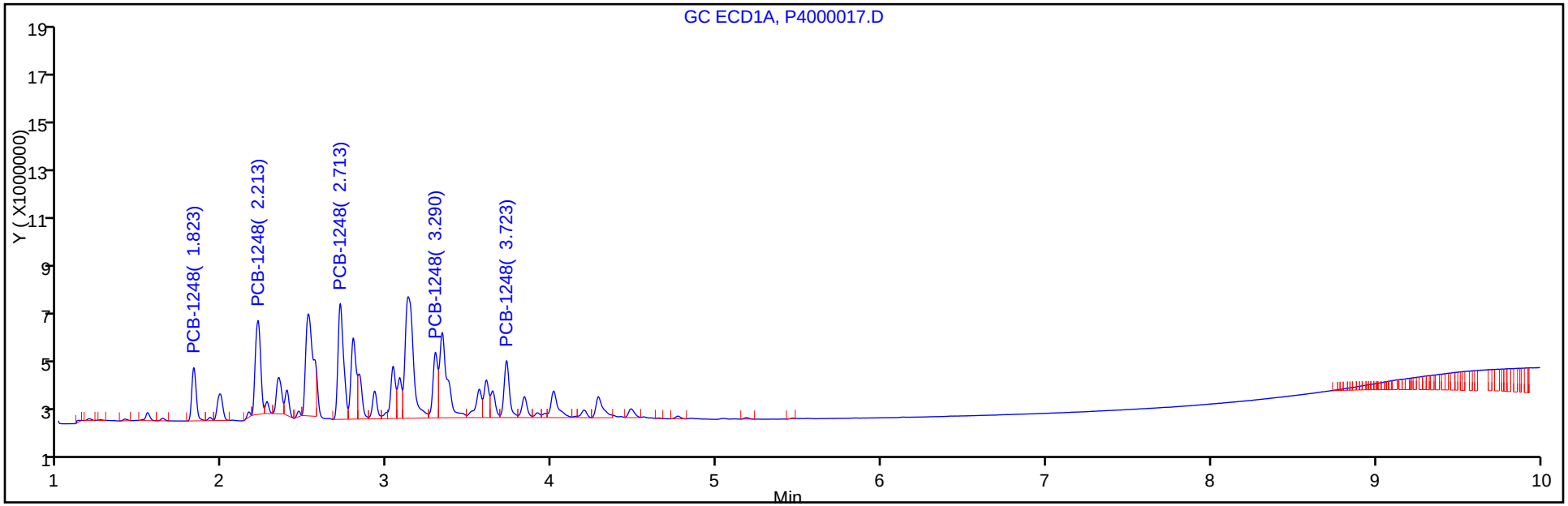
Report Date: 15-Apr-2013 13:04:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

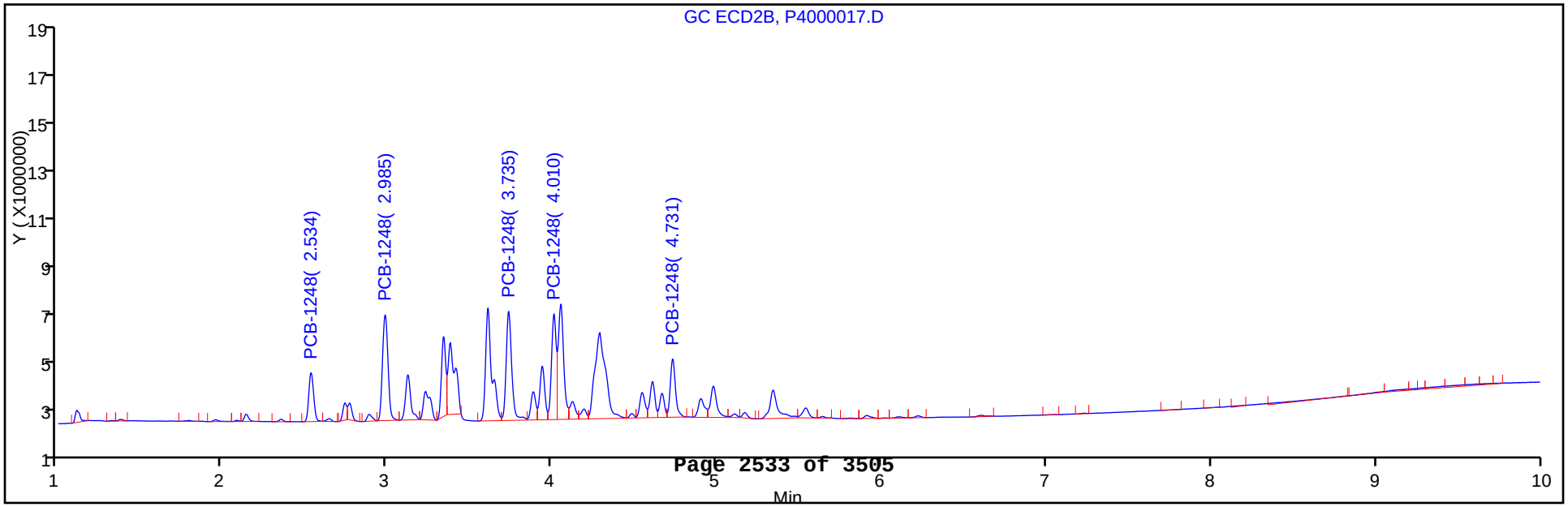
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000017.D

Injection Date:	15-Apr-2013 03:21:46	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000018.D
Lims ID: STD05 1248 Client ID:
Inject. Date: 15-Apr-2013 03:37:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018824-018
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 81761 Lims Sample ID: 18
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:55 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.822	1.821	0.001	9310306	0.4618		100.0	
1	2	2.212	2.210	0.002	23164108	0.4810	186.1- 236.1	248.8	
1	3	2.712	2.711	0.001	26105322	0.4610	247.4- 297.4	280.4	
1	4	3.290	3.290	0.000	13444021	0.4748	106.3- 156.3	144.4	
1	5	3.722	3.721	0.001	13518294	0.4918	103.3- 153.3	145.2	
			Average of Peak Amounts =			0.4741			
2	6	2.535	2.532	0.003	9548938	0.4646		100.0	
2	7	2.985	2.982	0.003	24643538	0.4716	215.2- 275.2	258.1	
2	8	3.735	3.733	0.002	25368546	0.4732	225.9- 285.9	265.7	
2	9	4.010	4.008	0.002	21095875	0.4726	178.4- 238.4	220.9	
2	10	4.730	4.730	0.000	14980478	0.5083	97.2- 157.2	156.9	
			Average of Peak Amounts =			0.4781			
						RPD = 0.84			

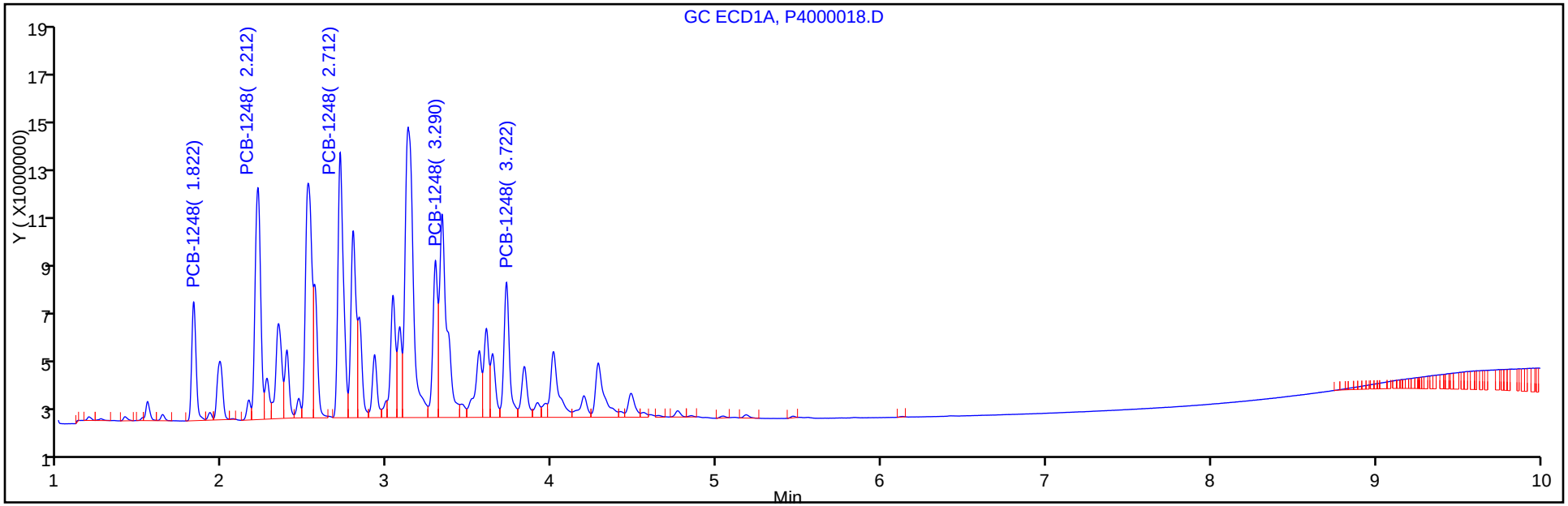
Report Date: 15-Apr-2013 13:04:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

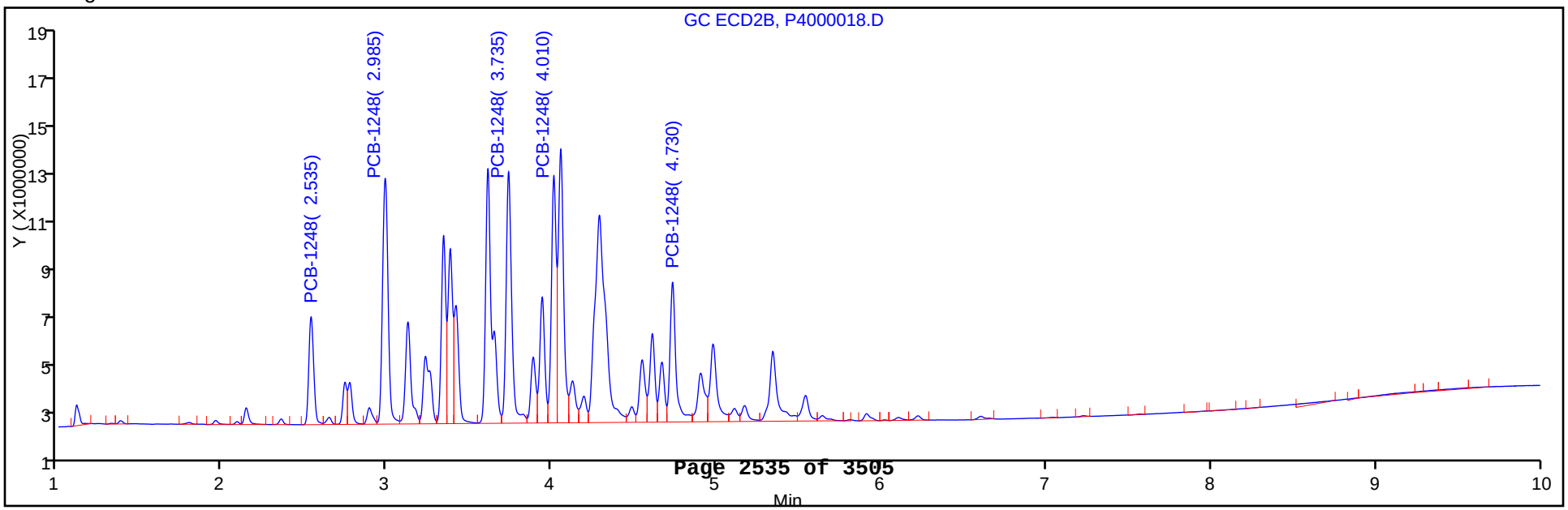
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000018.D

Injection Date:	15-Apr-2013 03:37:25	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000019.D
Lims ID: STD1 1248 Client ID:
Inject. Date: 15-Apr-2013 03:53:03 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-019
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 19
Lims Batch ID: 81761 Lims Sample ID: 19
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:56 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.822	1.821	0.001	18644528	0.9248		100.0	
1	2	2.213	2.210	0.003	48573249	1.01	186.1- 236.1	260.5	
1	3	2.712	2.711	0.001	54549073	0.9633	247.4- 297.4	292.6	
1	4	3.290	3.290	0.000	29177858	1.03	106.3- 156.3	156.5	
1	5	3.721	3.721	0.000	28094417	1.02	103.3- 153.3	150.7	
			Average of Peak Amounts =			0.9898			
2	6	2.534	2.532	0.002	18739596	0.9118		100.0	
2	7	2.985	2.982	0.003	49805139	0.9531	215.2- 275.2	265.8	
2	8	3.734	3.733	0.001	52292345	0.9755	225.9- 285.9	279.0	
2	9	4.009	4.008	0.001	44182167	0.9897	178.4- 238.4	235.8	
2	10	4.731	4.730	0.001	30966185	1.05	97.2- 157.2	165.2	
			Average of Peak Amounts =			0.9762			
						RPD = 1.39			

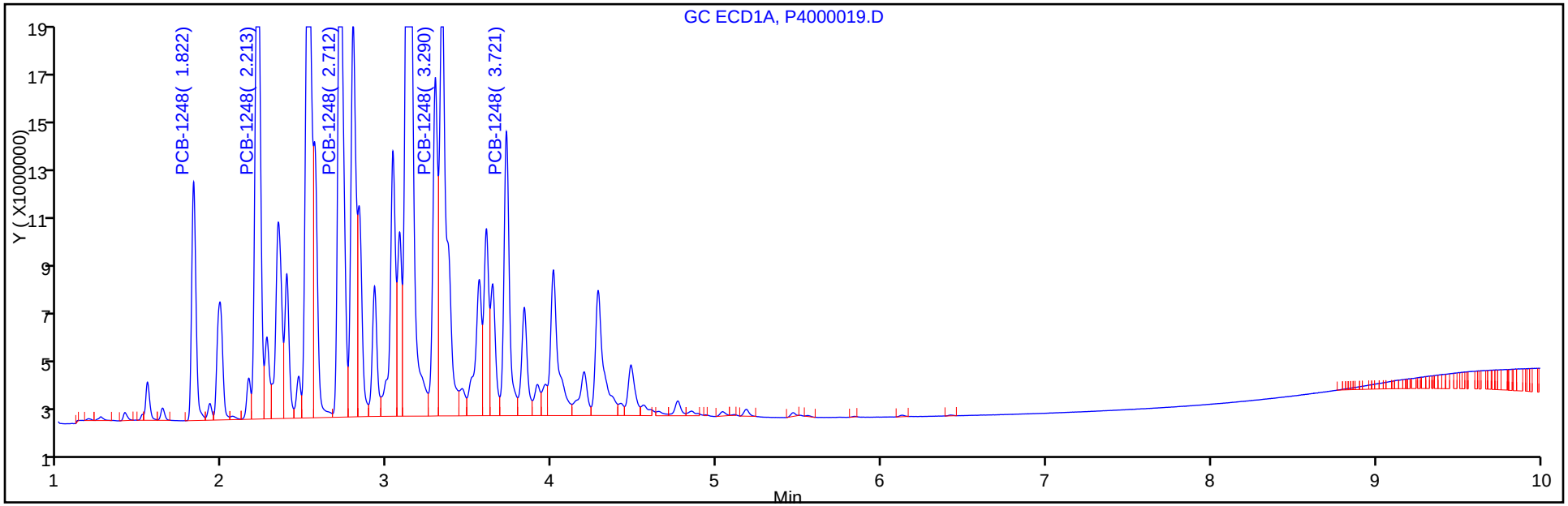
Report Date: 15-Apr-2013 13:04:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

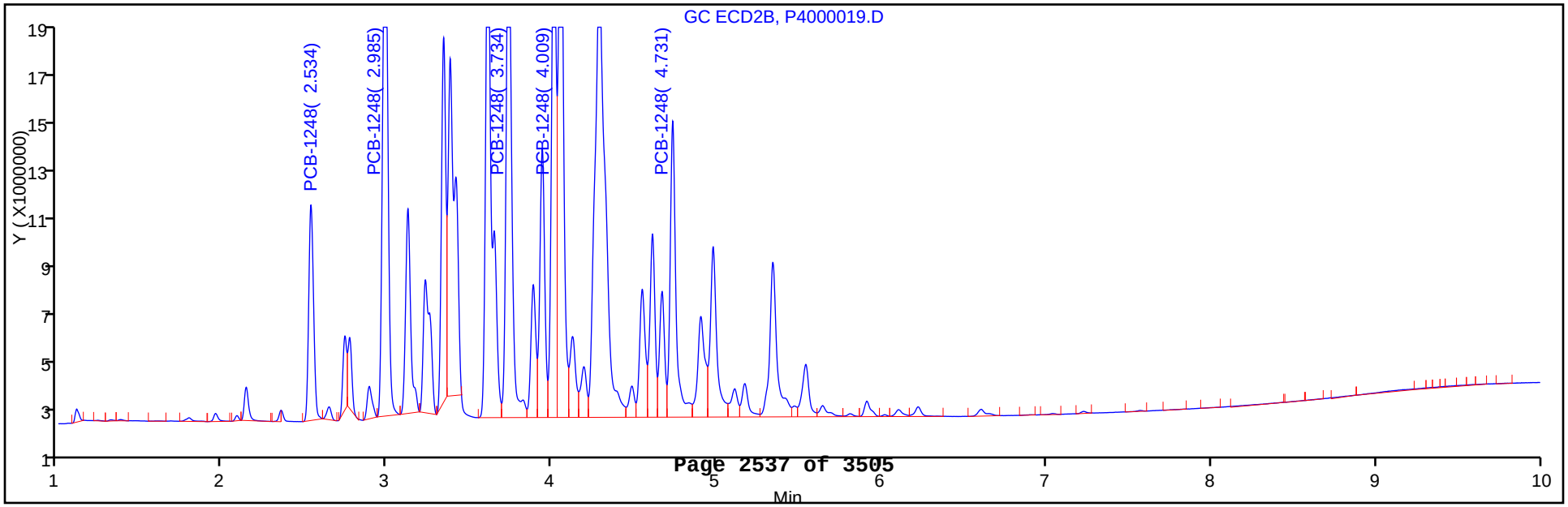
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000019.D

Injection Date:	15-Apr-2013 03:53:03	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000020.D		
Lims ID:	STD2 1248	Client ID:	
Inject. Date:	15-Apr-2013 04:08:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018824-020		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	20
Lims Batch ID:	81761	Lims Sample ID:	20
Sublist:	chrom-PCB4*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:58	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.822	1.821	0.001	34456808	1.71		100.0	
1	2	2.213	2.210	0.003	93506796	1.94	186.1- 236.1	271.4	
1	3	2.711	2.711	0.000	104150705	1.84	247.4- 297.4	302.3	
1	4	3.289	3.290	-0.001	57283059	2.02	106.3- 156.3	166.2	
1	5	3.721	3.721	0.000	55175962	2.01	103.3- 153.3	160.1	
			Average of Peak Amounts =			1.90			
2	6	2.535	2.532	0.003	35364911	1.72		100.0	
2	7	2.985	2.982	0.003	98612004	1.89	215.2- 275.2	278.8	
2	8	3.734	3.733	0.001	97746731	1.82	225.9- 285.9	276.4	
2	9	4.010	4.008	0.002	86926943	1.95	178.4- 238.4	245.8	
2	10	4.730	4.730	0.000	57129707	1.94	97.2- 157.2	161.5	
			Average of Peak Amounts =			1.86			
						RPD = 2.16			

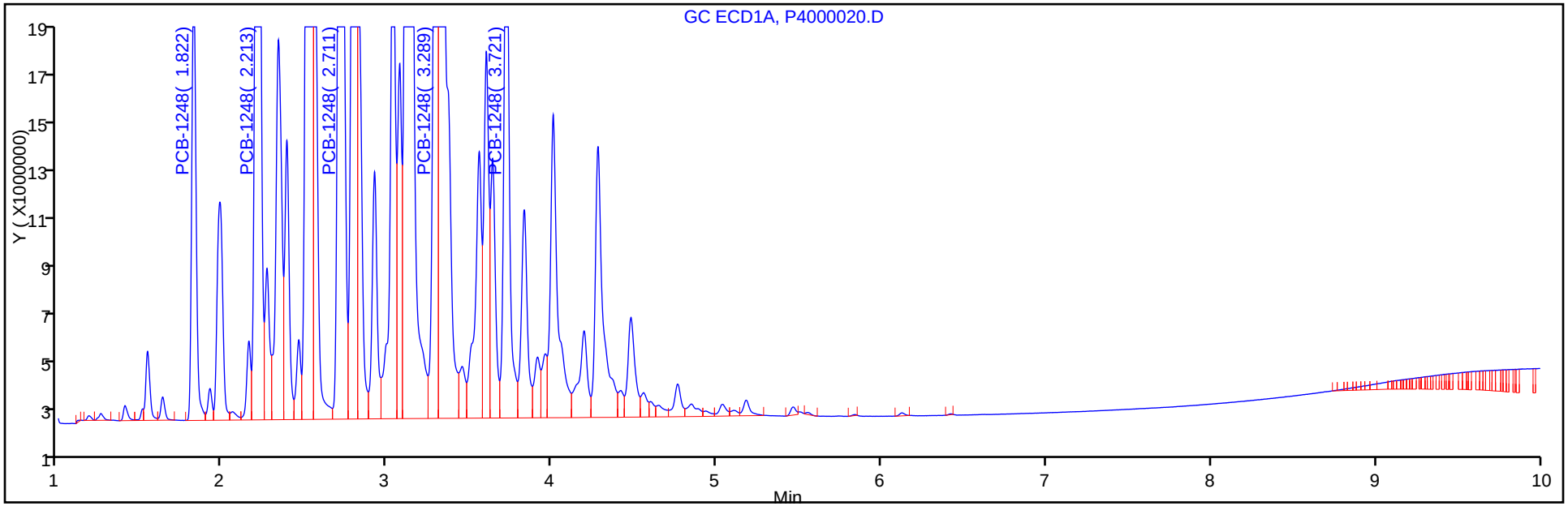
Report Date: 15-Apr-2013 13:04:59 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

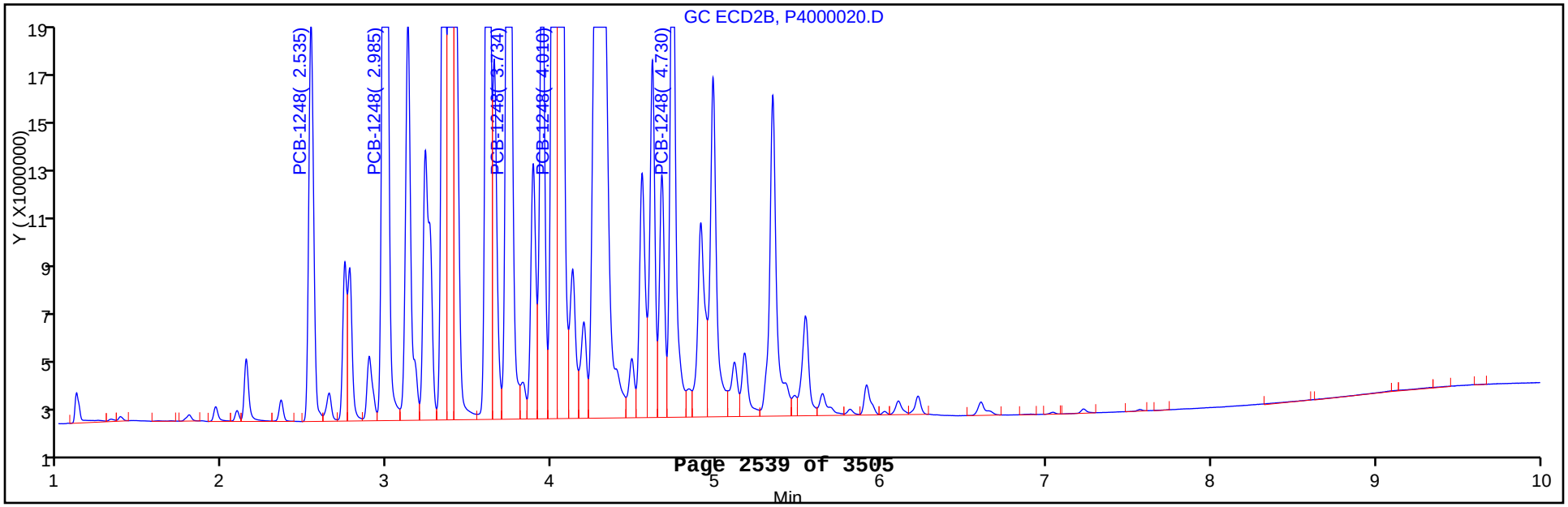
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000020.D

Injection Date:	15-Apr-2013 04:08:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 02:50 Calibration End Date: 04/15/2013 04:08 Calibration ID: 14522

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/15	P4000015.D
Level 2	STD01 240-81761/16	P4000016.D
Level 3	STD02 240-81761/17	P4000017.D
Level 4	STD05 240-81761/18	P4000018.D
Level 5	STD1 240-81761/19	P4000019.D
Level 6	STD2 240-81761/20	P4000020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	2.532	2.534	2.534	2.535	2.534	2.535					2.432 - 2.632	2.534
PCB-1248 Peak 2	2.982	2.984	2.985	2.985	2.985	2.985					2.882 - 3.082	2.984
PCB-1248 Peak 3	3.733	3.734	3.735	3.735	3.734	3.734					3.633 - 3.833	3.734
PCB-1248 Peak 4	4.008	4.009	4.010	4.010	4.009	4.010					3.908 - 4.108	4.009
PCB-1248 Peak 5	4.730	4.731	4.731	4.730	4.731	4.730					4.630 - 4.830	4.731

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 02:50 Calibration End Date: 04/15/2013 04:08 Calibration ID: 14522

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/15	P4000015.D
Level 2	STD01 240-81761/16	P4000016.D
Level 3	STD02 240-81761/17	P4000017.D
Level 4	STD05 240-81761/18	P4000018.D
Level 5	STD1 240-81761/19	P4000019.D
Level 6	STD2 240-81761/20	P4000020.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	23917140 18739596	22569000 17682456	21303025	19097876	Ave		20551515.4				12.0		20.0			
PCB-1248 Peak 2	57855280 49805139	55024410 49306002	52243935	49287076	Ave		52253640.3				6.8		20.0			
PCB-1248 Peak 3	58692040 52292345	56531240 48873366	54514805	50737092	Ave		53606814.6				6.9		20.0			
PCB-1248 Peak 4	47422700 44182167	46200690 43463472	44390570	42191750	Ave		44641891.4				4.2		20.0			
PCB-1248 Peak 5	29394800 30966185	30847870 28564854	27086840	29960956	Ave		29470250.8				5.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 02:50 Calibration End Date: 04/15/2013 04:08 Calibration ID: 14522

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/15	P4000015.D
Level 2	STD01 240-81761/16	P4000016.D
Level 3	STD02 240-81761/17	P4000017.D
Level 4	STD05 240-81761/18	P4000018.D
Level 5	STD1 240-81761/19	P4000019.D
Level 6	STD2 240-81761/20	P4000020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	1195857 35364911	2256900	4260605	9548938	18739596	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	Ave	2892764 98612004	5502441	10448787	24643538	49805139	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	Ave	2934602 97746731	5653124	10902961	25368546	52292345	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	Ave	2371135 86926943	4620069	8878114	21095875	44182167	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	Ave	1469740 57129707	3084787	5417368	14980478	30966185	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000015.D
Lims ID: STD005 1248 Client ID:
Inject. Date: 15-Apr-2013 02:50:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-015
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 81761 Lims Sample ID: 15
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.821	1.821	0.000	1140422	0.0566		100.0	
1	2	2.210	2.210	0.000	2459103	0.0511	186.1- 236.1	215.6	
1	3	2.711	2.711	0.000	3137261	0.0554	247.4- 297.4	275.1	
1	4	3.290	3.290	0.000	1418883	0.0501	106.3- 156.3	124.4	
1	5	3.721	3.721	0.000	1304448	0.0475	103.3- 153.3	114.4	
			Average of Peak Amounts =			0.0521			
2	6	2.532	2.532	0.000	1195857	0.0582		100.0	
2	7	2.982	2.982	0.000	2892764	0.0554	215.2- 275.2	241.9	
2	8	3.733	3.733	0.000	2934602	0.0547	225.9- 285.9	245.4	
2	9	4.008	4.008	0.000	2371135	0.0531	178.4- 238.4	198.3	
2	10	4.730	4.730	0.000	1469740	0.0499	97.2- 157.2	122.9	
			Average of Peak Amounts =			0.0543			
						RPD = 4.02			

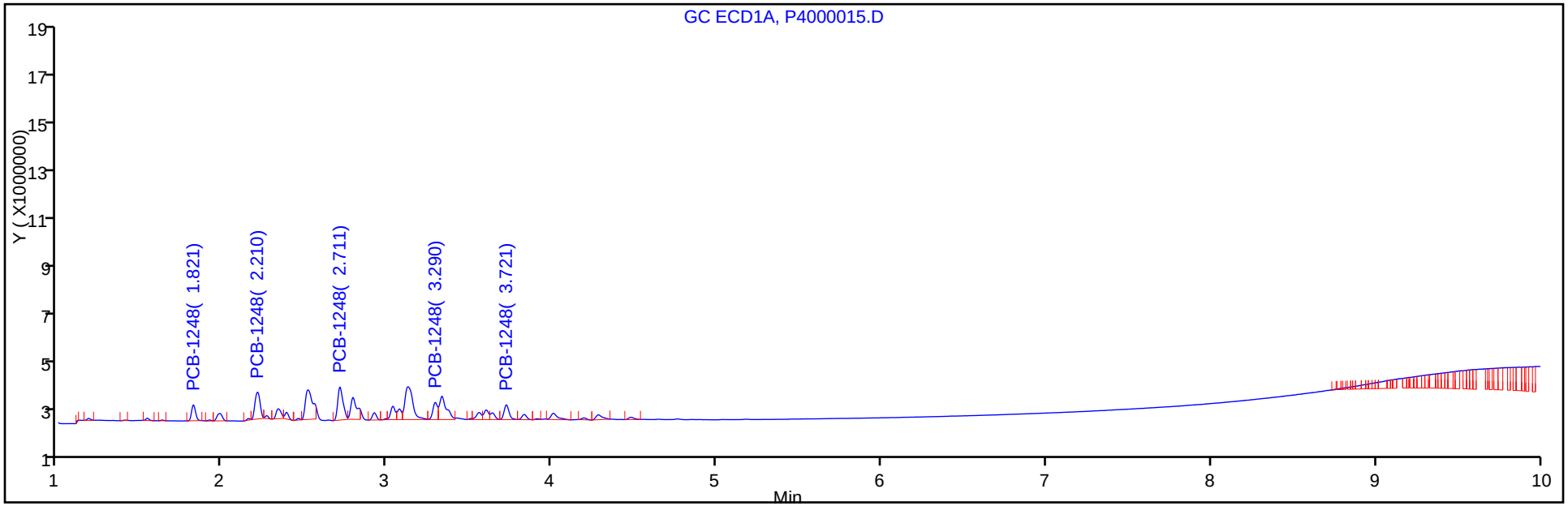
Report Date: 15-Apr-2013 13:04:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

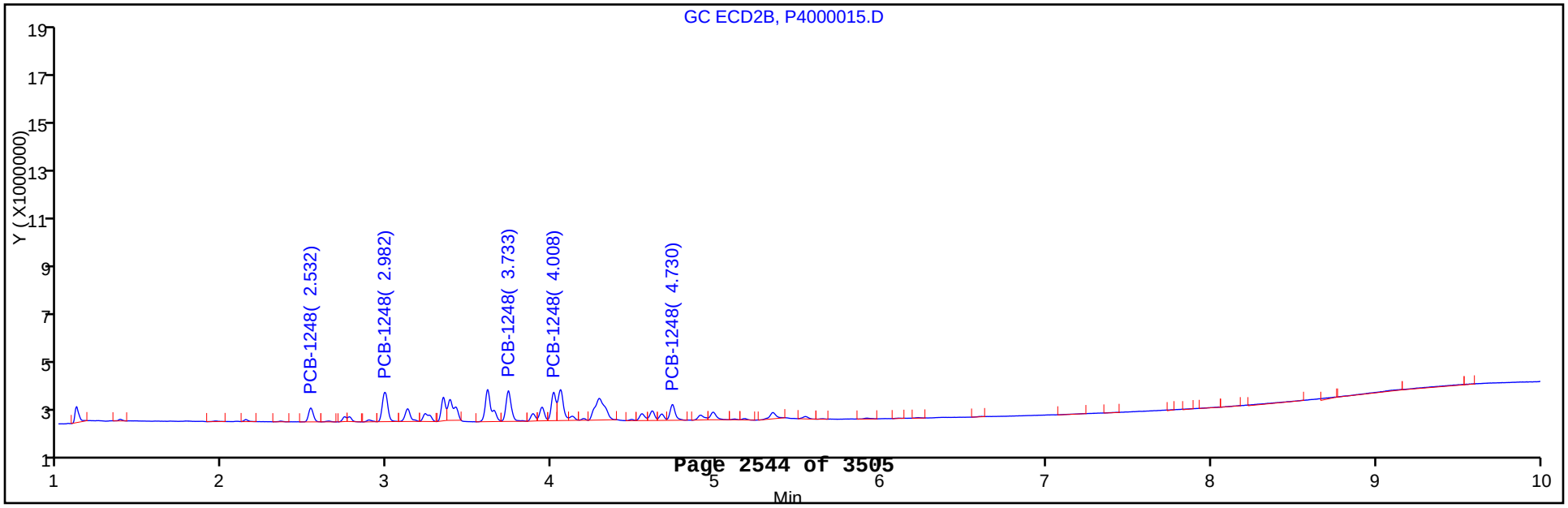
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000015.D

Injection Date:	15-Apr-2013 02:50:20	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	15
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000016.D		
Lims ID:	STD01 1248	Client ID:	
Inject. Date:	15-Apr-2013 03:06:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018824-016		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	81761	Lims Sample ID:	16
Sublist:	chrom-PCB4*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:52	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.821	1.821	0.000	2239648	0.1111		100.0	
1	2	2.212	2.210	0.002	5321407	0.1105	186.1- 236.1	237.6	
1	3	2.711	2.711	0.000	6027052	0.1064	247.4- 297.4	269.1	
1	4	3.289	3.290	-0.001	2888017	0.1020	106.3- 156.3	128.9	
1	5	3.723	3.721	0.002	2882330	0.1049	103.3- 153.3	128.7	
			Average of Peak Amounts =			0.1070			
2	6	2.534	2.532	0.002	2256900	0.1098		100.0	
2	7	2.984	2.982	0.002	5502441	0.1053	215.2- 275.2	243.8	
2	8	3.734	3.733	0.001	5653124	0.1055	225.9- 285.9	250.5	
2	9	4.009	4.008	0.001	4620069	0.1035	178.4- 238.4	204.7	
2	10	4.731	4.730	0.001	3084787	0.1047	97.2- 157.2	136.7	
			Average of Peak Amounts =			0.1057			
						RPD = 1.15			

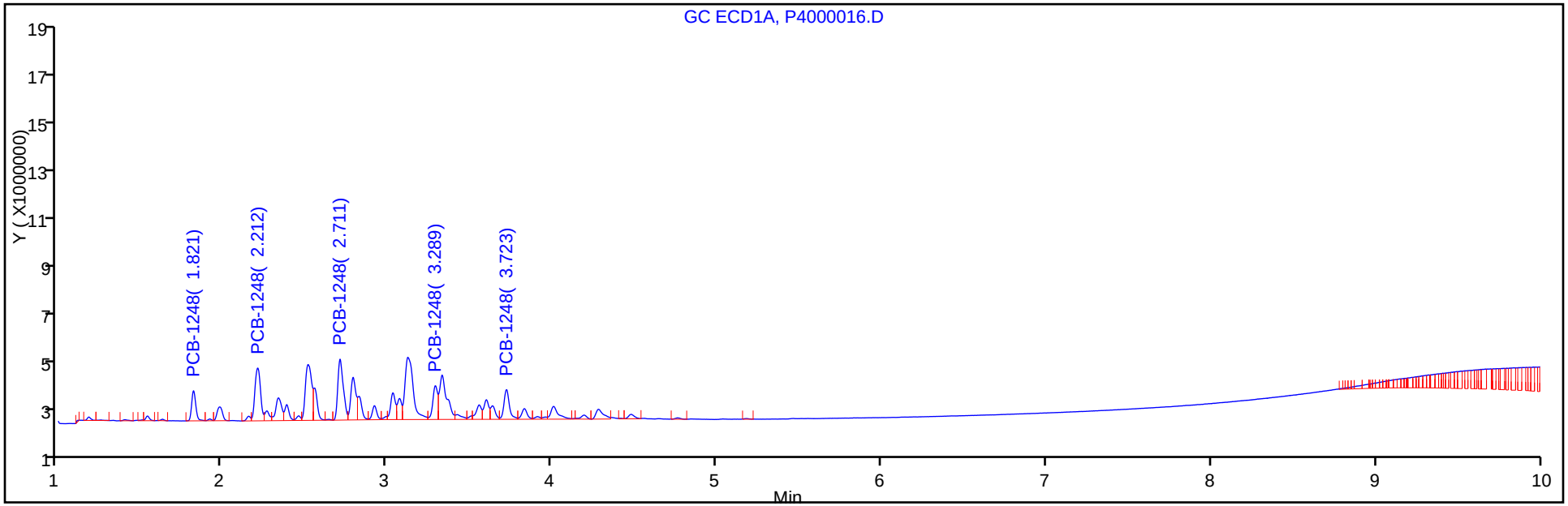
Report Date: 15-Apr-2013 13:04:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

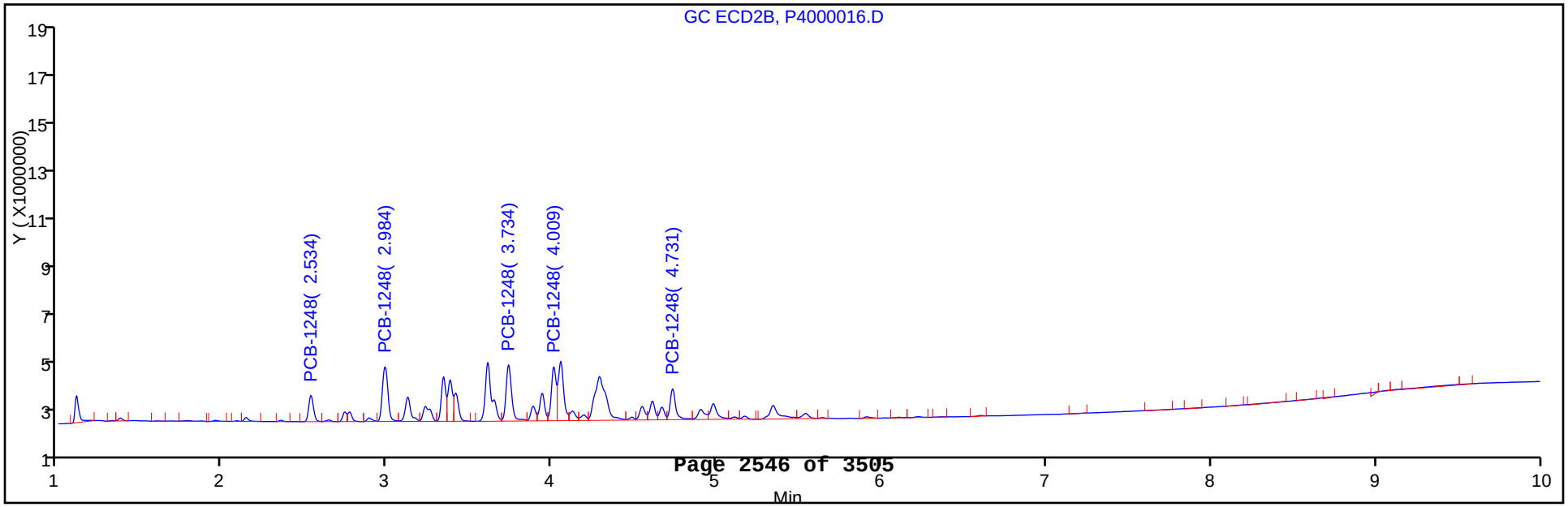
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000016.D

Injection Date:	15-Apr-2013 03:06:00	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	16
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000017.D
Lims ID: STD02 1248 Client ID:
Inject. Date: 15-Apr-2013 03:21:46 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-017
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 81761 Lims Sample ID: 17
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:54 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.823	1.821	0.002	4253008	0.2110		100.0	
1	2	2.213	2.210	0.003	8979940	0.1865	186.1- 236.1	211.1	
1	3	2.713	2.711	0.002	11584469	0.2046	247.4- 297.4	272.4	
1	4	3.290	3.290	0.000	5585369	0.1973	106.3- 156.3	131.3	
1	5	3.723	3.721	0.002	5458310	0.1986	103.3- 153.3	128.3	
			Average of Peak Amounts =			0.1996			
2	6	2.534	2.532	0.002	4260605	0.2073		100.0	
2	7	2.985	2.982	0.003	10448787	0.2000	215.2- 275.2	245.2	
2	8	3.735	3.733	0.002	10902961	0.2034	225.9- 285.9	255.9	
2	9	4.010	4.008	0.002	8878114	0.1989	178.4- 238.4	208.4	
2	10	4.731	4.730	0.001	5417368	0.1838	97.2- 157.2	127.2	
			Average of Peak Amounts =			0.1987			
						RPD = 0.45			

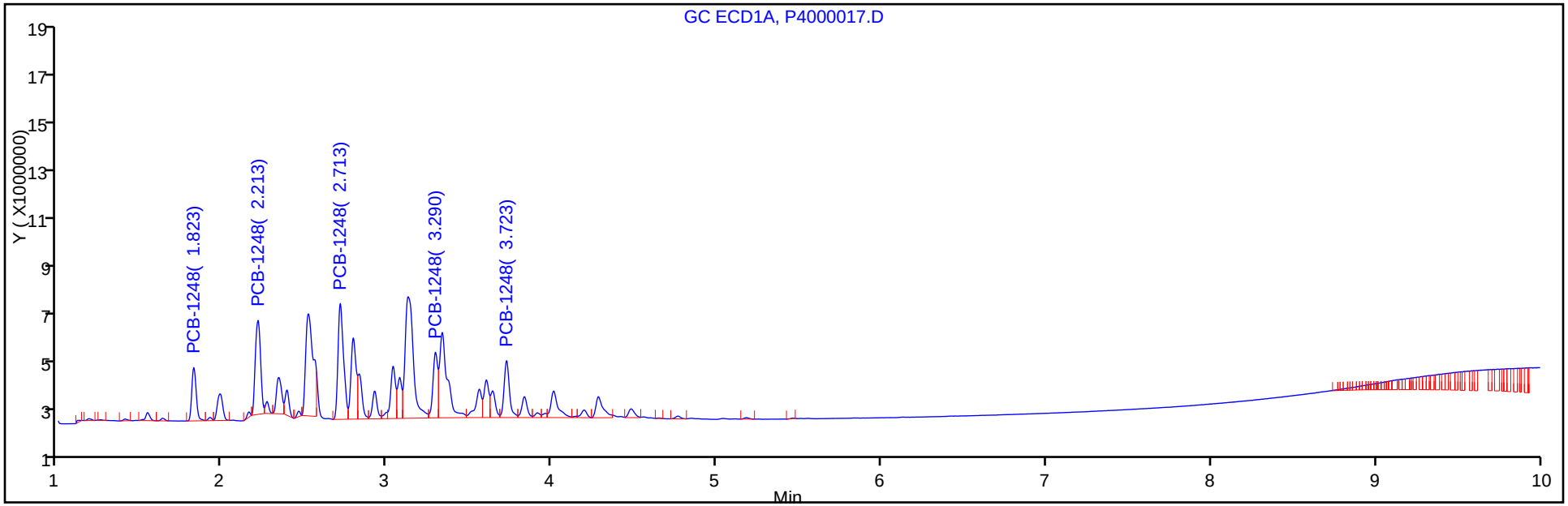
Report Date: 15-Apr-2013 13:04:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

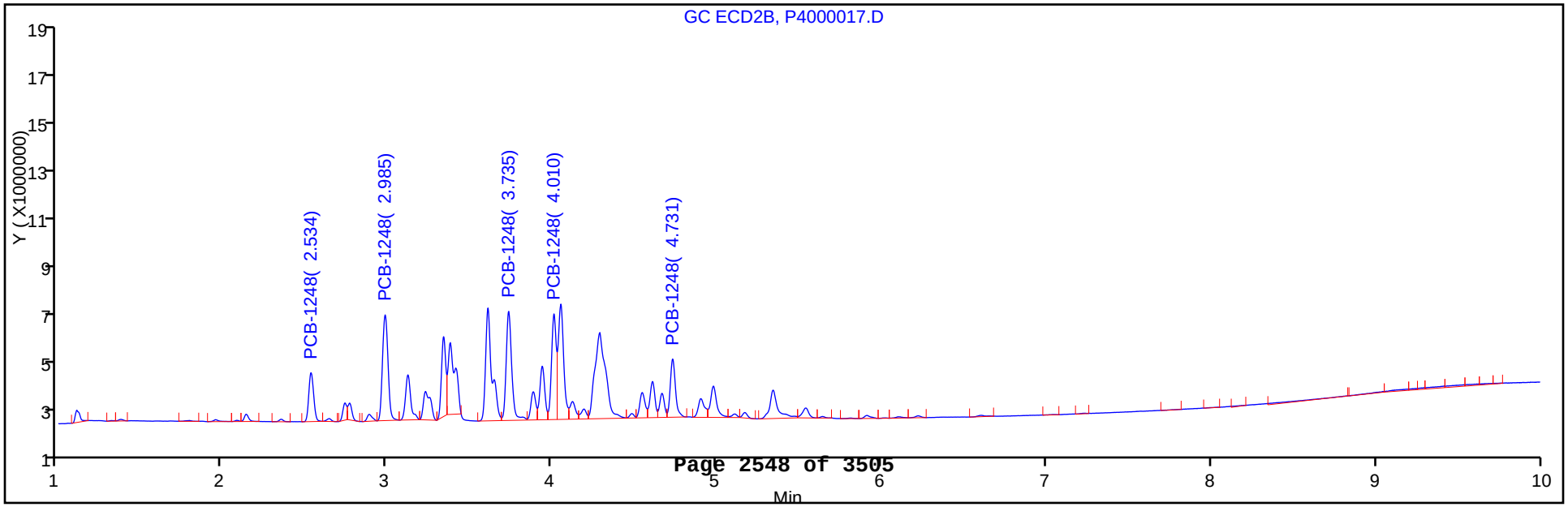
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000017.D

Injection Date:	15-Apr-2013 03:21:46	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	17
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000018.D
Lims ID: STD05 1248 Client ID:
Inject. Date: 15-Apr-2013 03:37:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018824-018
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 81761 Lims Sample ID: 18
Sublist: chrom-PCB4*sub3
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:55 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.822	1.821	0.001	9310306	0.4618		100.0	
1	2	2.212	2.210	0.002	23164108	0.4810	186.1- 236.1	248.8	
1	3	2.712	2.711	0.001	26105322	0.4610	247.4- 297.4	280.4	
1	4	3.290	3.290	0.000	13444021	0.4748	106.3- 156.3	144.4	
1	5	3.722	3.721	0.001	13518294	0.4918	103.3- 153.3	145.2	
			Average of Peak Amounts =			0.4741			
2	6	2.535	2.532	0.003	9548938	0.4646		100.0	
2	7	2.985	2.982	0.003	24643538	0.4716	215.2- 275.2	258.1	
2	8	3.735	3.733	0.002	25368546	0.4732	225.9- 285.9	265.7	
2	9	4.010	4.008	0.002	21095875	0.4726	178.4- 238.4	220.9	
2	10	4.730	4.730	0.000	14980478	0.5083	97.2- 157.2	156.9	
			Average of Peak Amounts =			0.4781			
						RPD = 0.84			

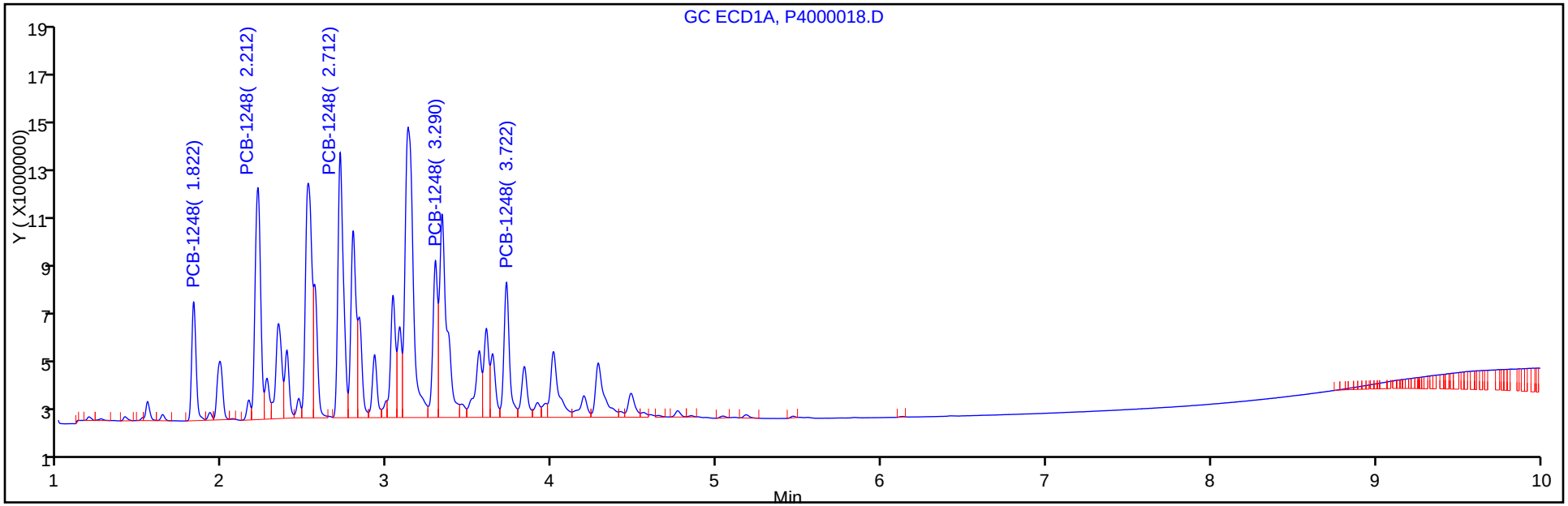
Report Date: 15-Apr-2013 13:04:56 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

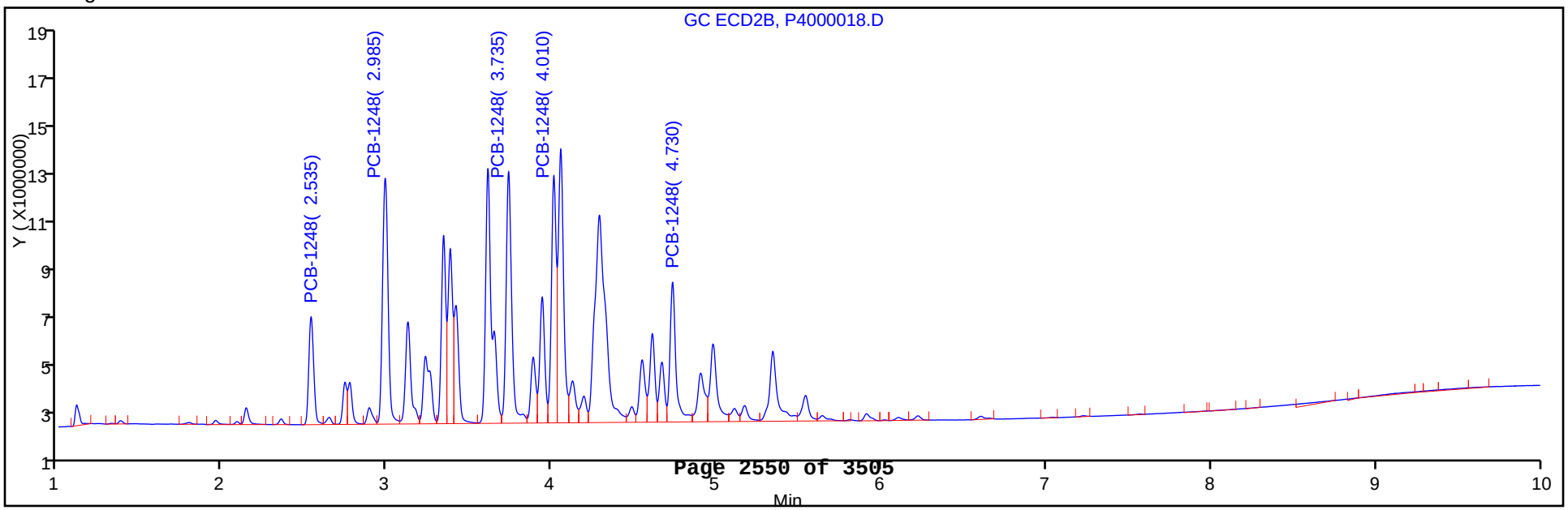
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000018.D

Injection Date:	15-Apr-2013 03:37:25	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	18
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000019.D		
Lims ID:	STD1 1248	Client ID:	
Inject. Date:	15-Apr-2013 03:53:03	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	240-0018824-019		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	19
Lims Batch ID:	81761	Lims Sample ID:	19
Sublist:	chrom-PCB4*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:56	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.822	1.821	0.001	18644528	0.9248		100.0	
1	2	2.213	2.210	0.003	48573249	1.01	186.1- 236.1	260.5	
1	3	2.712	2.711	0.001	54549073	0.9633	247.4- 297.4	292.6	
1	4	3.290	3.290	0.000	29177858	1.03	106.3- 156.3	156.5	
1	5	3.721	3.721	0.000	28094417	1.02	103.3- 153.3	150.7	
			Average of Peak Amounts =			0.9898			
2	6	2.534	2.532	0.002	18739596	0.9118		100.0	
2	7	2.985	2.982	0.003	49805139	0.9531	215.2- 275.2	265.8	
2	8	3.734	3.733	0.001	52292345	0.9755	225.9- 285.9	279.0	
2	9	4.009	4.008	0.001	44182167	0.9897	178.4- 238.4	235.8	
2	10	4.731	4.730	0.001	30966185	1.05	97.2- 157.2	165.2	
			Average of Peak Amounts =			0.9762			
						RPD = 1.39			

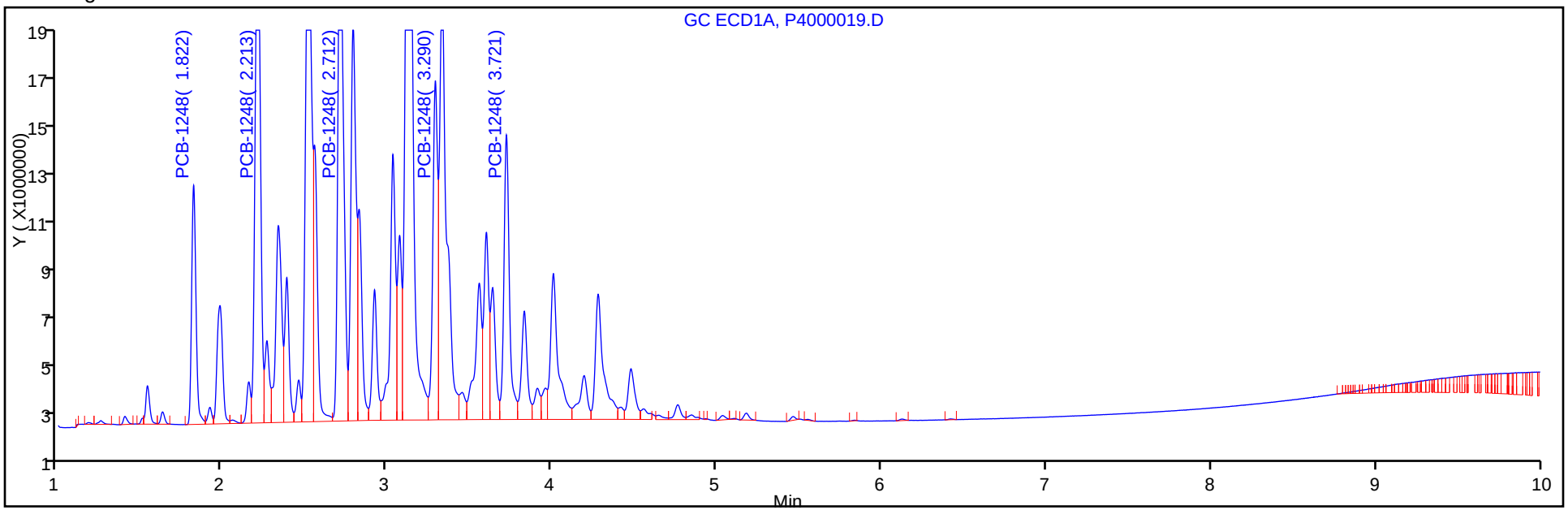
Report Date: 15-Apr-2013 13:04:58 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

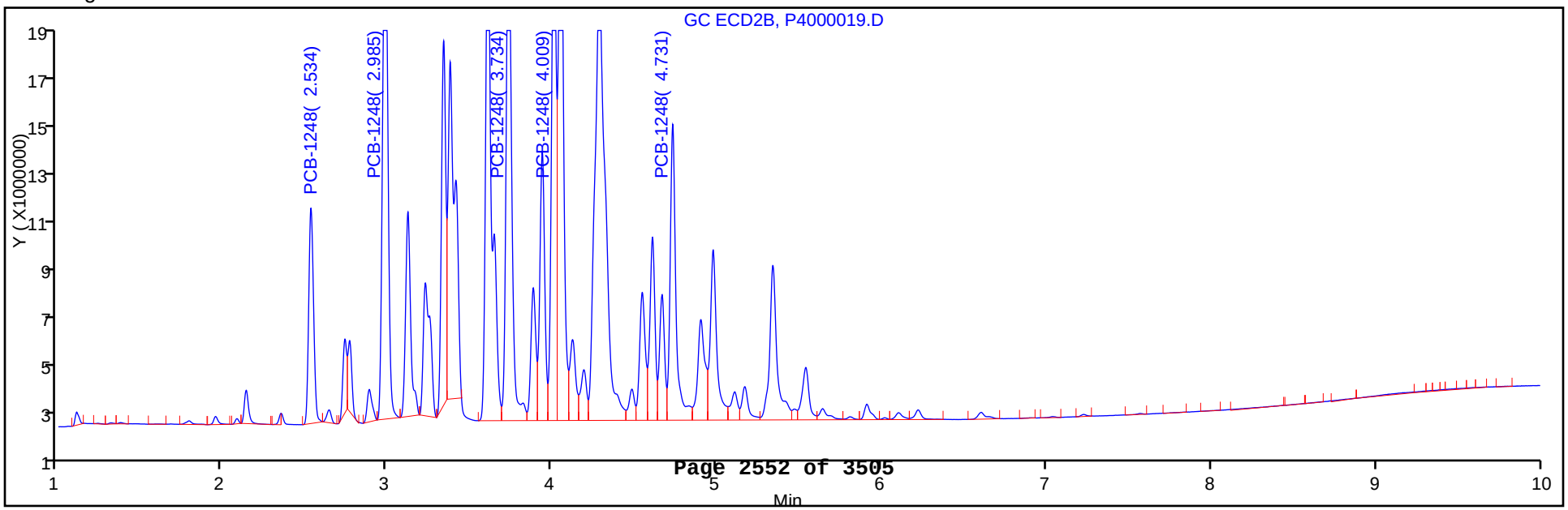
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000019.D

Injection Date:	15-Apr-2013 03:53:03	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000020.D		
Lims ID:	STD2 1248	Client ID:	
Inject. Date:	15-Apr-2013 04:08:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	240-0018824-020		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	20
Lims Batch ID:	81761	Lims Sample ID:	20
Sublist:	chrom-PCB4*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:04:58	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.822	1.821	0.001	34456808	1.71		100.0	
1	2	2.213	2.210	0.003	93506796	1.94	186.1- 236.1	271.4	
1	3	2.711	2.711	0.000	104150705	1.84	247.4- 297.4	302.3	
1	4	3.289	3.290	-0.001	57283059	2.02	106.3- 156.3	166.2	
1	5	3.721	3.721	0.000	55175962	2.01	103.3- 153.3	160.1	
			Average of Peak Amounts =			1.90			
2	6	2.535	2.532	0.003	35364911	1.72		100.0	
2	7	2.985	2.982	0.003	98612004	1.89	215.2- 275.2	278.8	
2	8	3.734	3.733	0.001	97746731	1.82	225.9- 285.9	276.4	
2	9	4.010	4.008	0.002	86926943	1.95	178.4- 238.4	245.8	
2	10	4.730	4.730	0.000	57129707	1.94	97.2- 157.2	161.5	
			Average of Peak Amounts =			1.86			
						RPD = 2.16			

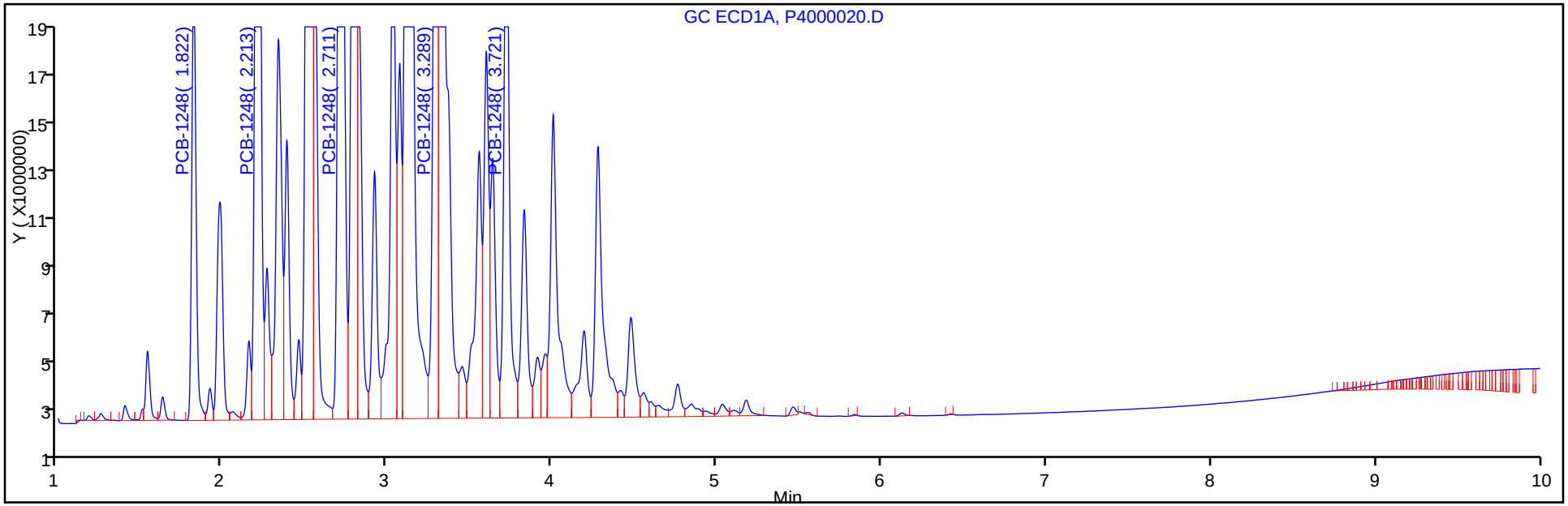
Report Date: 15-Apr-2013 13:04:59 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

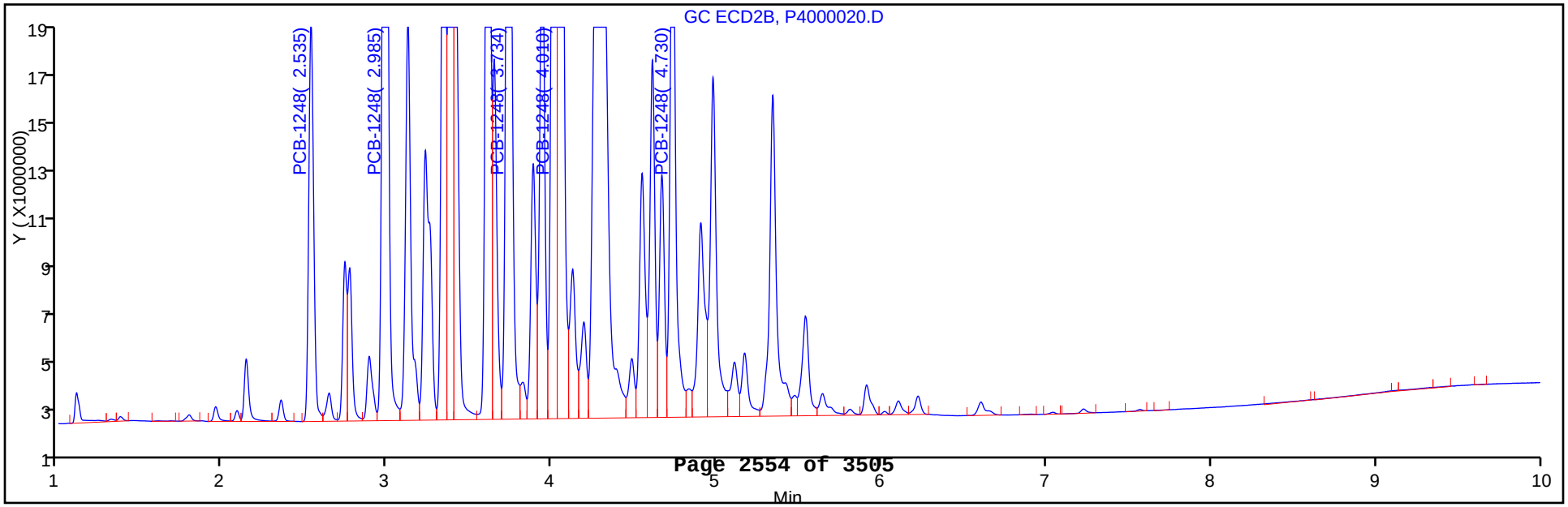
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000020.D

Injection Date:	15-Apr-2013 04:08:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	20
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 04:24 Calibration End Date: 04/15/2013 05:42 Calibration ID: 14527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/21	P4000021.D
Level 2	STD01 240-81761/22	P4000022.D
Level 3	STD02 240-81761/23	P4000023.D
Level 4	STD05 240-81761/24	P4000024.D
Level 5	STD1 240-81761/25	P4000025.D
Level 6	STD2 240-81761/26	P4000026.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.404	1.401	1.402	1.402	1.403	1.403					1.304 - 1.504	1.403
PCB-1221 Peak 2	1.511	1.511	1.510	1.511	1.511	1.511					1.411 - 1.611	1.511
PCB-1221 Peak 3	1.541	1.540	1.540	1.541	1.541	1.541					1.441 - 1.641	1.541
PCB-1254 Peak 1	3.335	3.335	3.335	3.335	3.335	3.335					3.235 - 3.435	3.335
PCB-1254 Peak 2	3.722	3.722	3.722	3.721	3.721	3.721					3.622 - 3.822	3.722
PCB-1254 Peak 3	4.007	4.007	4.007	4.006	4.005	4.005					3.907 - 4.107	4.006
PCB-1254 Peak 4	4.195	4.194	4.195	4.193	4.195	4.194					4.095 - 4.295	4.194
PCB-1254 Peak 5	4.479	4.479	4.478	4.478	4.477	4.478					4.379 - 4.579	4.478

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 04:24 Calibration End Date: 04/15/2013 05:42 Calibration ID: 14527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/21	P4000021.D
Level 2	STD01 240-81761/22	P4000022.D
Level 3	STD02 240-81761/23	P4000023.D
Level 4	STD05 240-81761/24	P4000024.D
Level 5	STD1 240-81761/25	P4000025.D
Level 6	STD2 240-81761/26	P4000026.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	17021840 13260162	16192760 12496710	15682655	14570638	Ave		14870794.1				12.0		20.0			
PCB-1221 Peak 2	7700840 6152280	7990270 6224292	8821450	7444392	Ave		7388920.58				14.0		20.0			
PCB-1221 Peak 3	43223440 33644031	39678690 30942849	38669645	36561128	Ave		37119963.8				12.0		20.0			
PCB-1254 Peak 1	83963640 76899037	79073140 74862077	79784890	74667868	Ave		78208442.0				4.5		20.0			
PCB-1254 Peak 2	89477120 83814263	82499650 84594059	85488115	82747898	Ave		84770184.1				3.0		20.0			
PCB-1254 Peak 3	53338060 57787834	53401540 59127342	54320220	52502420	Ave		55079569.3				4.9		20.0			
PCB-1254 Peak 4	58013560 53046855	55867510 52235566	54778575	51746084	Ave		54281358.3				4.4		20.0			
PCB-1254 Peak 5	81195800 77456000	78334920 77946398	78652135	76708032	Ave		78382214.1				2.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 04:24 Calibration End Date: 04/15/2013 05:42 Calibration ID: 14527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/21	P4000021.D
Level 2	STD01 240-81761/22	P4000022.D
Level 3	STD02 240-81761/23	P4000023.D
Level 4	STD05 240-81761/24	P4000024.D
Level 5	STD1 240-81761/25	P4000025.D
Level 6	STD2 240-81761/26	P4000026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	851092 24993419	1619276	3136531	7285319	13260162	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	385042 12448583	799027	1764290	3722196	6152280	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	2161172 61885697	3967869	7733929	18280564	33644031	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	4198182 149724154	7907314	15956978	37333934	76899037	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	4473856 169188117	8249965	17097623	41373949	83814263	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	2666903 118254683	5340154	10864044	26251210	57787834	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Ave	2900678 104471131	5586751	10955715	25873042	53046855	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	4059790 155892795	7833492	15730427	38354016	77456000	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000021.D
Lims ID: STD005 AR2154 Client ID:
Inject. Date: 15-Apr-2013 04:24:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 81761 Lims Sample ID: 21
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:59 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.404	1.404	0.000	851092	0.0572		100.0	
1	3	1.511	1.511	0.000	385042	0.0521	31.2- 81.2	45.2	
1	4	1.541	1.541	0.000	2161172	0.0582	221.6- 271.6	253.9	
			Average of Peak Amounts =			0.0559			
2	4	1.955	1.955	0.000	874303	0.0578		100.0	
2	5	2.085	2.085	0.000	546250	0.0572	34.7- 94.7	62.5	
2	6	2.141	2.141	0.000	2026207	0.0572	206.7- 266.7	231.8	
			Average of Peak Amounts =			0.0574			
						RPD = 2.74			
8 PCB-1254									
1	100	3.335	3.335	0.000	4198182	0.0537		100.0	
1	2	3.722	3.722	0.000	4473856	0.0528	82.1- 132.1	106.6	
1	3	4.007	4.007	0.000	2666903	0.0484	43.1- 93.1	63.5	
1	4	4.195	4.195	0.000	2900678	0.0534	43.7- 93.7	69.1	
1	5	4.479	4.479	0.000	4059790	0.0518	73.6- 123.6	96.7	
			Average of Peak Amounts =			0.0520			
2	6	4.255	4.255	0.000	3103301	0.0542		100.0	
2	7	4.732	4.732	0.000	4870192	0.0536	125.6- 185.6	156.9	
2	8	4.979	4.979	0.000	2862470	0.0520	62.4- 122.4	92.2	
2	9	5.338	5.338	0.000	2098494	0.0814	43.9- 103.9	67.6	
2	10	5.540	5.540	0.000	4554233	0.0532	115.2- 175.2	146.8	
			Average of Peak Amounts =			0.0589			
						RPD = 12.39			

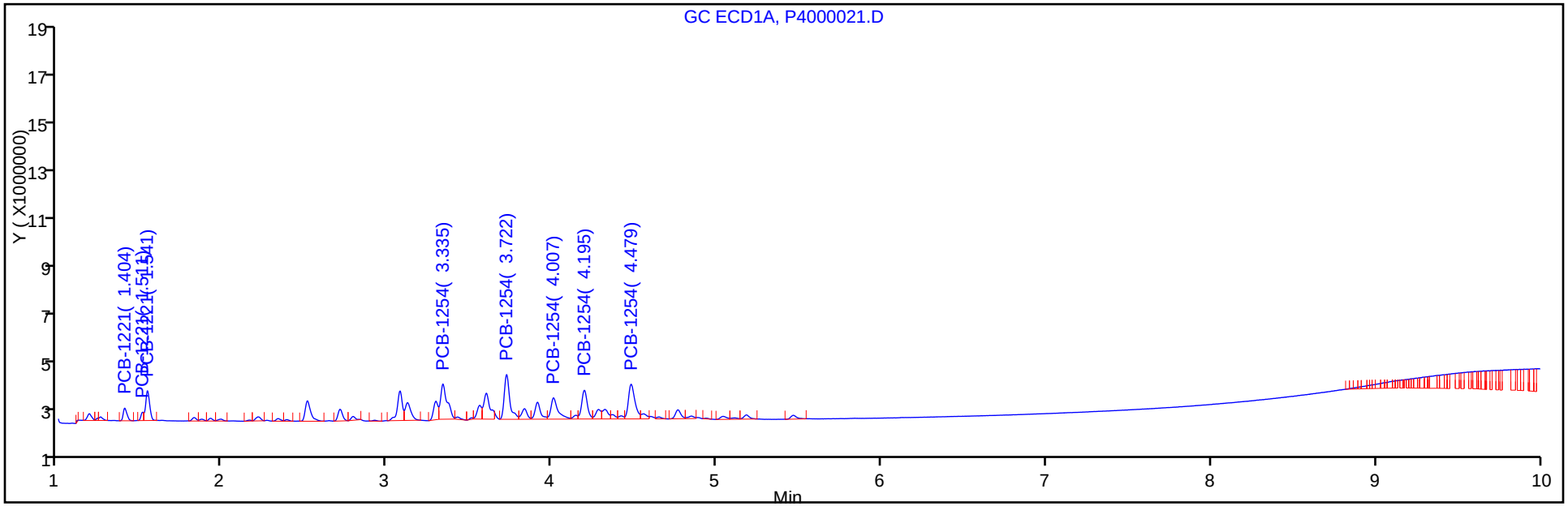
Report Date: 15-Apr-2013 13:05:01 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

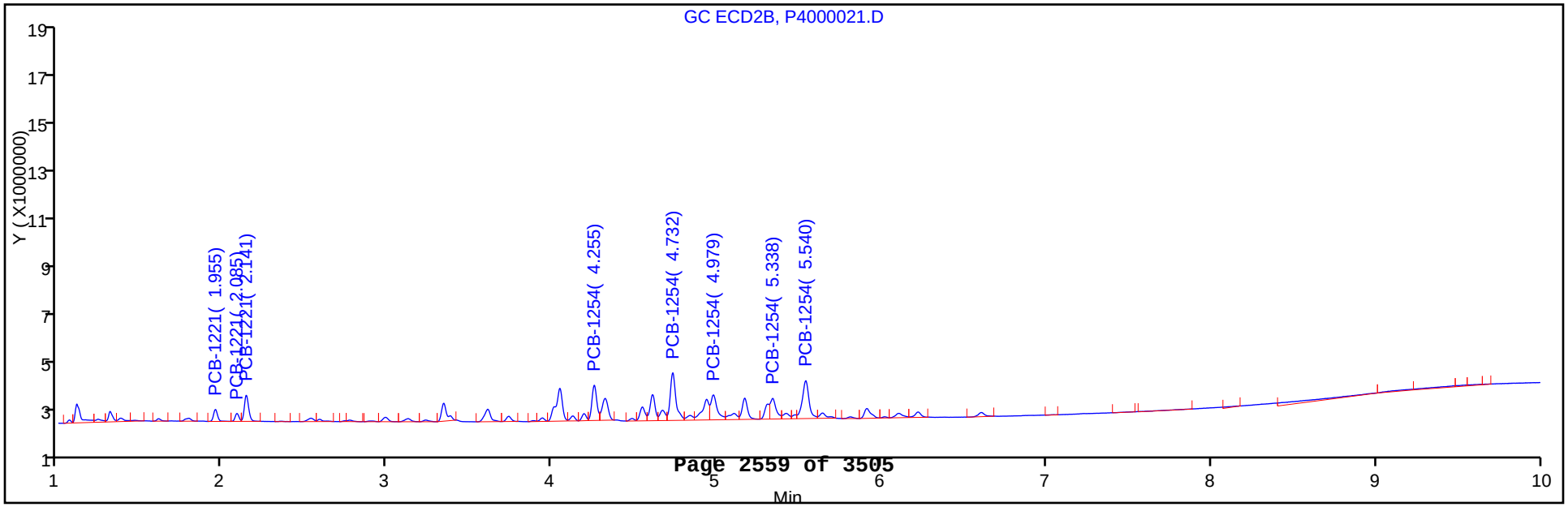
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000021.D

Injection Date:	15-Apr-2013 04:24:26	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000022.D
Lims ID: STD01 AR2154 Client ID:
Inject. Date: 15-Apr-2013 04:40:05 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018824-022
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 81761 Lims Sample ID: 22
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:01 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.401	1.404	-0.003	1619276	0.1089		100.0	
1	3	1.511	1.511	0.000	799027	0.1081	31.2- 81.2	49.3	
1	4	1.540	1.541	-0.001	3967869	0.1069	221.6- 271.6	245.0	
			Average of Peak Amounts =			0.1080			
2	4	1.952	1.955	-0.003	1682193	0.1112		100.0	
2	5	2.084	2.085	-0.001	1075432	0.1126	34.7- 94.7	63.9	
2	6	2.141	2.141	0.000	3936102	0.1112	206.7- 266.7	234.0	
			Average of Peak Amounts =			0.1117			
						RPD = 3.36			
8 PCB-1254									
1	100	3.335	3.335	0.000	7907314	0.1011		100.0	
1	2	3.722	3.722	0.000	8249965	0.0973	82.1- 132.1	104.3	
1	3	4.007	4.007	0.000	5340154	0.0970	43.1- 93.1	67.5	
1	4	4.194	4.195	-0.001	5586751	0.1029	43.7- 93.7	70.7	
1	5	4.479	4.479	0.000	7833492	0.0999	73.6- 123.6	99.1	
			Average of Peak Amounts =			0.0996			
2	6	4.254	4.255	-0.001	5963614	0.1042		100.0	
2	7	4.731	4.732	-0.001	9220808	0.1016	125.6- 185.6	154.6	
2	8	4.977	4.979	-0.002	5499628	0.0998	62.4- 122.4	92.2	
2	9	5.338	5.338	0.000	4281190	0.1181	43.9- 103.9	71.8	
2	10	5.539	5.540	-0.001	8675784	0.1014	115.2- 175.2	145.5	
			Average of Peak Amounts =			0.1050			
						RPD = 5.24			

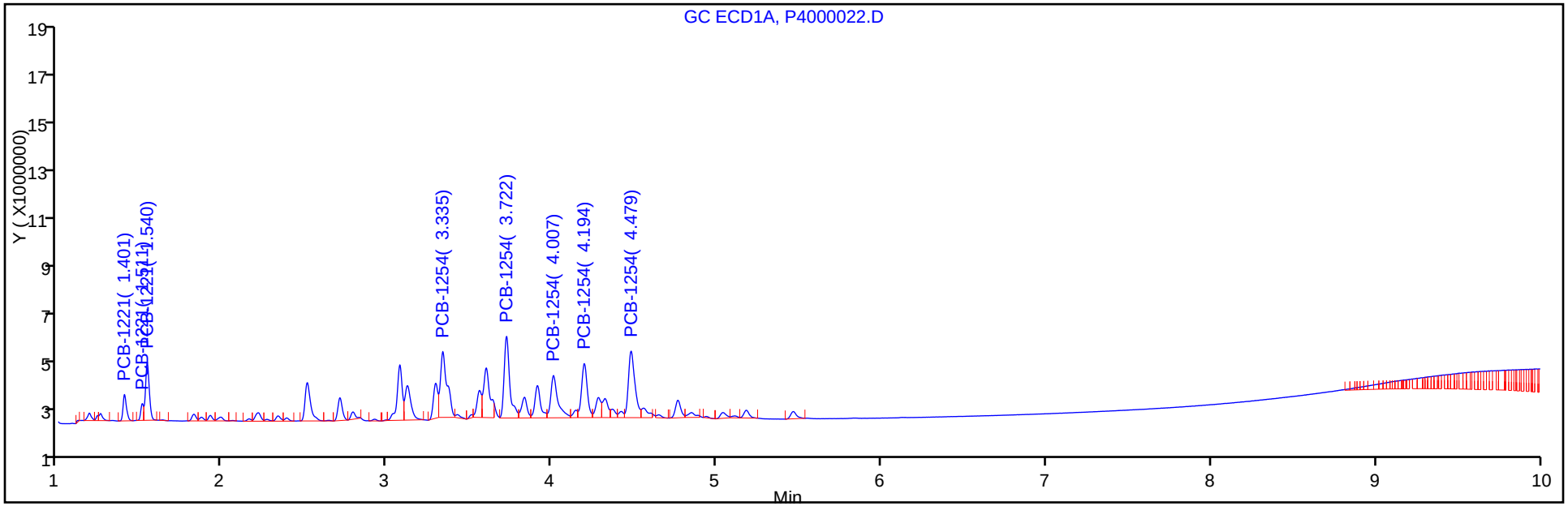
Report Date: 15-Apr-2013 13:05:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

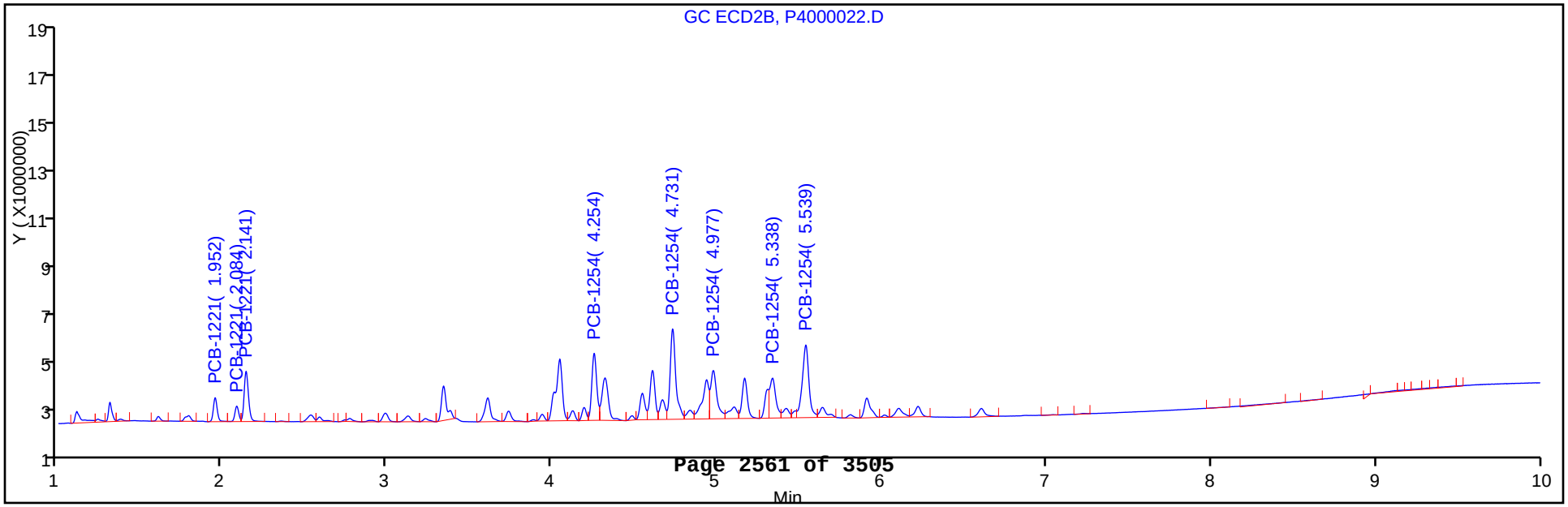
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000022.D

Injection Date:	15-Apr-2013 04:40:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000023.D
Lims ID: STD02 AR2154 Client ID:
Inject. Date: 15-Apr-2013 04:55:43 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-023
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 81761 Lims Sample ID: 23
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:04 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.402	1.404	-0.002	3136531	0.2109		100.0	
1	3	1.510	1.511	-0.001	1764290	0.2388	31.2- 81.2	56.2	
1	4	1.540	1.541	-0.001	7733929	0.2083	221.6- 271.6	246.6	
			Average of Peak Amounts =			0.2193			
2	4	1.952	1.955	-0.003	3152041	0.2084		100.0	
2	5	2.084	2.085	-0.001	2039945	0.2135	34.7- 94.7	64.7	
2	6	2.140	2.141	-0.001	7461432	0.2108	206.7- 266.7	236.7	
			Average of Peak Amounts =			0.2109			
						RPD = 3.92			
8 PCB-1254									
1	100	3.335	3.335	0.000	15956978	0.2040		100.0	
1	2	3.722	3.722	0.000	17097623	0.2017	82.1- 132.1	107.1	
1	3	4.007	4.007	0.000	10864044	0.1972	43.1- 93.1	68.1	
1	4	4.195	4.195	0.000	10955715	0.2018	43.7- 93.7	68.7	
1	5	4.478	4.479	-0.001	15730427	0.2007	73.6- 123.6	98.6	
			Average of Peak Amounts =			0.2011			
2	6	4.254	4.255	-0.001	11658931	0.2037		100.0	
2	7	4.730	4.732	-0.002	18138908	0.1998	125.6- 185.6	155.6	
2	8	4.978	4.979	-0.001	10777360	0.1956	62.4- 122.4	92.4	
2	9	5.336	5.338	-0.002	8613255	0.1903	43.9- 103.9	73.9	
2	10	5.539	5.540	-0.001	16930884	0.1979	115.2- 175.2	145.2	
			Average of Peak Amounts =			0.1974			
						RPD = 1.83			

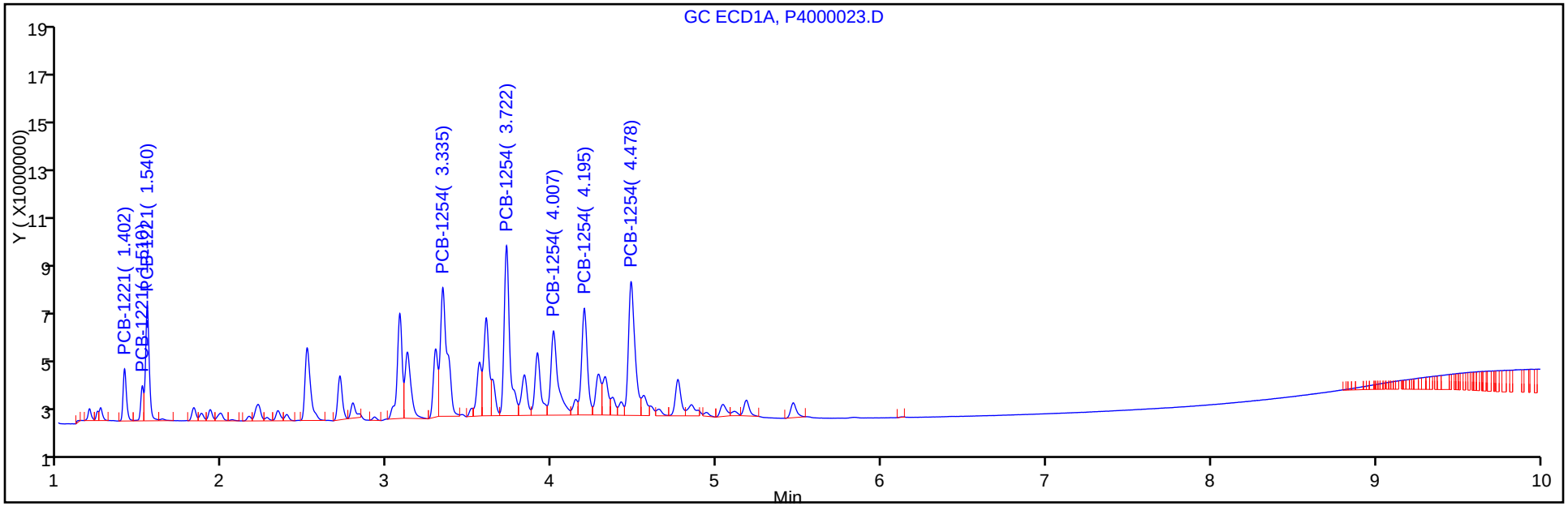
Report Date: 15-Apr-2013 13:05:06 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

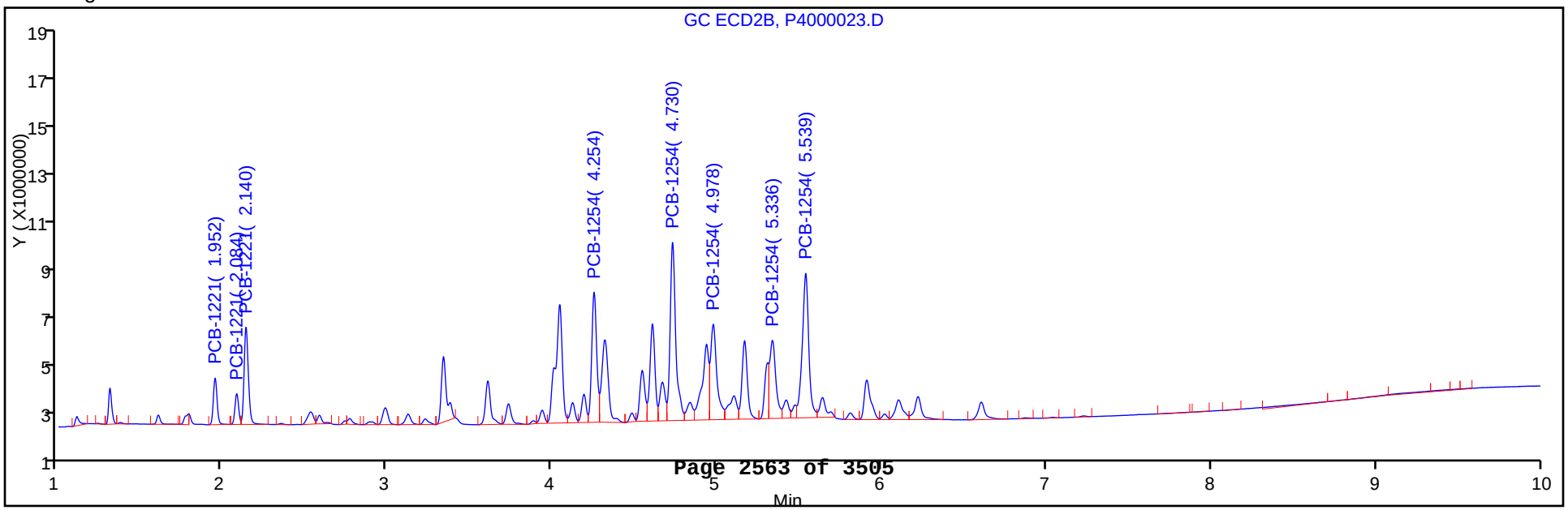
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000023.D

Injection Date:	15-Apr-2013 04:55:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000024.D
Lims ID: STD05 AR2154 Client ID:
Inject. Date: 15-Apr-2013 05:11:24 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018824-024
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 81761 Lims Sample ID: 24
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:06 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.402	1.404	-0.002	7285319	0.4899		100.0	
1	3	1.511	1.511	0.000	3722196	0.5038	31.2- 81.2	51.1	
1	4	1.541	1.541	0.000	18280564	0.4925	221.6- 271.6	250.9	
			Average of Peak Amounts =			0.4954			
2	4	1.952	1.955	-0.003	7373385	0.4875		100.0	
2	5	2.084	2.085	-0.001	4790967	0.5015	34.7- 94.7	65.0	
2	6	2.141	2.141	0.000	17611272	0.4975	206.7- 266.7	238.8	
			Average of Peak Amounts =			0.4955			
						RPD = 0.03			
8 PCB-1254									
1	100	3.335	3.335	0.000	37333934	0.4774		100.0	
1	2	3.721	3.722	-0.001	41373949	0.4881	82.1- 132.1	110.8	
1	3	4.006	4.007	-0.001	26251210	0.4766	43.1- 93.1	70.3	
1	4	4.193	4.195	-0.002	25873042	0.4766	43.7- 93.7	69.3	
1	5	4.478	4.479	-0.001	38354016	0.4893	73.6- 123.6	102.7	
			Average of Peak Amounts =			0.4816			
2	6	4.254	4.255	-0.001	28094080	0.4907		100.0	
2	7	4.731	4.732	-0.001	44975584	0.4954	125.6- 185.6	160.1	
2	8	4.976	4.979	-0.003	27072454	0.4914	62.4- 122.4	96.4	
2	9	5.336	5.338	-0.002	21744667	0.4050	43.9- 103.9	77.4	
2	10	5.539	5.540	-0.001	41851973	0.4892	115.2- 175.2	149.0	
			Average of Peak Amounts =			0.4743			
						RPD = 1.52			

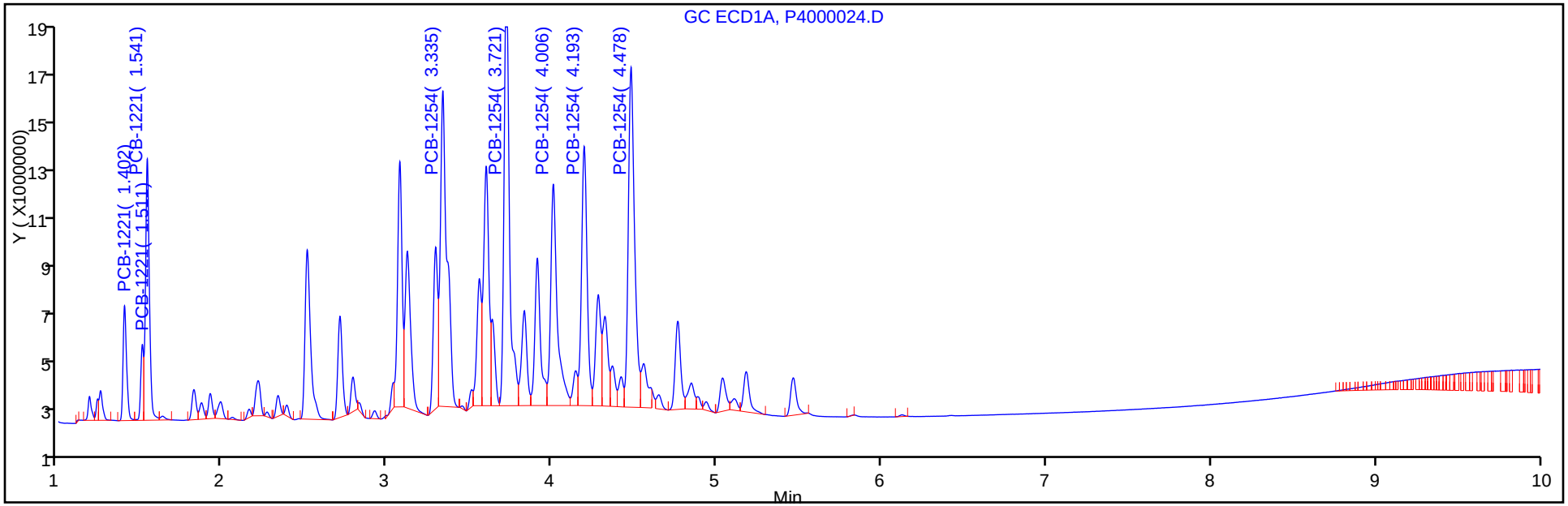
Report Date: 15-Apr-2013 13:05:07 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

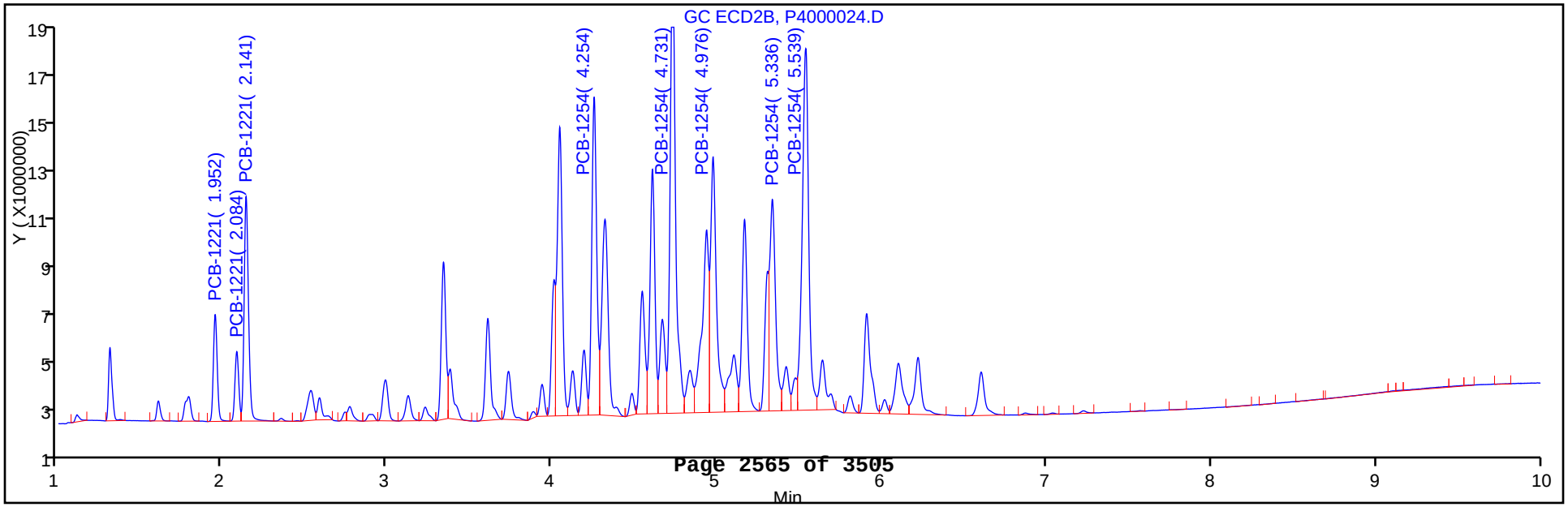
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000024.D

Injection Date:	15-Apr-2013 05:11:24	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000025.D
Lims ID: STD1 AR2154 Client ID:
Inject. Date: 15-Apr-2013 05:27:07 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-025
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 81761 Lims Sample ID: 25
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:08 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.403	1.404	-0.001	13260162	0.8917		100.0	
1	3	1.511	1.511	0.000	6152280	0.8326	31.2- 81.2	46.4	
1	4	1.541	1.541	0.000	33644031	0.9064	221.6- 271.6	253.7	
			Average of Peak Amounts =			0.8769			
2	4	1.954	1.955	-0.001	13354678	0.8830		100.0	
2	5	2.085	2.085	0.000	8507932	0.8905	34.7- 94.7	63.7	
2	6	2.141	2.141	0.000	31671337	0.8947	206.7- 266.7	237.2	
			Average of Peak Amounts =			0.8894			
						RPD = 1.42			
8 PCB-1254									
1	100	3.335	3.335	0.000	76899037	0.9833		100.0	
1	2	3.721	3.722	-0.001	83814263	0.9887	82.1- 132.1	109.0	
1	3	4.005	4.007	-0.002	57787834	1.05	43.1- 93.1	75.1	
1	4	4.195	4.195	0.000	53046855	0.9773	43.7- 93.7	69.0	
1	5	4.477	4.479	-0.002	77456000	0.9882	73.6- 123.6	100.7	
			Average of Peak Amounts =			1.00			
2	6	4.254	4.255	-0.001	54190142	0.9466		100.0	
2	7	4.731	4.732	-0.001	87952848	0.9687	125.6- 185.6	162.3	
2	8	4.976	4.979	-0.003	54756328	0.99	62.4- 122.4	101.0	
2	9	5.336	5.338	-0.002	64395799	1.06	43.9- 103.9	118.8	
2	10	5.539	5.540	-0.001	83743405	0.9788	115.2- 175.2	154.5	
			Average of Peak Amounts =			0.99			
						RPD = 0.70			

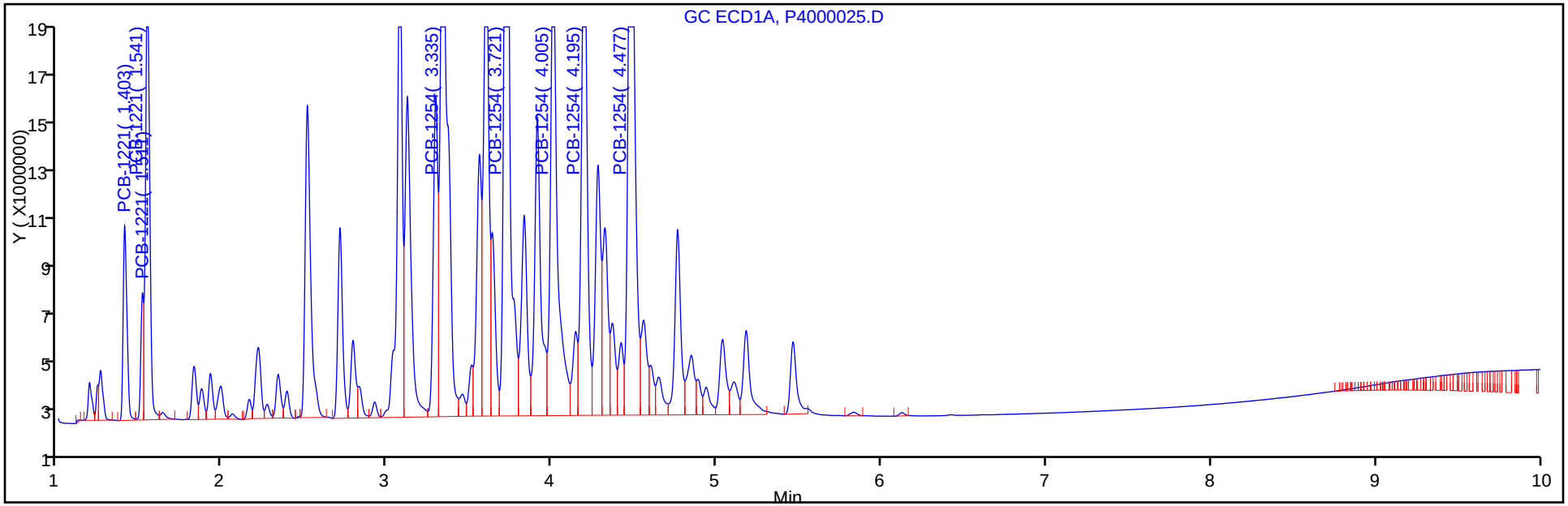
Report Date: 15-Apr-2013 13:05:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

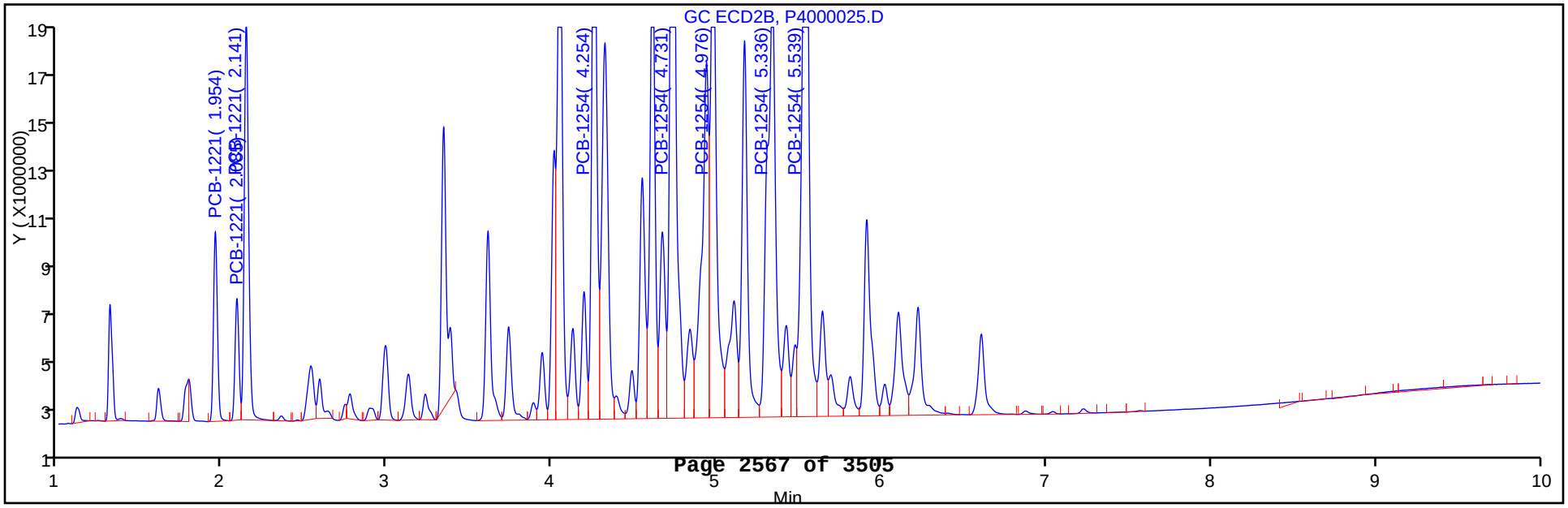
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000025.D

Injection Date:	15-Apr-2013 05:27:07	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000026.D
Lims ID: STD2 AR2154 Client ID:
Inject. Date: 15-Apr-2013 05:42:42 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-026
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 81761 Lims Sample ID: 26
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:10 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.403	1.404	-0.001	24993419	1.68		100.0	
1	3	1.511	1.511	0.000	12448583	1.68	31.2- 81.2	49.8	
1	4	1.541	1.541	0.000	61885697	1.67	221.6- 271.6	247.6	
			Average of Peak Amounts =			1.68			
2	4	1.954	1.955	-0.001	25146718	1.66		100.0	
2	5	2.084	2.085	-0.001	14711325	1.54	34.7- 94.7	58.5	
2	6	2.141	2.141	0.000	56597648	1.60	206.7- 266.7	225.1	
			Average of Peak Amounts =			1.60			
						RPD = 4.70			
8 PCB-1254									
1	100	3.335	3.335	0.000	149724154	1.91		100.0	
1	2	3.721	3.722	-0.001	169188117	2.00	82.1- 132.1	113.0	
1	3	4.005	4.007	-0.002	118254683	2.15	43.1- 93.1	79.0	
1	4	4.194	4.195	-0.001	104471131	1.92	43.7- 93.7	69.8	
1	5	4.478	4.479	-0.001	155892795	1.99	73.6- 123.6	104.1	
			Average of Peak Amounts =			1.99			
2	6	4.254	4.255	-0.001	106244805	1.86		100.0	
2	7	4.730	4.732	-0.002	173091637	1.91	125.6- 185.6	162.9	
2	8	4.977	4.979	-0.002	111007609	2.02	62.4- 122.4	104.5	
2	9	5.337	5.338	-0.001	130463410	1.99	43.9- 103.9	122.8	
2	10	5.539	5.540	-0.001	166807211	1.95	115.2- 175.2	157.0	
			Average of Peak Amounts =			1.94			
						RPD = 2.57			

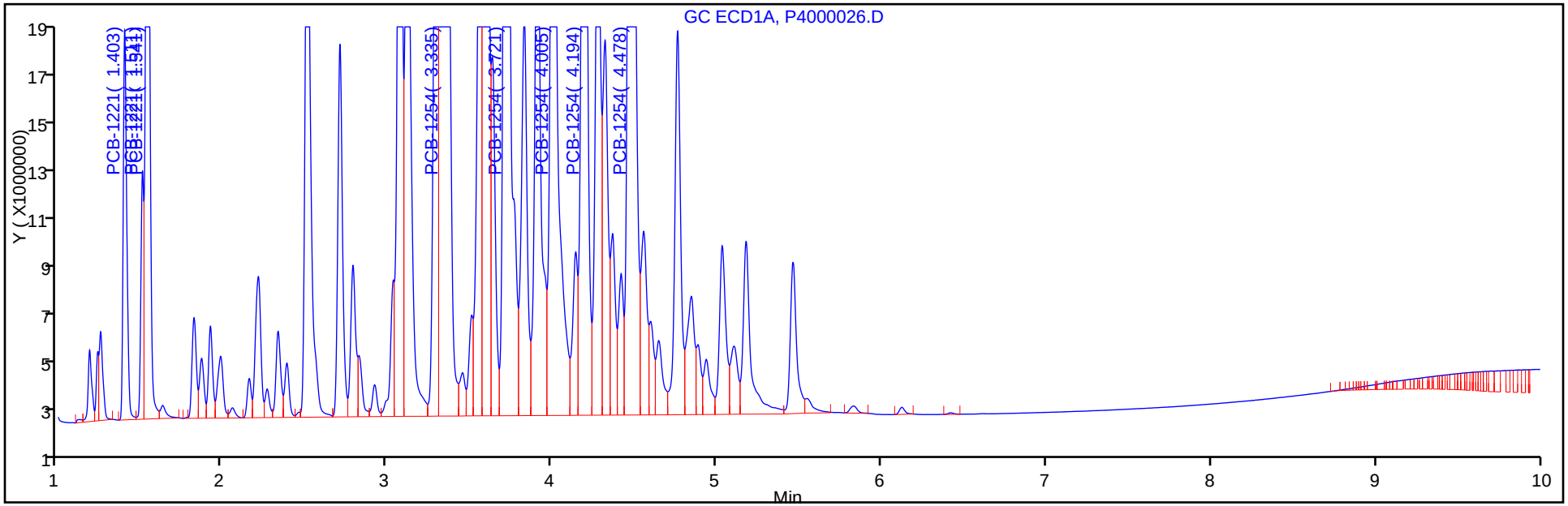
Report Date: 15-Apr-2013 13:05:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

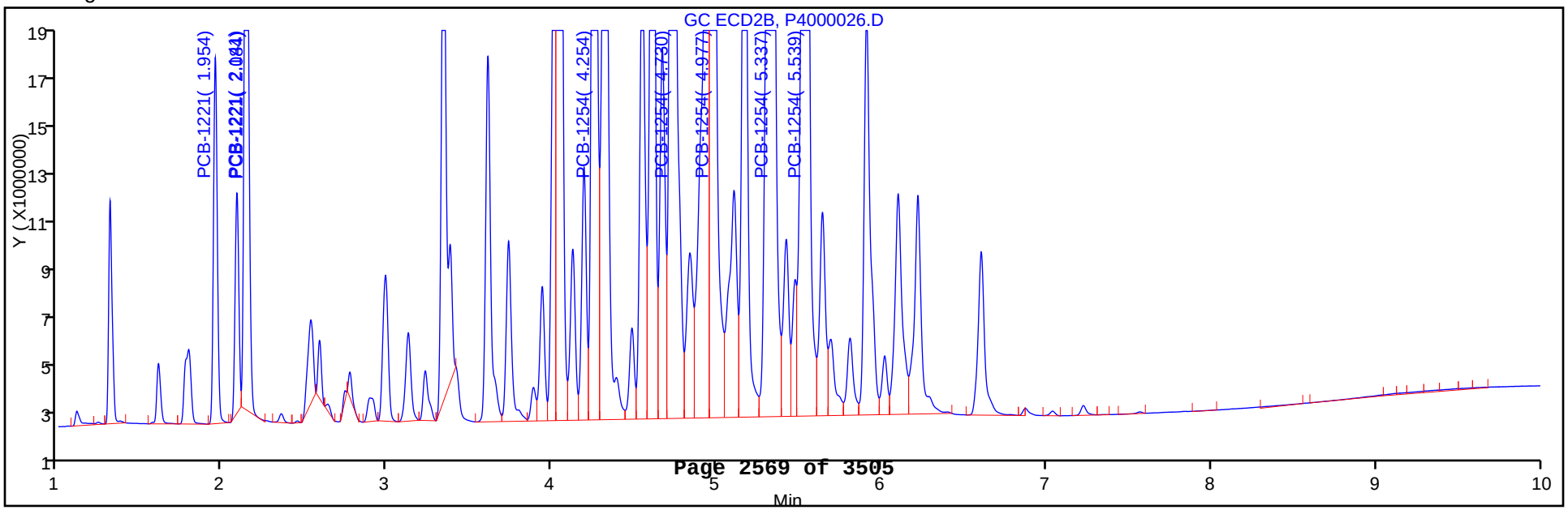
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000026.D

Injection Date:	15-Apr-2013 05:42:42	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 04:24 Calibration End Date: 04/15/2013 05:42 Calibration ID: 14528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/21	P4000021.D
Level 2	STD01 240-81761/22	P4000022.D
Level 3	STD02 240-81761/23	P4000023.D
Level 4	STD05 240-81761/24	P4000024.D
Level 5	STD1 240-81761/25	P4000025.D
Level 6	STD2 240-81761/26	P4000026.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	1.955	1.952	1.952	1.952	1.954	1.954					1.855 - 2.055	1.953
PCB-1221 Peak 2	2.085	2.084	2.084	2.084	2.085	2.084					1.985 - 2.185	2.084
PCB-1221 Peak 3	2.141	2.141	2.140	2.141	2.141	2.141					2.041 - 2.241	2.141
PCB-1254 Peak 1	4.255	4.254	4.254	4.254	4.254	4.254					4.155 - 4.355	4.254
PCB-1254 Peak 2	4.732	4.731	4.730	4.731	4.731	4.730					4.632 - 4.832	4.731
PCB-1254 Peak 3	4.979	4.977	4.978	4.976	4.976	4.977					4.879 - 5.079	4.977
PCB-1254 Peak 4	5.338	5.338	5.336	5.336	5.336	5.337					5.238 - 5.438	5.337
PCB-1254 Peak 5	5.540	5.539	5.539	5.539	5.539	5.539					5.440 - 5.640	5.539

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 04:24 Calibration End Date: 04/15/2013 05:42 Calibration ID: 14528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/21	P4000021.D
Level 2	STD01 240-81761/22	P4000022.D
Level 3	STD02 240-81761/23	P4000023.D
Level 4	STD05 240-81761/24	P4000024.D
Level 5	STD1 240-81761/25	P4000025.D
Level 6	STD2 240-81761/26	P4000026.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	17486060 13354678	16821930 12573359	15760205	14746770	Ave		15123833.7				13.0		20.0			
PCB-1221 Peak 2	10925000 8507932	10754320 7355663	10199725	9581934	Ave		9554095.58				15.0		20.0			
PCB-1221 Peak 3	40524140 31671337	39361020 28298824	37307160	35222544	Ave		35397504.2				13.0		20.0			
PCB-1254 Peak 1	62066020 54190142	59636140 53122403	58294655	56188160	Ave		57249586.6				5.9		20.0			
PCB-1254 Peak 2	97403840 87952848	92208080 86545819	90694540	89951168	Ave		90792715.8				4.2		20.0			
PCB-1254 Peak 3	57249400 54756328	54996280 55503805	53886800	54144908	Ave		55089586.8				2.2		20.0			
PCB-1254 Peak 4	41969880 64395799	42811900 65231705	43066275	43489334	Qua	-2710774.8	58727791.0	4103624.43						0.9950		0.9900
PCB-1254 Peak 5	91084660 83743405	86757840 83403606	84654420	83703946	Ave		85557979.4				3.5		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 04:24 Calibration End Date: 04/15/2013 05:42 Calibration ID: 14528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/21	P4000021.D
Level 2	STD01 240-81761/22	P4000022.D
Level 3	STD02 240-81761/23	P4000023.D
Level 4	STD05 240-81761/24	P4000024.D
Level 5	STD1 240-81761/25	P4000025.D
Level 6	STD2 240-81761/26	P4000026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	874303 25146718	1682193	3152041	7373385	13354678	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	Ave	546250 14711325	1075432	2039945	4790967	8507932	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	Ave	2026207 56597648	3936102	7461432	17611272	31671337	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	Ave	3103301 106244805	5963614	11658931	28094080	54190142	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	Ave	4870192 173091637	9220808	18138908	44975584	87952848	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	Ave	2862470 111007609	5499628	10777360	27072454	54756328	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	Qua	2098494 130463410	4281190	8613255	21744667	64395799	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	Ave	4554233 166807211	8675784	16930884	41851973	83743405	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average
Qua = Quadratic

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000021.D
Lims ID: STD005 AR2154 Client ID:
Inject. Date: 15-Apr-2013 04:24:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 240-0018824-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 21
Lims Batch ID: 81761 Lims Sample ID: 21
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:04:59 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.404	1.404	0.000	851092	0.0572		100.0	
1	3	1.511	1.511	0.000	385042	0.0521	31.2- 81.2	45.2	
1	4	1.541	1.541	0.000	2161172	0.0582	221.6- 271.6	253.9	
			Average of Peak Amounts =			0.0559			
2	4	1.955	1.955	0.000	874303	0.0578		100.0	
2	5	2.085	2.085	0.000	546250	0.0572	34.7- 94.7	62.5	
2	6	2.141	2.141	0.000	2026207	0.0572	206.7- 266.7	231.8	
			Average of Peak Amounts =			0.0574			
						RPD = 2.74			
8 PCB-1254									
1	100	3.335	3.335	0.000	4198182	0.0537		100.0	
1	2	3.722	3.722	0.000	4473856	0.0528	82.1- 132.1	106.6	
1	3	4.007	4.007	0.000	2666903	0.0484	43.1- 93.1	63.5	
1	4	4.195	4.195	0.000	2900678	0.0534	43.7- 93.7	69.1	
1	5	4.479	4.479	0.000	4059790	0.0518	73.6- 123.6	96.7	
			Average of Peak Amounts =			0.0520			
2	6	4.255	4.255	0.000	3103301	0.0542		100.0	
2	7	4.732	4.732	0.000	4870192	0.0536	125.6- 185.6	156.9	
2	8	4.979	4.979	0.000	2862470	0.0520	62.4- 122.4	92.2	
2	9	5.338	5.338	0.000	2098494	0.0814	43.9- 103.9	67.6	
2	10	5.540	5.540	0.000	4554233	0.0532	115.2- 175.2	146.8	
			Average of Peak Amounts =			0.0589			
						RPD = 12.39			

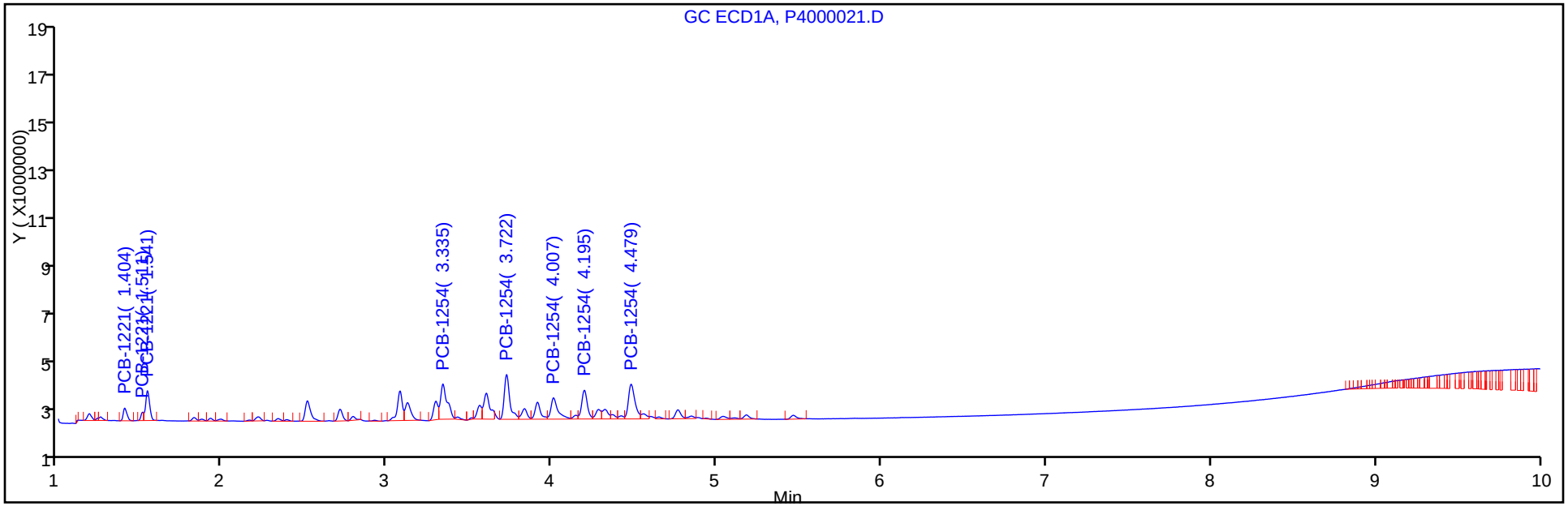
Report Date: 15-Apr-2013 13:05:01 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

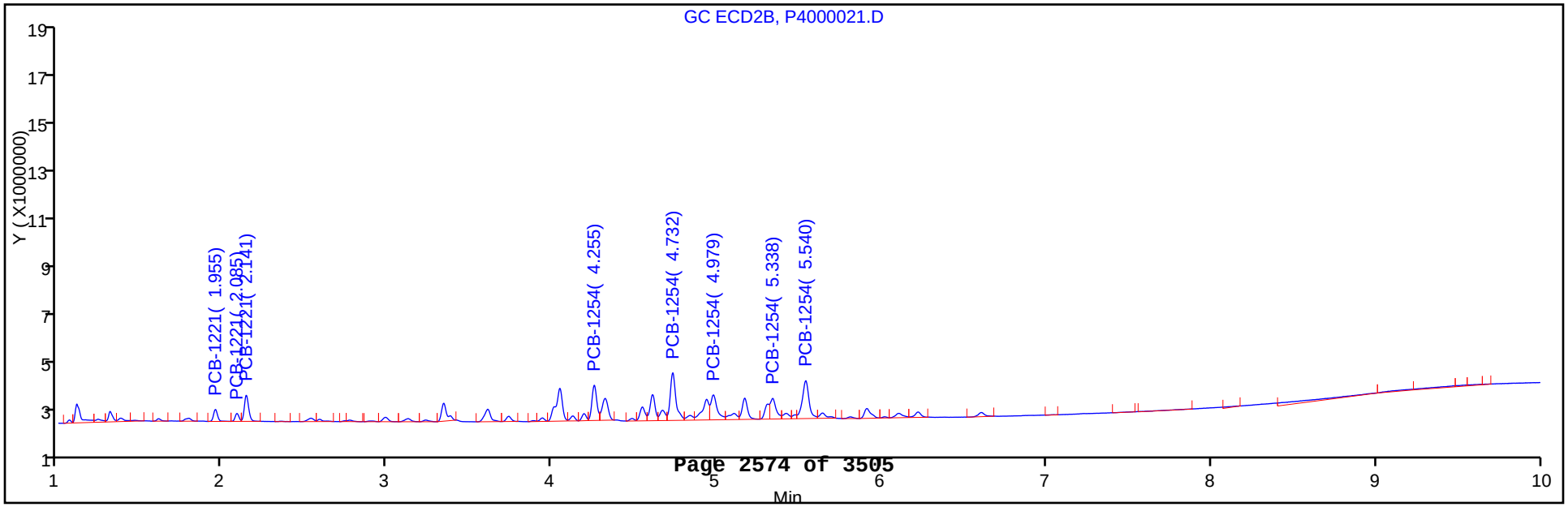
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000021.D

Injection Date:	15-Apr-2013 04:24:26	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000022.D
Lims ID: STD01 AR2154 Client ID:
Inject. Date: 15-Apr-2013 04:40:05 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 240-0018824-022
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 81761 Lims Sample ID: 22
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:01 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.401	1.404	-0.003	1619276	0.1089		100.0	
1	3	1.511	1.511	0.000	799027	0.1081	31.2- 81.2	49.3	
1	4	1.540	1.541	-0.001	3967869	0.1069	221.6- 271.6	245.0	
			Average of Peak Amounts =			0.1080			
2	4	1.952	1.955	-0.003	1682193	0.1112		100.0	
2	5	2.084	2.085	-0.001	1075432	0.1126	34.7- 94.7	63.9	
2	6	2.141	2.141	0.000	3936102	0.1112	206.7- 266.7	234.0	
			Average of Peak Amounts =			0.1117			
						RPD = 3.36			
8 PCB-1254									
1	100	3.335	3.335	0.000	7907314	0.1011		100.0	
1	2	3.722	3.722	0.000	8249965	0.0973	82.1- 132.1	104.3	
1	3	4.007	4.007	0.000	5340154	0.0970	43.1- 93.1	67.5	
1	4	4.194	4.195	-0.001	5586751	0.1029	43.7- 93.7	70.7	
1	5	4.479	4.479	0.000	7833492	0.0999	73.6- 123.6	99.1	
			Average of Peak Amounts =			0.0996			
2	6	4.254	4.255	-0.001	5963614	0.1042		100.0	
2	7	4.731	4.732	-0.001	9220808	0.1016	125.6- 185.6	154.6	
2	8	4.977	4.979	-0.002	5499628	0.0998	62.4- 122.4	92.2	
2	9	5.338	5.338	0.000	4281190	0.1181	43.9- 103.9	71.8	
2	10	5.539	5.540	-0.001	8675784	0.1014	115.2- 175.2	145.5	
			Average of Peak Amounts =			0.1050			
						RPD = 5.24			

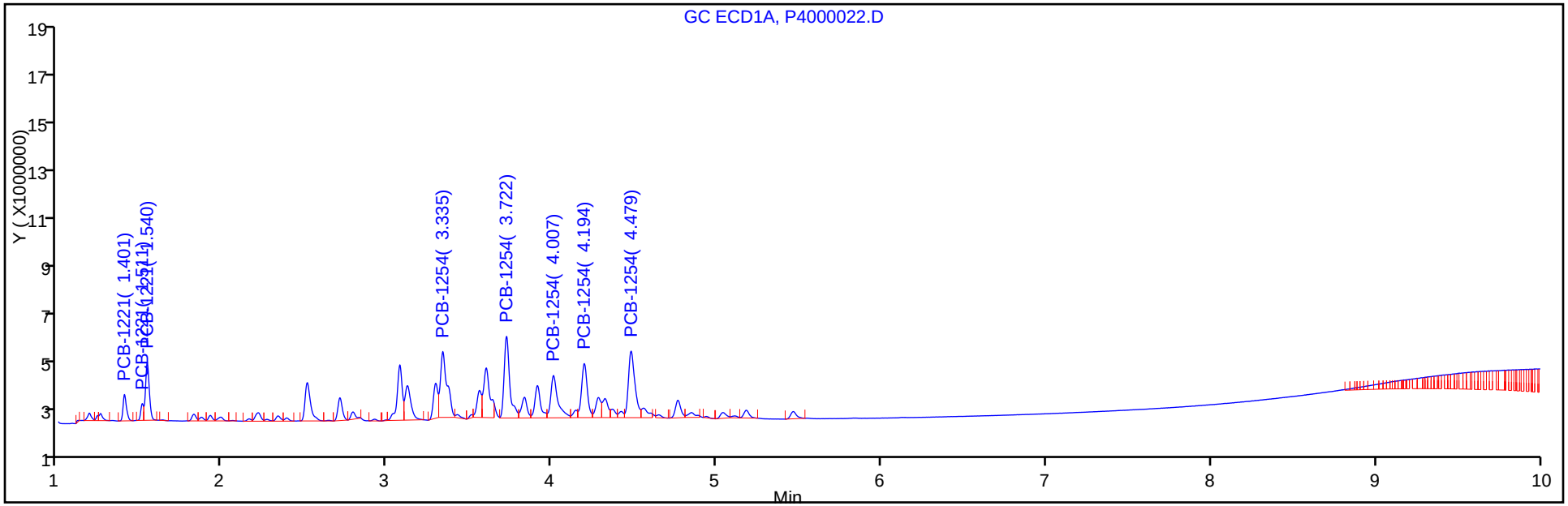
Report Date: 15-Apr-2013 13:05:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

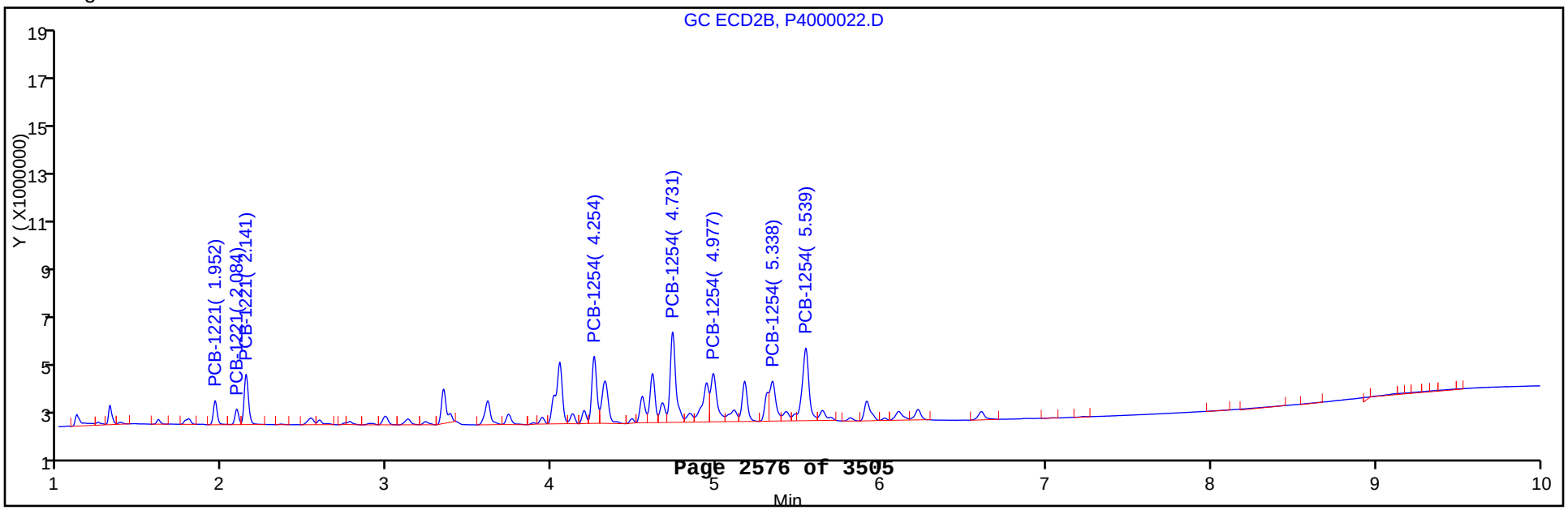
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000022.D

Injection Date:	15-Apr-2013 04:40:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	22
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000023.D
Lims ID: STD02 AR2154 Client ID:
Inject. Date: 15-Apr-2013 04:55:43 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-023
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 23
Lims Batch ID: 81761 Lims Sample ID: 23
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:04 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.402	1.404	-0.002	3136531	0.2109		100.0	
1	3	1.510	1.511	-0.001	1764290	0.2388	31.2- 81.2	56.2	
1	4	1.540	1.541	-0.001	7733929	0.2083	221.6- 271.6	246.6	
			Average of Peak Amounts =			0.2193			
2	4	1.952	1.955	-0.003	3152041	0.2084		100.0	
2	5	2.084	2.085	-0.001	2039945	0.2135	34.7- 94.7	64.7	
2	6	2.140	2.141	-0.001	7461432	0.2108	206.7- 266.7	236.7	
			Average of Peak Amounts =			0.2109			
						RPD = 3.92			
8 PCB-1254									
1	100	3.335	3.335	0.000	15956978	0.2040		100.0	
1	2	3.722	3.722	0.000	17097623	0.2017	82.1- 132.1	107.1	
1	3	4.007	4.007	0.000	10864044	0.1972	43.1- 93.1	68.1	
1	4	4.195	4.195	0.000	10955715	0.2018	43.7- 93.7	68.7	
1	5	4.478	4.479	-0.001	15730427	0.2007	73.6- 123.6	98.6	
			Average of Peak Amounts =			0.2011			
2	6	4.254	4.255	-0.001	11658931	0.2037		100.0	
2	7	4.730	4.732	-0.002	18138908	0.1998	125.6- 185.6	155.6	
2	8	4.978	4.979	-0.001	10777360	0.1956	62.4- 122.4	92.4	
2	9	5.336	5.338	-0.002	8613255	0.1903	43.9- 103.9	73.9	
2	10	5.539	5.540	-0.001	16930884	0.1979	115.2- 175.2	145.2	
			Average of Peak Amounts =			0.1974			
						RPD = 1.83			

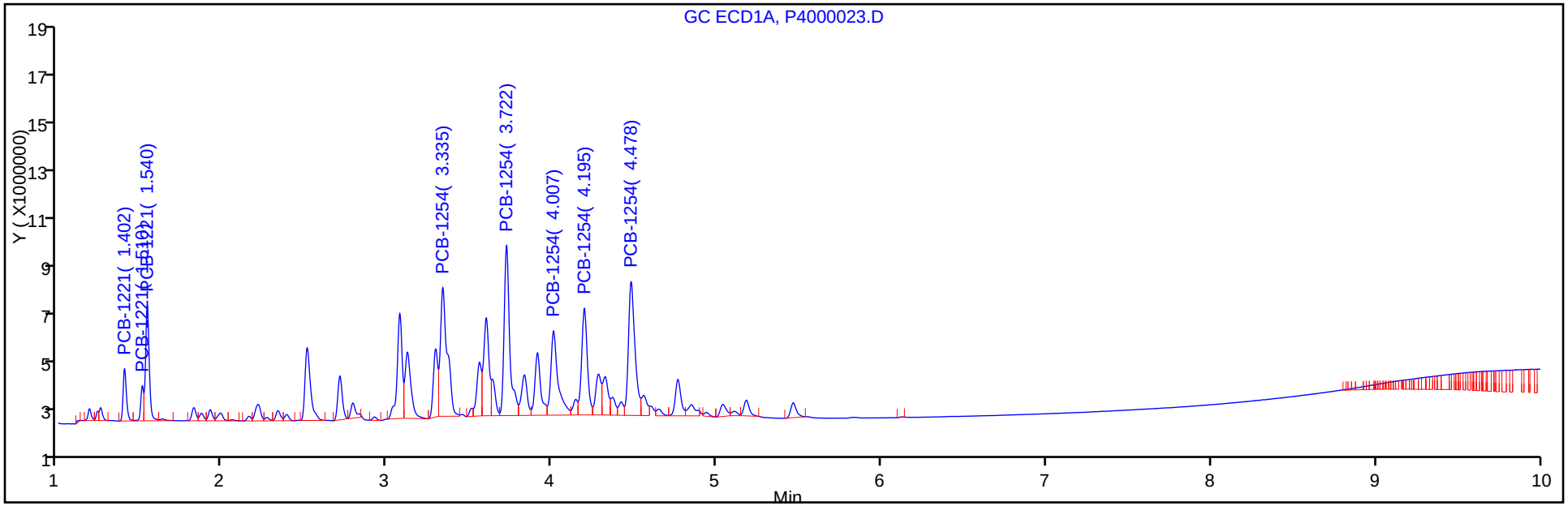
Report Date: 15-Apr-2013 13:05:06 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

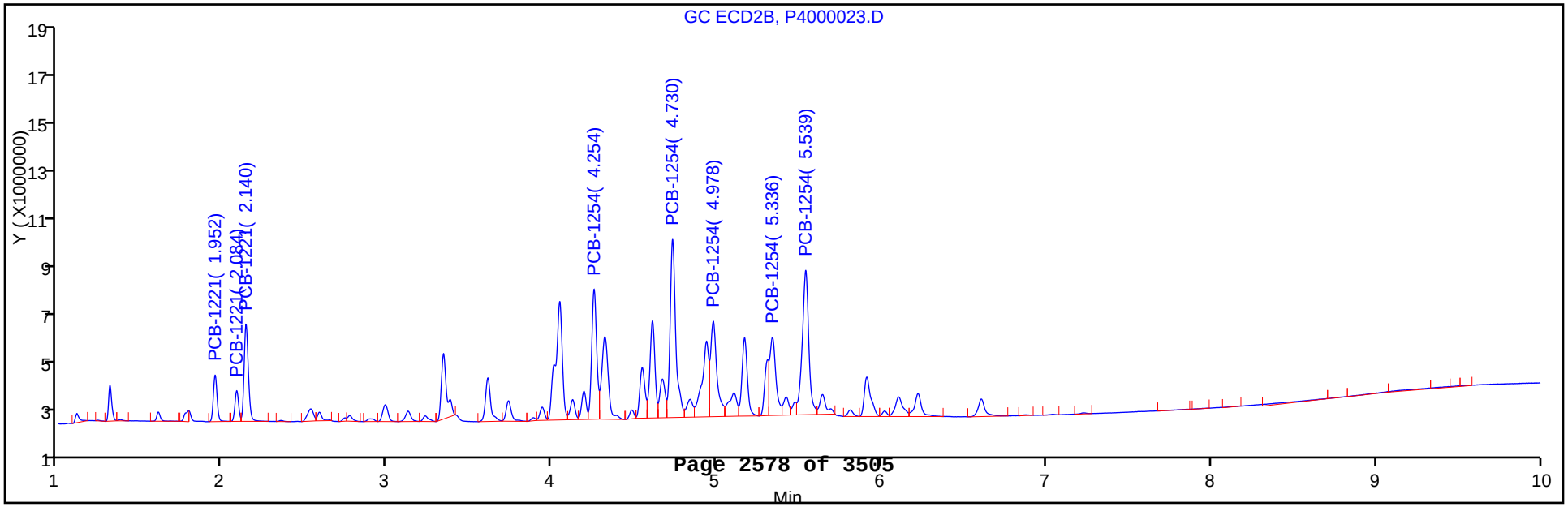
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000023.D

Injection Date:	15-Apr-2013 04:55:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000024.D
Lims ID: STD05 AR2154 Client ID:
Inject. Date: 15-Apr-2013 05:11:24 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 240-0018824-024
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 24
Lims Batch ID: 81761 Lims Sample ID: 24
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:06 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.402	1.404	-0.002	7285319	0.4899		100.0	
1	3	1.511	1.511	0.000	3722196	0.5038	31.2- 81.2	51.1	
1	4	1.541	1.541	0.000	18280564	0.4925	221.6- 271.6	250.9	
			Average of Peak Amounts =			0.4954			
2	4	1.952	1.955	-0.003	7373385	0.4875		100.0	
2	5	2.084	2.085	-0.001	4790967	0.5015	34.7- 94.7	65.0	
2	6	2.141	2.141	0.000	17611272	0.4975	206.7- 266.7	238.8	
			Average of Peak Amounts =			0.4955			
						RPD = 0.03			
8 PCB-1254									
1	100	3.335	3.335	0.000	37333934	0.4774		100.0	
1	2	3.721	3.722	-0.001	41373949	0.4881	82.1- 132.1	110.8	
1	3	4.006	4.007	-0.001	26251210	0.4766	43.1- 93.1	70.3	
1	4	4.193	4.195	-0.002	25873042	0.4766	43.7- 93.7	69.3	
1	5	4.478	4.479	-0.001	38354016	0.4893	73.6- 123.6	102.7	
			Average of Peak Amounts =			0.4816			
2	6	4.254	4.255	-0.001	28094080	0.4907		100.0	
2	7	4.731	4.732	-0.001	44975584	0.4954	125.6- 185.6	160.1	
2	8	4.976	4.979	-0.003	27072454	0.4914	62.4- 122.4	96.4	
2	9	5.336	5.338	-0.002	21744667	0.4050	43.9- 103.9	77.4	
2	10	5.539	5.540	-0.001	41851973	0.4892	115.2- 175.2	149.0	
			Average of Peak Amounts =			0.4743			
						RPD = 1.52			

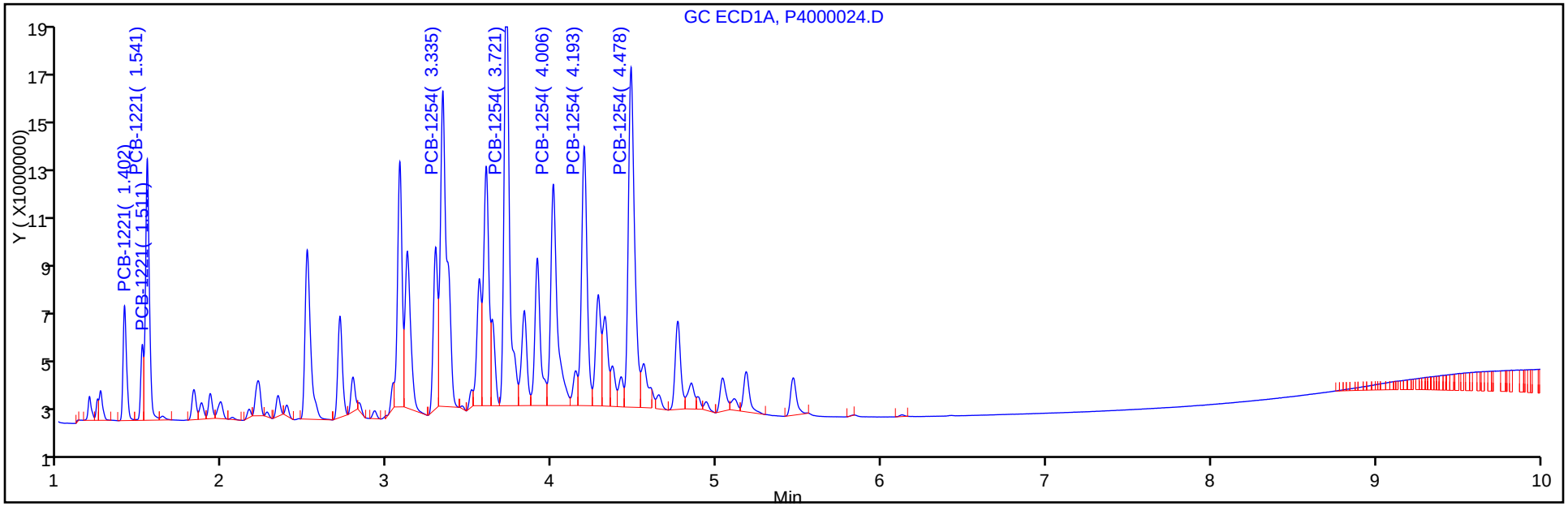
Report Date: 15-Apr-2013 13:05:08 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

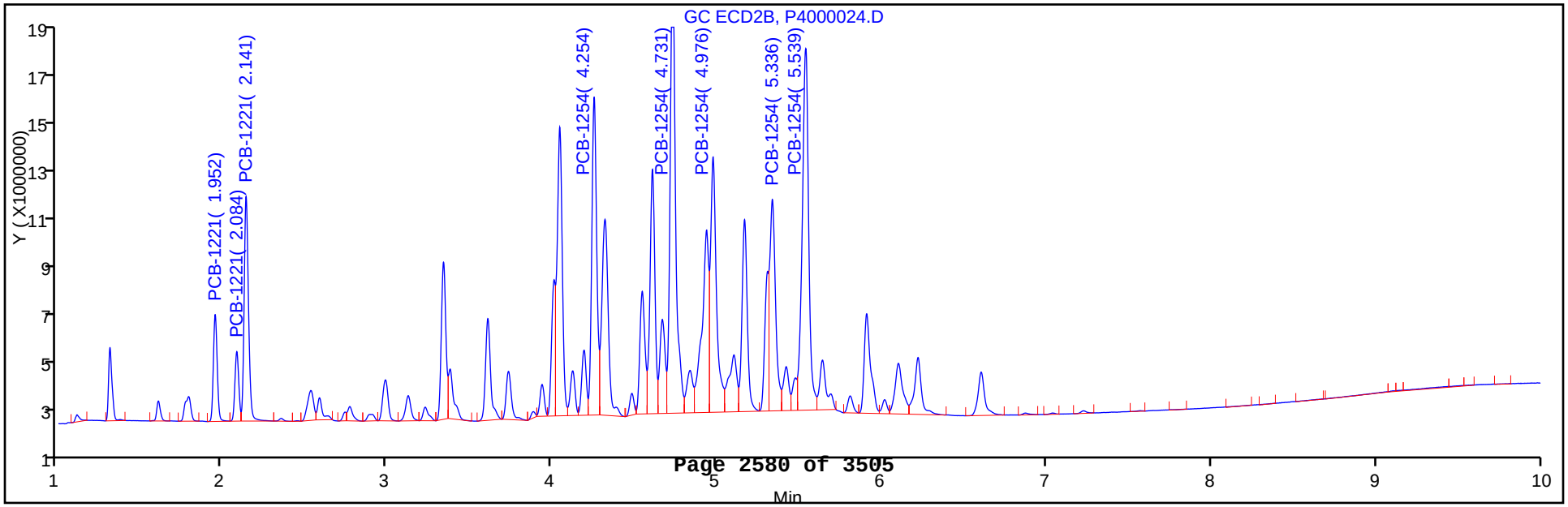
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000024.D

Injection Date:	15-Apr-2013 05:11:24	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000025.D
Lims ID: STD1 AR2154 Client ID:
Inject. Date: 15-Apr-2013 05:27:07 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-025
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 25
Lims Batch ID: 81761 Lims Sample ID: 25
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:08 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.403	1.404	-0.001	13260162	0.8917		100.0	
1	3	1.511	1.511	0.000	6152280	0.8326	31.2- 81.2	46.4	
1	4	1.541	1.541	0.000	33644031	0.9064	221.6- 271.6	253.7	
			Average of Peak Amounts =			0.8769			
2	4	1.954	1.955	-0.001	13354678	0.8830		100.0	
2	5	2.085	2.085	0.000	8507932	0.8905	34.7- 94.7	63.7	
2	6	2.141	2.141	0.000	31671337	0.8947	206.7- 266.7	237.2	
			Average of Peak Amounts =			0.8894			
						RPD = 1.42			
8 PCB-1254									
1	100	3.335	3.335	0.000	76899037	0.9833		100.0	
1	2	3.721	3.722	-0.001	83814263	0.9887	82.1- 132.1	109.0	
1	3	4.005	4.007	-0.002	57787834	1.05	43.1- 93.1	75.1	
1	4	4.195	4.195	0.000	53046855	0.9773	43.7- 93.7	69.0	
1	5	4.477	4.479	-0.002	77456000	0.9882	73.6- 123.6	100.7	
			Average of Peak Amounts =			1.00			
2	6	4.254	4.255	-0.001	54190142	0.9466		100.0	
2	7	4.731	4.732	-0.001	87952848	0.9687	125.6- 185.6	162.3	
2	8	4.976	4.979	-0.003	54756328	0.99	62.4- 122.4	101.0	
2	9	5.336	5.338	-0.002	64395799	1.06	43.9- 103.9	118.8	
2	10	5.539	5.540	-0.001	83743405	0.9788	115.2- 175.2	154.5	
			Average of Peak Amounts =			0.99			
						RPD = 0.70			

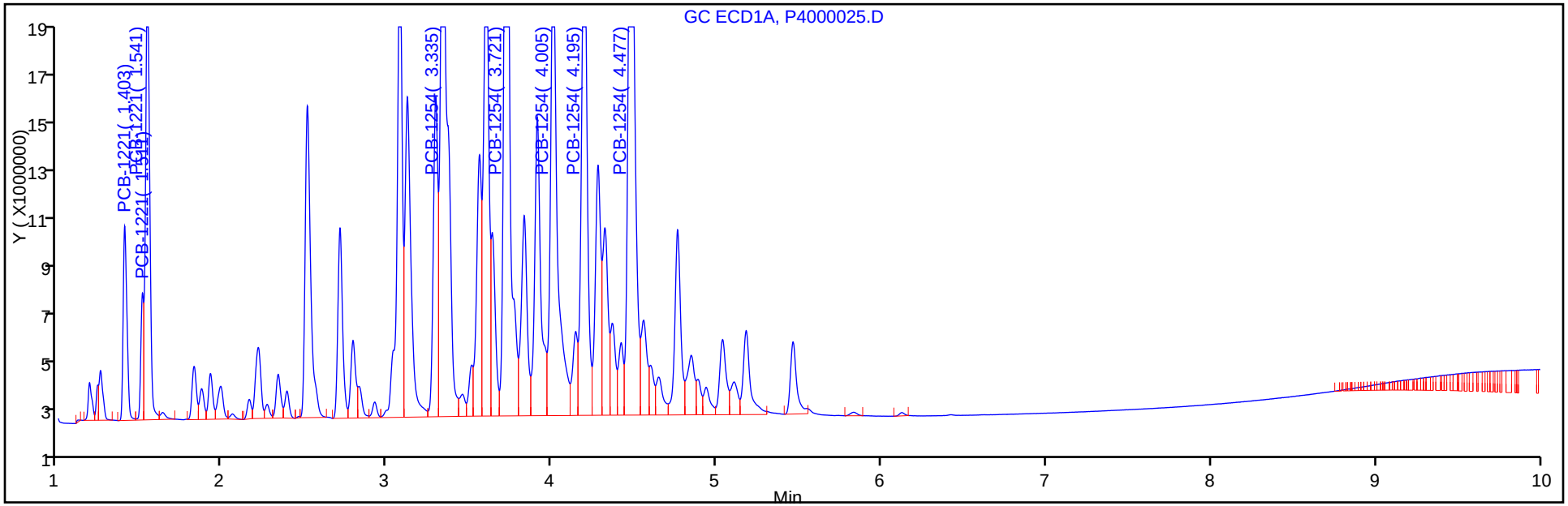
Report Date: 15-Apr-2013 13:05:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

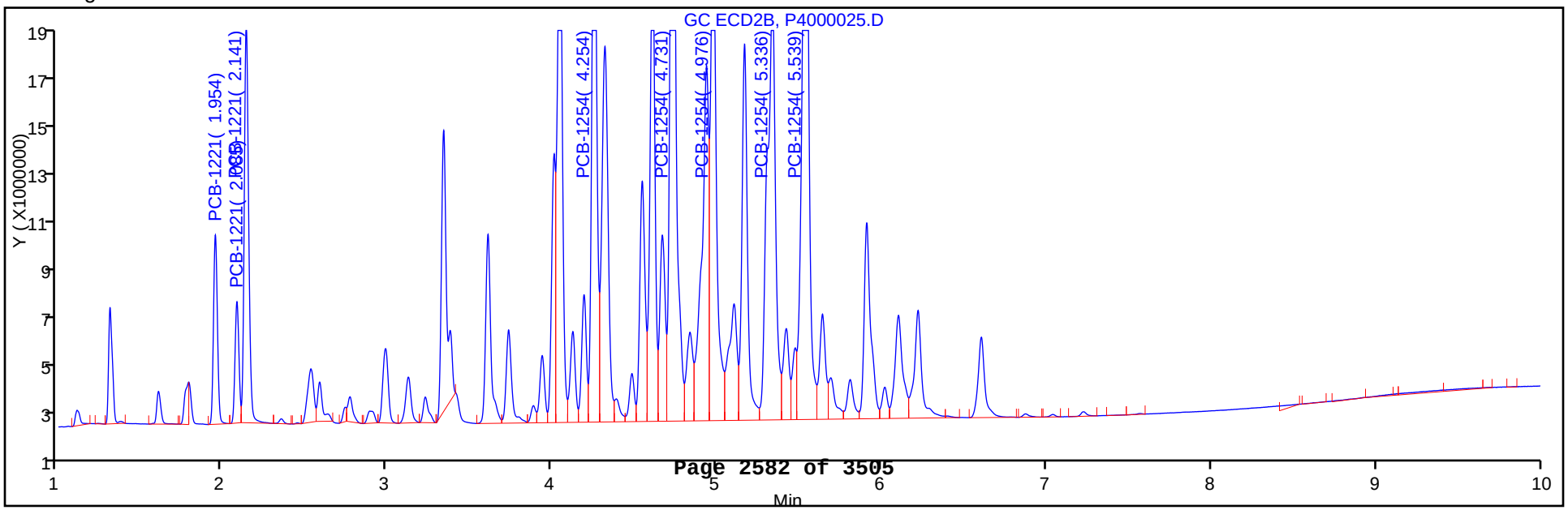
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000025.D

Injection Date:	15-Apr-2013 05:27:07	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000026.D
Lims ID: STD2 AR2154 Client ID:
Inject. Date: 15-Apr-2013 05:42:42 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-026
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 26
Lims Batch ID: 81761 Lims Sample ID: 26
Sublist: chrom-PCB4*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:10 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.403	1.404	-0.001	24993419	1.68		100.0	
1	3	1.511	1.511	0.000	12448583	1.68	31.2- 81.2	49.8	
1	4	1.541	1.541	0.000	61885697	1.67	221.6- 271.6	247.6	
			Average of Peak Amounts =			1.68			
2	4	1.954	1.955	-0.001	25146718	1.66		100.0	
2	5	2.084	2.085	-0.001	14711325	1.54	34.7- 94.7	58.5	
2	6	2.141	2.141	0.000	56597648	1.60	206.7- 266.7	225.1	
			Average of Peak Amounts =			1.60			
						RPD = 4.70			
8 PCB-1254									
1	100	3.335	3.335	0.000	149724154	1.91		100.0	
1	2	3.721	3.722	-0.001	169188117	2.00	82.1- 132.1	113.0	
1	3	4.005	4.007	-0.002	118254683	2.15	43.1- 93.1	79.0	
1	4	4.194	4.195	-0.001	104471131	1.92	43.7- 93.7	69.8	
1	5	4.478	4.479	-0.001	155892795	1.99	73.6- 123.6	104.1	
			Average of Peak Amounts =			1.99			
2	6	4.254	4.255	-0.001	106244805	1.86		100.0	
2	7	4.730	4.732	-0.002	173091637	1.91	125.6- 185.6	162.9	
2	8	4.977	4.979	-0.002	111007609	2.02	62.4- 122.4	104.5	
2	9	5.337	5.338	-0.001	130463410	1.99	43.9- 103.9	122.8	
2	10	5.539	5.540	-0.001	166807211	1.95	115.2- 175.2	157.0	
			Average of Peak Amounts =			1.94			
						RPD = 2.57			

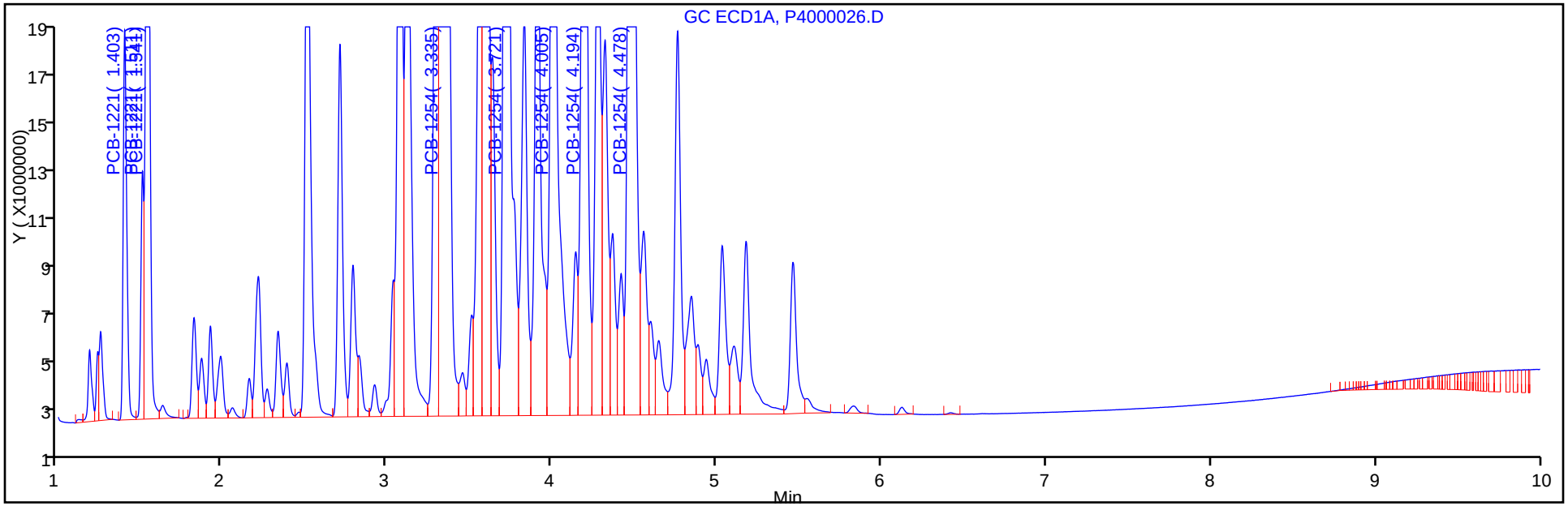
Report Date: 15-Apr-2013 13:05:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

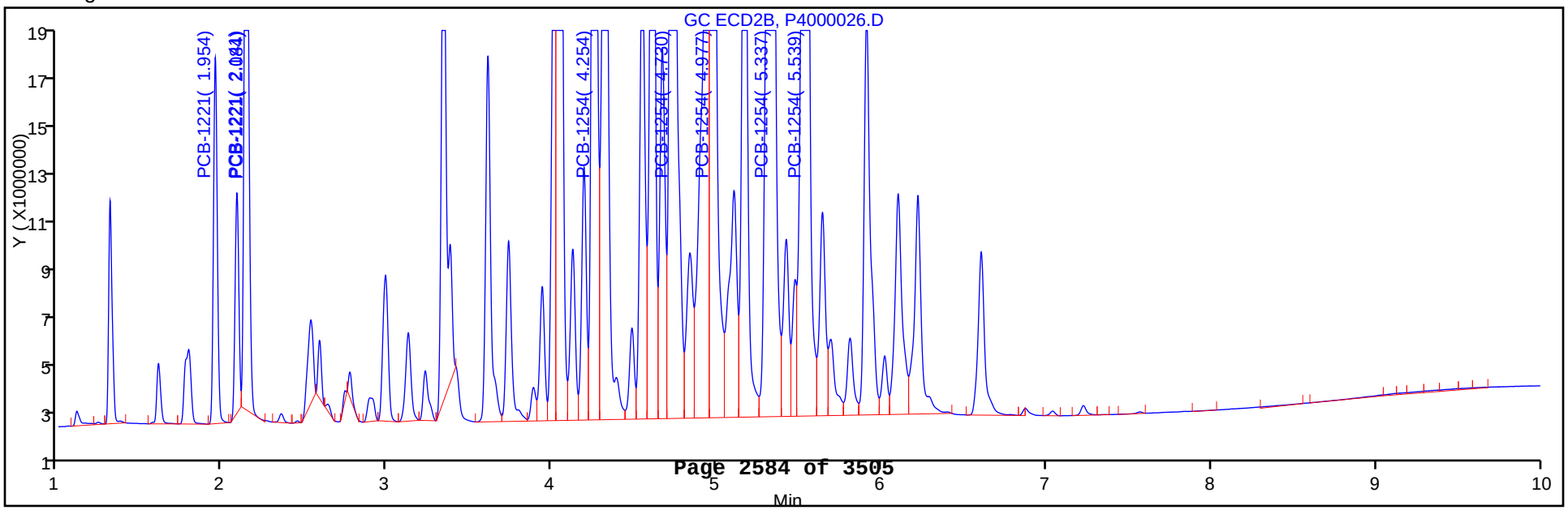
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000026.D

Injection Date:	15-Apr-2013 05:42:42	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 05:58 Calibration End Date: 04/15/2013 07:16 Calibration ID: 14533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/27	P4000027.D
Level 2	STD01 240-81761/28	P4000028.D
Level 3	STD02 240-81761/29	P4000029.D
Level 4	STD05 240-81761/30	P4000030.D
Level 5	STD1 240-81761/31	P4000031.D
Level 6	STD2 240-81761/32	P4000032.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	1.544	1.543	1.542	1.542	1.542	1.543					1.442 - 1.642	1.543
PCB-1016 Peak 2	1.826	1.824	1.824	1.824	1.824	1.824					1.724 - 1.924	1.824
PCB-1016 Peak 3	2.218	2.215	2.216	2.216	2.216	2.215					2.116 - 2.316	2.216
PCB-1016 Peak 4	2.337	2.336	2.336	2.336	2.336	2.335					2.236 - 2.436	2.336
PCB-1016 Peak 5	2.714	2.714	2.716	2.714	2.714	2.714					2.614 - 2.814	2.714
PCB-1260 Peak 1	3.912	3.911	3.911	3.911	3.912	3.911					3.811 - 4.011	3.911
PCB-1260 Peak 2	4.199	4.199	4.199	4.199	4.198	4.198					4.099 - 4.299	4.199
PCB-1260 Peak 3	4.480	4.480	4.481	4.479	4.478	4.478					4.379 - 4.579	4.479
PCB-1260 Peak 4	5.180	5.180	5.180	5.178	5.179	5.177					5.078 - 5.278	5.179
PCB-1260 Peak 5	5.465	5.465	5.465	5.464	5.464	5.463					5.364 - 5.564	5.464
Tetrachloro-m-xylene	1.274	1.273	1.273	1.273	1.273	1.274					1.173 - 1.373	1.273
DCB Decachlorobiphenyl	6.616	6.616	6.616	6.615	6.616	6.615					6.515 - 6.715	6.616

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 05:58 Calibration End Date: 04/15/2013 07:16 Calibration ID: 14533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/27	P4000027.D
Level 2	STD01 240-81761/28	P4000028.D
Level 3	STD02 240-81761/29	P4000029.D
Level 4	STD05 240-81761/30	P4000030.D
Level 5	STD1 240-81761/31	P4000031.D
Level 6	STD2 240-81761/32	P4000032.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	31837640 24260203	29836670 22733654	27573185	26582352	Ave		27137283.9				13.0		20.0			
PCB-1016 Peak 2	57372160 43493540	54335030 40702913	49913240	47985948	Ave		48967138.4				13.0		20.0			
PCB-1016 Peak 3	97285300 89669755	99456590 86891443	93022245	94315168	Ave		93440083.5				5.0		20.0			
PCB-1016 Peak 4	43036640 39524466	45958620 38291074	42393700	42569200	Ave		41962283.3				6.5		20.0			
PCB-1016 Peak 5	47906900 39299859	45258450 38359834	41537985	42031174	Ave		42399033.7				8.5		20.0			
PCB-1260 Peak 1	69815200 58486212	66155340 56804131	60891940	62249248	Ave		62400345.2				7.8		20.0			
PCB-1260 Peak 2	121211620 103815872	116703660 100819795	107897050	110320724	Ave		110128120				7.0		20.0			
PCB-1260 Peak 3	113398760 104066785	112465890 102507060	104381375	109191204	Ave		107668512				4.3		20.0			
PCB-1260 Peak 4	127560700 128178666	133505570 126174887	125284235	135553126	Ave		129376197				3.2		20.0			
PCB-1260 Peak 5	60522000 57763115	57853830 58289634	54258280	60780994	Ave		58244642.2				4.1		20.0			
Tetrachloro-m-xylene	1880546400 1508612920	1583499800 1396331240	1552370700	1580282840	Ave		1583607317				10.0		20.0			
DCB Decachlorobiphenyl	1632286400 1217454400	1374232000 1152757710	1308405000	1326167240	Ave		1335217125				12.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 05:58 Calibration End Date: 04/15/2013 07:16 Calibration ID: 14533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/27	P4000027.D
Level 2	STD01 240-81761/28	P4000028.D
Level 3	STD02 240-81761/29	P4000029.D
Level 4	STD05 240-81761/30	P4000030.D
Level 5	STD1 240-81761/31	P4000031.D
Level 6	STD2 240-81761/32	P4000032.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	1591882 45467307	2983667	5514637	13291176	24260203	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	2868608 81405825	5433503	9982648	23992974	43493540	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	4864265 173782886	9945659	18604449	47157584	89669755	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	2151832 76582147	4595862	8478740	21284600	39524466	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	2395345 76719668	4525845	8307597	21015587	39299859	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	3490760 113608262	6615534	12178388	31124624	58486212	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	6060581 201639590	11670366	21579410	55160362	103815872	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	5669938 205014119	11246589	20876275	54595602	104066785	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	6378035 252349773	13350557	25056847	67776563	128178666	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	3026100 116579268	5785383	10851656	30390497	57763115	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	4701366 139633124	7917499	15523707	39507071	75430646	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	4080716 115275771	6871160	13084050	33154181	60872720	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000027.D		
Lims ID:	STD005 1660	Client ID:	
Inject. Date:	15-Apr-2013 05:58:18	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018824-027		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	27
Lims Batch ID:	81761	Lims Sample ID:	27
Sublist:	chrom-PCB4*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:05:11	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 07:54:26

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.274	1.273	0.001	4701366	0.002969			
2	2	1.682	1.680	0.002	4669525	0.002959			
						RPD = 0.31			
6 PCB-1016									
1	100	1.544	1.542	0.002	1591882	0.0587		100.0	
1	2	1.826	1.824	0.002	2868608	0.0586	156.0- 206.0	180.2	
1	3	2.218	2.216	0.002	4864265	0.0521	312.4- 362.4	305.6	
1	4	2.337	2.336	0.001	2151832	0.0513	118.7- 188.7	135.2	
1	5	2.714	2.714	0.000	2395345	0.0565	125.6- 175.6	150.5	
			Average of Peak Amounts =			0.0554			
2	6	2.144	2.142	0.002	1475191	0.0575		100.0	
2	7	2.539	2.538	0.001	2947929	0.0581	169.6- 229.6	199.8	
2	8	2.989	2.989	0.000	5415404	0.0545	351.4- 411.4	367.1	
2	9	3.128	3.127	0.001	2501936	0.0568	141.3- 201.3	169.6	
2	10	3.232	3.230	0.002	1893431	0.0553	102.5- 162.5	128.4	
			Average of Peak Amounts =			0.0564			
						RPD = 1.83			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.912	3.911	0.001	3490760	0.0559		100.0	
1	2	4.199	4.199	0.000	6060581	0.0550	152.2- 202.2	173.6	
1	3	4.480	4.479	0.001	5669938	0.0527	146.4- 196.4	162.4	
1	4	5.180	5.178	0.002	6378035	0.0493	180.7- 230.7	182.7	
1	5	5.465	5.464	0.001	3026100	0.0520	64.1- 114.1	86.7	
			Average of Peak Amounts =			0.0530			
2	6	4.940	4.940	0.000	3842911	0.0559		100.0	
2	7	5.170	5.170	0.000	4442967	0.0557	87.6- 147.6	115.6	
2	8	5.538	5.539	-0.001	6422240	0.0543	144.7- 204.7	167.1	
2	9	6.223	6.224	-0.001	7691959	0.0528	187.7- 247.7	200.2	
2	10	6.605	6.604	0.001	4330449	0.0448	115.0- 175.0	112.7	M
			Average of Peak Amounts =			0.0527			
						RPD = 0.55			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	4080716	0.003056			
2	2	7.839	7.839	0.000	4607768	0.003163			
						RPD = 3.44			

QC Flag Legend

Review Flags
M - Manually Integrated

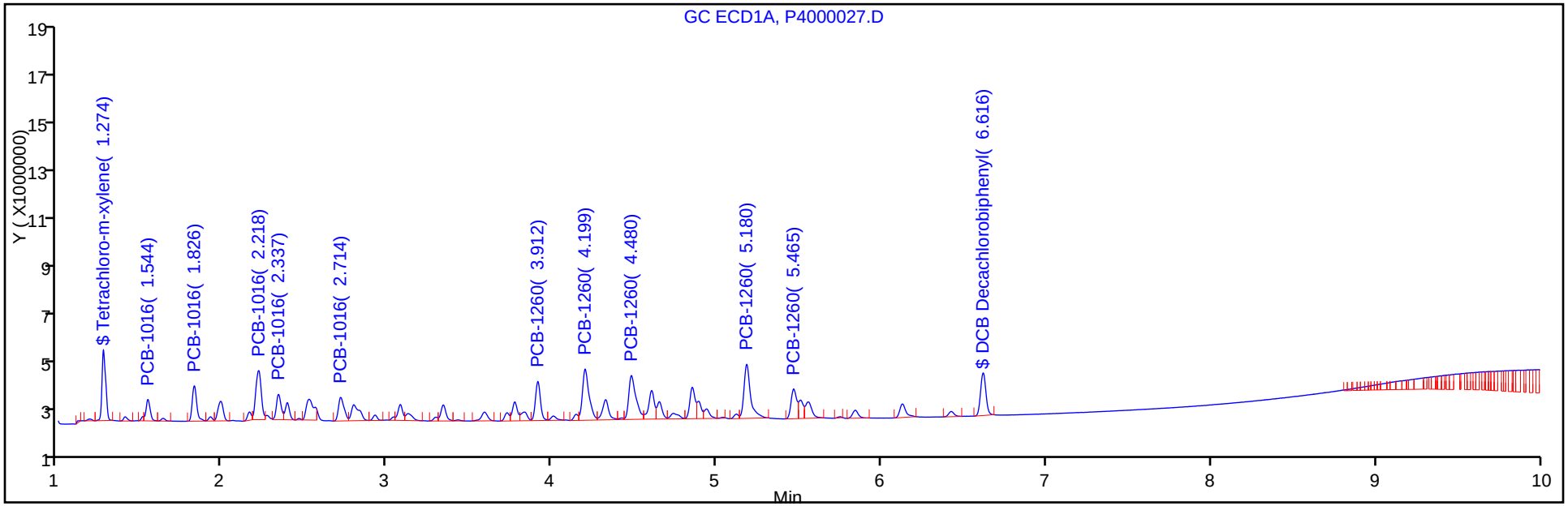
Report Date: 15-Apr-2013 13:05:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

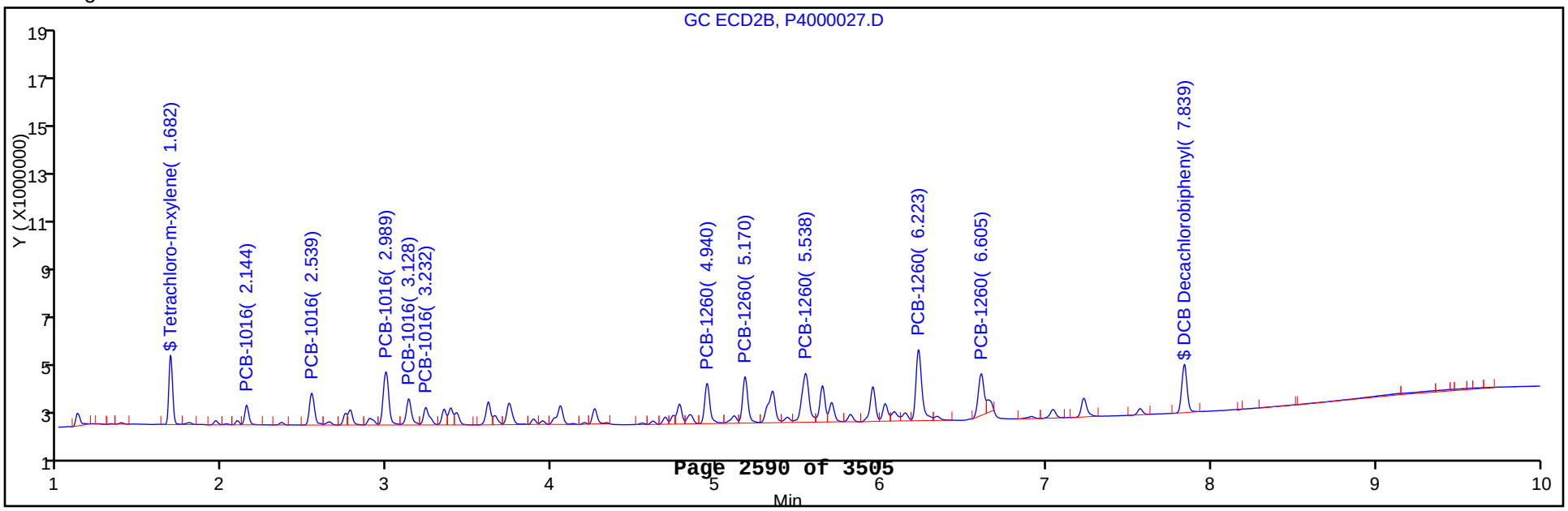
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000027.D

Injection Date:	15-Apr-2013 05:58:18	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000028.D		
Lims ID:	STD01 1660	Client ID:	
Inject. Date:	15-Apr-2013 06:13:58	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018824-028		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	28
Lims Batch ID:	81761	Lims Sample ID:	28
Sublist:	chrom-PCB4*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:05:13	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	7917499	0.005000			
2	2	1.680	1.680	0.000	7708908	0.004886			
						RPD = 2.30			
6 PCB-1016									
1	100	1.543	1.542	0.001	2983667	0.1099		100.0	
1	2	1.824	1.824	0.000	5433503	0.1110	156.0- 206.0	182.1	
1	3	2.215	2.216	-0.001	9945659	0.1064	312.4- 362.4	333.3	
1	4	2.336	2.336	0.000	4595862	0.1095	118.7- 188.7	154.0	
1	5	2.714	2.714	0.000	4525845	0.1067	125.6- 175.6	151.7	
			Average of Peak Amounts =			0.1087			
2	6	2.142	2.142	0.000	2815274	0.1098		100.0	
2	7	2.537	2.538	-0.001	5568215	0.1097	169.6- 229.6	197.8	
2	8	2.988	2.989	-0.001	10270214	0.1033	351.4- 411.4	364.8	
2	9	3.127	3.127	0.000	4542149	0.1032	141.3- 201.3	161.3	
2	10	3.230	3.230	0.000	3432777	0.1002	102.5- 162.5	121.9	
			Average of Peak Amounts =			0.1052			
						RPD = 3.26			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	6615534	0.1060		100.0	
1	2	4.199	4.199	0.000	11670366	0.1060	152.2- 202.2	176.4	
1	3	4.480	4.479	0.001	11246589	0.1045	146.4- 196.4	170.0	
1	4	5.180	5.178	0.002	13350557	0.1032	180.7- 230.7	201.8	
1	5	5.465	5.464	0.001	5785383	0.0993	64.1- 114.1	87.5	
			Average of Peak Amounts =			0.1038			
2	6	4.940	4.940	0.000	7119452	0.1035		100.0	
2	7	5.170	5.170	0.000	8044234	0.1008	87.6- 147.6	113.0	
2	8	5.538	5.539	-0.001	11716900	0.0992	144.7- 204.7	164.6	
2	9	6.224	6.224	0.000	14510168	0.0995	187.7- 247.7	203.8	
2	10	6.606	6.604	0.002	10271915	0.1063	115.0- 175.0	144.3	
			Average of Peak Amounts =			0.1018			
						RPD = 1.90			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	6871160	0.005146			
2	2	7.840	7.839	0.001	7520328	0.005163			
						RPD = 0.33			

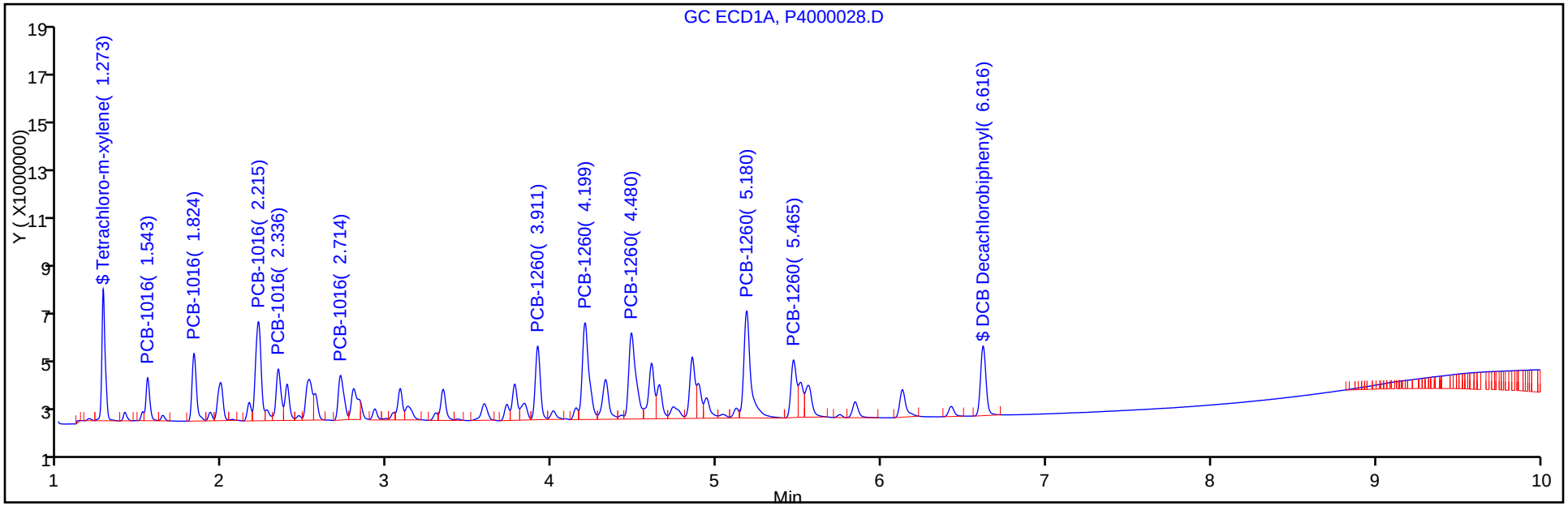
Report Date: 15-Apr-2013 13:05:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

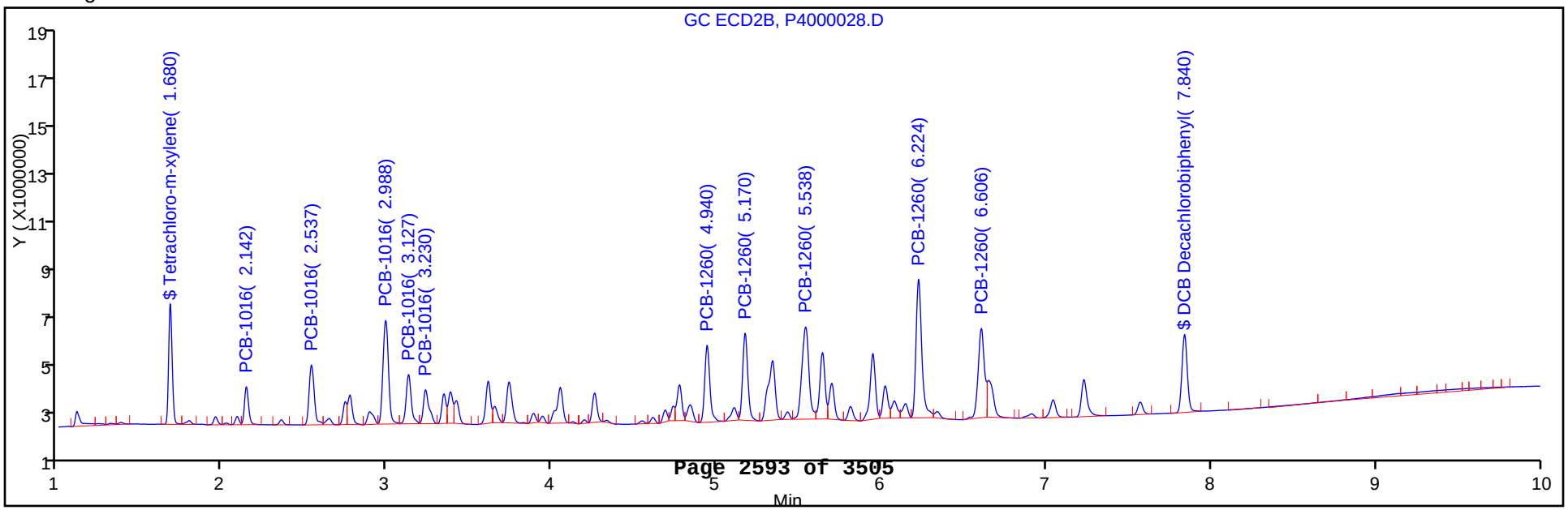
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000028.D

Injection Date:	15-Apr-2013 06:13:58	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	28
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000029.D		
Lims ID:	STD02 1660	Client ID:	
Inject. Date:	15-Apr-2013 06:29:38	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	240-0018824-029		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	29
Lims Batch ID:	81761	Lims Sample ID:	29
Sublist:	chrom-PCB4*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:05:14	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 07:54:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	15523707	0.009803			
2	2	1.680	1.680	0.000	15242925	0.009661			
						RPD = 1.46			
6 PCB-1016									
1	100	1.542	1.542	0.000	5514637	0.2032		100.0	
1	2	1.824	1.824	0.000	9982648	0.2039	156.0- 206.0	181.0	
1	3	2.216	2.216	0.000	18604449	0.1991	312.4- 362.4	337.4	
1	4	2.336	2.336	0.000	8478740	0.2021	118.7- 188.7	153.7	
1	5	2.716	2.714	0.002	8307597	0.1959	125.6- 175.6	150.6	
			Average of Peak Amounts =			0.2008			
2	6	2.142	2.142	0.000	5169813	0.2016		100.0	
2	7	2.538	2.538	0.000	10319371	0.2033	169.6- 229.6	199.6	
2	8	2.989	2.989	0.000	19716766	0.1984	351.4- 411.4	381.4	
2	9	3.127	3.127	0.000	8855005	0.2012	141.3- 201.3	171.3	
2	10	3.231	3.230	0.001	6850895	0.2000	102.5- 162.5	132.5	
			Average of Peak Amounts =			0.2009			
						RPD = 0.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	12178388	0.1952		100.0	
1	2	4.199	4.199	0.000	21579410	0.1959	152.2- 202.2	177.2	
1	3	4.481	4.479	0.002	20876275	0.1939	146.4- 196.4	171.4	
1	4	5.180	5.178	0.002	25056847	0.1937	180.7- 230.7	205.7	
1	5	5.465	5.464	0.001	10851656	0.1863	64.1- 114.1	89.1	
			Average of Peak Amounts =			0.1930			
2	6	4.941	4.940	0.001	13065868	0.1899		100.0	
2	7	5.171	5.170	0.001	15359614	0.1924	87.6- 147.6	117.6	
2	8	5.539	5.539	0.000	22819912	0.1931	144.7- 204.7	174.7	
2	9	6.224	6.224	0.000	28442969	0.1951	187.7- 247.7	217.7	
2	10	6.605	6.604	0.001	18939171	0.1959	115.0- 175.0	145.0	
			Average of Peak Amounts =			0.1933			
						RPD = 0.15			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	13084050	0.009799			
2	2	7.838	7.839	-0.001	14188016	0.009740			
						RPD = 0.60			

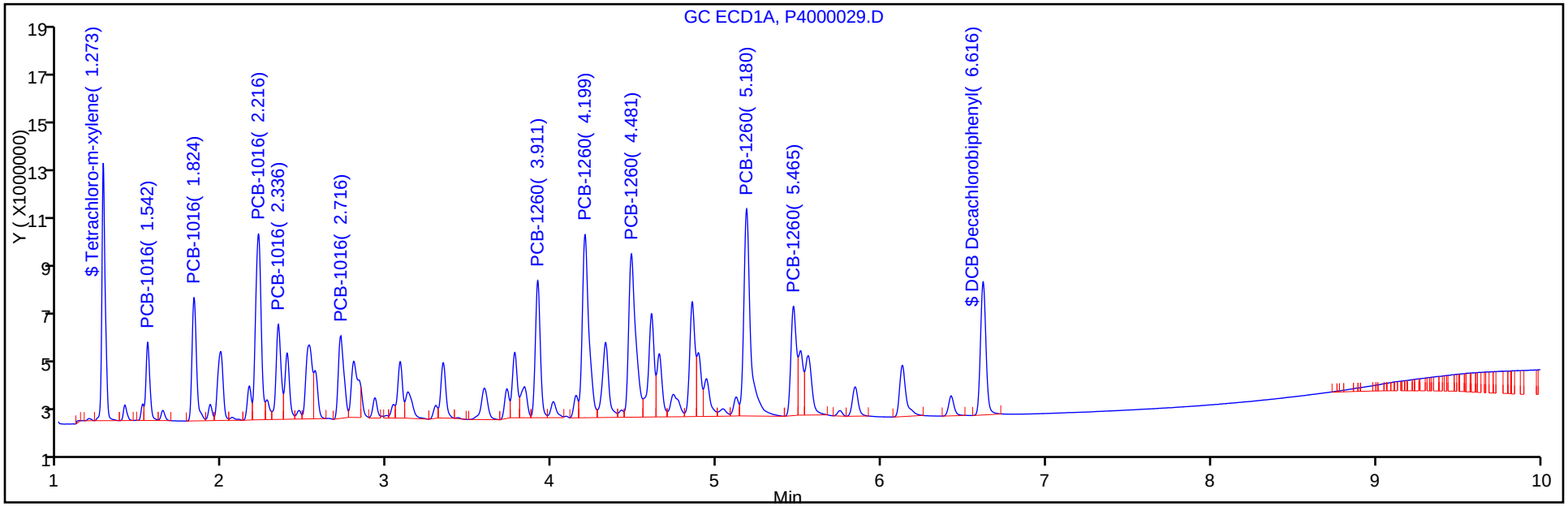
Report Date: 15-Apr-2013 13:05:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

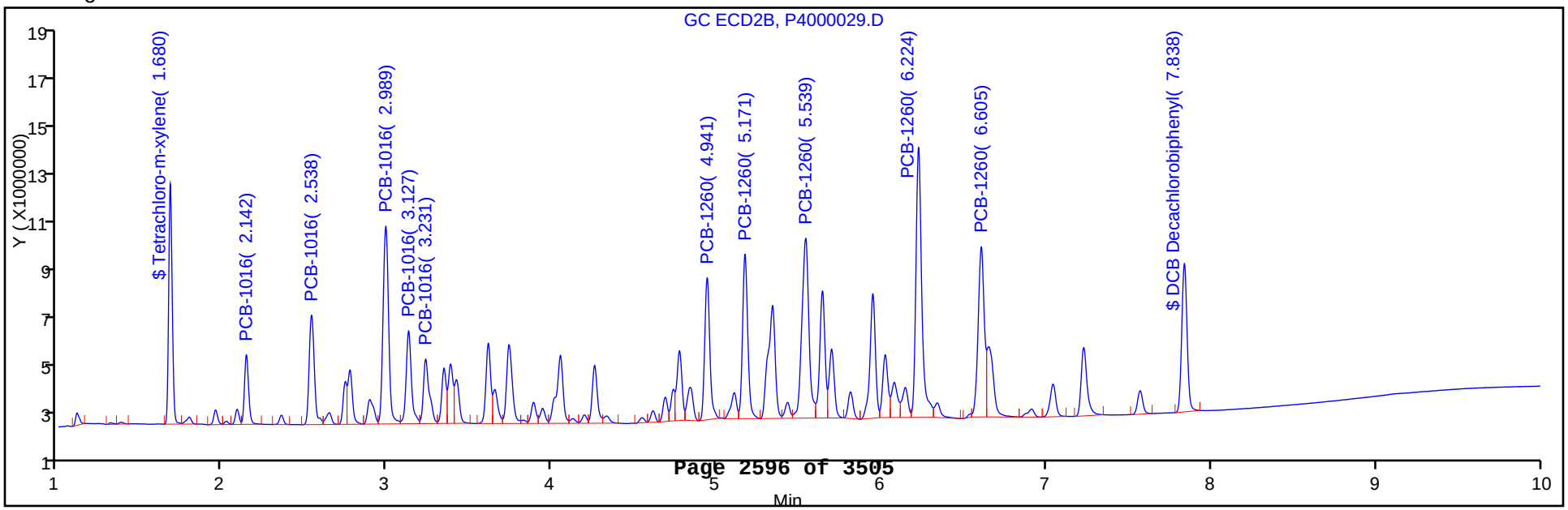
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000029.D

Injection Date:	15-Apr-2013 06:29:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000030.D
Lims ID: STD05 1660 Client ID:
Inject. Date: 15-Apr-2013 06:45:16 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 4
Sample ID: 240-0018824-030
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 81761 Lims Sample ID: 30
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:16 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	39507071	0.0249			
2	2	1.680	1.680	0.000	39120759	0.0248			
						RPD = 0.62			
6 PCB-1016									
1	100	1.542	1.542	0.000	13291176	0.4898		100.0	
1	2	1.824	1.824	0.000	23992974	0.4900	156.0- 206.0	180.5	
1	3	2.216	2.216	0.000	47157584	0.5047	312.4- 362.4	354.8	
1	4	2.336	2.336	0.000	21284600	0.5072	118.7- 188.7	160.1	
1	5	2.714	2.714	0.000	21015587	0.4957	125.6- 175.6	158.1	
			Average of Peak Amounts =			0.4975			
2	6	2.142	2.142	0.000	12749014	0.4971		100.0	
2	7	2.538	2.538	0.000	25028120	0.4930	169.6- 229.6	196.3	
2	8	2.989	2.989	0.000	50068454	0.5038	351.4- 411.4	392.7	
2	9	3.127	3.127	0.000	21925738	0.4981	141.3- 201.3	172.0	
2	10	3.230	3.230	0.000	17315093	0.5055	102.5- 162.5	135.8	
			Average of Peak Amounts =			0.4995			
						RPD = 0.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	31124624	0.4988		100.0	
1	2	4.199	4.199	0.000	55160362	0.5009	152.2- 202.2	177.2	
1	3	4.479	4.479	0.000	54595602	0.5071	146.4- 196.4	175.4	
1	4	5.178	5.178	0.000	67776563	0.5239	180.7- 230.7	217.8	
1	5	5.464	5.464	0.000	30390497	0.5218	64.1- 114.1	97.6	
			Average of Peak Amounts =			0.5105			
2	6	4.940	4.940	0.000	34904658	0.5074		100.0	
2	7	5.170	5.170	0.000	40649954	0.5092	87.6- 147.6	116.5	
2	8	5.539	5.539	0.000	60632386	0.5131	144.7- 204.7	173.7	
2	9	6.224	6.224	0.000	75347283	0.5168	187.7- 247.7	215.9	
2	10	6.604	6.604	0.000	50809068	0.5256	115.0- 175.0	145.6	
			Average of Peak Amounts =			0.5144			
						RPD = 0.77			
$ 12 DCB Decachlorobiphenyl									
1	100	6.615	6.615	0.000	33154181	0.0248			
2	2	7.839	7.839	0.000	36003048	0.0247			
						RPD = 0.46			

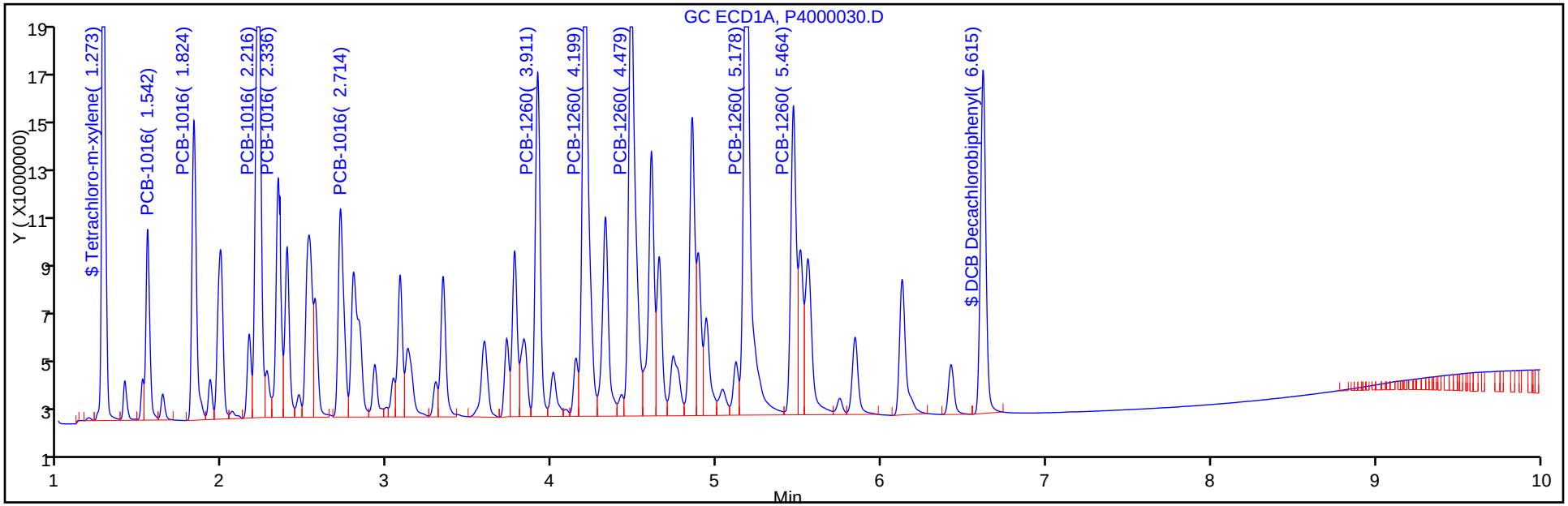
Report Date: 15-Apr-2013 13:05:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

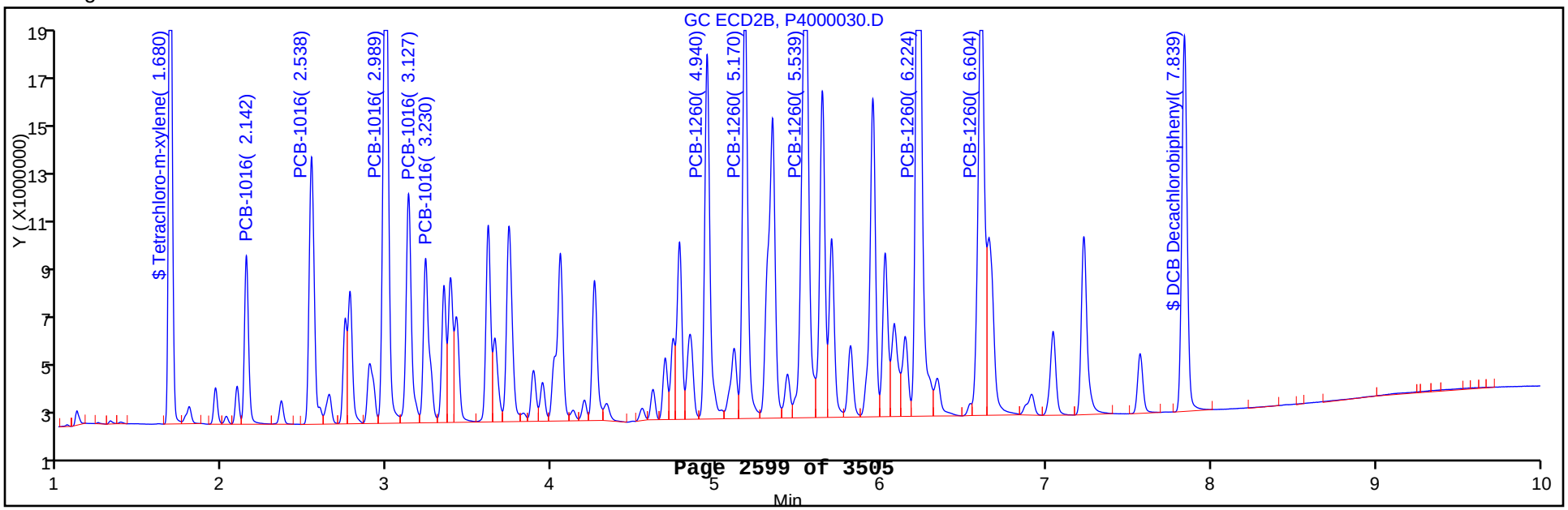
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000030.D

Injection Date:	15-Apr-2013 06:45:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000031.D
Lims ID: STD1 1660 Client ID:
Inject. Date: 15-Apr-2013 07:00:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-031
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 31
Lims Batch ID: 81761 Lims Sample ID: 31
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:17 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:56:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	75430646	0.0476			
2	2	1.680	1.680	0.000	76080813	0.0482			
						RPD = 1.22			
6 PCB-1016									M
1	100	1.542	1.542	0.000	24260203	0.8940		100.0	
1	2	1.824	1.824	0.000	43493540	0.8882	156.0- 206.0	179.3	
1	3	2.216	2.216	0.000	89669755	0.9596	312.4- 362.4	369.6	
1	4	2.336	2.336	0.000	39524466	0.9419	118.7- 188.7	162.9	
1	5	2.714	2.714	0.000	39299859	0.9269	125.6- 175.6	162.0	
			Average of Peak Amounts =			0.9221			
2	6	2.142	2.142	0.000	23215264	0.9051		100.0	
2	7	2.538	2.538	0.000	46013267	0.9063	169.6- 229.6	198.2	M
2	8	2.990	2.989	0.001	95381388	0.9598	351.4- 411.4	410.9	M
2	9	3.127	3.127	0.000	41340948	0.9392	141.3- 201.3	178.1	M
2	10	3.231	3.230	0.001	32939242	0.9617	102.5- 162.5	141.9	M
			Average of Peak Amounts =			0.9344			
						RPD = 1.32			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.912	3.911	0.001	58486212	0.9373		100.0	
1	2	4.198	4.199	-0.001	103815872	0.9427	152.2- 202.2	177.5	
1	3	4.478	4.479	-0.001	104066785	0.9665	146.4- 196.4	177.9	
1	4	5.179	5.178	0.001	128178666	0.99	180.7- 230.7	219.2	
1	5	5.464	5.464	0.000	57763115	0.99	64.1- 114.1	98.8	
			Average of Peak Amounts =			0.9658			
2	6	4.941	4.940	0.001	66378031	0.9650		100.0	M
2	7	5.169	5.170	-0.001	76848773	0.9626	87.6- 147.6	115.8	M
2	8	5.538	5.539	-0.001	115078240	0.9738	144.7- 204.7	173.4	M
2	9	6.223	6.224	-0.001	142695180	0.9786	187.7- 247.7	215.0	M
2	10	6.604	6.604	0.000	98045225	1.01	115.0- 175.0	147.7	M
			Average of Peak Amounts =			0.9789			
						RPD = 1.35			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	60872720	0.0456			
2	2	7.838	7.839	-0.001	65480868	0.0450			
						RPD = 1.41			

QC Flag Legend

Review Flags
M - Manually Integrated

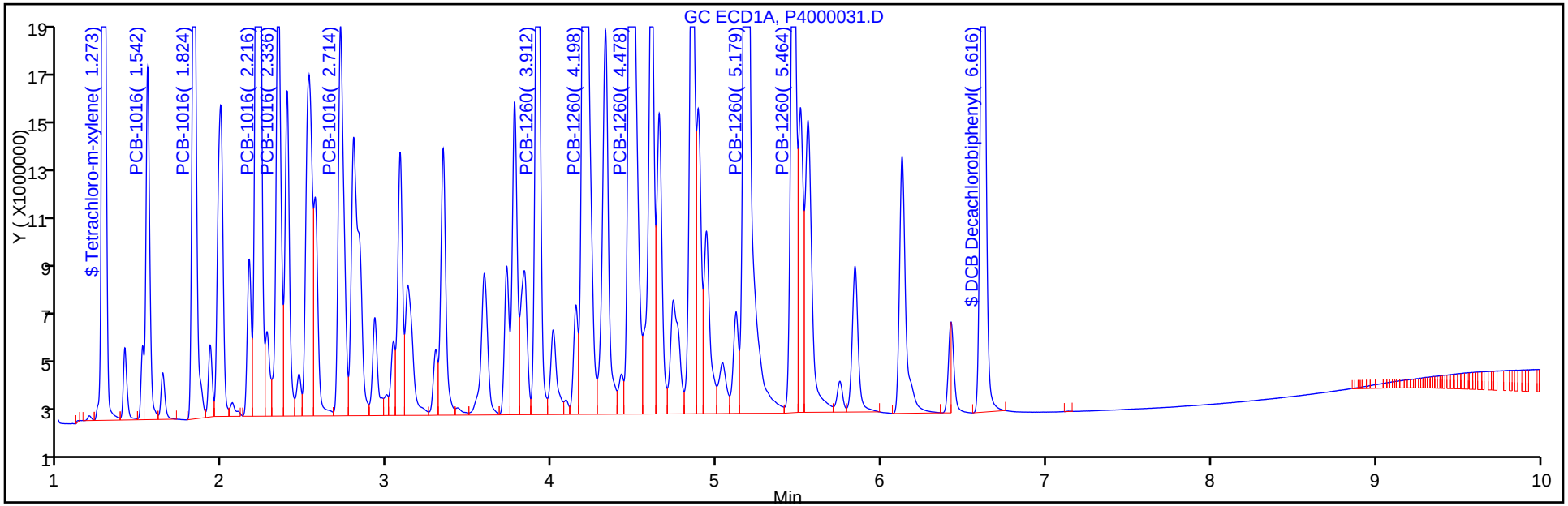
Report Date: 15-Apr-2013 13:05:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

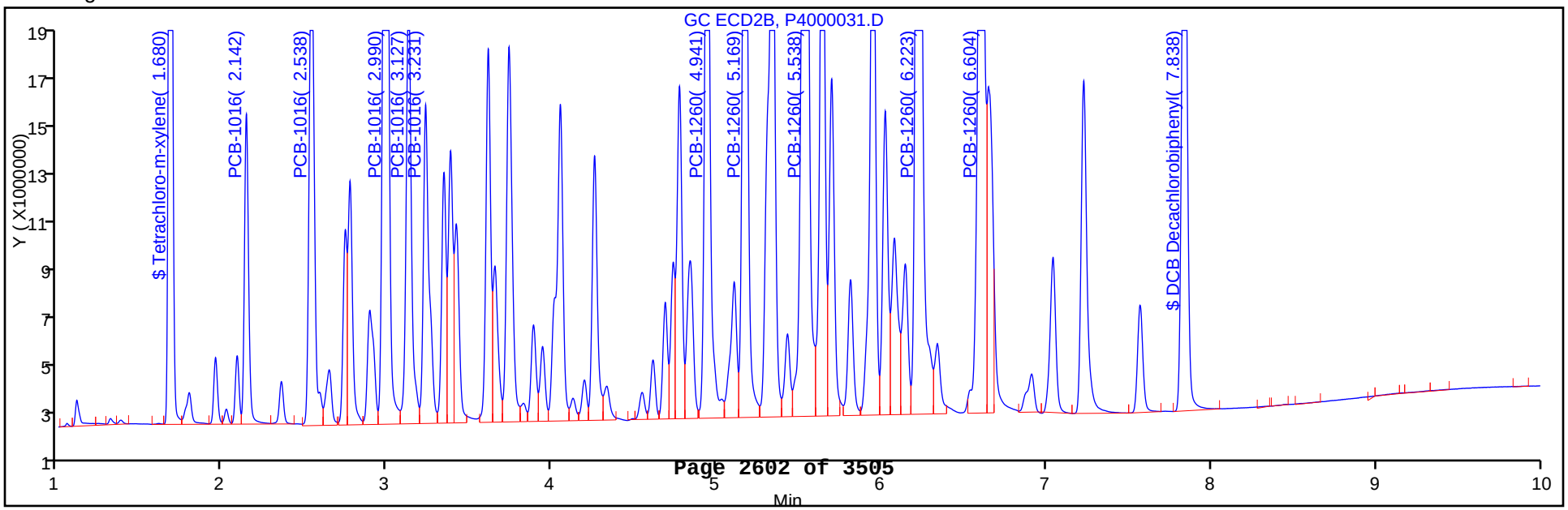
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000031.D

Injection Date:	15-Apr-2013 07:00:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000032.D
Lims ID: STD2 1660 Client ID:
Inject. Date: 15-Apr-2013 07:16:36 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-032
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 32
Lims Batch ID: 81761 Lims Sample ID: 32
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:19 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.274	1.273	0.001	139633124	0.0882			
2	2	1.680	1.680	0.000	144660958	0.0917			
						RPD = 3.90			
6 PCB-1016									
1	100	1.543	1.542	0.001	45467307	1.68		100.0	
1	2	1.824	1.824	0.000	81405825	1.66	156.0- 206.0	179.0	
1	3	2.215	2.216	-0.001	173782886	1.86	312.4- 362.4	382.2	
1	4	2.335	2.336	-0.001	76582147	1.83	118.7- 188.7	168.4	
1	5	2.714	2.714	0.000	76719668	1.81	125.6- 175.6	168.7	
			Average of Peak Amounts =			1.77			
2	6	2.142	2.142	0.000	43341046	1.69		100.0	
2	7	2.538	2.538	0.000	84639763	1.67	169.6- 229.6	195.3	
2	8	2.989	2.989	0.000	182329208	1.83	351.4- 411.4	420.7	
2	9	3.127	3.127	0.000	78363562	1.78	141.3- 201.3	180.8	
2	10	3.229	3.230	-0.001	62977595	1.84	102.5- 162.5	145.3	
			Average of Peak Amounts =			1.76			
						RPD = 0.25			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	113608262	1.82		100.0	
1	2	4.198	4.199	-0.001	201639590	1.83	152.2- 202.2	177.5	
1	3	4.478	4.479	-0.001	205014119	1.90	146.4- 196.4	180.5	
1	4	5.177	5.178	-0.001	252349773	1.95	180.7- 230.7	222.1	
1	5	5.463	5.464	-0.001	116579268	2.00	64.1- 114.1	102.6	
			Average of Peak Amounts =			1.90			
2	6	4.940	4.940	0.000	126295696	1.84		100.0	
2	7	5.169	5.170	-0.001	149487757	1.87	87.6- 147.6	118.4	
2	8	5.536	5.539	-0.003	225926327	1.91	144.7- 204.7	178.9	
2	9	6.223	6.224	-0.001	280614663	1.92	187.7- 247.7	222.2	
2	10	6.603	6.604	-0.001	192580448	1.99	115.0- 175.0	152.5	
			Average of Peak Amounts =			1.91			
						RPD = 0.31			
$ 12 DCB Decachlorobiphenyl									
1	100	6.615	6.615	0.000	115275771	0.0863			
2	2	7.838	7.839	-0.001	122400065	0.0840			
						RPD = 2.71			

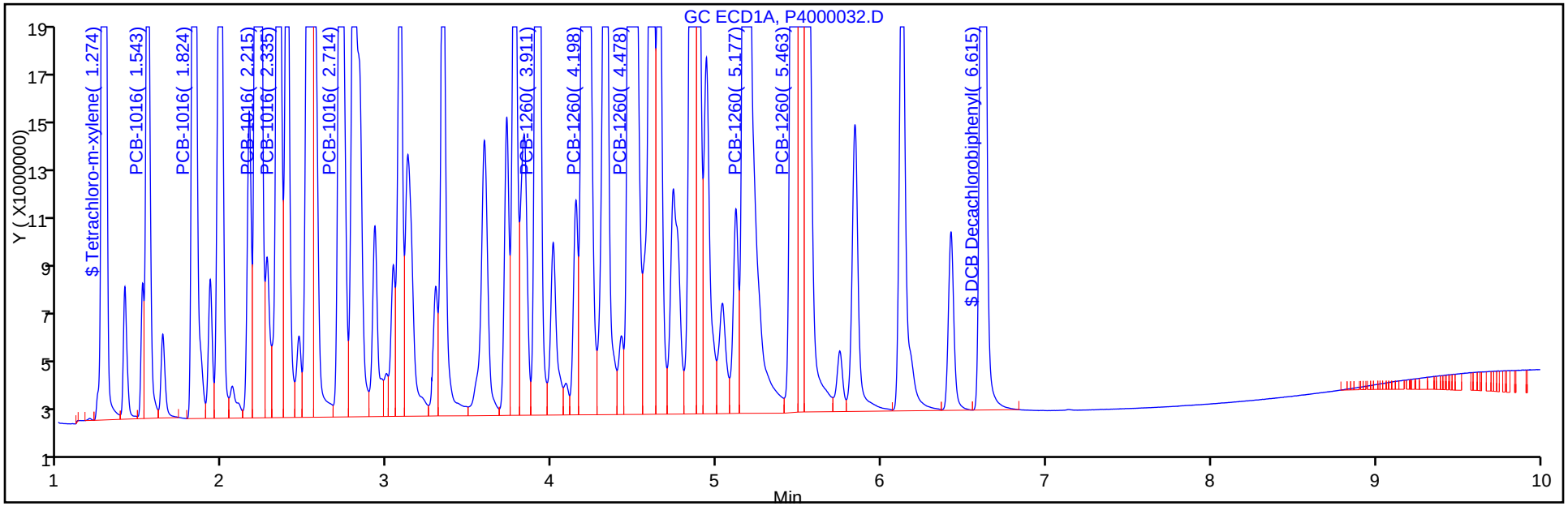
Report Date: 15-Apr-2013 13:05:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

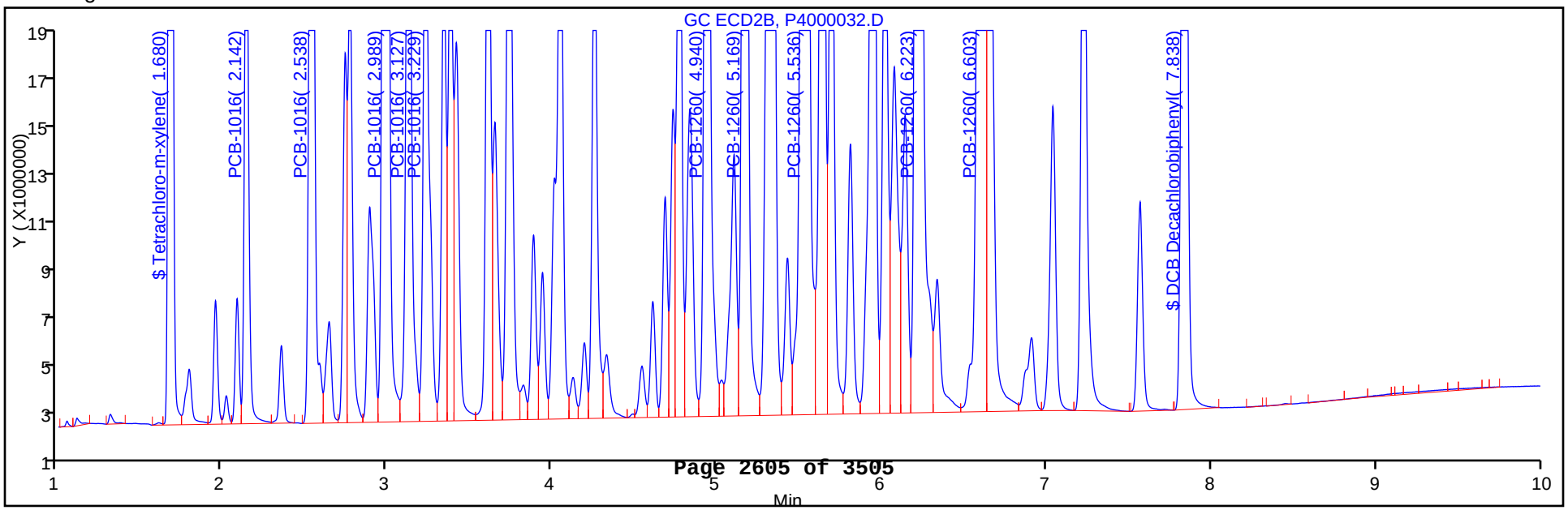
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000032.D

Injection Date:	15-Apr-2013 07:16:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	32
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 05:58 Calibration End Date: 04/15/2013 07:16 Calibration ID: 14534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/27	P4000027.D
Level 2	STD01 240-81761/28	P4000028.D
Level 3	STD02 240-81761/29	P4000029.D
Level 4	STD05 240-81761/30	P4000030.D
Level 5	STD1 240-81761/31	P4000031.D
Level 6	STD2 240-81761/32	P4000032.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	2.144	2.142	2.142	2.142	2.142	2.142					2.042 - 2.242	2.142
PCB-1016 Peak 2	2.539	2.537	2.538	2.538	2.538	2.538					2.438 - 2.638	2.538
PCB-1016 Peak 3	2.989	2.988	2.989	2.989	2.990	2.989					2.889 - 3.089	2.989
PCB-1016 Peak 4	3.128	3.127	3.127	3.127	3.127	3.127					3.027 - 3.227	3.127
PCB-1016 Peak 5	3.232	3.230	3.231	3.230	3.231	3.229					3.130 - 3.330	3.231
PCB-1260 Peak 1	4.940	4.940	4.941	4.940	4.941	4.940					4.840 - 5.040	4.940
PCB-1260 Peak 2	5.170	5.170	5.171	5.170	5.169	5.169					5.070 - 5.270	5.170
PCB-1260 Peak 3	5.538	5.538	5.539	5.539	5.538	5.536					5.439 - 5.639	5.538
PCB-1260 Peak 4	6.223	6.224	6.224	6.224	6.223	6.223					6.124 - 6.324	6.224
PCB-1260 Peak 5	6.605	6.606	6.605	6.604	6.604	6.603					6.504 - 6.704	6.605
Tetrachloro-m-xylene	1.682	1.680	1.680	1.680	1.680	1.680					1.580 - 1.780	1.680
DCB Decachlorobiphenyl	7.839	7.840	7.838	7.839	7.838	7.838					7.739 - 7.939	7.839

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 05:58 Calibration End Date: 04/15/2013 07:16 Calibration ID: 14534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/27	P4000027.D
Level 2	STD01 240-81761/28	P4000028.D
Level 3	STD02 240-81761/29	P4000029.D
Level 4	STD05 240-81761/30	P4000030.D
Level 5	STD1 240-81761/31	P4000031.D
Level 6	STD2 240-81761/32	P4000032.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	29503820 23215264	28152740 21670523	25849065	25498028	Ave		25648240.0				11.0		20.0			
PCB-1016 Peak 2	58958580 46013267	55682150 42319882	51596855	50056240	Ave		50771162.3				12.0		20.0			
PCB-1016 Peak 3	108308080 95381388	102702140 91164604	98583830	100136908	Ave		99379491.7				6.0		20.0			
PCB-1016 Peak 4	50038720 41340948	45421490 39181781	44275025	43851476	Ave		44018240.0				8.4		20.0			
PCB-1016 Peak 5	37868620 32939242	34327770 31488798	34254475	34630186	Ave		34251515.1				6.2		20.0			
PCB-1260 Peak 1	76858220 66378031	71194520 63147848	65329340	69809316	Ave		68786212.5				7.2		20.0			
PCB-1260 Peak 2	88859340 76848773	80442340 74743879	76798070	81299908	Ave		79832051.6				6.3		20.0			
PCB-1260 Peak 3	128444800 115078240	117169000 112963164	114099560	121264772	Ave		118169923				4.9		20.0			
PCB-1260 Peak 4	153839180 142695180	145101680 140307332	142214845	150694566	Ave		145808797				3.7		20.0			
PCB-1260 Peak 5	86608980 98045225	102719150 96290224	94695855	101618136	Ave		96662928.3				6.0		20.0			
Tetrachloro-m-xylene	1867810000 1521616260	1541781600 1446609580	1524292500	1564830360	Ave		1577823383				9.3		20.0			
DCB Decachlorobiphenyl	1843107200 1309617360	1504065600 1224000650	1418801600	1440121920	Ave		1456619055				15.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-22663-1 Analy Batch No.: 81761

SDG No.:

Instrument ID: A2HP4 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/15/2013 05:58 Calibration End Date: 04/15/2013 07:16 Calibration ID: 14534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-81761/27	P4000027.D
Level 2	STD01 240-81761/28	P4000028.D
Level 3	STD02 240-81761/29	P4000029.D
Level 4	STD05 240-81761/30	P4000030.D
Level 5	STD1 240-81761/31	P4000031.D
Level 6	STD2 240-81761/32	P4000032.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	1475191 43341046	2815274	5169813	12749014	23215264	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	Ave	2947929 84639763	5568215	10319371	25028120	46013267	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	Ave	5415404 182329208	10270214	19716766	50068454	95381388	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	Ave	2501936 78363562	4542149	8855005	21925738	41340948	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	Ave	1893431 62977595	3432777	6850895	17315093	32939242	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	Ave	3842911 126295696	7119452	13065868	34904658	66378031	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	Ave	4442967 149487757	8044234	15359614	40649954	76848773	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	Ave	6422240 225926327	11716900	22819912	60632386	115078240	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	Ave	7691959 280614663	14510168	28442969	75347283	142695180	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	Ave	4330449 192580448	10271915	18939171	50809068	98045225	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	Ave	4669525 144660958	7708908	15242925	39120759	76080813	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	Ave	4607768 122400065	7520328	14188016	36003048	65480868	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000027.D		
Lims ID:	STD005 1660	Client ID:	
Inject. Date:	15-Apr-2013 05:58:18	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	240-0018824-027		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	27
Lims Batch ID:	81761	Lims Sample ID:	27
Sublist:	chrom-PCB4*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:05:11	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

First Level Reviewer: hassl Date: 15-Apr-2013 07:54:26

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.274	1.273	0.001	4701366	0.002969			
2	2	1.682	1.680	0.002	4669525	0.002959			
						RPD = 0.31			
6 PCB-1016									
1	100	1.544	1.542	0.002	1591882	0.0587		100.0	
1	2	1.826	1.824	0.002	2868608	0.0586	156.0- 206.0	180.2	
1	3	2.218	2.216	0.002	4864265	0.0521	312.4- 362.4	305.6	
1	4	2.337	2.336	0.001	2151832	0.0513	118.7- 188.7	135.2	
1	5	2.714	2.714	0.000	2395345	0.0565	125.6- 175.6	150.5	
			Average of Peak Amounts =			0.0554			
2	6	2.144	2.142	0.002	1475191	0.0575		100.0	
2	7	2.539	2.538	0.001	2947929	0.0581	169.6- 229.6	199.8	
2	8	2.989	2.989	0.000	5415404	0.0545	351.4- 411.4	367.1	
2	9	3.128	3.127	0.001	2501936	0.0568	141.3- 201.3	169.6	
2	10	3.232	3.230	0.002	1893431	0.0553	102.5- 162.5	128.4	
			Average of Peak Amounts =			0.0564			
						RPD = 1.83			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.912	3.911	0.001	3490760	0.0559		100.0	
1	2	4.199	4.199	0.000	6060581	0.0550	152.2- 202.2	173.6	
1	3	4.480	4.479	0.001	5669938	0.0527	146.4- 196.4	162.4	
1	4	5.180	5.178	0.002	6378035	0.0493	180.7- 230.7	182.7	
1	5	5.465	5.464	0.001	3026100	0.0520	64.1- 114.1	86.7	
			Average of Peak Amounts =			0.0530			
2	6	4.940	4.940	0.000	3842911	0.0559		100.0	
2	7	5.170	5.170	0.000	4442967	0.0557	87.6- 147.6	115.6	
2	8	5.538	5.539	-0.001	6422240	0.0543	144.7- 204.7	167.1	
2	9	6.223	6.224	-0.001	7691959	0.0528	187.7- 247.7	200.2	
2	10	6.605	6.604	0.001	4330449	0.0448	115.0- 175.0	112.7	M
			Average of Peak Amounts =			0.0527			
						RPD = 0.55			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	4080716	0.003056			
2	2	7.839	7.839	0.000	4607768	0.003163			
						RPD = 3.44			

QC Flag Legend

Review Flags
M - Manually Integrated

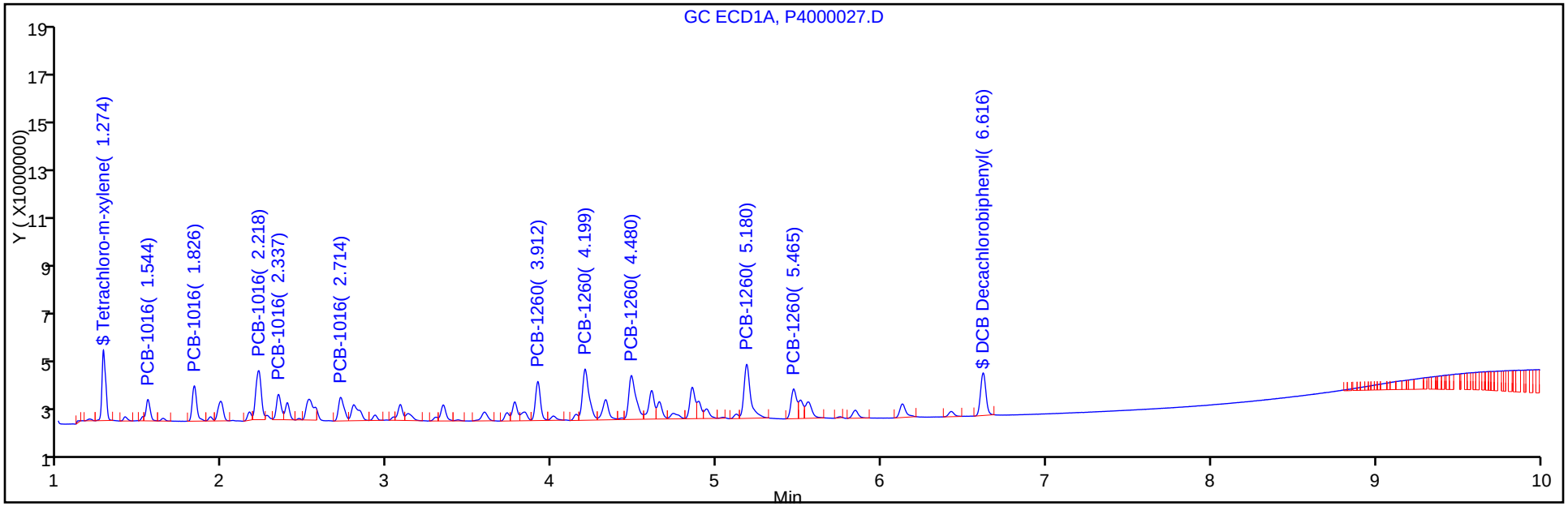
Report Date: 15-Apr-2013 13:05:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

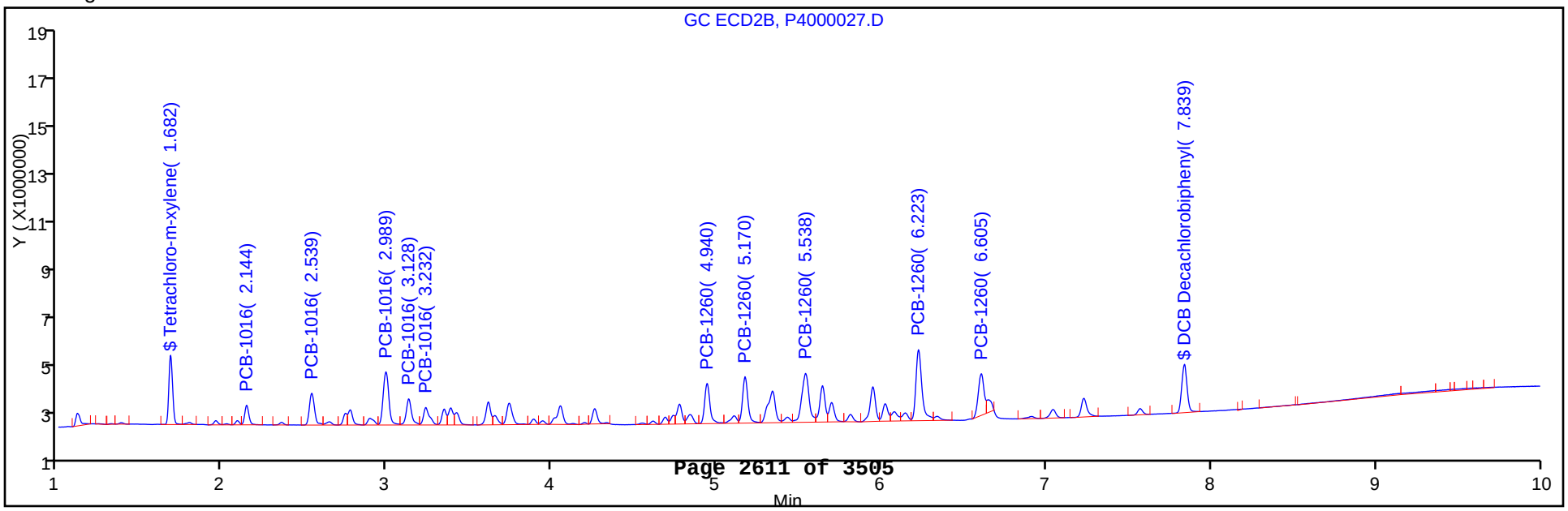
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000027.D

Injection Date:	15-Apr-2013 05:58:18	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



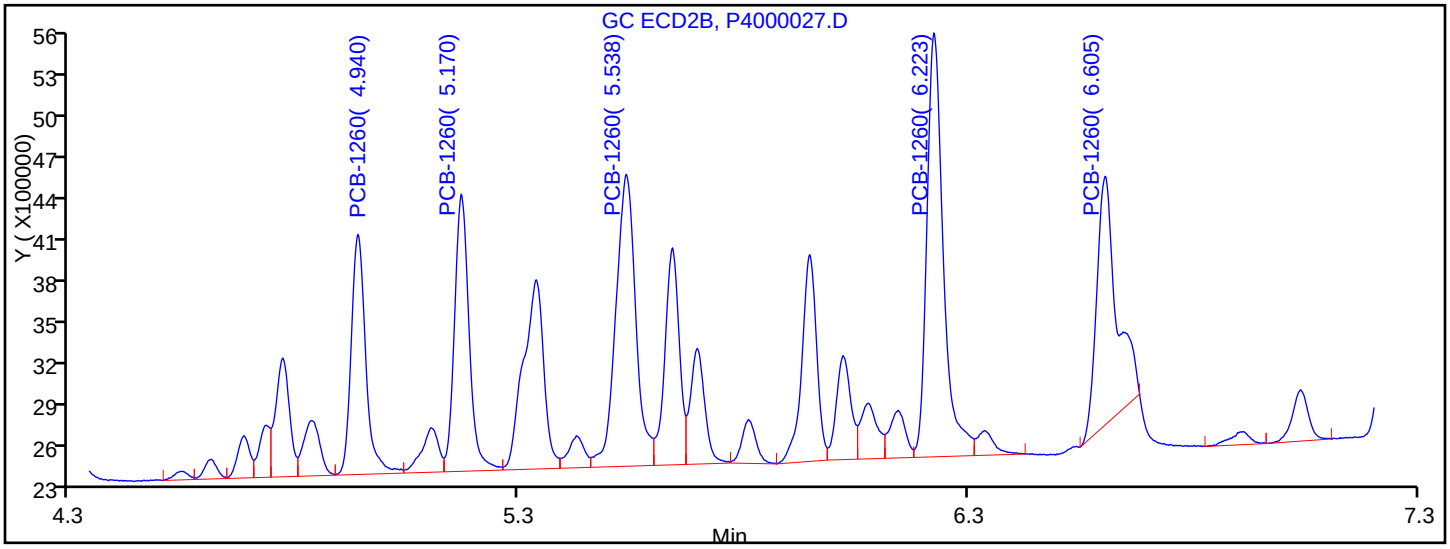
Report Date: 15-Apr-2013 13:05:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000027.D

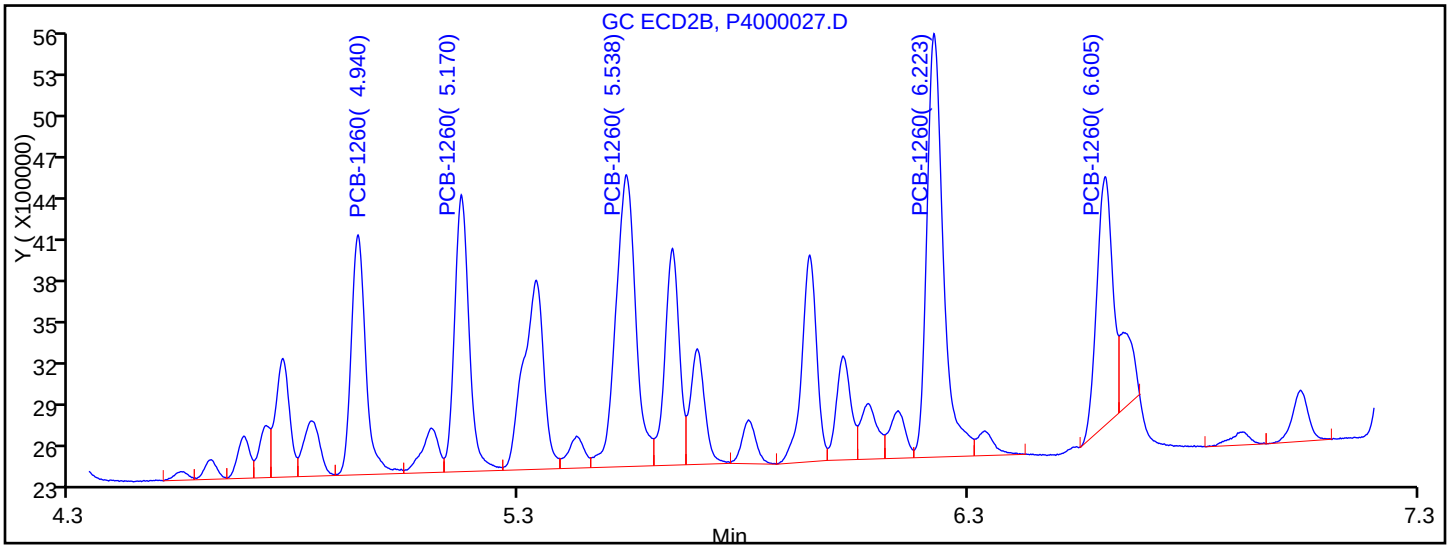
Injection Date:	15-Apr-2013 05:58:18	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	27
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.940	Response = 3842911	
RT = 5.170	Response = 4442967	
RT = 5.538	Response = 6422240	
RT = 6.223	Response = 7691959	
RT = 6.605	Response = 5419116	M



Manual Integration Results

RT = 4.940	Response = 3842911	
RT = 5.170	Response = 4442967	
RT = 5.538	Response = 6422240	
RT = 6.223	Response = 7691959	
RT = 6.605	Response = 4330449	M

Reviewer: hassl, 15-Apr-2013 07:54:26

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000028.D		
Lims ID:	STD01 1660	Client ID:	
Inject. Date:	15-Apr-2013 06:13:58	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	240-0018824-028		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 ul	ALS Bottle#:	28
Lims Batch ID:	81761	Lims Sample ID:	28
Sublist:	chrom-PCB4*sub5		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m		
Last Update:	15-Apr-2013 13:05:13	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK026		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	7917499	0.005000			
2	2	1.680	1.680	0.000	7708908	0.004886			
						RPD = 2.30			
6 PCB-1016									
1	100	1.543	1.542	0.001	2983667	0.1099		100.0	
1	2	1.824	1.824	0.000	5433503	0.1110	156.0- 206.0	182.1	
1	3	2.215	2.216	-0.001	9945659	0.1064	312.4- 362.4	333.3	
1	4	2.336	2.336	0.000	4595862	0.1095	118.7- 188.7	154.0	
1	5	2.714	2.714	0.000	4525845	0.1067	125.6- 175.6	151.7	
			Average of Peak Amounts =			0.1087			
2	6	2.142	2.142	0.000	2815274	0.1098		100.0	
2	7	2.537	2.538	-0.001	5568215	0.1097	169.6- 229.6	197.8	
2	8	2.988	2.989	-0.001	10270214	0.1033	351.4- 411.4	364.8	
2	9	3.127	3.127	0.000	4542149	0.1032	141.3- 201.3	161.3	
2	10	3.230	3.230	0.000	3432777	0.1002	102.5- 162.5	121.9	
			Average of Peak Amounts =			0.1052			
						RPD = 3.26			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	6615534	0.1060		100.0	
1	2	4.199	4.199	0.000	11670366	0.1060	152.2- 202.2	176.4	
1	3	4.480	4.479	0.001	11246589	0.1045	146.4- 196.4	170.0	
1	4	5.180	5.178	0.002	13350557	0.1032	180.7- 230.7	201.8	
1	5	5.465	5.464	0.001	5785383	0.0993	64.1- 114.1	87.5	
			Average of Peak Amounts =			0.1038			
2	6	4.940	4.940	0.000	7119452	0.1035		100.0	
2	7	5.170	5.170	0.000	8044234	0.1008	87.6- 147.6	113.0	
2	8	5.538	5.539	-0.001	11716900	0.0992	144.7- 204.7	164.6	
2	9	6.224	6.224	0.000	14510168	0.0995	187.7- 247.7	203.8	
2	10	6.606	6.604	0.002	10271915	0.1063	115.0- 175.0	144.3	
			Average of Peak Amounts =			0.1018			
						RPD = 1.90			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	6871160	0.005146			
2	2	7.840	7.839	0.001	7520328	0.005163			
						RPD = 0.33			

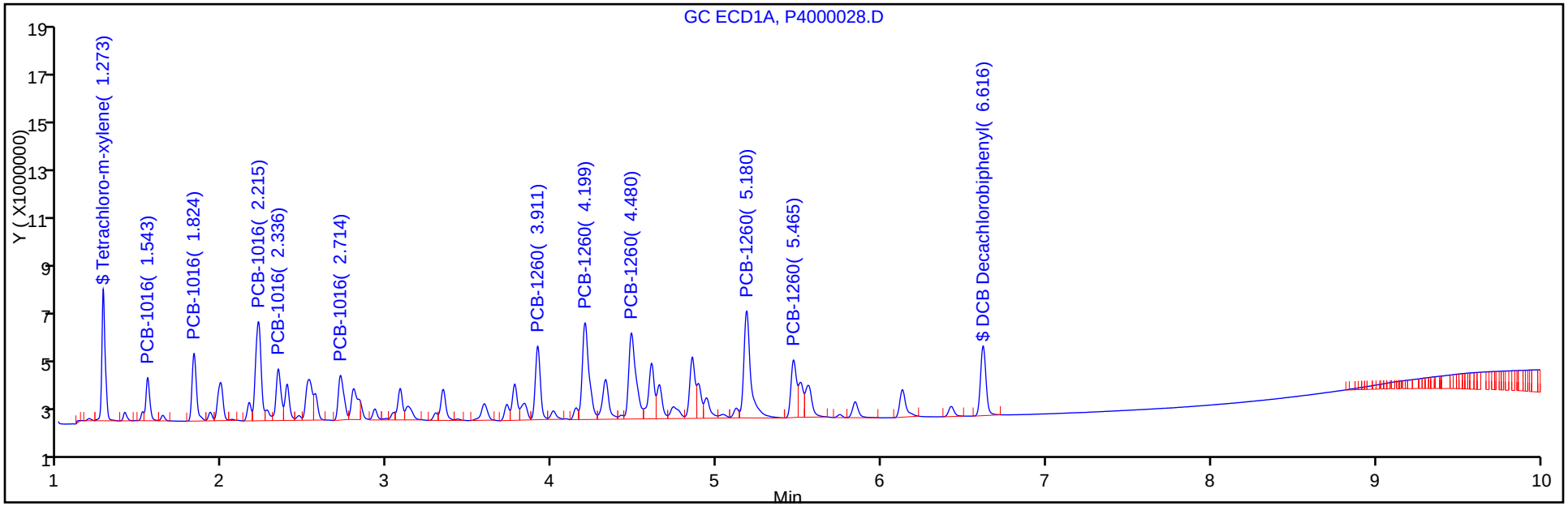
Report Date: 15-Apr-2013 13:05:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

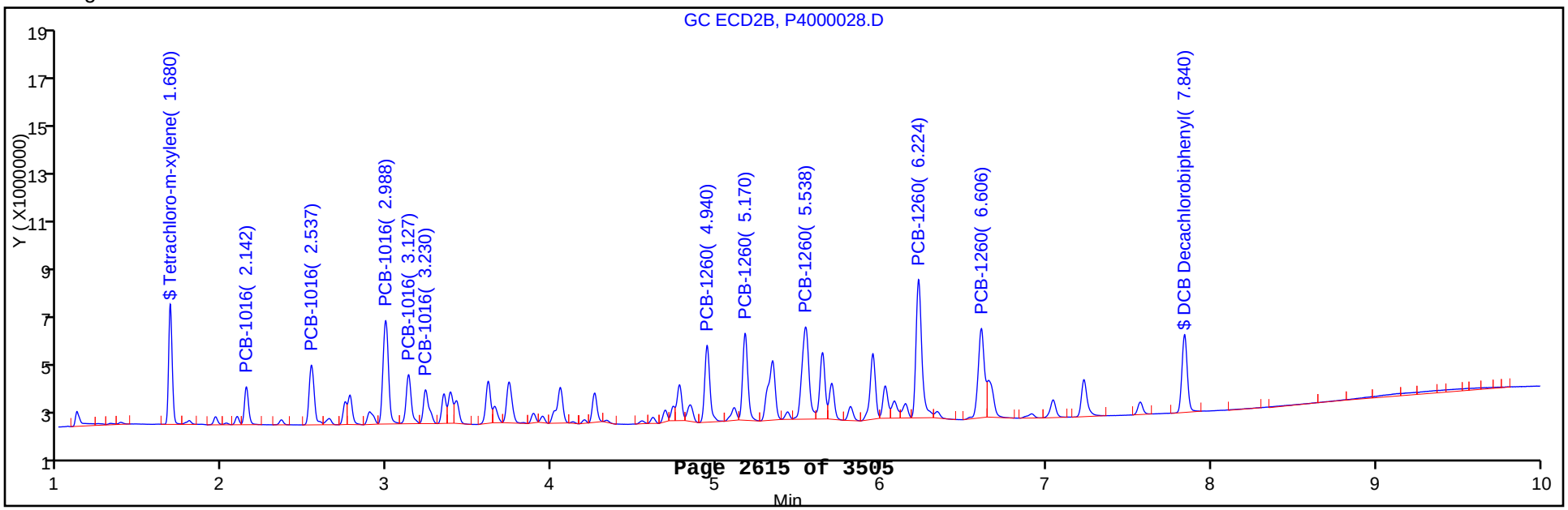
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000028.D

Injection Date:	15-Apr-2013 06:13:58	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	28
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000029.D
Lims ID: STD02 1660 Client ID:
Inject. Date: 15-Apr-2013 06:29:38 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 240-0018824-029
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 29
Lims Batch ID: 81761 Lims Sample ID: 29
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:14 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:54:52

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	15523707	0.009803			
2	2	1.680	1.680	0.000	15242925	0.009661			
						RPD = 1.46			
6 PCB-1016									
1	100	1.542	1.542	0.000	5514637	0.2032		100.0	
1	2	1.824	1.824	0.000	9982648	0.2039	156.0- 206.0	181.0	
1	3	2.216	2.216	0.000	18604449	0.1991	312.4- 362.4	337.4	
1	4	2.336	2.336	0.000	8478740	0.2021	118.7- 188.7	153.7	
1	5	2.716	2.714	0.002	8307597	0.1959	125.6- 175.6	150.6	
			Average of Peak Amounts =			0.2008			
2	6	2.142	2.142	0.000	5169813	0.2016		100.0	
2	7	2.538	2.538	0.000	10319371	0.2033	169.6- 229.6	199.6	
2	8	2.989	2.989	0.000	19716766	0.1984	351.4- 411.4	381.4	
2	9	3.127	3.127	0.000	8855005	0.2012	141.3- 201.3	171.3	
2	10	3.231	3.230	0.001	6850895	0.2000	102.5- 162.5	132.5	
			Average of Peak Amounts =			0.2009			
						RPD = 0.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	12178388	0.1952		100.0	
1	2	4.199	4.199	0.000	21579410	0.1959	152.2- 202.2	177.2	
1	3	4.481	4.479	0.002	20876275	0.1939	146.4- 196.4	171.4	
1	4	5.180	5.178	0.002	25056847	0.1937	180.7- 230.7	205.7	
1	5	5.465	5.464	0.001	10851656	0.1863	64.1- 114.1	89.1	
			Average of Peak Amounts =			0.1930			
2	6	4.941	4.940	0.001	13065868	0.1899		100.0	
2	7	5.171	5.170	0.001	15359614	0.1924	87.6- 147.6	117.6	
2	8	5.539	5.539	0.000	22819912	0.1931	144.7- 204.7	174.7	
2	9	6.224	6.224	0.000	28442969	0.1951	187.7- 247.7	217.7	
2	10	6.605	6.604	0.001	18939171	0.1959	115.0- 175.0	145.0	
			Average of Peak Amounts =			0.1933			
						RPD = 0.15			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	13084050	0.009799			
2	2	7.838	7.839	-0.001	14188016	0.009740			
						RPD = 0.60			

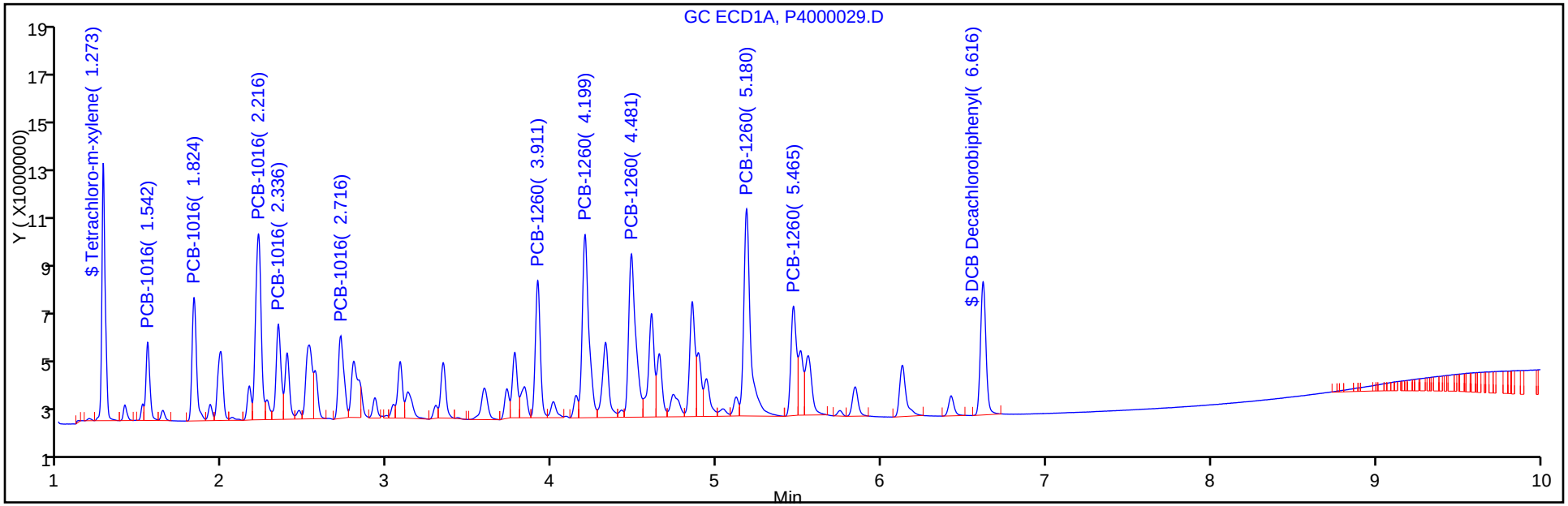
Report Date: 15-Apr-2013 13:05:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

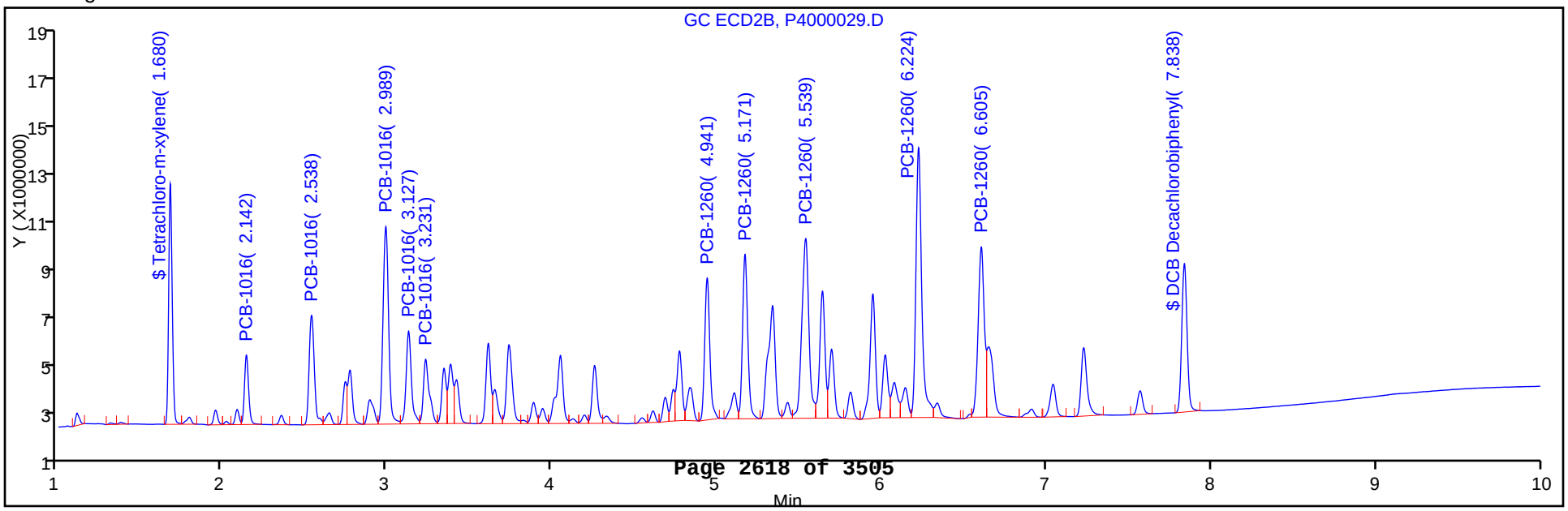
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000029.D

Injection Date:	15-Apr-2013 06:29:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	29
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000030.D
Lims ID: STD05 1660 Client ID:
Inject. Date: 15-Apr-2013 06:45:16 Dil. Factor: 1.0000
Sample Type: ICRT Calib Level: 4
Sample ID: 240-0018824-030
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 30
Lims Batch ID: 81761 Lims Sample ID: 30
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:16 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	39507071	0.0249			
2	2	1.680	1.680	0.000	39120759	0.0248			
						RPD = 0.62			
6 PCB-1016									
1	100	1.542	1.542	0.000	13291176	0.4898		100.0	
1	2	1.824	1.824	0.000	23992974	0.4900	156.0- 206.0	180.5	
1	3	2.216	2.216	0.000	47157584	0.5047	312.4- 362.4	354.8	
1	4	2.336	2.336	0.000	21284600	0.5072	118.7- 188.7	160.1	
1	5	2.714	2.714	0.000	21015587	0.4957	125.6- 175.6	158.1	
			Average of Peak Amounts =			0.4975			
2	6	2.142	2.142	0.000	12749014	0.4971		100.0	
2	7	2.538	2.538	0.000	25028120	0.4930	169.6- 229.6	196.3	
2	8	2.989	2.989	0.000	50068454	0.5038	351.4- 411.4	392.7	
2	9	3.127	3.127	0.000	21925738	0.4981	141.3- 201.3	172.0	
2	10	3.230	3.230	0.000	17315093	0.5055	102.5- 162.5	135.8	
			Average of Peak Amounts =			0.4995			
						RPD = 0.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	31124624	0.4988		100.0	
1	2	4.199	4.199	0.000	55160362	0.5009	152.2- 202.2	177.2	
1	3	4.479	4.479	0.000	54595602	0.5071	146.4- 196.4	175.4	
1	4	5.178	5.178	0.000	67776563	0.5239	180.7- 230.7	217.8	
1	5	5.464	5.464	0.000	30390497	0.5218	64.1- 114.1	97.6	
			Average of Peak Amounts =			0.5105			
2	6	4.940	4.940	0.000	34904658	0.5074		100.0	
2	7	5.170	5.170	0.000	40649954	0.5092	87.6- 147.6	116.5	
2	8	5.539	5.539	0.000	60632386	0.5131	144.7- 204.7	173.7	
2	9	6.224	6.224	0.000	75347283	0.5168	187.7- 247.7	215.9	
2	10	6.604	6.604	0.000	50809068	0.5256	115.0- 175.0	145.6	
			Average of Peak Amounts =			0.5144			
						RPD = 0.77			
$ 12 DCB Decachlorobiphenyl									
1	100	6.615	6.615	0.000	33154181	0.0248			
2	2	7.839	7.839	0.000	36003048	0.0247			
						RPD = 0.46			

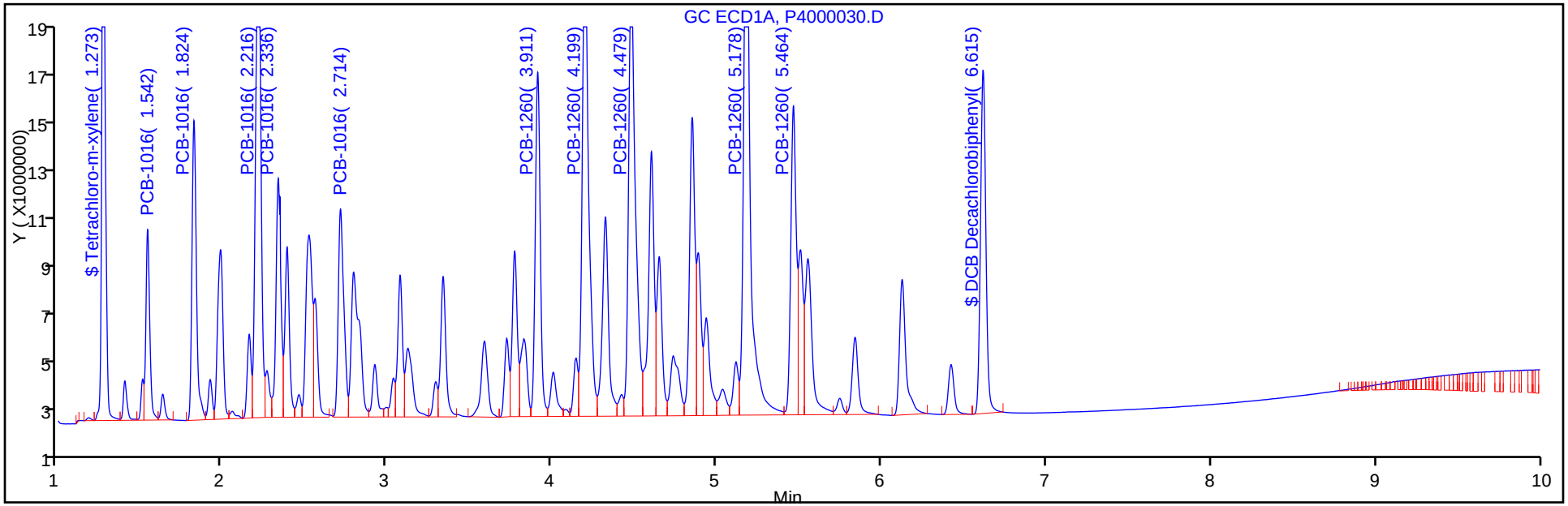
Report Date: 15-Apr-2013 13:05:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

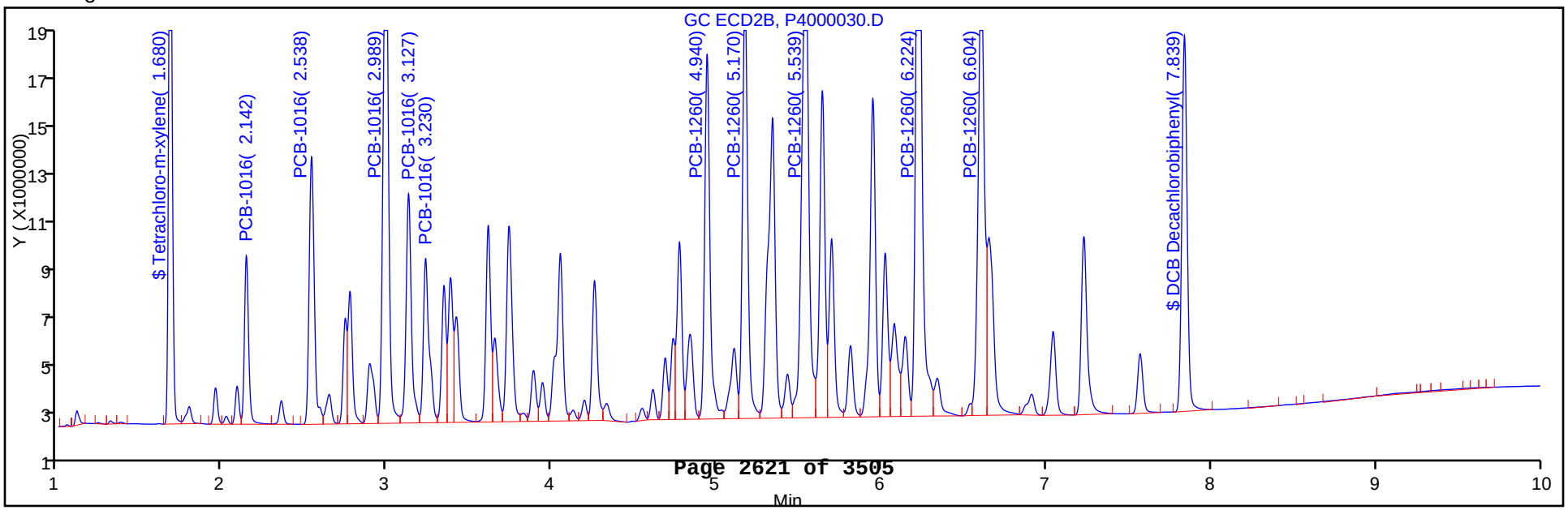
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000030.D

Injection Date:	15-Apr-2013 06:45:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	30
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000031.D
Lims ID: STD1 1660 Client ID:
Inject. Date: 15-Apr-2013 07:00:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: 240-0018824-031
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 31
Lims Batch ID: 81761 Lims Sample ID: 31
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:17 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 07:56:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.273	1.273	0.000	75430646	0.0476			
2	2	1.680	1.680	0.000	76080813	0.0482			
						RPD = 1.22			
6 PCB-1016									M
1	100	1.542	1.542	0.000	24260203	0.8940		100.0	
1	2	1.824	1.824	0.000	43493540	0.8882	156.0- 206.0	179.3	
1	3	2.216	2.216	0.000	89669755	0.9596	312.4- 362.4	369.6	
1	4	2.336	2.336	0.000	39524466	0.9419	118.7- 188.7	162.9	
1	5	2.714	2.714	0.000	39299859	0.9269	125.6- 175.6	162.0	
			Average of Peak Amounts =			0.9221			
2	6	2.142	2.142	0.000	23215264	0.9051		100.0	
2	7	2.538	2.538	0.000	46013267	0.9063	169.6- 229.6	198.2	M
2	8	2.990	2.989	0.001	95381388	0.9598	351.4- 411.4	410.9	M
2	9	3.127	3.127	0.000	41340948	0.9392	141.3- 201.3	178.1	M
2	10	3.231	3.230	0.001	32939242	0.9617	102.5- 162.5	141.9	M
			Average of Peak Amounts =			0.9344			
						RPD = 1.32			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.912	3.911	0.001	58486212	0.9373		100.0	
1	2	4.198	4.199	-0.001	103815872	0.9427	152.2- 202.2	177.5	
1	3	4.478	4.479	-0.001	104066785	0.9665	146.4- 196.4	177.9	
1	4	5.179	5.178	0.001	128178666	0.99	180.7- 230.7	219.2	
1	5	5.464	5.464	0.000	57763115	0.99	64.1- 114.1	98.8	
			Average of Peak Amounts =			0.9658			
2	6	4.941	4.940	0.001	66378031	0.9650		100.0	M
2	7	5.169	5.170	-0.001	76848773	0.9626	87.6- 147.6	115.8	M
2	8	5.538	5.539	-0.001	115078240	0.9738	144.7- 204.7	173.4	M
2	9	6.223	6.224	-0.001	142695180	0.9786	187.7- 247.7	215.0	M
2	10	6.604	6.604	0.000	98045225	1.01	115.0- 175.0	147.7	M
			Average of Peak Amounts =			0.9789			
						RPD = 1.35			
$ 12 DCB Decachlorobiphenyl									
1	100	6.616	6.615	0.001	60872720	0.0456			
2	2	7.838	7.839	-0.001	65480868	0.0450			
						RPD = 1.41			

QC Flag Legend

Review Flags
M - Manually Integrated

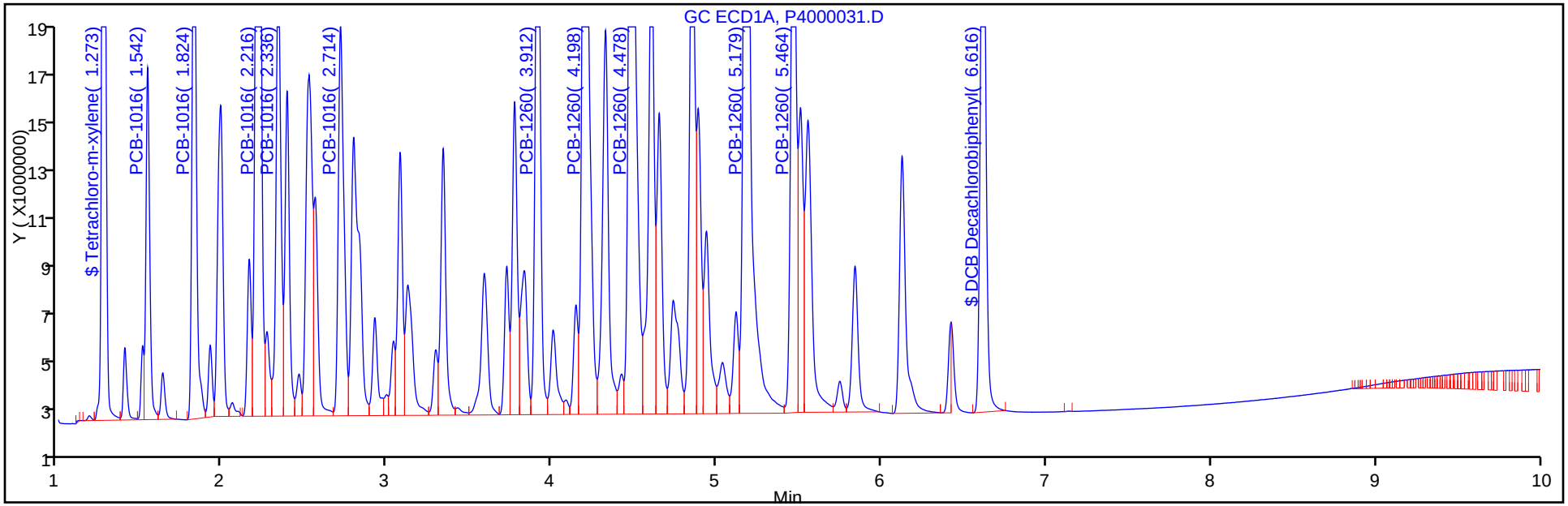
Report Date: 15-Apr-2013 13:05:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

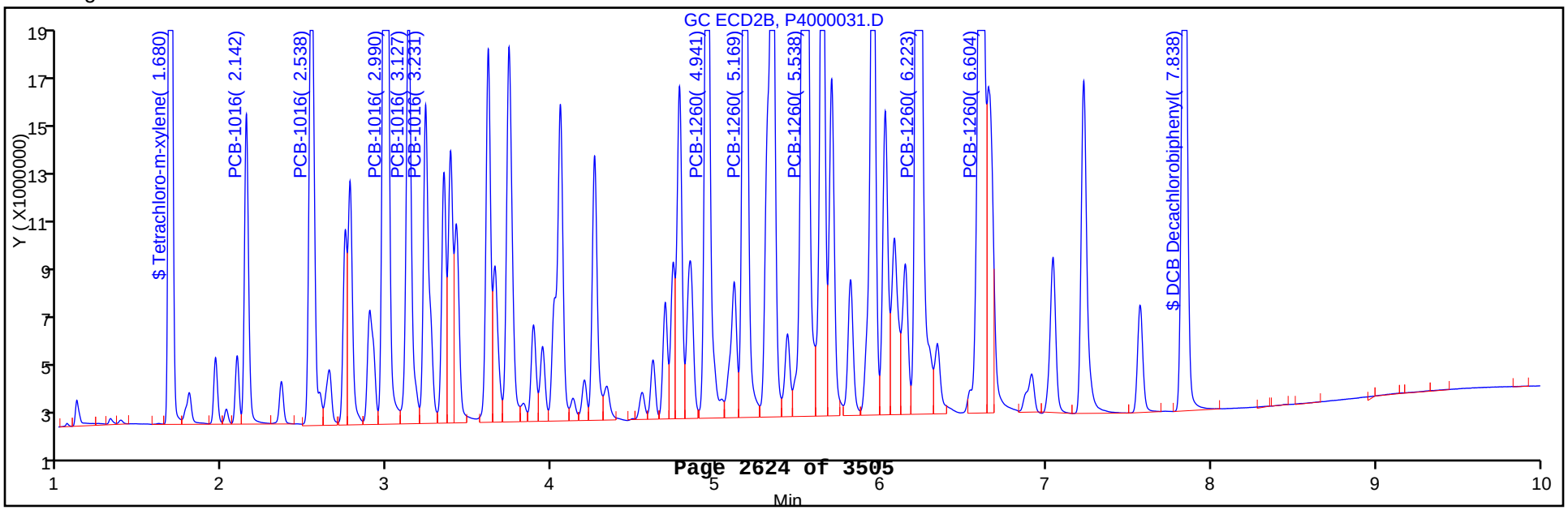
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000031.D

Injection Date:	15-Apr-2013 07:00:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



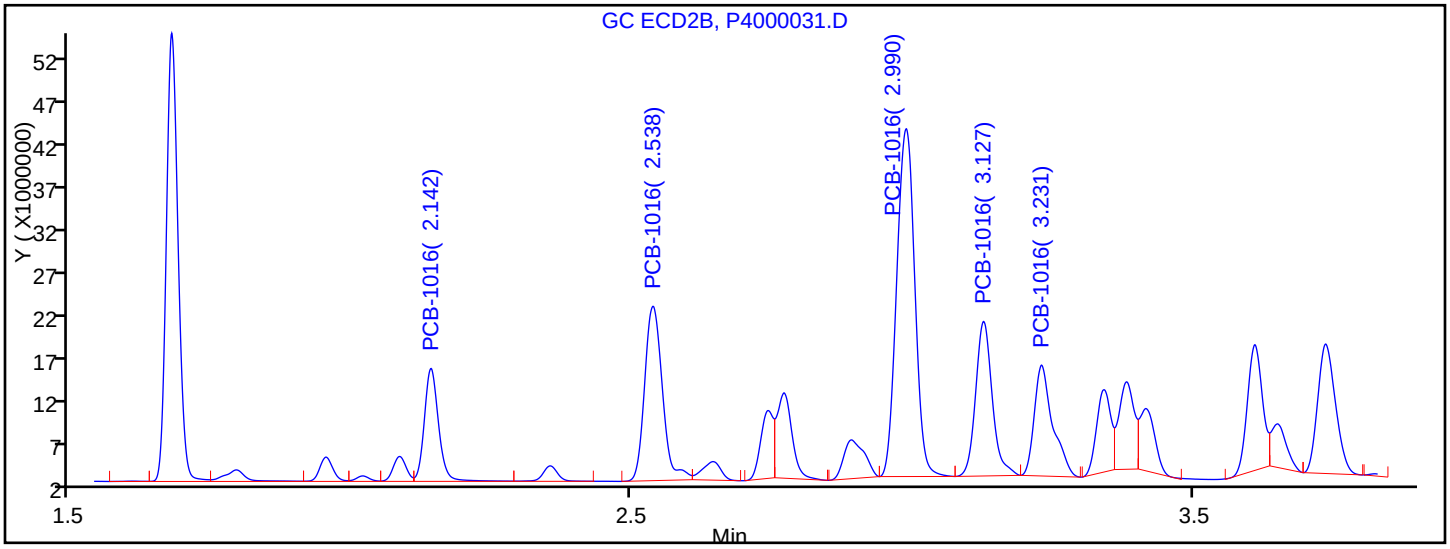
Report Date: 15-Apr-2013 13:05:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000031.D

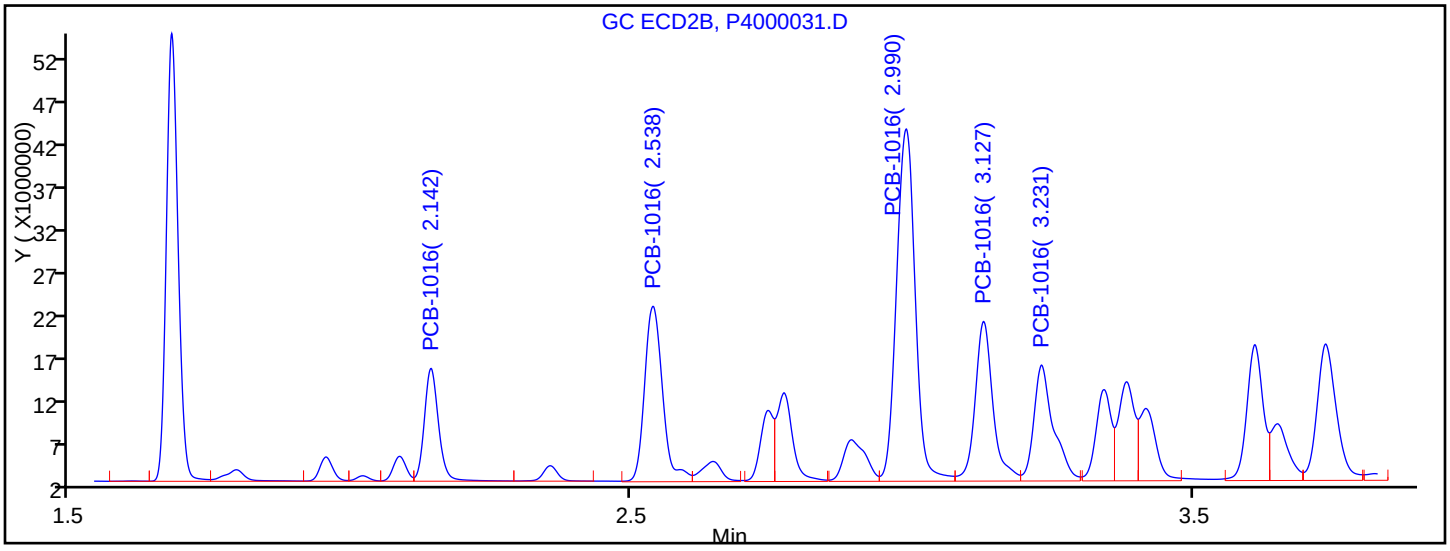
Injection Date:	15-Apr-2013 07:00:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 PCB-1016, Detector: 2, GC ecd2b



Processing Integration Results

RT = 2.142	Response = 23215264	
RT = 2.538	Response = 44820756	M
RT = 2.990	Response = 90805398	M
RT = 3.127	Response = 37001498	M
RT = 3.231	Response = 29315165	M



Manual Integration Results

RT = 2.142	Response = 23215264	
RT = 2.538	Response = 46013267	M
RT = 2.990	Response = 95381388	M
RT = 3.127	Response = 41340948	M
RT = 3.231	Response = 32939242	M

Reviewer: hassl, 15-Apr-2013 07:56:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

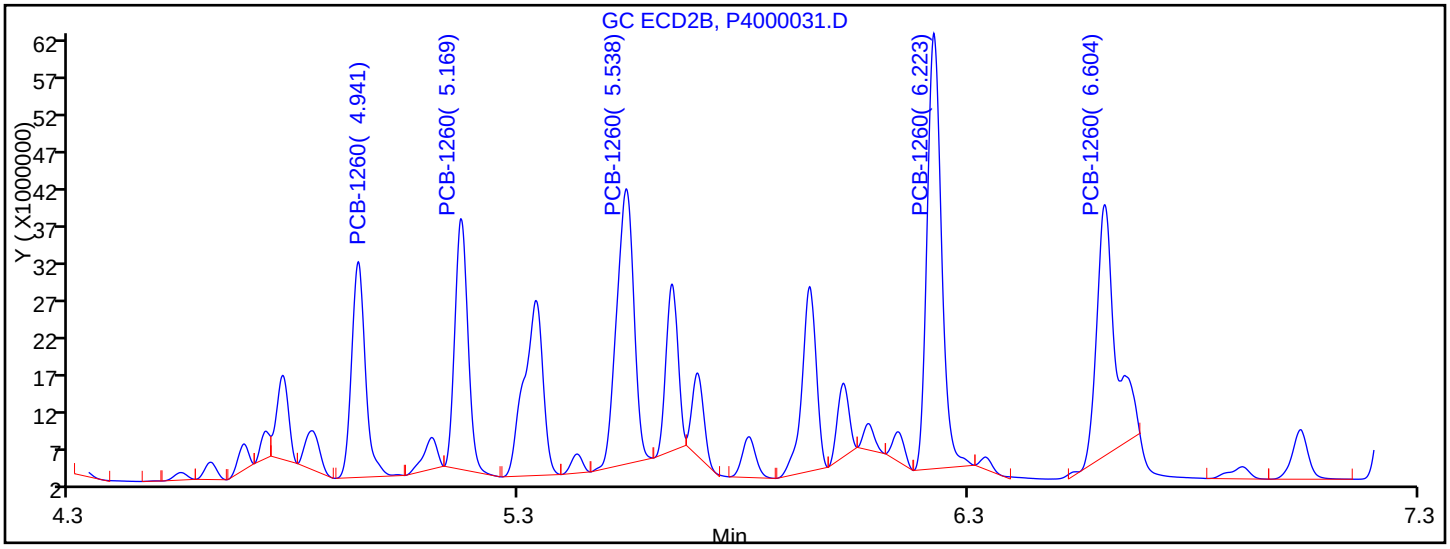
Report Date: 15-Apr-2013 13:05:19 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000031.D

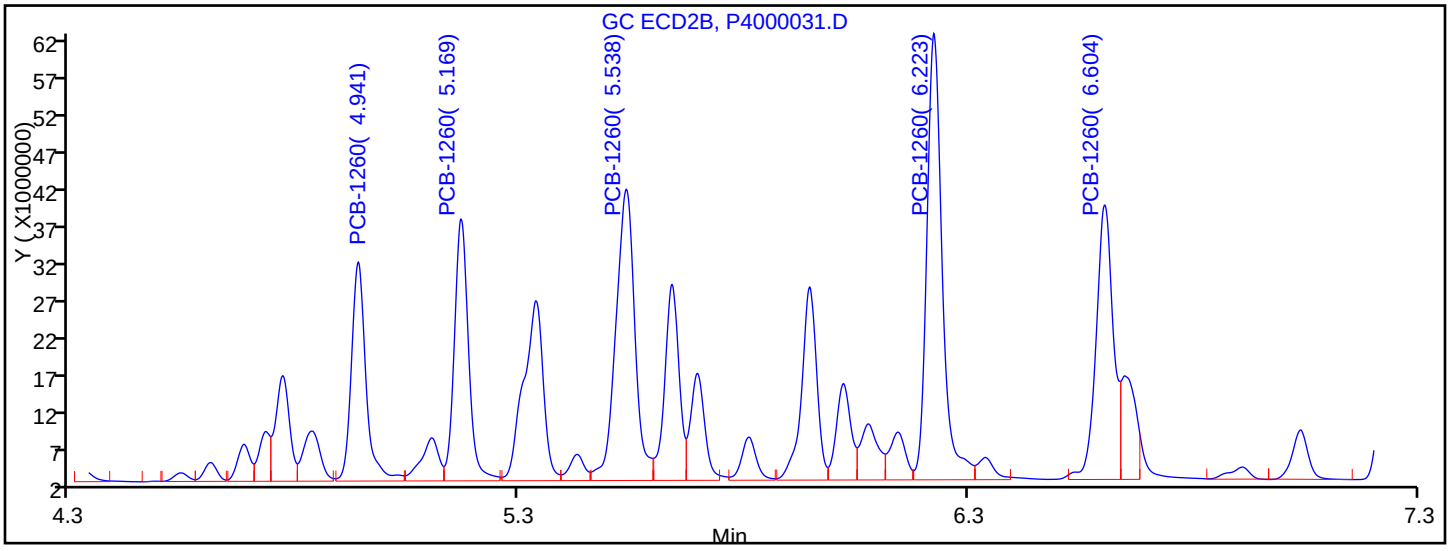
Injection Date:	15-Apr-2013 07:00:55	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	31
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.941	Response = 61726368	M
RT = 5.169	Response = 67866695	M
RT = 5.538	Response = 98241544	M
RT = 6.223	Response = 130007209	M
RT = 6.604	Response = 98667352	M



Manual Integration Results

RT = 4.941	Response = 66378031	M
RT = 5.169	Response = 76848773	M
RT = 5.538	Response = 115078240	M
RT = 6.223	Response = 142695180	M
RT = 6.604	Response = 98045225	M

Reviewer: hassl, 15-Apr-2013 07:56:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000032.D
Lims ID: STD2 1660 Client ID:
Inject. Date: 15-Apr-2013 07:16:36 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: 240-0018824-032
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 32
Lims Batch ID: 81761 Lims Sample ID: 32
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:19 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.274	1.273	0.001	139633124	0.0882			
2	2	1.680	1.680	0.000	144660958	0.0917			
						RPD = 3.90			
6 PCB-1016									
1	100	1.543	1.542	0.001	45467307	1.68		100.0	
1	2	1.824	1.824	0.000	81405825	1.66	156.0- 206.0	179.0	
1	3	2.215	2.216	-0.001	173782886	1.86	312.4- 362.4	382.2	
1	4	2.335	2.336	-0.001	76582147	1.83	118.7- 188.7	168.4	
1	5	2.714	2.714	0.000	76719668	1.81	125.6- 175.6	168.7	
			Average of Peak Amounts =			1.77			
2	6	2.142	2.142	0.000	43341046	1.69		100.0	
2	7	2.538	2.538	0.000	84639763	1.67	169.6- 229.6	195.3	
2	8	2.989	2.989	0.000	182329208	1.83	351.4- 411.4	420.7	
2	9	3.127	3.127	0.000	78363562	1.78	141.3- 201.3	180.8	
2	10	3.229	3.230	-0.001	62977595	1.84	102.5- 162.5	145.3	
			Average of Peak Amounts =			1.76			
						RPD = 0.25			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.911	3.911	0.000	113608262	1.82		100.0	
1	2	4.198	4.199	-0.001	201639590	1.83	152.2- 202.2	177.5	
1	3	4.478	4.479	-0.001	205014119	1.90	146.4- 196.4	180.5	
1	4	5.177	5.178	-0.001	252349773	1.95	180.7- 230.7	222.1	
1	5	5.463	5.464	-0.001	116579268	2.00	64.1- 114.1	102.6	
			Average of Peak Amounts =			1.90			
2	6	4.940	4.940	0.000	126295696	1.84		100.0	
2	7	5.169	5.170	-0.001	149487757	1.87	87.6- 147.6	118.4	
2	8	5.536	5.539	-0.003	225926327	1.91	144.7- 204.7	178.9	
2	9	6.223	6.224	-0.001	280614663	1.92	187.7- 247.7	222.2	
2	10	6.603	6.604	-0.001	192580448	1.99	115.0- 175.0	152.5	
			Average of Peak Amounts =			1.91			
						RPD = 0.31			
$ 12 DCB Decachlorobiphenyl									
1	100	6.615	6.615	0.000	115275771	0.0863			
2	2	7.838	7.839	-0.001	122400065	0.0840			
						RPD = 2.71			

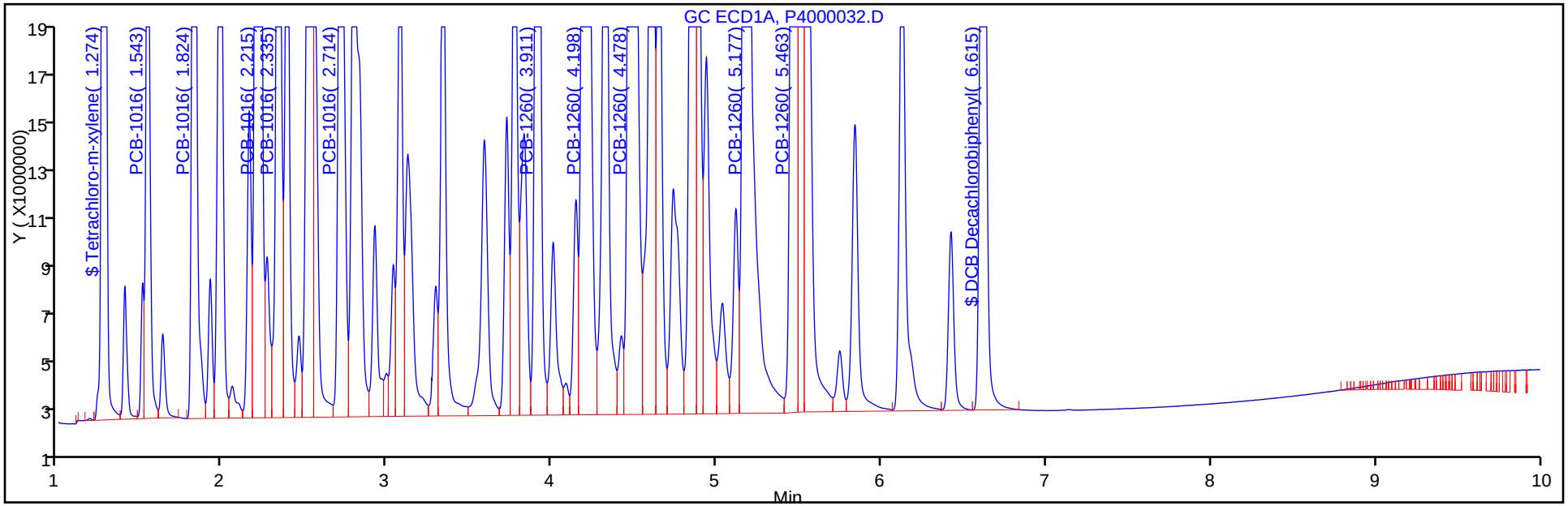
Report Date: 15-Apr-2013 13:05:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

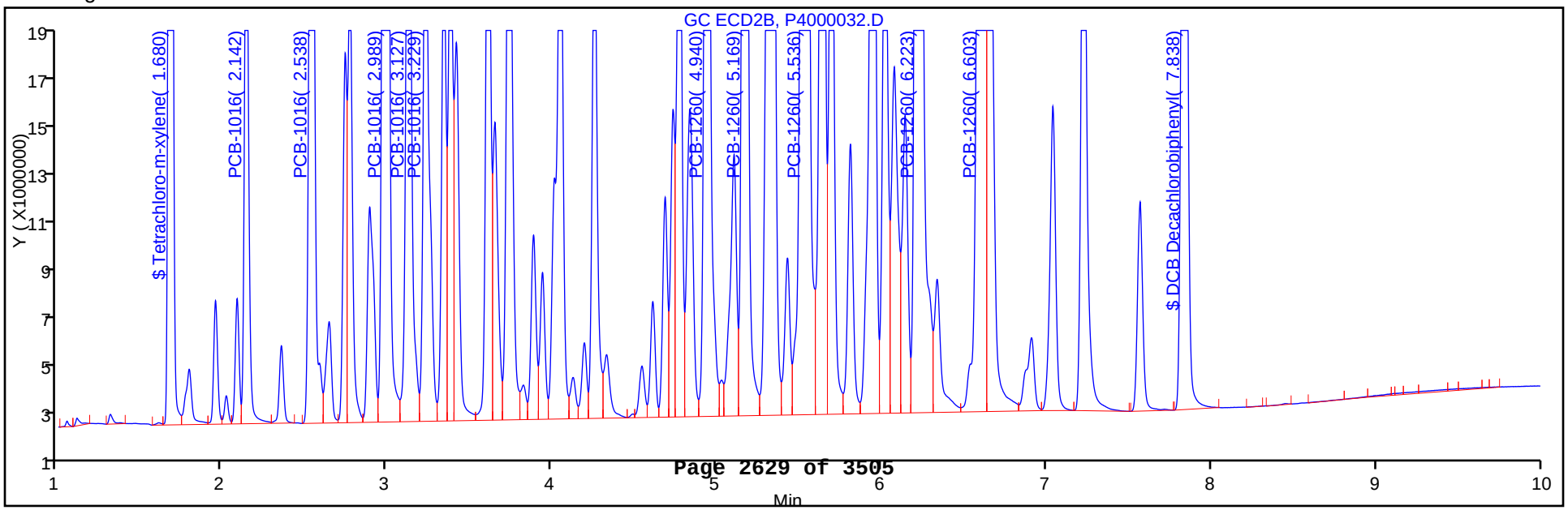
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000032.D

Injection Date:	15-Apr-2013 07:16:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	32
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/45 Calibration Date: 04/15/2013 10:40

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000045.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	14870794	16748823		1.13	1.00	12.6	20.0
PCB-1221 Peak 2	Ave	7388921	7821348		1.06	1.00	5.9	20.0
PCB-1221 Peak 3	Ave	37119964	41282468		1.11	1.00	11.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/45 Calibration Date: 04/15/2013 10:40

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000045.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.41	1.30	1.50
PCB-1221 Peak 2	1.51	1.41	1.61
PCB-1221 Peak 3	1.54	1.44	1.64

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000045.D
Lims ID: ICV 1221 Client ID:
Inject. Date: 15-Apr-2013 10:40:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-045
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 45
Lims Batch ID: 81761 Lims Sample ID: 45
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.405	1.404	0.001	16748823	1.13		100.0	
1	3	1.513	1.511	0.002	7821348	1.06	31.2- 81.2	46.7	
1	4	1.543	1.541	0.002	41282468	1.11	221.6- 271.6	246.5	
			Average of Peak Amounts =			1.10			
2	4	1.956	1.955	0.001	15676848	1.04		100.0	
2	5	2.087	2.085	0.002	10463119	1.10	34.7- 94.7	66.7	
2	6	2.143	2.141	0.002	39641482	1.12	206.7- 266.7	252.9	
			Average of Peak Amounts =			1.08			
						RPD = 1.38			

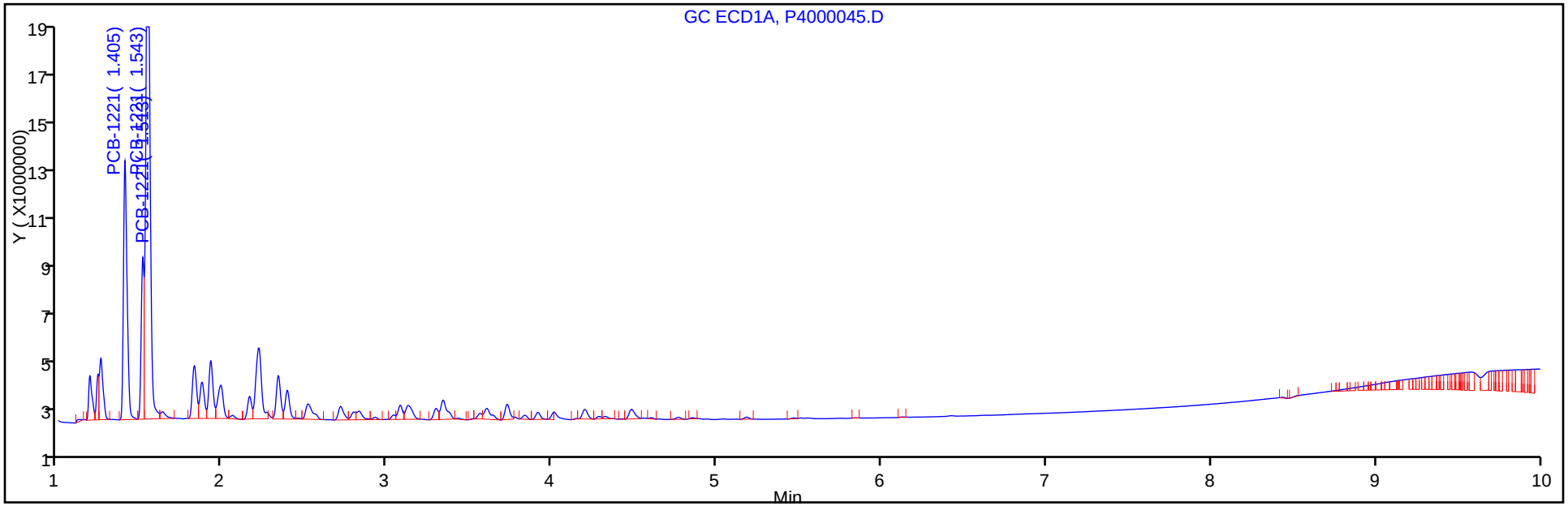
Report Date: 15-Apr-2013 13:05:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

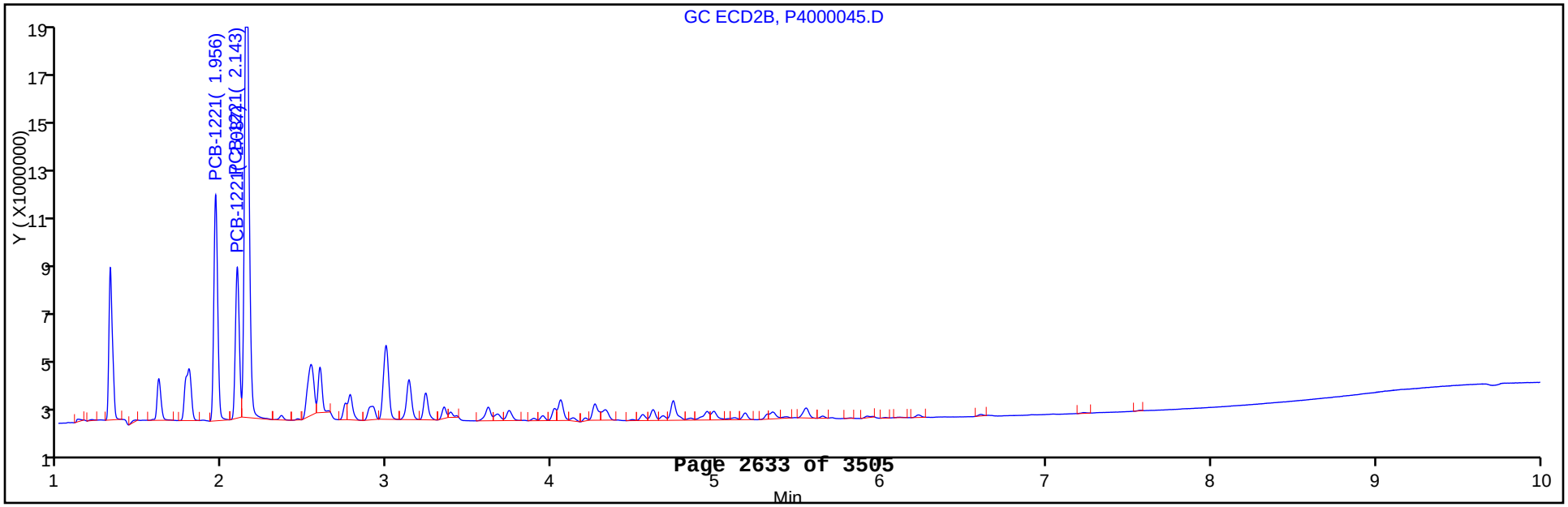
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000045.D

Injection Date:	15-Apr-2013 10:40:30	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	45
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/45 Calibration Date: 04/15/2013 10:40

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000045.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	15123834	15676848		1.04	1.00	3.7	20.0
PCB-1221 Peak 2	Ave	9554096	10463119		1.10	1.00	9.5	20.0
PCB-1221 Peak 3	Ave	35397504	39641482		1.12	1.00	12.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/45 Calibration Date: 04/15/2013 10:40

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000045.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.96	1.86	2.06
PCB-1221 Peak 2	2.09	1.99	2.19
PCB-1221 Peak 3	2.14	2.04	2.24

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000045.D
Lims ID: ICV 1221 Client ID:
Inject. Date: 15-Apr-2013 10:40:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-045
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 45
Lims Batch ID: 81761 Lims Sample ID: 45
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
3 PCB-1221									
1	2	1.405	1.404	0.001	16748823	1.13		100.0	
1	3	1.513	1.511	0.002	7821348	1.06	31.2- 81.2	46.7	
1	4	1.543	1.541	0.002	41282468	1.11	221.6- 271.6	246.5	
			Average of Peak Amounts =			1.10			
2	4	1.956	1.955	0.001	15676848	1.04		100.0	
2	5	2.087	2.085	0.002	10463119	1.10	34.7- 94.7	66.7	
2	6	2.143	2.141	0.002	39641482	1.12	206.7- 266.7	252.9	
			Average of Peak Amounts =			1.08			
						RPD = 1.38			

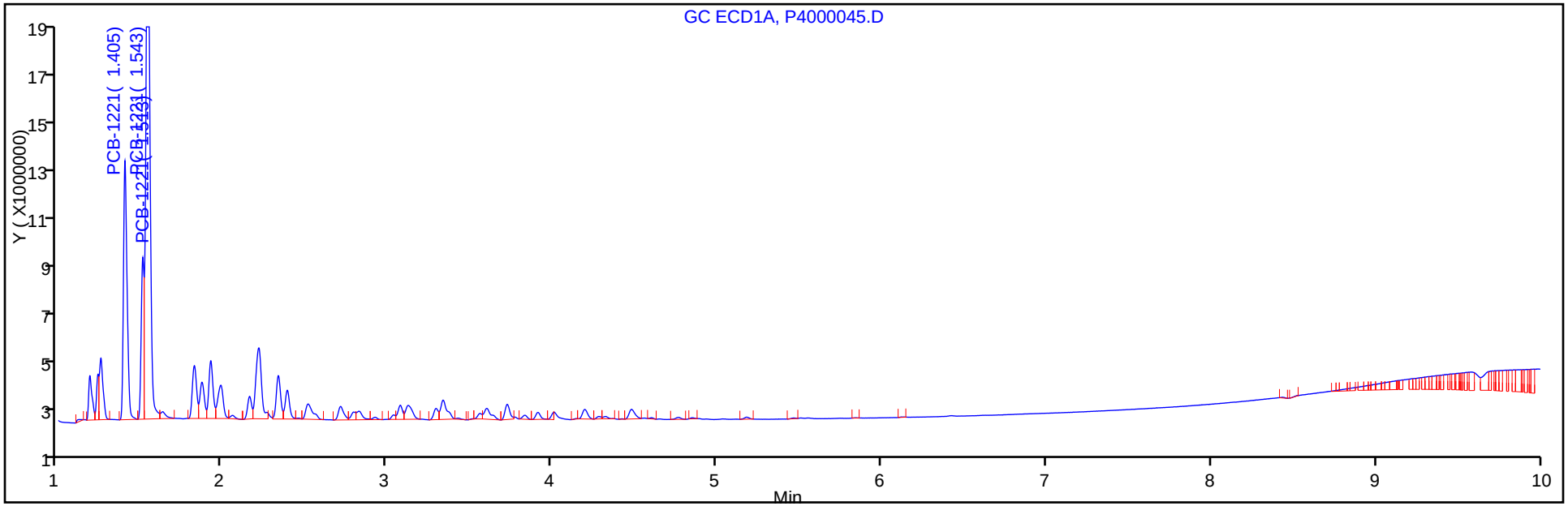
Report Date: 15-Apr-2013 13:05:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

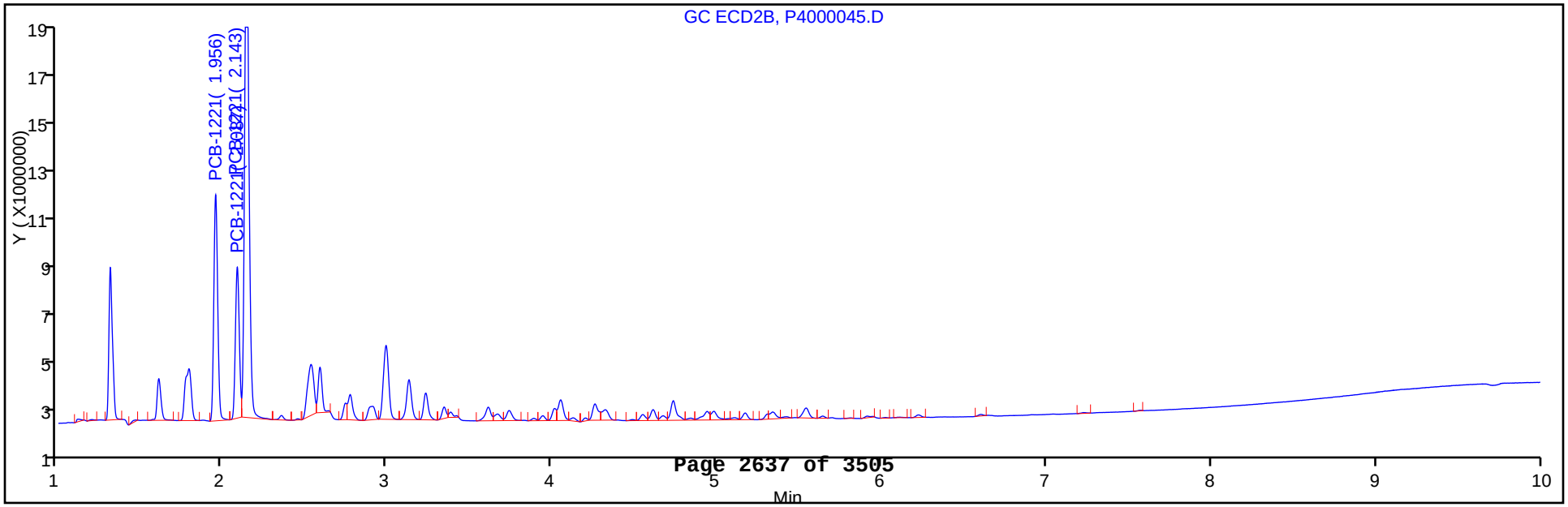
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000045.D

Injection Date:	15-Apr-2013 10:40:30	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	45
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/46 Calibration Date: 04/15/2013 10:56

Instrument ID: A2HP4 Calib Start Date: 04/14/2013 23:42

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 01:00

Lab File ID: P4000046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	29978183	27442395		0.915	1.00	-8.5	20.0
PCB-1232 Peak 2	Ave	21712646	22589117		1.04	1.00	4.0	20.0
PCB-1232 Peak 3	Ave	40373217	42831045		1.06	1.00	6.1	20.0
PCB-1232 Peak 4	Ave	17354451	18806706		1.08	1.00	8.4	20.0
PCB-1232 Peak 5	Ave	16203678	17521867		1.08	1.00	8.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/46 Calibration Date: 04/15/2013 10:56

Instrument ID: A2HP4 Calib Start Date: 04/14/2013 23:42

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 01:00

Lab File ID: P4000046.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.54	1.44	1.64
PCB-1232 Peak 2	1.82	1.72	1.92
PCB-1232 Peak 3	2.22	2.11	2.31
PCB-1232 Peak 4	2.34	2.23	2.43
PCB-1232 Peak 5	2.72	2.61	2.81

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000046.D
Lims ID: ICV 1232 Client ID:
Inject. Date: 15-Apr-2013 10:56:12 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-046
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 46
Lims Batch ID: 81761 Lims Sample ID: 46
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 12:48:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									M
1	100	1.542	1.538	0.004	27442395	0.9154		100.0	
1	2	1.824	1.820	0.004	22589117	1.04	51.4- 101.4	82.3	M
1	3	2.216	2.210	0.006	42831045	1.06	101.9- 151.9	156.1	M
1	4	2.337	2.330	0.007	18806706	1.08	30.8- 80.8	68.5	M
1	5	2.715	2.707	0.008	17521867	1.08	29.6- 79.6	63.8	M
			Average of Peak Amounts =			1.04			
2	6	2.142	2.136	0.006	26636470	0.9123		100.0	
2	7	2.538	2.531	0.007	22530121	0.9494	47.8- 107.8	84.6	
2	8	2.990	2.980	0.010	45287113	1.06	111.9- 171.9	170.0	
2	9	3.127	3.120	0.007	19863491	1.00	36.1- 96.1	74.6	
2	10	3.737	3.727	0.010	16648545	1.07	20.4- 80.4	62.5	
			Average of Peak Amounts =			1.00			
						RPD = 3.75			

QC Flag Legend

Review Flags
M - Manually Integrated

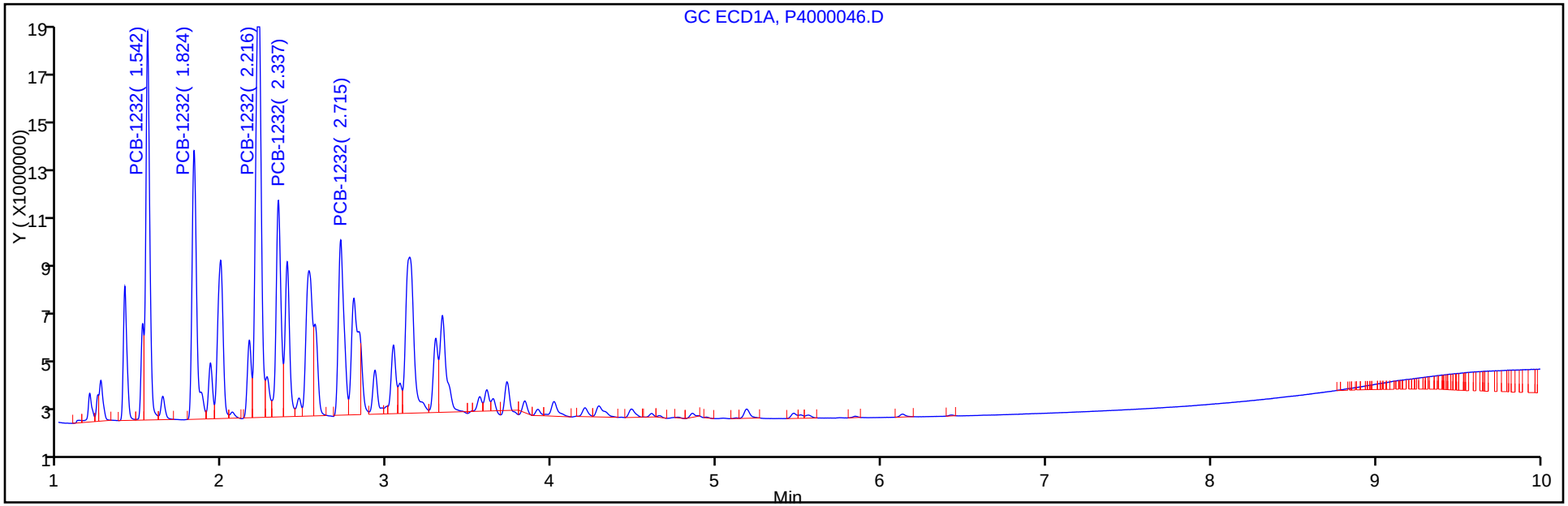
Report Date: 15-Apr-2013 13:05:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

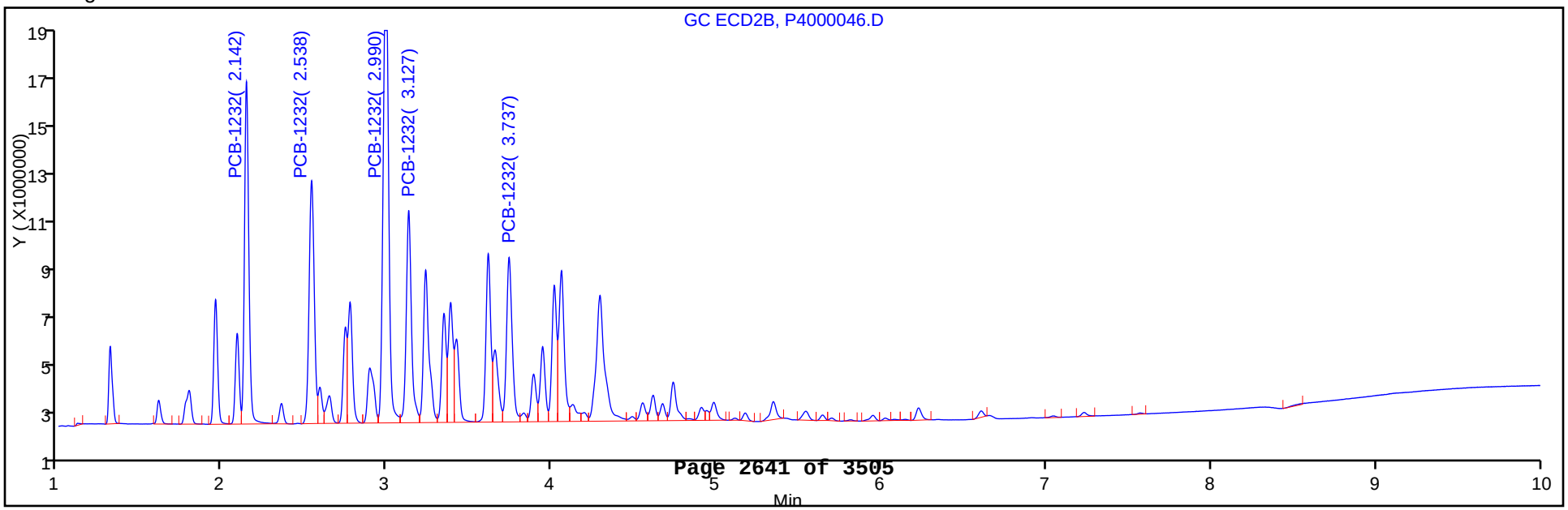
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000046.D

Injection Date:	15-Apr-2013 10:56:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



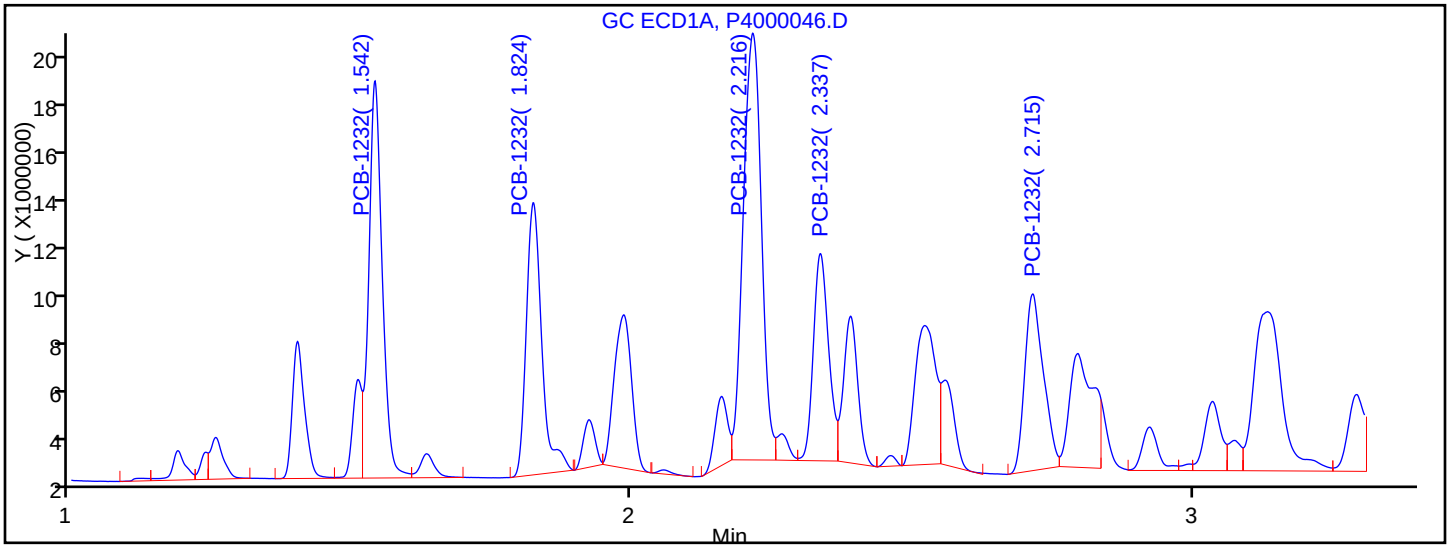
Report Date: 15-Apr-2013 13:05:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000046.D

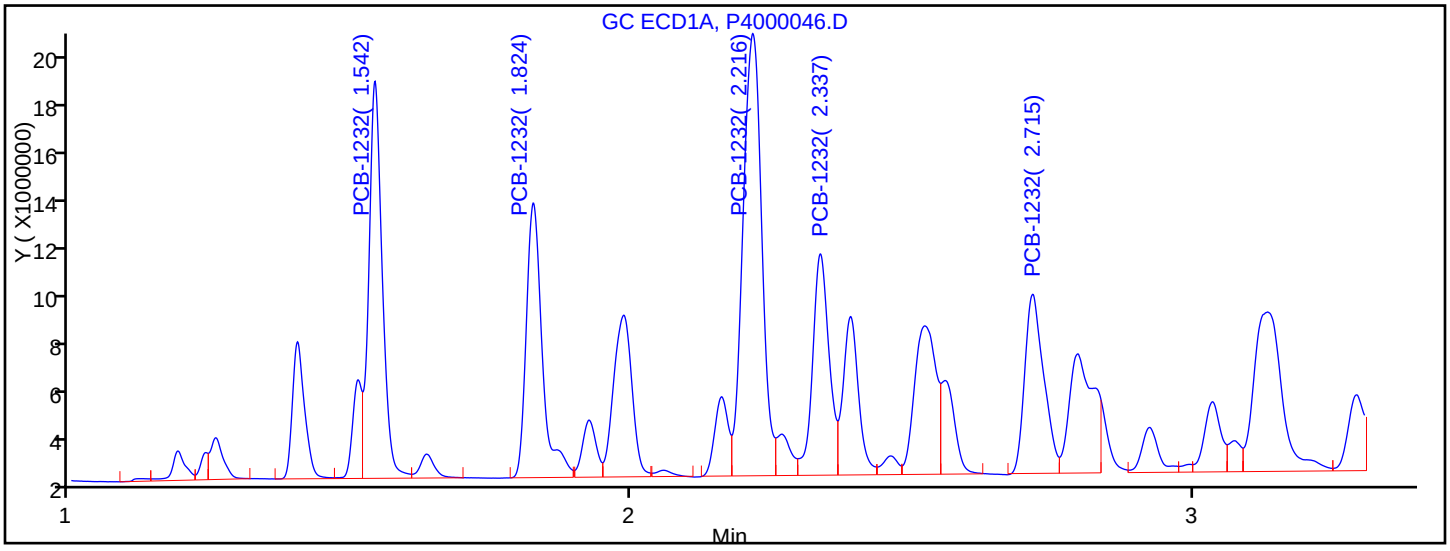
Injection Date:	15-Apr-2013 10:56:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

4 PCB-1232, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.542	Response = 27442395	
RT = 1.824	Response = 21651876	M
RT = 2.216	Response = 39814531	M
RT = 2.337	Response = 16291297	M
RT = 2.715	Response = 16928423	M



Manual Integration Results

RT = 1.542	Response = 27442395	
RT = 1.824	Response = 22589117	M
RT = 2.216	Response = 42831045	M
RT = 2.337	Response = 18806706	M
RT = 2.715	Response = 17521867	M

Reviewer: hassl, 15-Apr-2013 12:48:56

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/46 Calibration Date: 04/15/2013 10:56

Instrument ID: A2HP4 Calib Start Date: 04/14/2013 23:42

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 01:00

Lab File ID: P4000046.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	29198270	26636470		0.912	1.00	-8.8	20.0
PCB-1232 Peak 2	Ave	23730757	22530121		0.949	1.00	-5.1	20.0
PCB-1232 Peak 3	Ave	42551392	45287113		1.06	1.00	6.4	20.0
PCB-1232 Peak 4	Ave	19941651	19863491		0.996	1.00	-0.4	20.0
PCB-1232 Peak 5	Ave	15572828	16648545		1.07	1.00	6.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/46 Calibration Date: 04/15/2013 10:56

Instrument ID: A2HP4 Calib Start Date: 04/14/2013 23:42

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 01:00

Lab File ID: P4000046.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.14	2.04	2.24
PCB-1232 Peak 2	2.54	2.43	2.63
PCB-1232 Peak 3	2.99	2.88	3.08
PCB-1232 Peak 4	3.13	3.02	3.22
PCB-1232 Peak 5	3.74	3.63	3.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000046.D
Lims ID: ICV 1232 Client ID:
Inject. Date: 15-Apr-2013 10:56:12 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-046
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 46
Lims Batch ID: 81761 Lims Sample ID: 46
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 12:48:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									M
1	100	1.542	1.538	0.004	27442395	0.9154		100.0	
1	2	1.824	1.820	0.004	22589117	1.04	51.4- 101.4	82.3	M
1	3	2.216	2.210	0.006	42831045	1.06	101.9- 151.9	156.1	M
1	4	2.337	2.330	0.007	18806706	1.08	30.8- 80.8	68.5	M
1	5	2.715	2.707	0.008	17521867	1.08	29.6- 79.6	63.8	M
			Average of Peak Amounts =			1.04			
2	6	2.142	2.136	0.006	26636470	0.9123		100.0	
2	7	2.538	2.531	0.007	22530121	0.9494	47.8- 107.8	84.6	
2	8	2.990	2.980	0.010	45287113	1.06	111.9- 171.9	170.0	
2	9	3.127	3.120	0.007	19863491	1.00	36.1- 96.1	74.6	
2	10	3.737	3.727	0.010	16648545	1.07	20.4- 80.4	62.5	
			Average of Peak Amounts =			1.00			
						RPD = 3.75			

QC Flag Legend

Review Flags
M - Manually Integrated

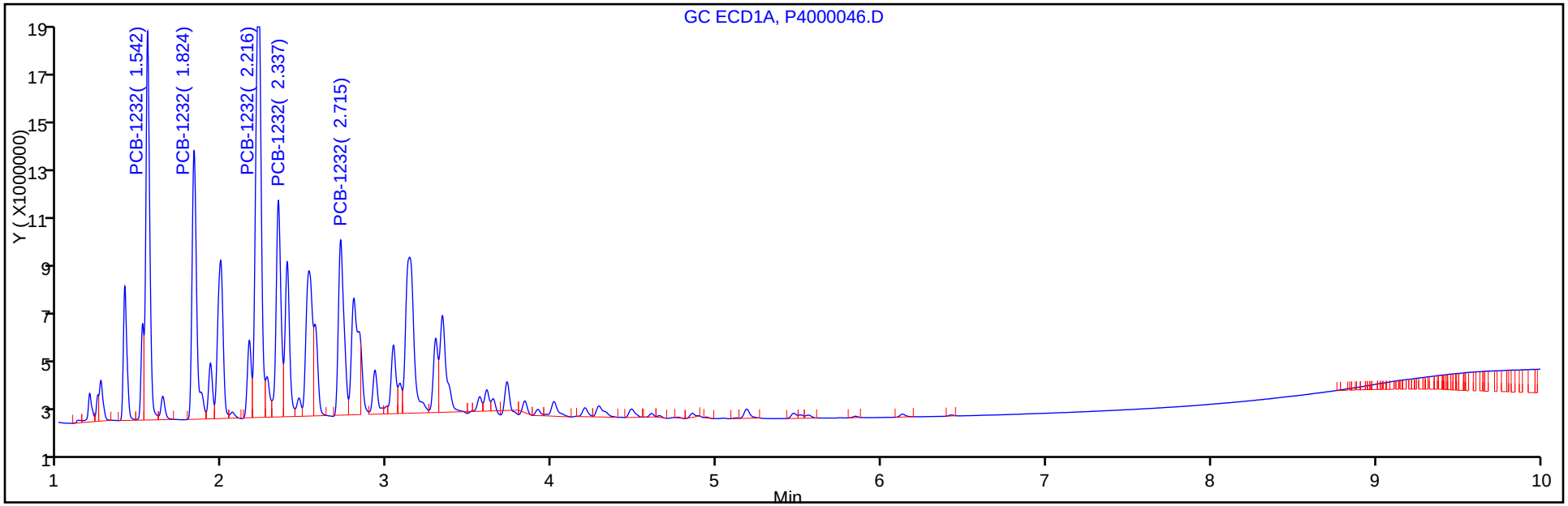
Report Date: 15-Apr-2013 13:05:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

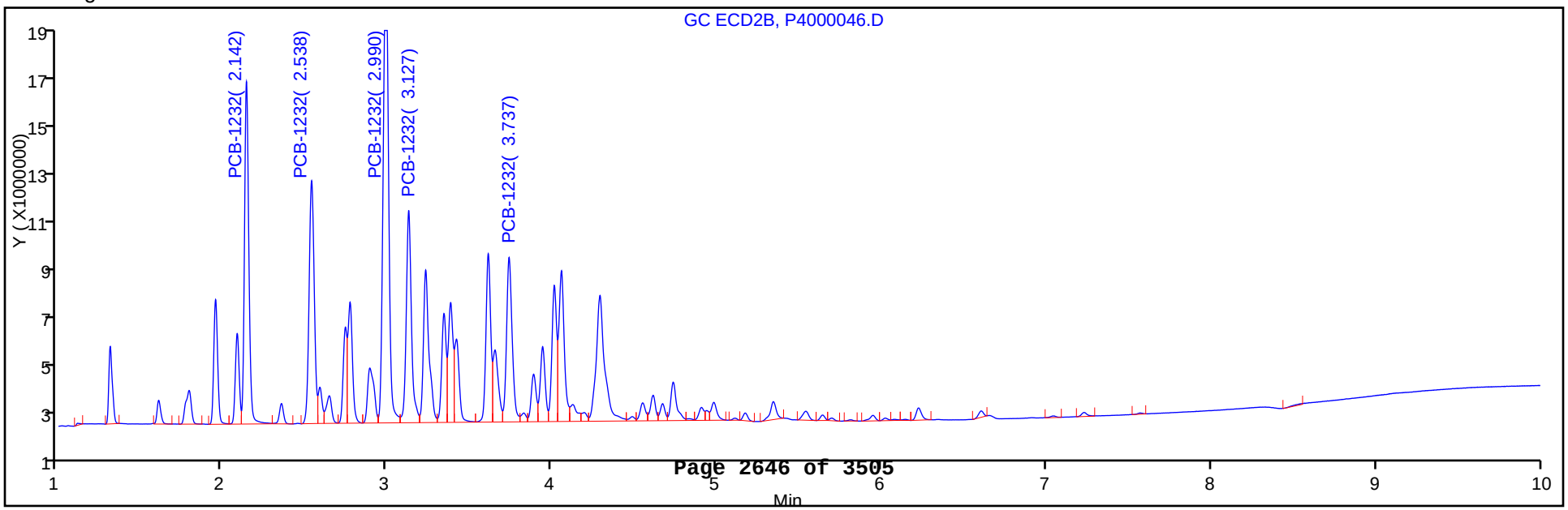
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000046.D

Injection Date:	15-Apr-2013 10:56:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	46
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/47 Calibration Date: 04/15/2013 11:11

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 01:16

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 02:34

Lab File ID: P4000047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	21575937	24747943		1.15	1.00	14.7	20.0
PCB-1242 Peak 2	Ave	40510464	45643145		1.13	1.00	12.7	20.0
PCB-1242 Peak 3	Ave	77805807	95275253		1.22	1.00	22.5*	20.0
PCB-1242 Peak 4	Ave	34187910	41994189		1.23	1.00	22.8*	20.0
PCB-1242 Peak 5	Ave	34332023	42904810		1.25	1.00	25.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/47 Calibration Date: 04/15/2013 11:11

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 01:16

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 02:34

Lab File ID: P4000047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	1.54	1.44	1.64
PCB-1242 Peak 2	1.83	1.72	1.92
PCB-1242 Peak 3	2.22	2.11	2.31
PCB-1242 Peak 4	2.34	2.23	2.43
PCB-1242 Peak 5	2.72	2.61	2.81

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000047.D
Lims ID: ICV 1242 Client ID:
Inject. Date: 15-Apr-2013 11:11:48 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-047
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 81761 Lims Sample ID: 47
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 12:49:18

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.543	1.540	0.003	24747943	1.15		100.0	
1	2	1.825	1.821	0.004	45643145	1.13	153.5- 203.5	184.4	
1	3	2.216	2.213	0.003	95275253	1.22	312.0- 362.0	385.0	M
1	4	2.336	2.333	0.003	41994189	1.23	127.3- 177.3	169.7	M
1	5	2.715	2.711	0.004	42904810	1.25	124.3- 174.3	173.4	M
			Average of Peak Amounts =			1.20			
2	6	2.143	2.140	0.003	24617687	1.14		100.0	
2	7	2.539	2.535	0.004	48411730	1.16	163.2- 223.2	196.7	
2	8	2.990	2.986	0.004	100232401	1.24	335.3- 395.3	407.2	
2	9	3.128	3.123	0.005	43540037	1.22	133.4- 193.4	176.9	
2	10	3.738	3.733	0.005	40996417	1.21	119.1- 179.1	166.5	
			Average of Peak Amounts =			1.20			
						RPD = 0.01			

QC Flag Legend

Review Flags
M - Manually Integrated

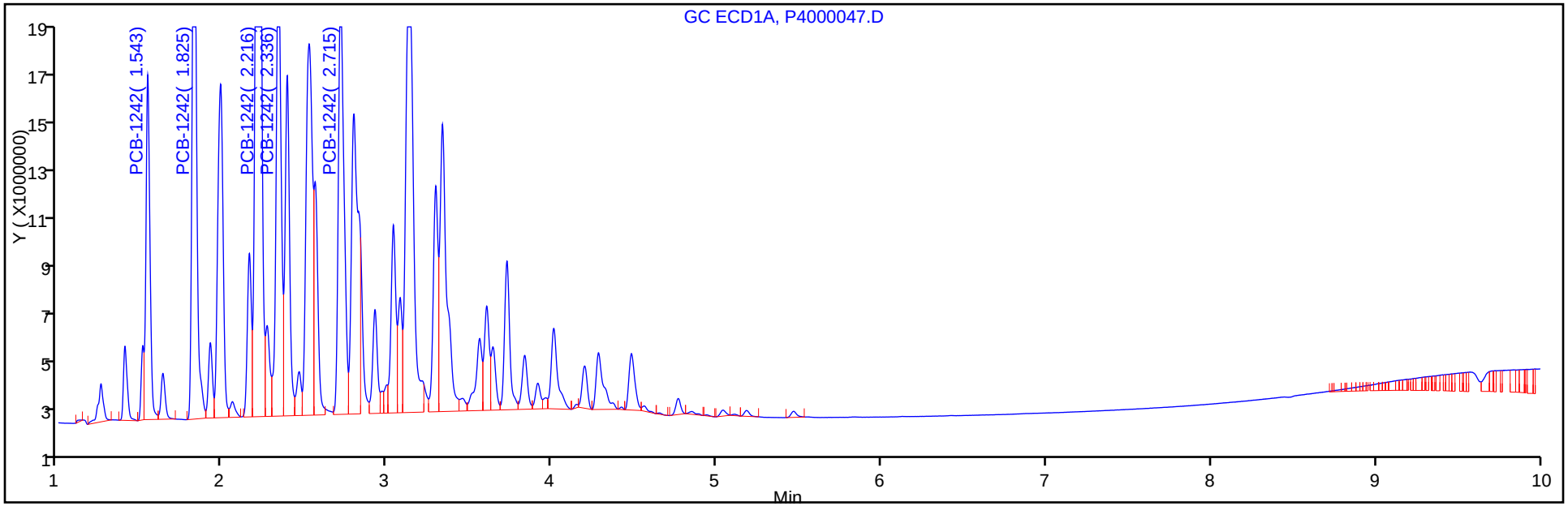
Report Date: 15-Apr-2013 13:05:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

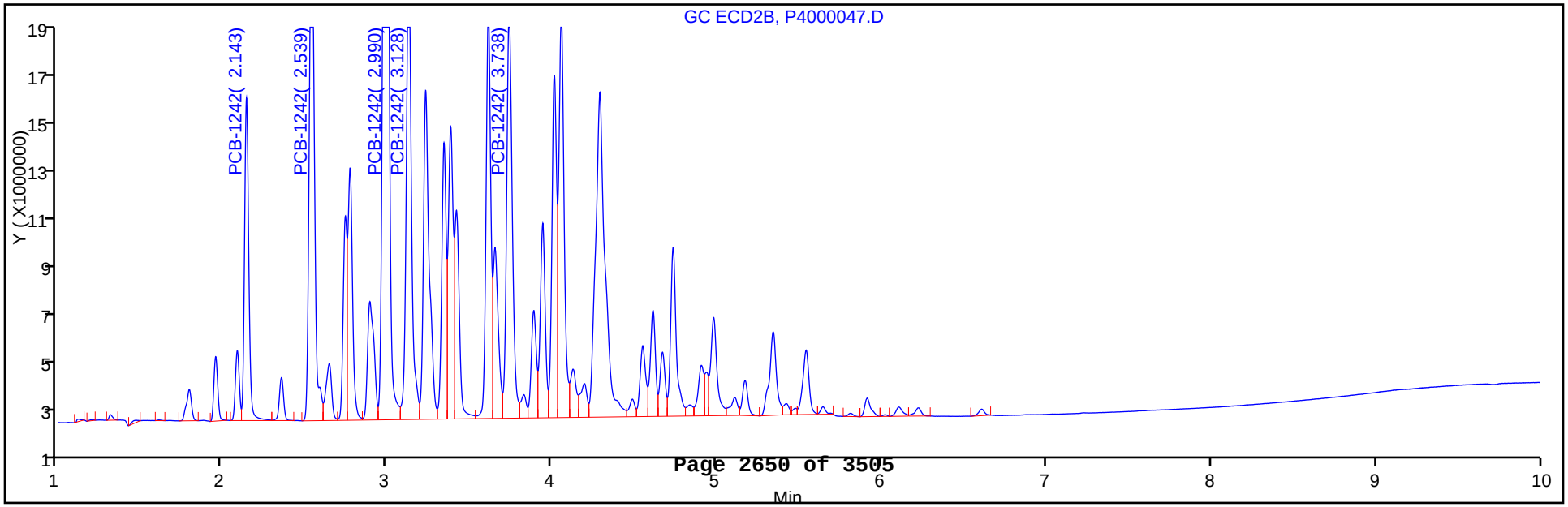
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000047.D

Injection Date:	15-Apr-2013 11:11:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



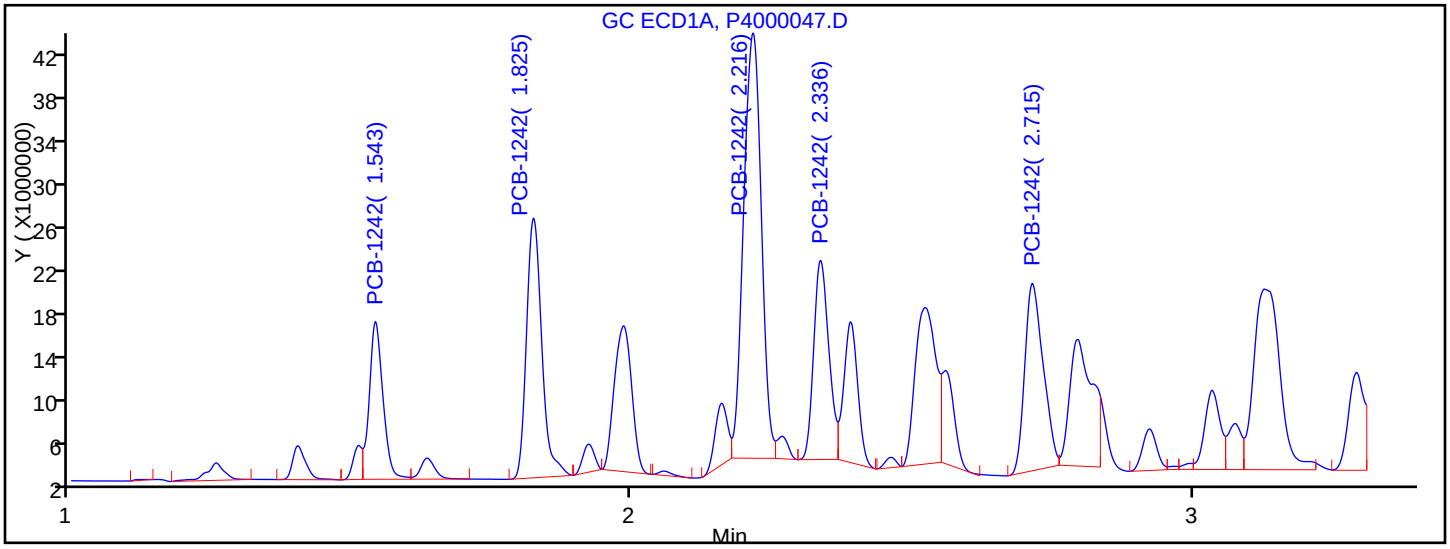
Report Date: 15-Apr-2013 13:05:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000047.D

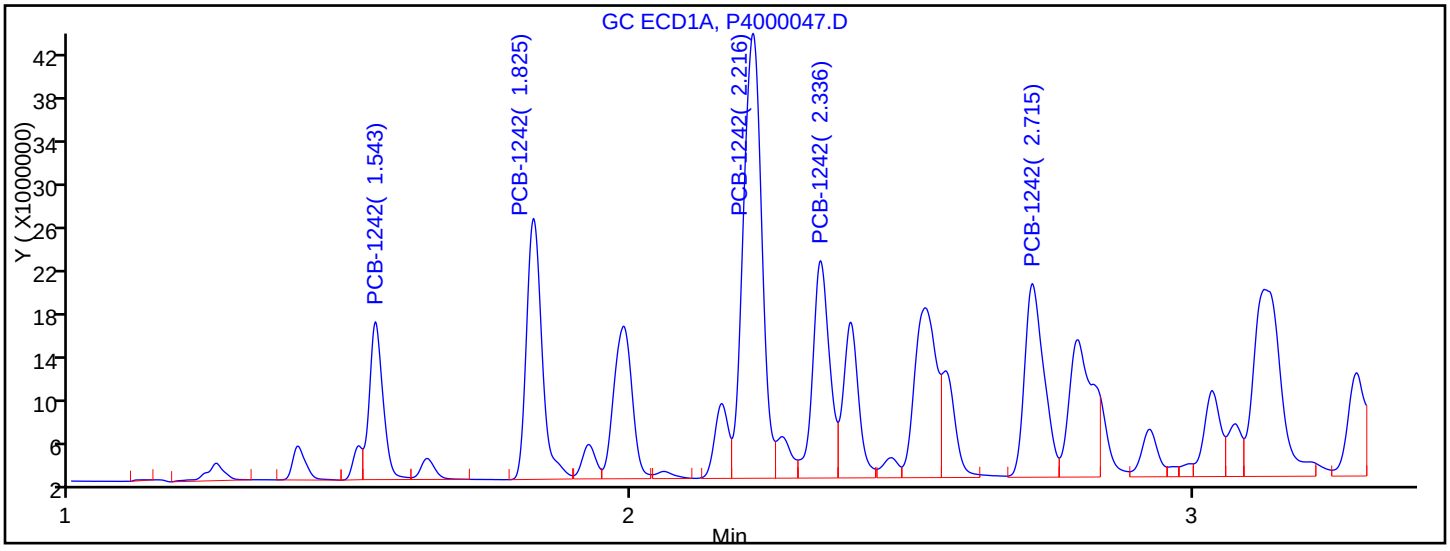
Injection Date:	15-Apr-2013 11:11:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 PCB-1242, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.543	Response = 24747943	
RT = 1.825	Response = 45643145	
RT = 2.216	Response = 86704719	M
RT = 2.336	Response = 34767424	M
RT = 2.715	Response = 39659812	M



Manual Integration Results

RT = 1.543	Response = 24747943	
RT = 1.825	Response = 45643145	
RT = 2.216	Response = 95275253	M
RT = 2.336	Response = 41994189	M
RT = 2.715	Response = 42904810	M

Reviewer: hassl, 15-Apr-2013 12:49:18

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/47 Calibration Date: 04/15/2013 11:11

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 01:16

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 02:34

Lab File ID: P4000047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	21570893	24617687		1.14	1.00	14.1	20.0
PCB-1242 Peak 2	Ave	41763029	48411730		1.16	1.00	15.9	20.0
PCB-1242 Peak 3	Ave	80578499	100232401		1.24	1.00	24.4*	20.0
PCB-1242 Peak 4	Ave	35716671	43540037		1.22	1.00	21.9*	20.0
PCB-1242 Peak 5	Ave	33777075	40996417		1.21	1.00	21.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/47 Calibration Date: 04/15/2013 11:11

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 01:16

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 02:34

Lab File ID: P4000047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.14	2.04	2.24
PCB-1242 Peak 2	2.54	2.44	2.64
PCB-1242 Peak 3	2.99	2.89	3.09
PCB-1242 Peak 4	3.13	3.02	3.22
PCB-1242 Peak 5	3.74	3.63	3.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000047.D
Lims ID: ICV 1242 Client ID:
Inject. Date: 15-Apr-2013 11:11:48 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-047
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 47
Lims Batch ID: 81761 Lims Sample ID: 47
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 12:49:18

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									M
1	100	1.543	1.540	0.003	24747943	1.15		100.0	
1	2	1.825	1.821	0.004	45643145	1.13	153.5- 203.5	184.4	
1	3	2.216	2.213	0.003	95275253	1.22	312.0- 362.0	385.0	M
1	4	2.336	2.333	0.003	41994189	1.23	127.3- 177.3	169.7	M
1	5	2.715	2.711	0.004	42904810	1.25	124.3- 174.3	173.4	M
			Average of Peak Amounts =			1.20			
2	6	2.143	2.140	0.003	24617687	1.14		100.0	
2	7	2.539	2.535	0.004	48411730	1.16	163.2- 223.2	196.7	
2	8	2.990	2.986	0.004	100232401	1.24	335.3- 395.3	407.2	
2	9	3.128	3.123	0.005	43540037	1.22	133.4- 193.4	176.9	
2	10	3.738	3.733	0.005	40996417	1.21	119.1- 179.1	166.5	
			Average of Peak Amounts =			1.20			
						RPD = 0.01			

QC Flag Legend

Review Flags
M - Manually Integrated

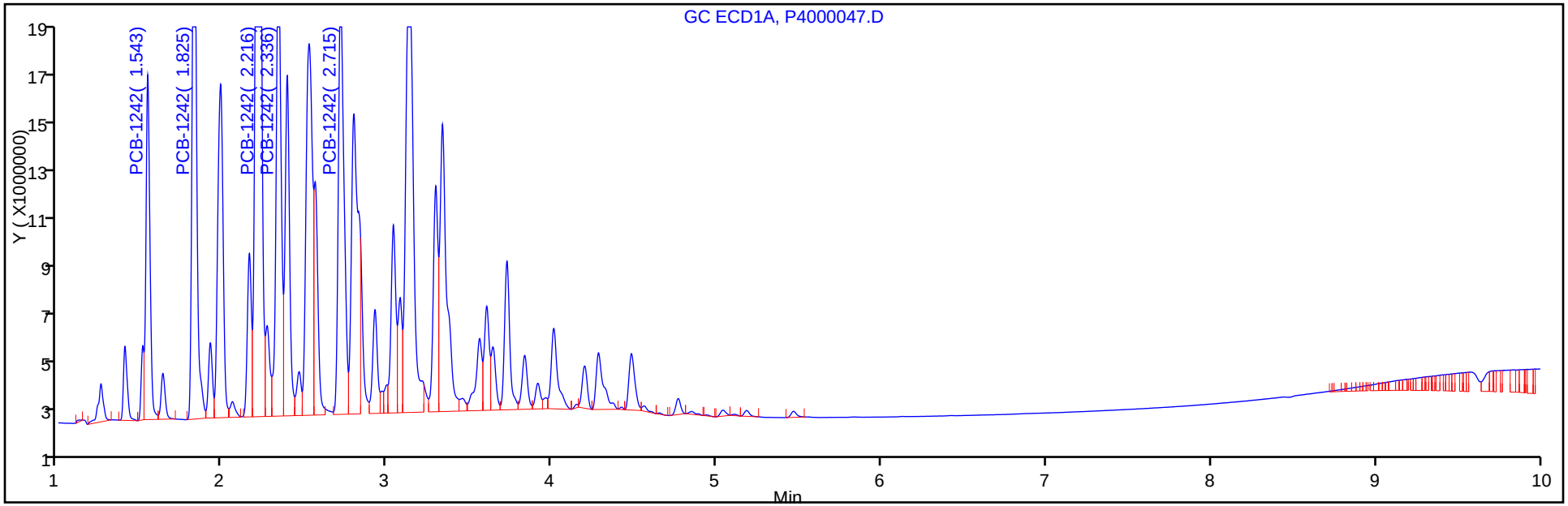
Report Date: 15-Apr-2013 13:05:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

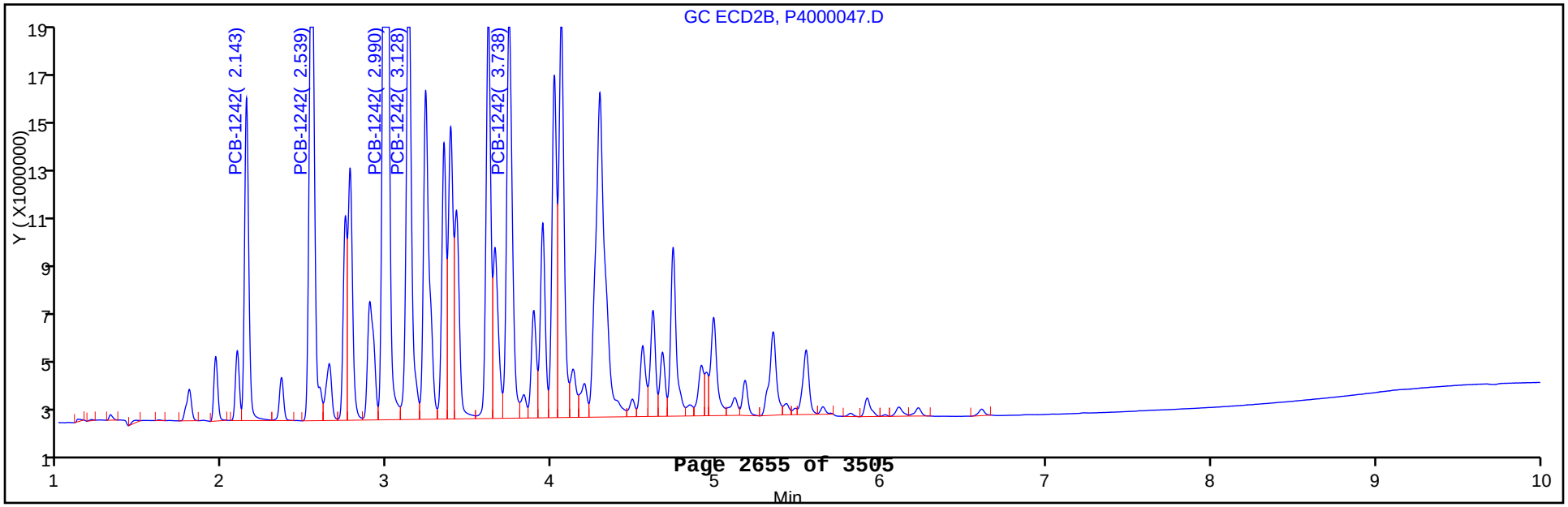
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000047.D

Injection Date:	15-Apr-2013 11:11:48	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	47
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/48 Calibration Date: 04/15/2013 11:27

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 02:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 04:08

Lab File ID: P4000048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	20160584	20562402		1.02	1.00	2.0	20.0
PCB-1248 Peak 2	Ave	48158449	50193124		1.04	1.00	4.2	20.0
PCB-1248 Peak 3	Ave	56628859	53219416		0.940	1.00	-6.0	20.0
PCB-1248 Peak 4	Ave	28315351	26978753		0.953	1.00	-4.7	20.0
PCB-1248 Peak 5	Ave	27487133	26790431		0.975	1.00	-2.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/48 Calibration Date: 04/15/2013 11:27

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 02:50

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 04:08

Lab File ID: P4000048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	1.82	1.72	1.92
PCB-1248 Peak 2	2.21	2.11	2.31
PCB-1248 Peak 3	2.71	2.61	2.81
PCB-1248 Peak 4	3.29	3.19	3.39
PCB-1248 Peak 5	3.72	3.62	3.82

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000048.D
Lims ID: ICV 1248 Client ID:
Inject. Date: 15-Apr-2013 11:27:29 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-048
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 48
Lims Batch ID: 81761 Lims Sample ID: 48
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.824	1.821	0.003	20562402	1.02		100.0	
1	2	2.214	2.210	0.004	50193124	1.04	186.1- 236.1	244.1	
1	3	2.714	2.711	0.003	53219416	0.9398	247.4- 297.4	258.8	
1	4	3.293	3.290	0.003	26978753	0.9528	106.3- 156.3	131.2	
1	5	3.724	3.721	0.003	26790431	0.9747	103.3- 153.3	130.3	
			Average of Peak Amounts =			0.9859			
2	6	2.537	2.532	0.005	21125438	1.03		100.0	
2	7	2.988	2.982	0.006	53189042	1.02	215.2- 275.2	251.8	
2	8	3.738	3.733	0.005	49083401	0.9156	225.9- 285.9	232.3	
2	9	4.013	4.008	0.005	41837362	0.9372	178.4- 238.4	198.0	
2	10	4.734	4.730	0.004	29203952	0.99	97.2- 157.2	138.2	
			Average of Peak Amounts =			0.9779			
						RPD = 0.81			

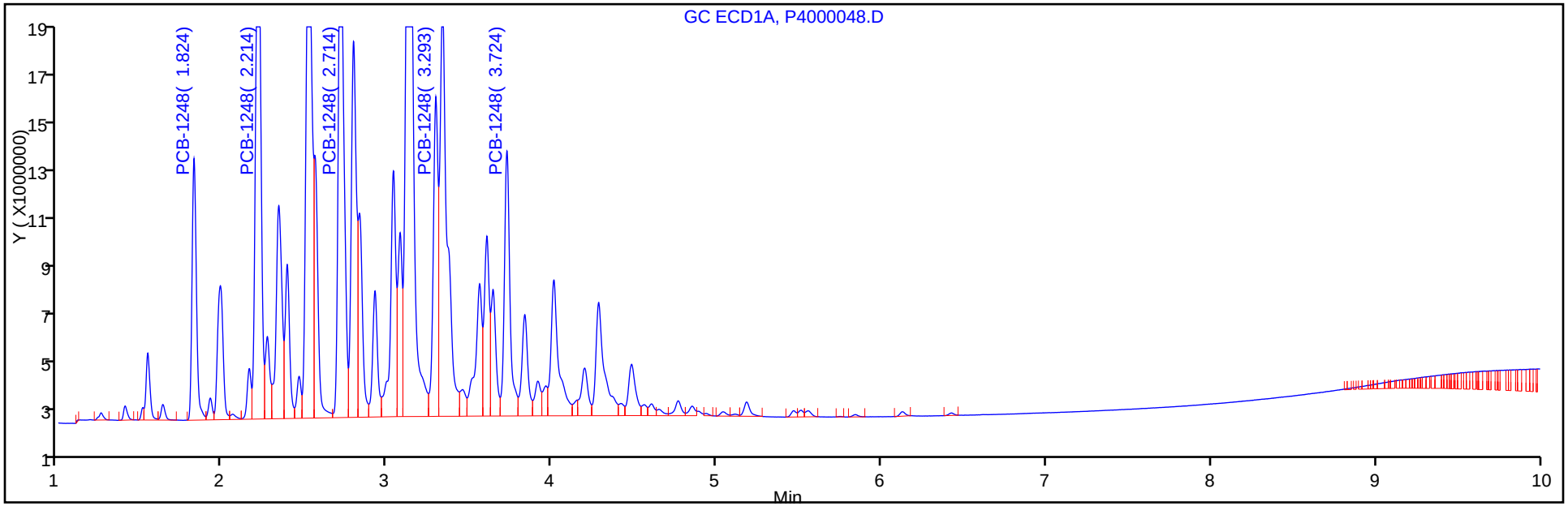
Report Date: 15-Apr-2013 13:05:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

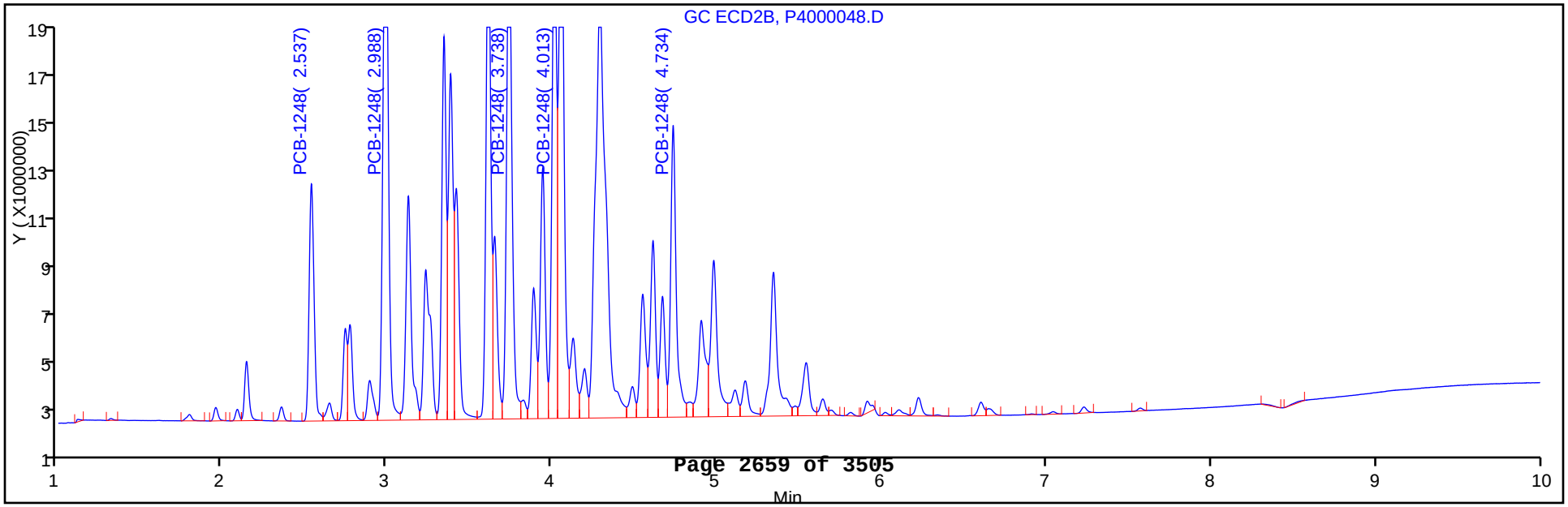
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000048.D

Injection Date:	15-Apr-2013 11:27:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/48 Calibration Date: 04/15/2013 11:27

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 02:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 04:08

Lab File ID: P4000048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	20551515	21125438		1.03	1.00	2.8	20.0
PCB-1248 Peak 2	Ave	52253640	53189042		1.02	1.00	1.8	20.0
PCB-1248 Peak 3	Ave	53606815	49083401		0.916	1.00	-8.4	20.0
PCB-1248 Peak 4	Ave	44641891	41837362		0.937	1.00	-6.3	20.0
PCB-1248 Peak 5	Ave	29470251	29203952		0.991	1.00	-0.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/48 Calibration Date: 04/15/2013 11:27

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 02:50

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 04:08

Lab File ID: P4000048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.54	2.43	2.63
PCB-1248 Peak 2	2.99	2.88	3.08
PCB-1248 Peak 3	3.74	3.63	3.83
PCB-1248 Peak 4	4.01	3.91	4.11
PCB-1248 Peak 5	4.73	4.63	4.83

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000048.D
Lims ID: ICV 1248 Client ID:
Inject. Date: 15-Apr-2013 11:27:29 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-048
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 48
Lims Batch ID: 81761 Lims Sample ID: 48
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
7 PCB-1248									
1	86	1.824	1.821	0.003	20562402	1.02		100.0	
1	2	2.214	2.210	0.004	50193124	1.04	186.1- 236.1	244.1	
1	3	2.714	2.711	0.003	53219416	0.9398	247.4- 297.4	258.8	
1	4	3.293	3.290	0.003	26978753	0.9528	106.3- 156.3	131.2	
1	5	3.724	3.721	0.003	26790431	0.9747	103.3- 153.3	130.3	
			Average of Peak Amounts =			0.9859			
2	6	2.537	2.532	0.005	21125438	1.03		100.0	
2	7	2.988	2.982	0.006	53189042	1.02	215.2- 275.2	251.8	
2	8	3.738	3.733	0.005	49083401	0.9156	225.9- 285.9	232.3	
2	9	4.013	4.008	0.005	41837362	0.9372	178.4- 238.4	198.0	
2	10	4.734	4.730	0.004	29203952	0.99	97.2- 157.2	138.2	
			Average of Peak Amounts =			0.9779			
						RPD = 0.81			

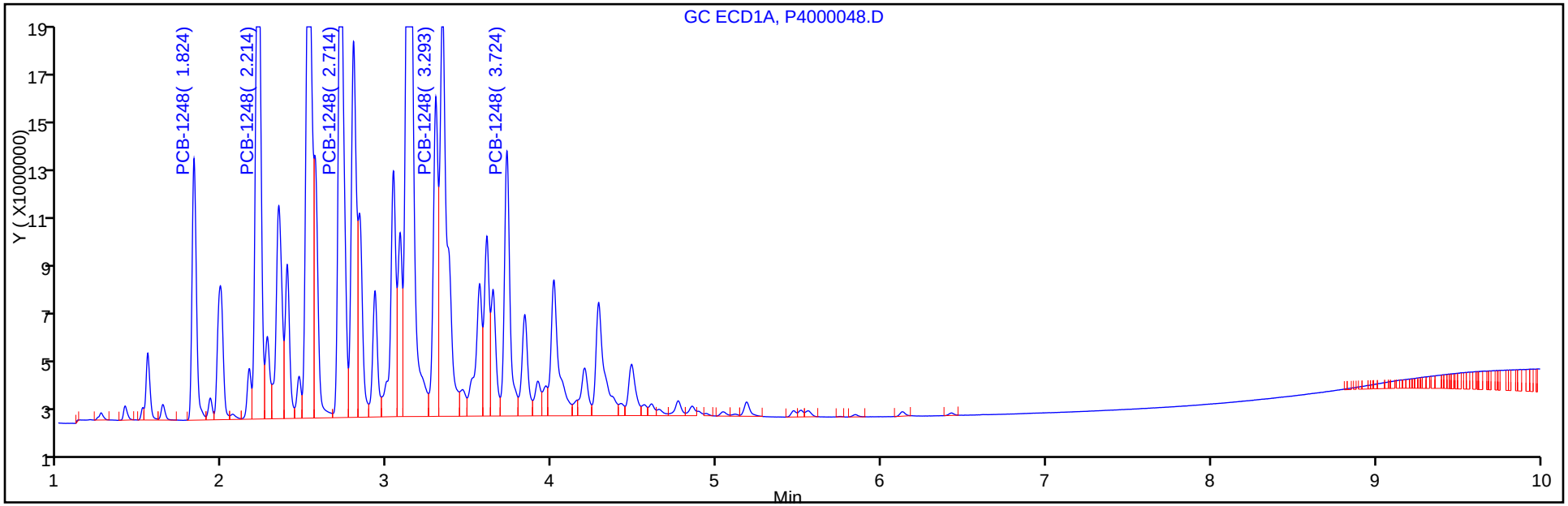
Report Date: 15-Apr-2013 13:05:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

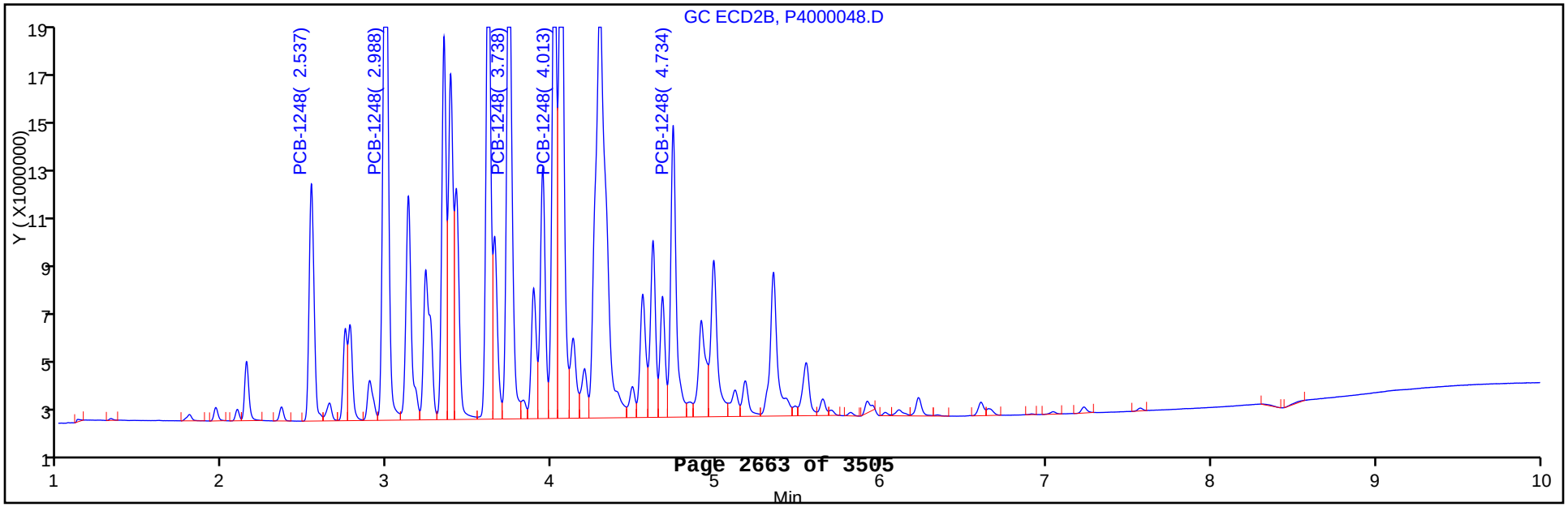
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000048.D

Injection Date:	15-Apr-2013 11:27:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	48
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/49 Calibration Date: 04/15/2013 11:43

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000049.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	78208442	78097433		0.999	1.00	-0.1	20.0
PCB-1254 Peak 2	Ave	84770184	83541523		0.986	1.00	-1.4	20.0
PCB-1254 Peak 3	Ave	55079569	58896469		1.07	1.00	6.9	20.0
PCB-1254 Peak 4	Ave	54281358	56491523		1.04	1.00	4.1	20.0
PCB-1254 Peak 5	Ave	78382214	82995143		1.06	1.00	5.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/49 Calibration Date: 04/15/2013 11:43

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000049.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	3.34	3.24	3.44
PCB-1254 Peak 2	3.73	3.62	3.82
PCB-1254 Peak 3	4.01	3.91	4.11
PCB-1254 Peak 4	4.20	4.10	4.30
PCB-1254 Peak 5	4.48	4.38	4.58

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000049.D
Lims ID: ICV 1254 Client ID:
Inject. Date: 15-Apr-2013 11:43:08 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-049
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 49
Lims Batch ID: 81761 Lims Sample ID: 49
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 12:50:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 PCB-1254									M
1	100	3.338	3.335	0.003	78097433	1.00		100.0	M
1	2	3.725	3.722	0.003	83541523	0.9855	82.1- 132.1	107.0	M
1	3	4.008	4.007	0.001	58896469	1.07	43.1- 93.1	75.4	M
1	4	4.196	4.195	0.001	56491523	1.04	43.7- 93.7	72.3	M
1	5	4.479	4.479	0.000	82995143	1.06	73.6- 123.6	106.3	M
			Average of Peak Amounts =			1.03			
2	6	4.256	4.255	0.001	54550020	0.9528		100.0	
2	7	4.734	4.732	0.002	86983237	0.9580	125.6- 185.6	159.5	
2	8	4.980	4.979	0.001	52880960	0.9599	62.4- 122.4	96.9	
2	9	5.339	5.338	0.001	64439018	1.06	43.9- 103.9	118.1	
2	10	5.540	5.540	0.000	87310642	1.02	115.2- 175.2	160.1	
			Average of Peak Amounts =			0.99			
						RPD = 3.91			

QC Flag Legend

Review Flags
M - Manually Integrated

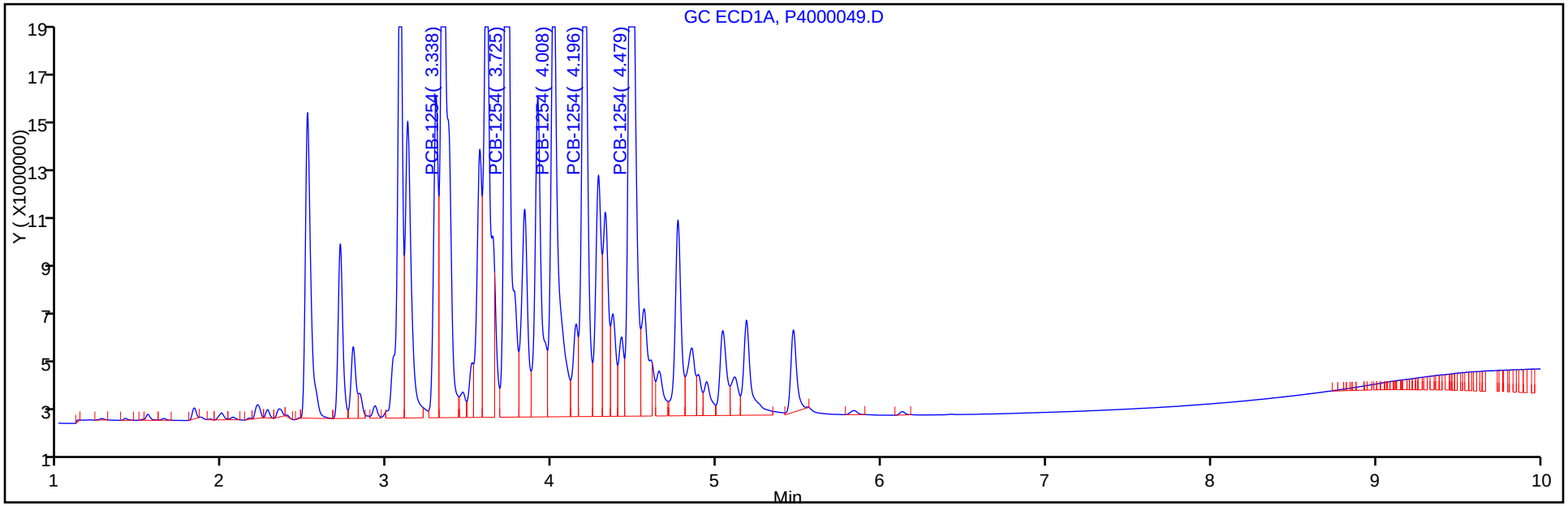
Report Date: 15-Apr-2013 13:05:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

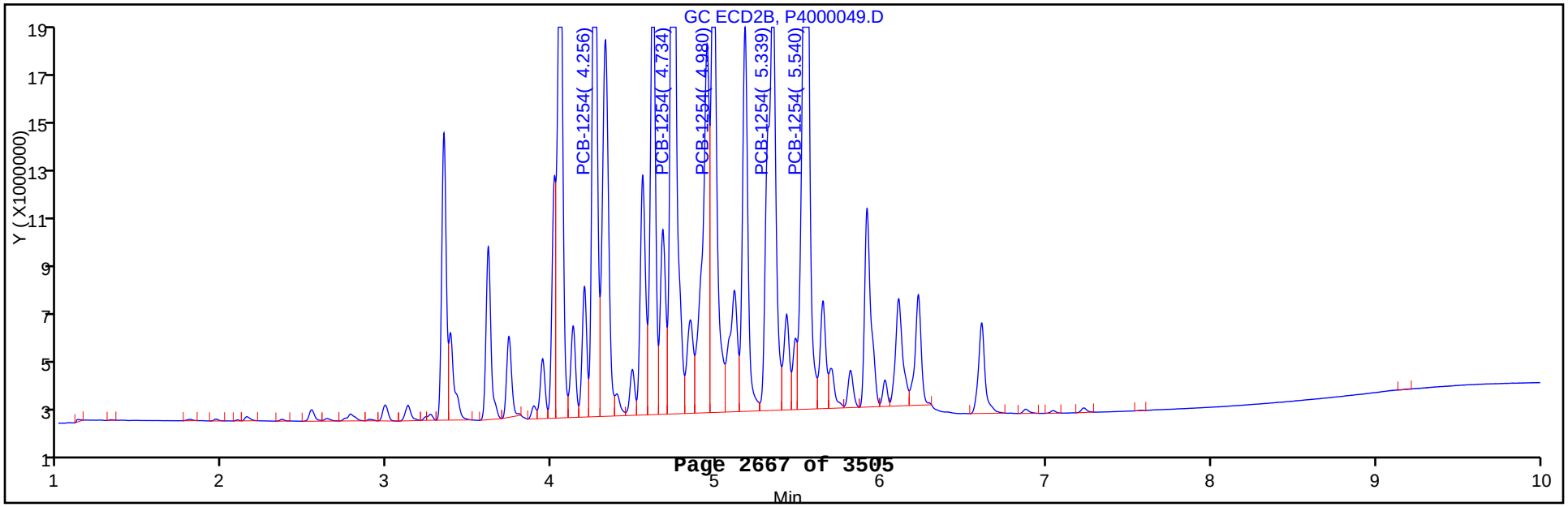
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000049.D

Injection Date:	15-Apr-2013 11:43:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



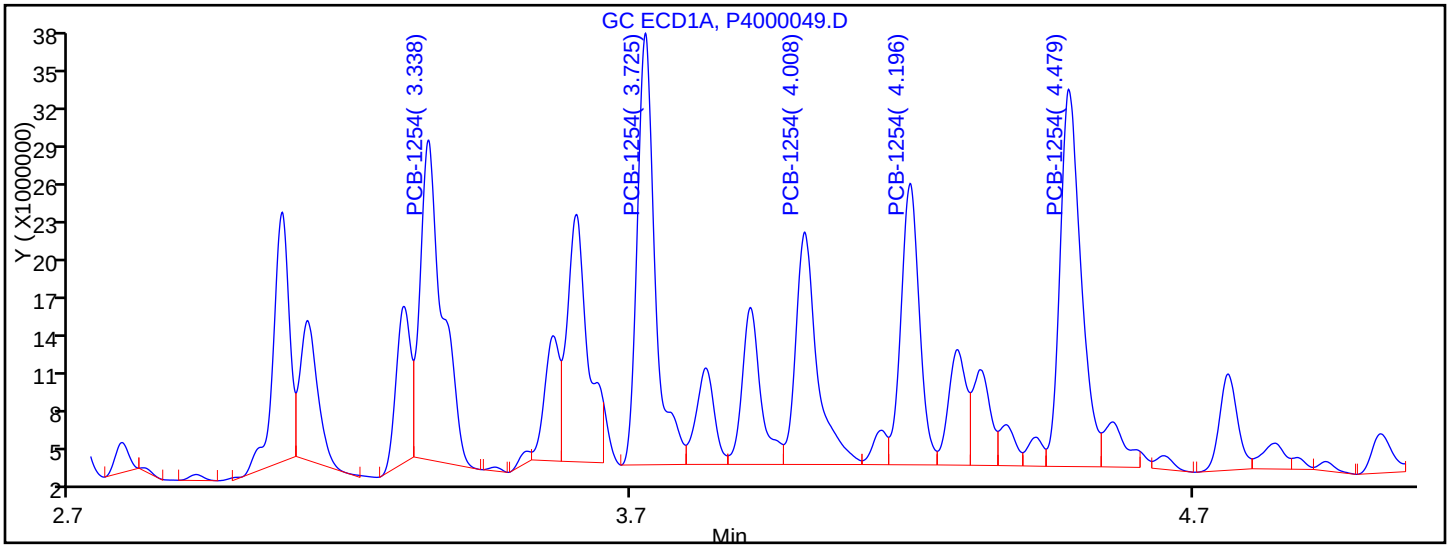
Report Date: 15-Apr-2013 13:05:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000049.D

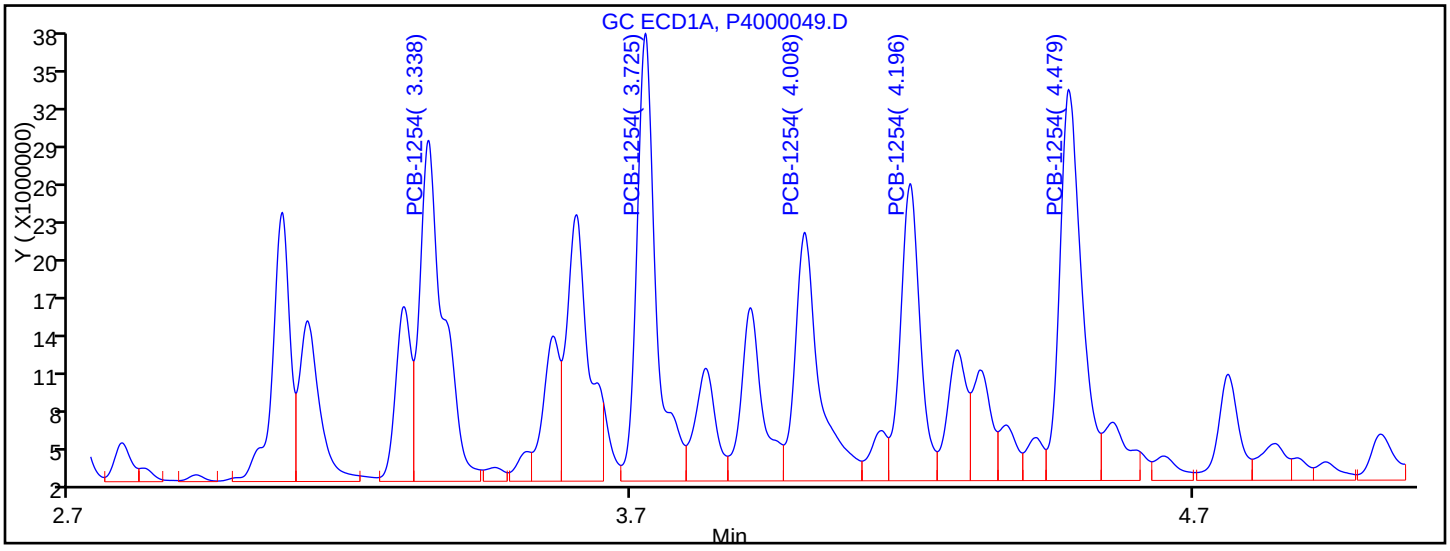
Injection Date:	15-Apr-2013 11:43:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

8 PCB-1254, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.338	Response = 68252451	M
RT = 3.725	Response = 74827370	M
RT = 4.008	Response = 48412165	M
RT = 4.196	Response = 50184544	M
RT = 4.479	Response = 76742515	M



Manual Integration Results

RT = 3.338	Response = 78097433	M
RT = 3.725	Response = 83541523	M
RT = 4.008	Response = 58896469	M
RT = 4.196	Response = 56491523	M
RT = 4.479	Response = 82995143	M

Reviewer: hassl, 15-Apr-2013 12:50:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/49 Calibration Date: 04/15/2013 11:43

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000049.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	57249587	54550020		0.953	1.00	-4.7	20.0
PCB-1254 Peak 2	Ave	90792716	86983237		0.958	1.00	-4.2	20.0
PCB-1254 Peak 3	Ave	55089587	52880960		0.960	1.00	-4.0	20.0
PCB-1254 Peak 4	Qua		64439018		1.06	1.00	6.4	20.0
PCB-1254 Peak 5	Ave	85557979	87310642		1.02	1.00	2.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/49 Calibration Date: 04/15/2013 11:43

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 04:24

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 05:42

Lab File ID: P4000049.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	4.26	4.16	4.36
PCB-1254 Peak 2	4.73	4.63	4.83
PCB-1254 Peak 3	4.98	4.88	5.08
PCB-1254 Peak 4	5.34	5.24	5.44
PCB-1254 Peak 5	5.54	5.44	5.64

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000049.D
Lims ID: ICV 1254 Client ID:
Inject. Date: 15-Apr-2013 11:43:08 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-049
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 49
Lims Batch ID: 81761 Lims Sample ID: 49
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

First Level Reviewer: hassl Date: 15-Apr-2013 12:50:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
8 PCB-1254									M
1	100	3.338	3.335	0.003	78097433	1.00		100.0	M
1	2	3.725	3.722	0.003	83541523	0.9855	82.1- 132.1	107.0	M
1	3	4.008	4.007	0.001	58896469	1.07	43.1- 93.1	75.4	M
1	4	4.196	4.195	0.001	56491523	1.04	43.7- 93.7	72.3	M
1	5	4.479	4.479	0.000	82995143	1.06	73.6- 123.6	106.3	M
			Average of Peak Amounts =			1.03			
2	6	4.256	4.255	0.001	54550020	0.9528		100.0	
2	7	4.734	4.732	0.002	86983237	0.9580	125.6- 185.6	159.5	
2	8	4.980	4.979	0.001	52880960	0.9599	62.4- 122.4	96.9	
2	9	5.339	5.338	0.001	64439018	1.06	43.9- 103.9	118.1	
2	10	5.540	5.540	0.000	87310642	1.02	115.2- 175.2	160.1	
			Average of Peak Amounts =			0.99			
						RPD = 3.91			

QC Flag Legend

Review Flags
M - Manually Integrated

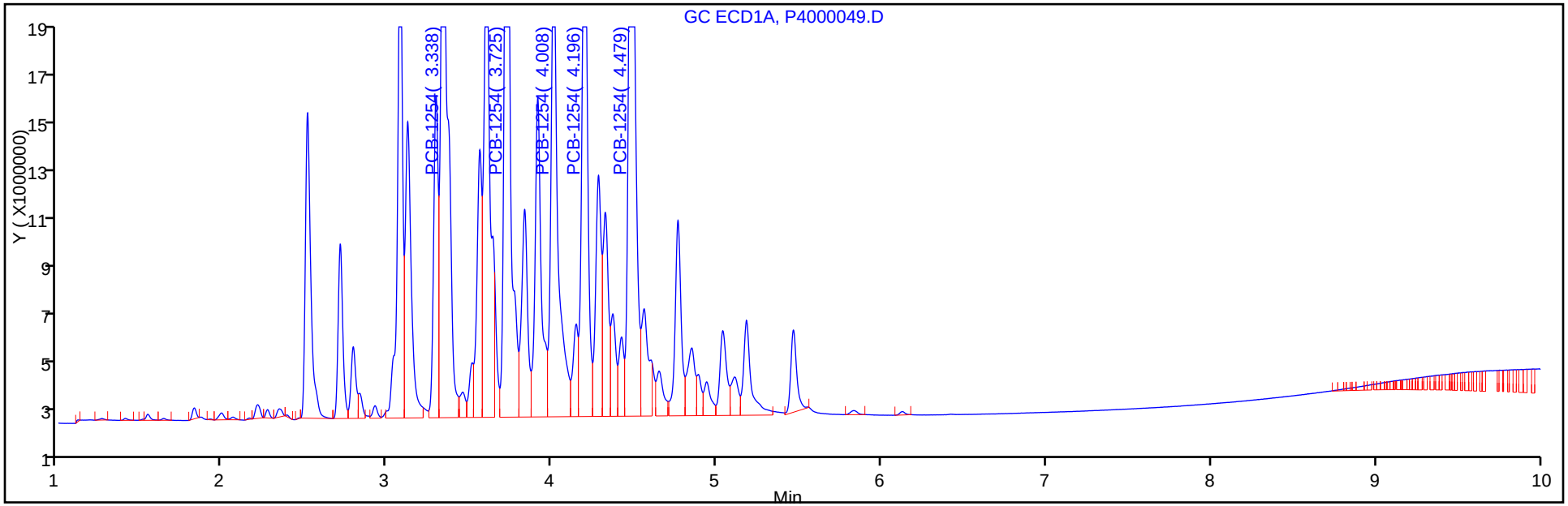
Report Date: 15-Apr-2013 13:05:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

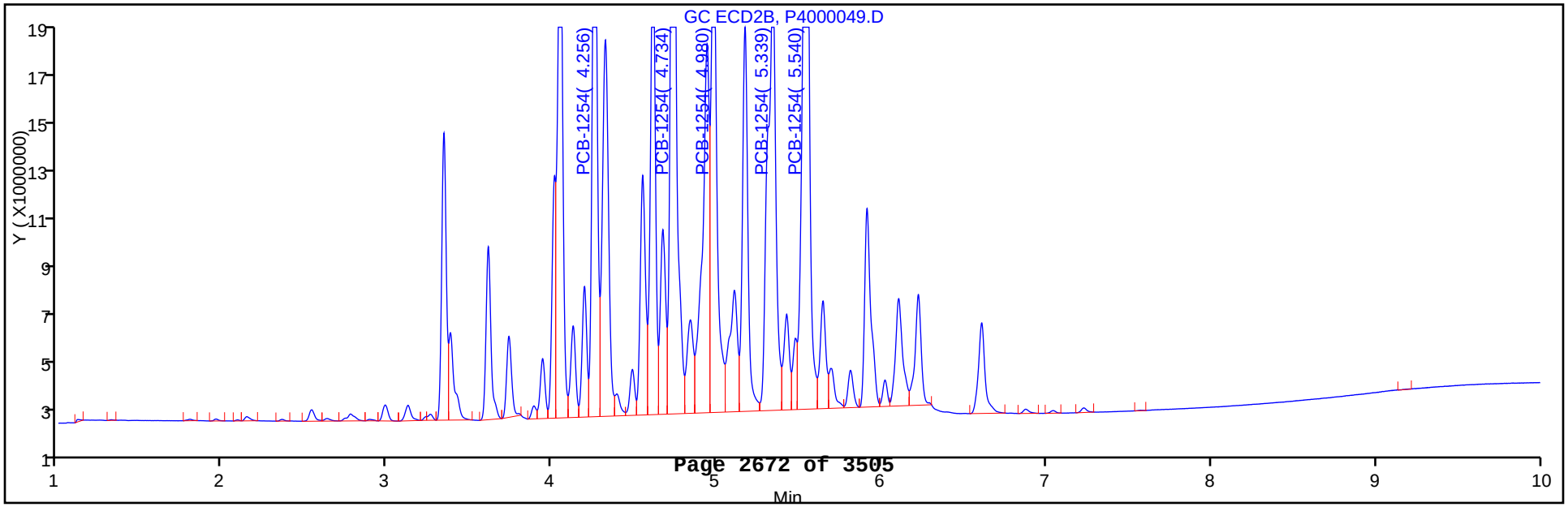
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000049.D

Injection Date:	15-Apr-2013 11:43:08	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	49
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/50 Calibration Date: 04/15/2013 11:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000050.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	26394423		0.973	1.00	-2.7	20.0
PCB-1016 Peak 2	Ave	48967138	52458419		1.07	1.00	7.1	20.0
PCB-1016 Peak 3	Ave	93440084	108960522		1.17	1.00	16.6	20.0
PCB-1016 Peak 4	Ave	41962283	47527384		1.13	1.00	13.3	20.0
PCB-1016 Peak 5	Ave	42399034	46463290		1.10	1.00	9.6	20.0
PCB-1260 Peak 1	Ave	62400345	65734311		1.05	1.00	5.3	20.0
PCB-1260 Peak 2	Ave	110128120	116951409		1.06	1.00	6.2	20.0
PCB-1260 Peak 3	Ave	107668512	108823251		1.01	1.00	1.1	20.0
PCB-1260 Peak 4	Ave	129376197	170284982		1.32	1.00	31.6*	20.0
PCB-1260 Peak 5	Ave	58244642	74264351		1.28	1.00	27.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/50 Calibration Date: 04/15/2013 11:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000050.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.54	1.44	1.64
PCB-1016 Peak 2	1.82	1.72	1.92
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.71	2.61	2.81
PCB-1260 Peak 1	3.91	3.81	4.01
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.46	5.36	5.56

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000050.D
Lims ID: ICV 1660 Client ID:
Inject. Date: 15-Apr-2013 11:58:43 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-050
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 50
Lims Batch ID: 81761 Lims Sample ID: 50
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
6 PCB-1016									
1	100	1.543	1.542	0.001	26394423	0.9726		100.0	
1	2	1.824	1.824	0.000	52458419	1.07	156.0- 206.0	198.7	
1	3	2.216	2.216	0.000	108960522	1.17	312.4- 362.4	412.8	
1	4	2.336	2.336	0.000	47527384	1.13	118.7- 188.7	180.1	
1	5	2.714	2.714	0.000	46463290	1.10	125.6- 175.6	176.0	
			Average of Peak Amounts =			1.09			
2	6	2.142	2.142	0.000	26453135	1.03		100.0	
2	7	2.538	2.538	0.000	54398101	1.07	169.6- 229.6	205.6	
2	8	2.989	2.989	0.000	114525960	1.15	351.4- 411.4	432.9	
2	9	3.128	3.127	0.001	49095632	1.12	141.3- 201.3	185.6	
2	10	3.231	3.230	0.001	39265162	1.15	102.5- 162.5	148.4	
			Average of Peak Amounts =			1.10			
						RPD = 1.43			
10 PCB-1260									
1	100	3.911	3.911	0.000	65734311	1.05		100.0	
1	2	4.199	4.199	0.000	116951409	1.06	152.2- 202.2	177.9	
1	3	4.479	4.479	0.000	108823251	1.01	146.4- 196.4	165.6	
1	4	5.179	5.178	0.001	170284982	1.32	180.7- 230.7	259.1	
1	5	5.463	5.464	-0.001	74264351	1.28	64.1- 114.1	113.0	
			Average of Peak Amounts =			1.14			
2	6	4.939	4.940	-0.001	70748168	1.03		100.0	
2	7	5.169	5.170	-0.001	86364601	1.08	87.6- 147.6	122.1	
2	8	5.536	5.539	-0.003	118809913	1.01	144.7- 204.7	167.9	
2	9	6.222	6.224	-0.002	190043048	1.30	187.7- 247.7	268.6	
2	10	6.604	6.604	0.000	121763502	1.26	115.0- 175.0	172.1	
			Average of Peak Amounts =			1.14			
						RPD = 0.68			

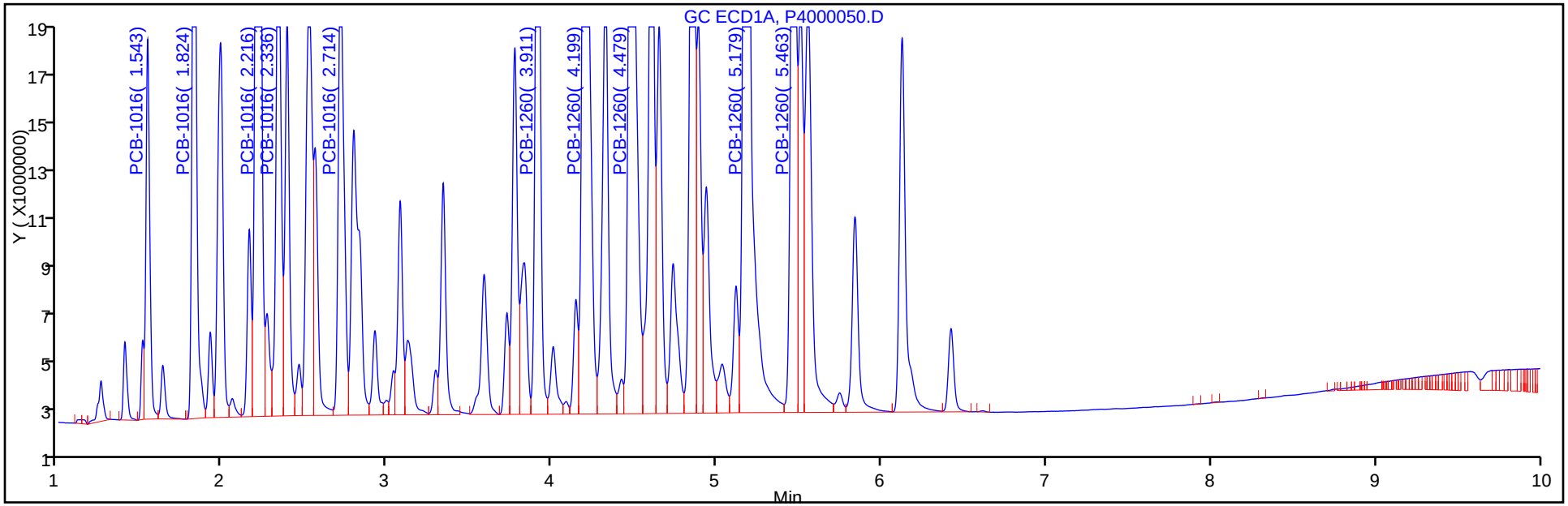
Report Date: 15-Apr-2013 13:05:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

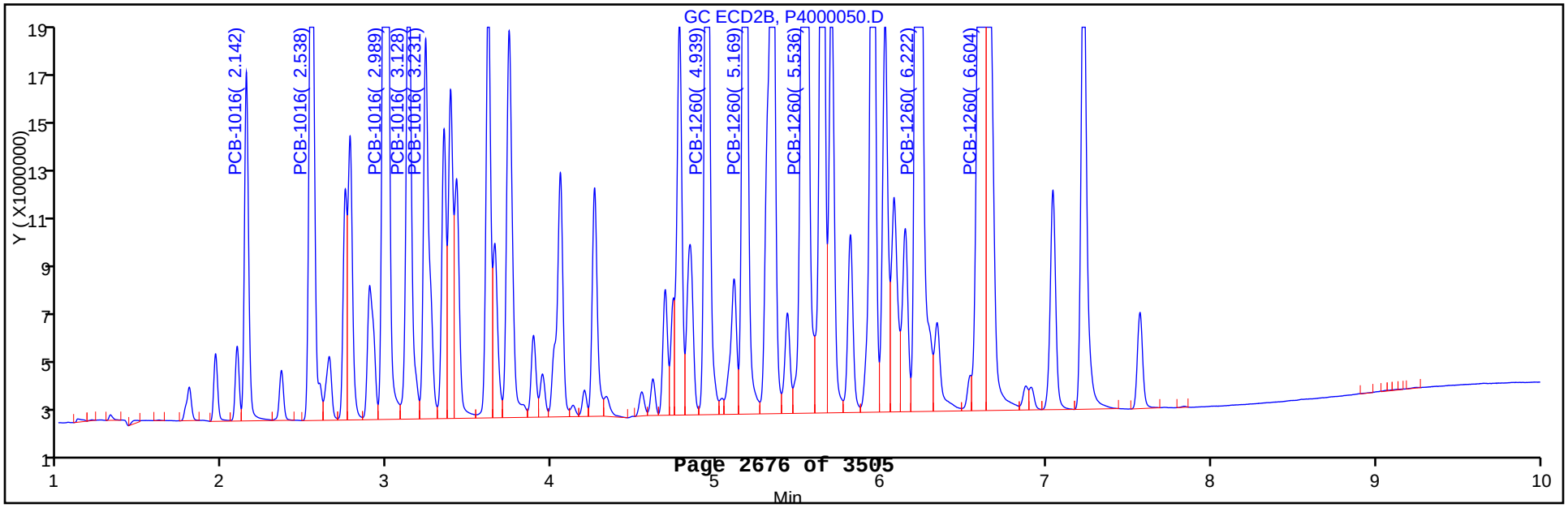
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000050.D

Injection Date:	15-Apr-2013 11:58:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	50
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/50 Calibration Date: 04/15/2013 11:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000050.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	26453135		1.03	1.00	3.1	20.0
PCB-1016 Peak 2	Ave	50771162	54398101		1.07	1.00	7.1	20.0
PCB-1016 Peak 3	Ave	99379492	114525960		1.15	1.00	15.2	20.0
PCB-1016 Peak 4	Ave	44018240	49095632		1.12	1.00	11.5	20.0
PCB-1016 Peak 5	Ave	34251515	39265162		1.15	1.00	14.6	20.0
PCB-1260 Peak 1	Ave	68786213	70748168		1.03	1.00	2.9	20.0
PCB-1260 Peak 2	Ave	79832052	86364601		1.08	1.00	8.2	20.0
PCB-1260 Peak 3	Ave	118169923	118809913		1.01	1.00	0.5	20.0
PCB-1260 Peak 4	Ave	145808797	190043048		1.30	1.00	30.3*	20.0
PCB-1260 Peak 5	Ave	96662928	121763502		1.26	1.00	26.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 240-81761/50 Calibration Date: 04/15/2013 11:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000050.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.14	2.04	2.24
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.23	3.13	3.33
PCB-1260 Peak 1	4.94	4.84	5.04
PCB-1260 Peak 2	5.17	5.07	5.27
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.22	6.12	6.32
PCB-1260 Peak 5	6.60	6.50	6.70

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000050.D
Lims ID: ICV 1660 Client ID:
Inject. Date: 15-Apr-2013 11:58:43 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 240-0018824-050
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 ul ALS Bottle#: 50
Lims Batch ID: 81761 Lims Sample ID: 50
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\PCB4.m
Last Update: 15-Apr-2013 13:05:36 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK026

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
6 PCB-1016									
1	100	1.543	1.542	0.001	26394423	0.9726		100.0	
1	2	1.824	1.824	0.000	52458419	1.07	156.0- 206.0	198.7	
1	3	2.216	2.216	0.000	108960522	1.17	312.4- 362.4	412.8	
1	4	2.336	2.336	0.000	47527384	1.13	118.7- 188.7	180.1	
1	5	2.714	2.714	0.000	46463290	1.10	125.6- 175.6	176.0	
			Average of Peak Amounts =			1.09			
2	6	2.142	2.142	0.000	26453135	1.03		100.0	
2	7	2.538	2.538	0.000	54398101	1.07	169.6- 229.6	205.6	
2	8	2.989	2.989	0.000	114525960	1.15	351.4- 411.4	432.9	
2	9	3.128	3.127	0.001	49095632	1.12	141.3- 201.3	185.6	
2	10	3.231	3.230	0.001	39265162	1.15	102.5- 162.5	148.4	
			Average of Peak Amounts =			1.10			
						RPD = 1.43			
10 PCB-1260									
1	100	3.911	3.911	0.000	65734311	1.05		100.0	
1	2	4.199	4.199	0.000	116951409	1.06	152.2- 202.2	177.9	
1	3	4.479	4.479	0.000	108823251	1.01	146.4- 196.4	165.6	
1	4	5.179	5.178	0.001	170284982	1.32	180.7- 230.7	259.1	
1	5	5.463	5.464	-0.001	74264351	1.28	64.1- 114.1	113.0	
			Average of Peak Amounts =			1.14			
2	6	4.939	4.940	-0.001	70748168	1.03		100.0	
2	7	5.169	5.170	-0.001	86364601	1.08	87.6- 147.6	122.1	
2	8	5.536	5.539	-0.003	118809913	1.01	144.7- 204.7	167.9	
2	9	6.222	6.224	-0.002	190043048	1.30	187.7- 247.7	268.6	
2	10	6.604	6.604	0.000	121763502	1.26	115.0- 175.0	172.1	
			Average of Peak Amounts =			1.14			
						RPD = 0.68			

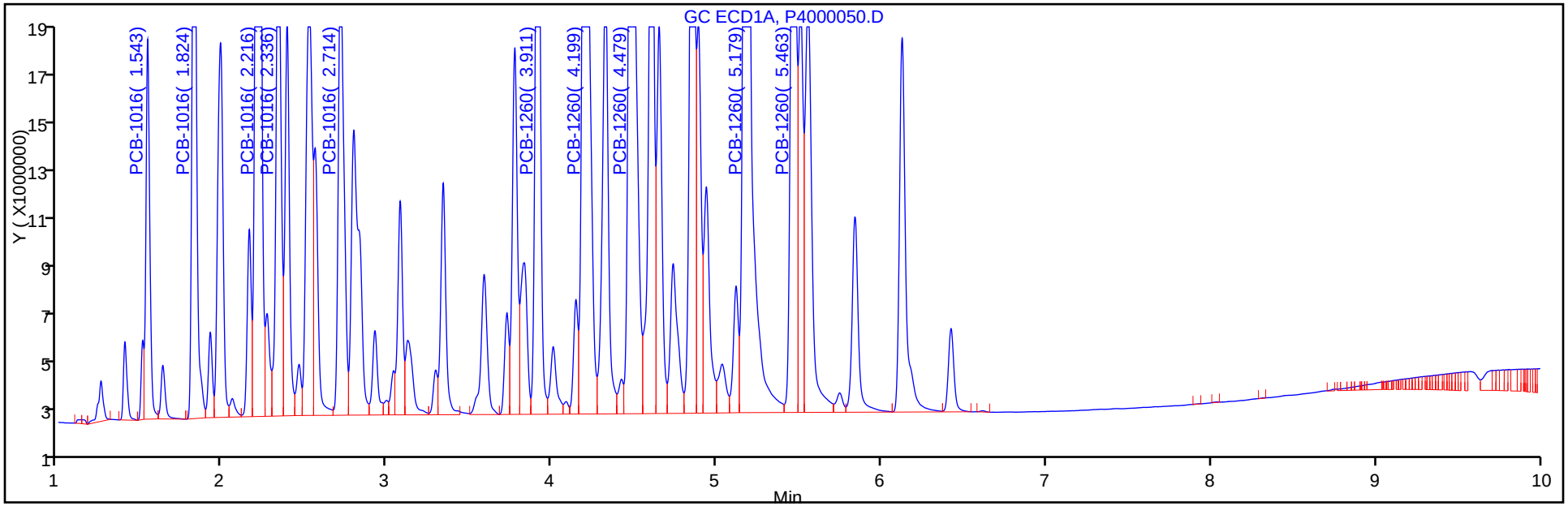
Report Date: 15-Apr-2013 13:05:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

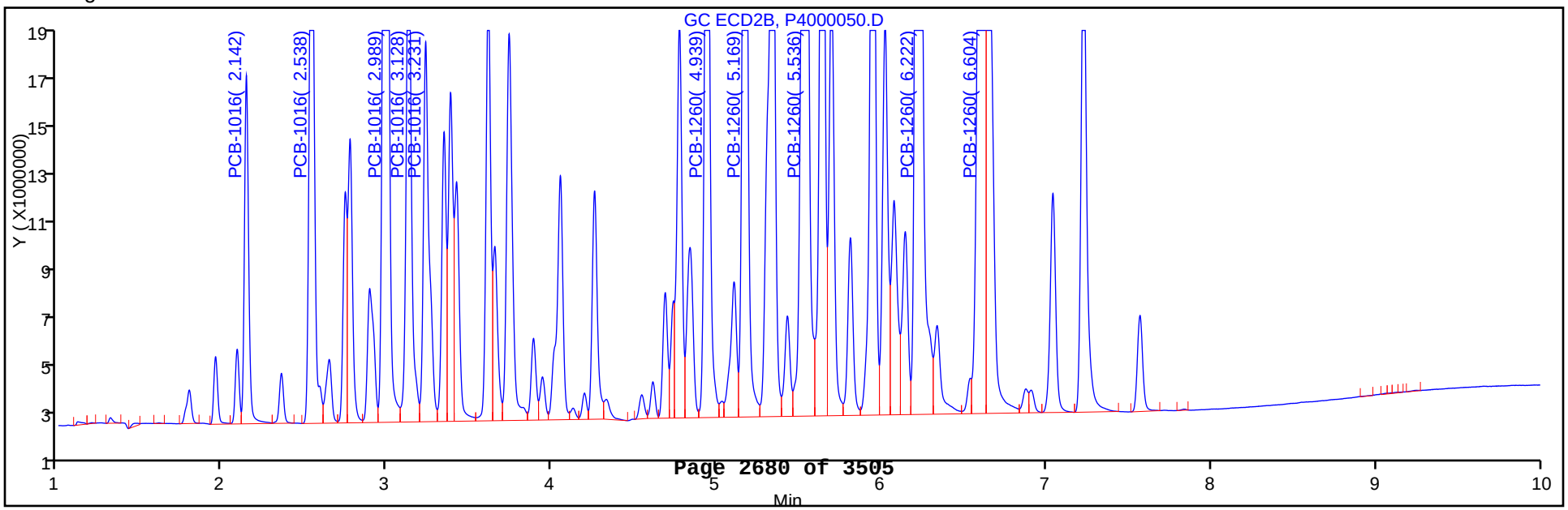
Data File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000050.D

Injection Date:	15-Apr-2013 11:58:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	81761	Lims Sample ID:	50
Operator ID:		Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/3 Calibration Date: 04/17/2013 09:56

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	28098118		0.518	0.500	3.5	20.0
PCB-1016 Peak 2	Ave	48967138	50305028		0.514	0.500	2.7	20.0
PCB-1016 Peak 3	Ave	93440084	106479856		0.570	0.500	14.0	20.0
PCB-1016 Peak 4	Ave	41962283	46056790		0.549	0.500	9.8	20.0
PCB-1016 Peak 5	Ave	42399034	45838210		0.541	0.500	8.1	20.0
PCB-1260 Peak 1	Ave	62400345	68717018		0.551	0.500	10.1	20.0
PCB-1260 Peak 2	Ave	110128120	124866862		0.567	0.500	13.4	20.0
PCB-1260 Peak 3	Ave	107668512	127586328		0.592	0.500	18.5	20.0
PCB-1260 Peak 4	Ave	129376197	152787468		0.590	0.500	18.1	20.0
PCB-1260 Peak 5	Ave	58244642	75648006		0.649	0.500	29.9*	20.0
Tetrachloro-m-xylene	Ave	1583607317	1662416040		0.0262	0.0250	5.0	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1515111280		0.0284	0.0250	13.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/3 Calibration Date: 04/17/2013 09:56

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.62	6.52	6.72

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 17-Apr-2013 09:56:16 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018945-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82267 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:32 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	41560401	0.0262			
2	2	1.683	1.683	0.000	40847325	0.0259			
						RPD = 1.36			
6 PCB-1016									
1	100	1.545	1.545	0.000	14049059	0.5177		100.0	
1	2	1.828	1.828	0.000	25152514	0.5137	156.0- 206.0	179.0	
1	3	2.219	2.219	0.000	53239928	0.5698	312.4- 362.4	379.0	
1	4	2.338	2.338	0.000	23028395	0.5488	118.7- 188.7	163.9	
1	5	2.717	2.717	0.000	22919105	0.5406	125.6- 175.6	163.1	
			Average of Peak Amounts =			0.5381			
2	6	2.145	2.145	0.000	12832878	0.5003		100.0	
2	7	2.541	2.541	0.000	25873587	0.5096	169.6- 229.6	201.6	
2	8	2.992	2.992	0.000	55091177	0.5544	351.4- 411.4	429.3	
2	9	3.130	3.130	0.000	23167317	0.5263	141.3- 201.3	180.5	
2	10	3.233	3.233	0.000	18265175	0.5333	102.5- 162.5	142.3	
			Average of Peak Amounts =			0.5248			
						RPD = 2.51			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.915	3.915	0.000	34358509	0.5506		100.0	
1	2	4.201	4.201	0.000	62433431	0.5669	152.2- 202.2	181.7	
1	3	4.482	4.482	0.000	63793164	0.5925	146.4- 196.4	185.7	
1	4	5.181	5.181	0.000	76393734	0.5905	180.7- 230.7	222.3	
1	5	5.465	5.465	0.000	37824003	0.6494	64.1- 114.1	110.1	
			Average of Peak Amounts =			0.5900			
2	6	4.943	4.943	0.000	37375452	0.5434		100.0	
2	7	5.173	5.173	0.000	44981917	0.5635	87.6- 147.6	120.4	
2	8	5.540	5.540	0.000	68099120	0.5763	144.7- 204.7	182.2	
2	9	6.226	6.226	0.000	85172284	0.5841	187.7- 247.7	227.9	
2	10	6.608	6.608	0.000	56627947	0.5858	115.0- 175.0	151.5	
			Average of Peak Amounts =			0.5706			
						RPD = 3.34			
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	37877782	0.0284			
2	2	7.842	7.842	0.000	34382479	0.0236			
						RPD = 18.33			

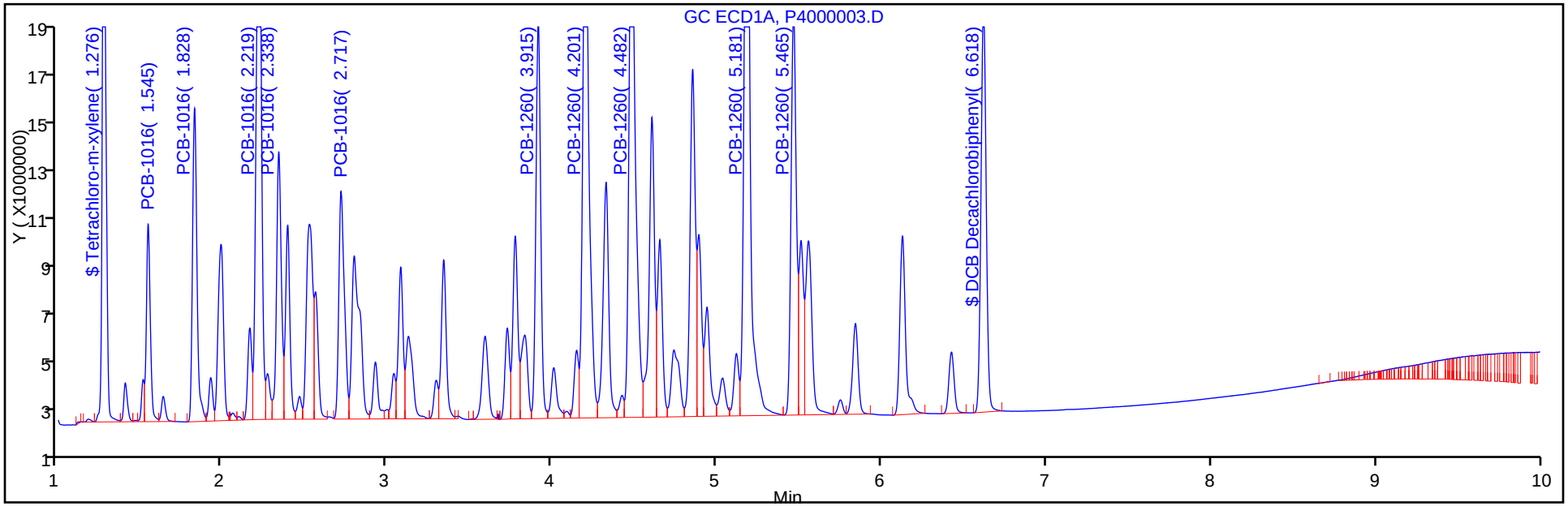
Report Date: 19-Apr-2013 09:25:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

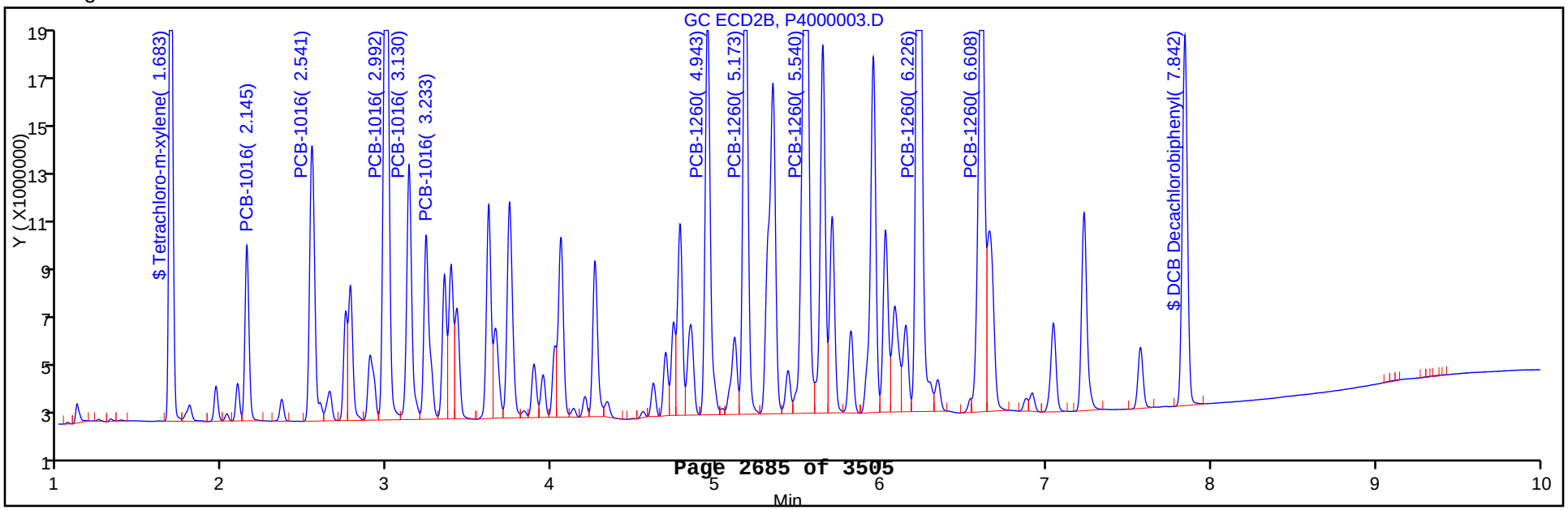
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000003.D

Injection Date:	17-Apr-2013 09:56:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/3 Calibration Date: 04/17/2013 09:56

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	25665756		0.500	0.500	0.0	20.0
PCB-1016 Peak 2	Ave	50771162	51747174		0.510	0.500	1.9	20.0
PCB-1016 Peak 3	Ave	99379492	110182354		0.554	0.500	10.9	20.0
PCB-1016 Peak 4	Ave	44018240	46334634		0.526	0.500	5.3	20.0
PCB-1016 Peak 5	Ave	34251515	36530350		0.533	0.500	6.7	20.0
PCB-1260 Peak 1	Ave	68786213	74750904		0.543	0.500	8.7	20.0
PCB-1260 Peak 2	Ave	79832052	89963834		0.563	0.500	12.7	20.0
PCB-1260 Peak 3	Ave	118169923	136198240		0.576	0.500	15.3	20.0
PCB-1260 Peak 4	Ave	145808797	170344568		0.584	0.500	16.8	20.0
PCB-1260 Peak 5	Ave	96662928	113255894		0.586	0.500	17.2	20.0
Tetrachloro-m-xylene	Ave	1577823383	1633893000		0.0259	0.0250	3.6	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1375299160		0.0236	0.0250	-5.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/3 Calibration Date: 04/17/2013 09:56

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.23	3.13	3.33
PCB-1260 Peak 1	4.94	4.84	5.04
PCB-1260 Peak 2	5.17	5.07	5.27
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.68	1.58	1.78
DCB Decachlorobiphenyl	7.84	7.74	7.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 17-Apr-2013 09:56:16 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018945-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82267 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:32 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	41560401	0.0262			
2	2	1.683	1.683	0.000	40847325	0.0259			
						RPD = 1.36			
6 PCB-1016									
1	100	1.545	1.545	0.000	14049059	0.5177		100.0	
1	2	1.828	1.828	0.000	25152514	0.5137	156.0- 206.0	179.0	
1	3	2.219	2.219	0.000	53239928	0.5698	312.4- 362.4	379.0	
1	4	2.338	2.338	0.000	23028395	0.5488	118.7- 188.7	163.9	
1	5	2.717	2.717	0.000	22919105	0.5406	125.6- 175.6	163.1	
			Average of Peak Amounts =			0.5381			
2	6	2.145	2.145	0.000	12832878	0.5003		100.0	
2	7	2.541	2.541	0.000	25873587	0.5096	169.6- 229.6	201.6	
2	8	2.992	2.992	0.000	55091177	0.5544	351.4- 411.4	429.3	
2	9	3.130	3.130	0.000	23167317	0.5263	141.3- 201.3	180.5	
2	10	3.233	3.233	0.000	18265175	0.5333	102.5- 162.5	142.3	
			Average of Peak Amounts =			0.5248			
						RPD = 2.51			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.915	3.915	0.000	34358509	0.5506		100.0	
1	2	4.201	4.201	0.000	62433431	0.5669	152.2- 202.2	181.7	
1	3	4.482	4.482	0.000	63793164	0.5925	146.4- 196.4	185.7	
1	4	5.181	5.181	0.000	76393734	0.5905	180.7- 230.7	222.3	
1	5	5.465	5.465	0.000	37824003	0.6494	64.1- 114.1	110.1	
			Average of Peak Amounts =			0.5900			
2	6	4.943	4.943	0.000	37375452	0.5434		100.0	
2	7	5.173	5.173	0.000	44981917	0.5635	87.6- 147.6	120.4	
2	8	5.540	5.540	0.000	68099120	0.5763	144.7- 204.7	182.2	
2	9	6.226	6.226	0.000	85172284	0.5841	187.7- 247.7	227.9	
2	10	6.608	6.608	0.000	56627947	0.5858	115.0- 175.0	151.5	
			Average of Peak Amounts =			0.5706			
						RPD = 3.34			
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	37877782	0.0284			
2	2	7.842	7.842	0.000	34382479	0.0236			
						RPD = 18.33			

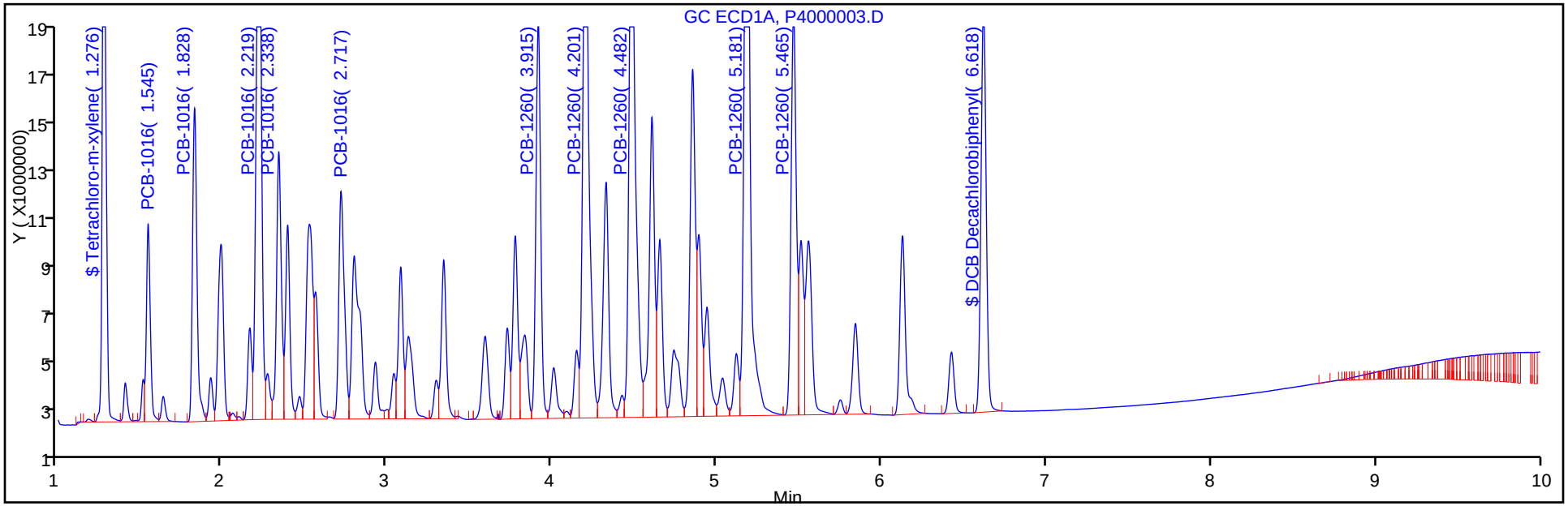
Report Date: 19-Apr-2013 09:25:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

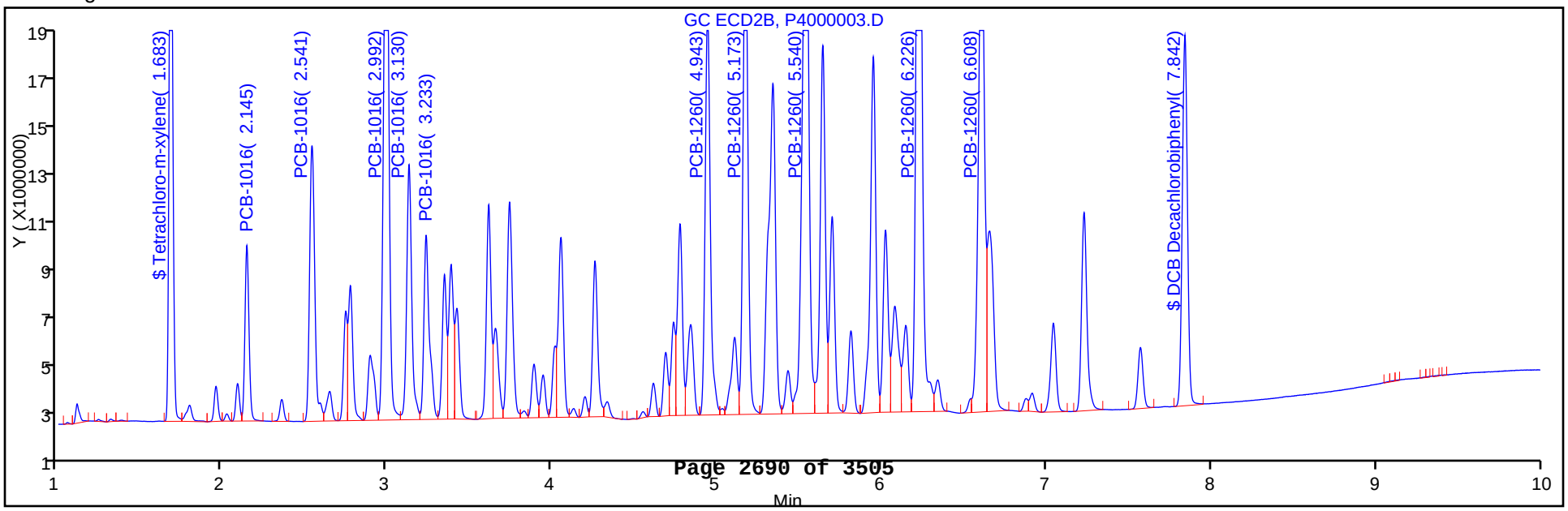
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000003.D

Injection Date:	17-Apr-2013 09:56:16	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/14 Calibration Date: 04/17/2013 13:33

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	26127950		0.481	0.500	-3.7	20.0
PCB-1016 Peak 2	Ave	48967138	46989174		0.480	0.500	-4.0	20.0
PCB-1016 Peak 3	Ave	93440084	99282420		0.531	0.500	6.3	20.0
PCB-1016 Peak 4	Ave	41962283	43051370		0.513	0.500	2.6	20.0
PCB-1016 Peak 5	Ave	42399034	42876518		0.506	0.500	1.1	20.0
PCB-1260 Peak 1	Ave	62400345	63141350		0.506	0.500	1.2	20.0
PCB-1260 Peak 2	Ave	110128120	115440166		0.524	0.500	4.8	20.0
PCB-1260 Peak 3	Ave	107668512	117572398		0.546	0.500	9.2	20.0
PCB-1260 Peak 4	Ave	129376197	141070992		0.545	0.500	9.0	20.0
PCB-1260 Peak 5	Ave	58244642	70221162		0.603	0.500	20.6*	20.0
Tetrachloro-m-xylene	Ave	1583607317	1539986120		0.0243	0.0250	-2.8	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1430031800		0.0268	0.0250	7.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/14 Calibration Date: 04/17/2013 13:33

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.91	3.81	4.01
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.62	6.52	6.72

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000014.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 17-Apr-2013 13:33:36 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018945-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 14
Lims Batch ID: 82267 Lims Sample ID: 14
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	38499653	0.0243			
2	2	1.683	1.683	0.000	37718476	0.0239			
						RPD = 1.68			
6 PCB-1016									
1	100	1.546	1.546	0.000	13063975	0.4814		100.0	
1	2	1.827	1.827	0.000	23494587	0.4798	156.0- 206.0	179.8	
1	3	2.220	2.220	0.000	49641210	0.5313	312.4- 362.4	380.0	
1	4	2.339	2.339	0.000	21525685	0.5130	118.7- 188.7	164.8	
1	5	2.718	2.718	0.000	21438259	0.5056	125.6- 175.6	164.1	
			Average of Peak Amounts =			0.5022			
2	6	2.146	2.146	0.000	12000261	0.4679		100.0	
2	7	2.541	2.541	0.000	24246046	0.4776	169.6- 229.6	202.0	
2	8	2.993	2.993	0.000	51398892	0.5172	351.4- 411.4	428.3	
2	9	3.131	3.131	0.000	21728383	0.4936	141.3- 201.3	181.1	
2	10	3.235	3.235	0.000	17140836	0.5004	102.5- 162.5	142.8	
			Average of Peak Amounts =			0.4913			
						RPD = 2.19			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.914	3.914	0.000	31570675	0.5059		100.0	
1	2	4.202	4.202	0.000	57720083	0.5241	152.2- 202.2	182.8	
1	3	4.481	4.481	0.000	58786199	0.5460	146.4- 196.4	186.2	
1	4	5.181	5.181	0.000	70535496	0.5452	180.7- 230.7	223.4	
1	5	5.466	5.466	0.000	35110581	0.6028	64.1- 114.1	111.2	
			Average of Peak Amounts =			0.5448			
2	6	4.944	4.944	0.000	35126337	0.5107		100.0	
2	7	5.173	5.173	0.000	42097573	0.5273	87.6- 147.6	119.8	
2	8	5.541	5.541	0.000	63231927	0.5351	144.7- 204.7	180.0	
2	9	6.226	6.226	0.000	79803515	0.5473	187.7- 247.7	227.2	
2	10	6.606	6.606	0.000	54172603	0.5604	115.0- 175.0	154.2	
			Average of Peak Amounts =			0.5362			
						RPD = 1.60			
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	35750795	0.0268			
2	2	7.842	7.842	0.000	33296239	0.0229			
						RPD = 15.78			

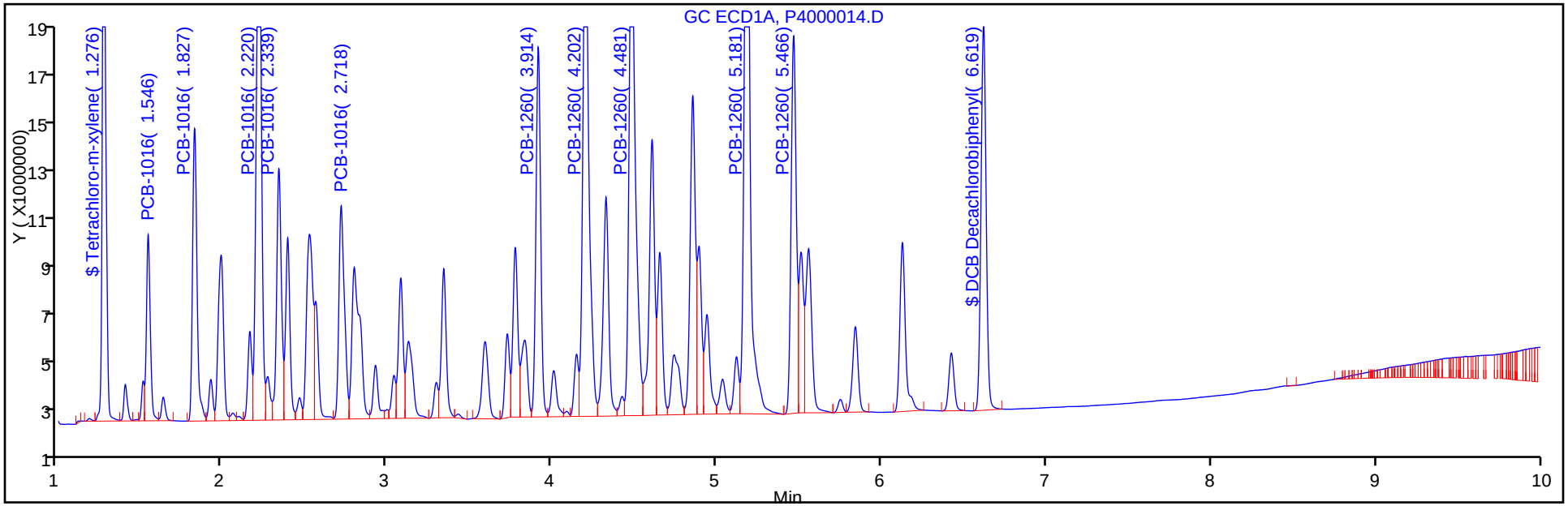
Report Date: 19-Apr-2013 09:25:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

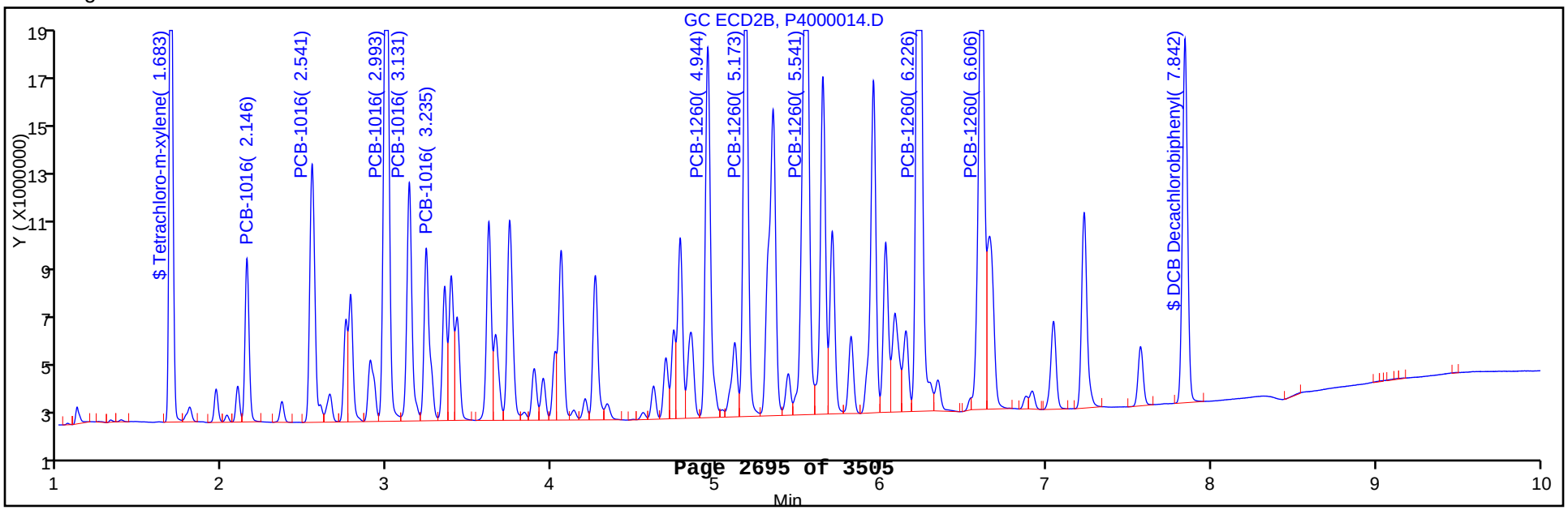
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000014.D

Injection Date:	17-Apr-2013 13:33:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/14 Calibration Date: 04/17/2013 13:33

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	24000522		0.468	0.500	-6.4	20.0
PCB-1016 Peak 2	Ave	50771162	48492092		0.478	0.500	-4.5	20.0
PCB-1016 Peak 3	Ave	99379492	102797784		0.517	0.500	3.4	20.0
PCB-1016 Peak 4	Ave	44018240	43456766		0.494	0.500	-1.3	20.0
PCB-1016 Peak 5	Ave	34251515	34281672		0.500	0.500	0.0	20.0
PCB-1260 Peak 1	Ave	68786213	70252674		0.511	0.500	2.1	20.0
PCB-1260 Peak 2	Ave	79832052	84195146		0.527	0.500	5.5	20.0
PCB-1260 Peak 3	Ave	118169923	126463854		0.535	0.500	7.0	20.0
PCB-1260 Peak 4	Ave	145808797	159607030		0.547	0.500	9.5	20.0
PCB-1260 Peak 5	Ave	96662928	108345206		0.560	0.500	12.1	20.0
Tetrachloro-m-xylene	Ave	1577823383	1508739040		0.0239	0.0250	-4.4	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1331849560		0.0229	0.0250	-8.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/14 Calibration Date: 04/17/2013 13:33

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.94	4.84	5.04
PCB-1260 Peak 2	5.17	5.07	5.27
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.68	1.58	1.78
DCB Decachlorobiphenyl	7.84	7.74	7.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000014.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 17-Apr-2013 13:33:36 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018945-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 14
Lims Batch ID: 82267 Lims Sample ID: 14
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	38499653	0.0243			
2	2	1.683	1.683	0.000	37718476	0.0239			
						RPD = 1.68			
6 PCB-1016									
1	100	1.546	1.546	0.000	13063975	0.4814		100.0	
1	2	1.827	1.827	0.000	23494587	0.4798	156.0- 206.0	179.8	
1	3	2.220	2.220	0.000	49641210	0.5313	312.4- 362.4	380.0	
1	4	2.339	2.339	0.000	21525685	0.5130	118.7- 188.7	164.8	
1	5	2.718	2.718	0.000	21438259	0.5056	125.6- 175.6	164.1	
			Average of Peak Amounts =			0.5022			
2	6	2.146	2.146	0.000	12000261	0.4679		100.0	
2	7	2.541	2.541	0.000	24246046	0.4776	169.6- 229.6	202.0	
2	8	2.993	2.993	0.000	51398892	0.5172	351.4- 411.4	428.3	
2	9	3.131	3.131	0.000	21728383	0.4936	141.3- 201.3	181.1	
2	10	3.235	3.235	0.000	17140836	0.5004	102.5- 162.5	142.8	
			Average of Peak Amounts =			0.4913			
						RPD = 2.19			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.914	3.914	0.000	31570675	0.5059		100.0	
1	2	4.202	4.202	0.000	57720083	0.5241	152.2- 202.2	182.8	
1	3	4.481	4.481	0.000	58786199	0.5460	146.4- 196.4	186.2	
1	4	5.181	5.181	0.000	70535496	0.5452	180.7- 230.7	223.4	
1	5	5.466	5.466	0.000	35110581	0.6028	64.1- 114.1	111.2	
			Average of Peak Amounts =			0.5448			
2	6	4.944	4.944	0.000	35126337	0.5107		100.0	
2	7	5.173	5.173	0.000	42097573	0.5273	87.6- 147.6	119.8	
2	8	5.541	5.541	0.000	63231927	0.5351	144.7- 204.7	180.0	
2	9	6.226	6.226	0.000	79803515	0.5473	187.7- 247.7	227.2	
2	10	6.606	6.606	0.000	54172603	0.5604	115.0- 175.0	154.2	
			Average of Peak Amounts =			0.5362			
						RPD = 1.60			
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	35750795	0.0268			
2	2	7.842	7.842	0.000	33296239	0.0229			
						RPD = 15.78			

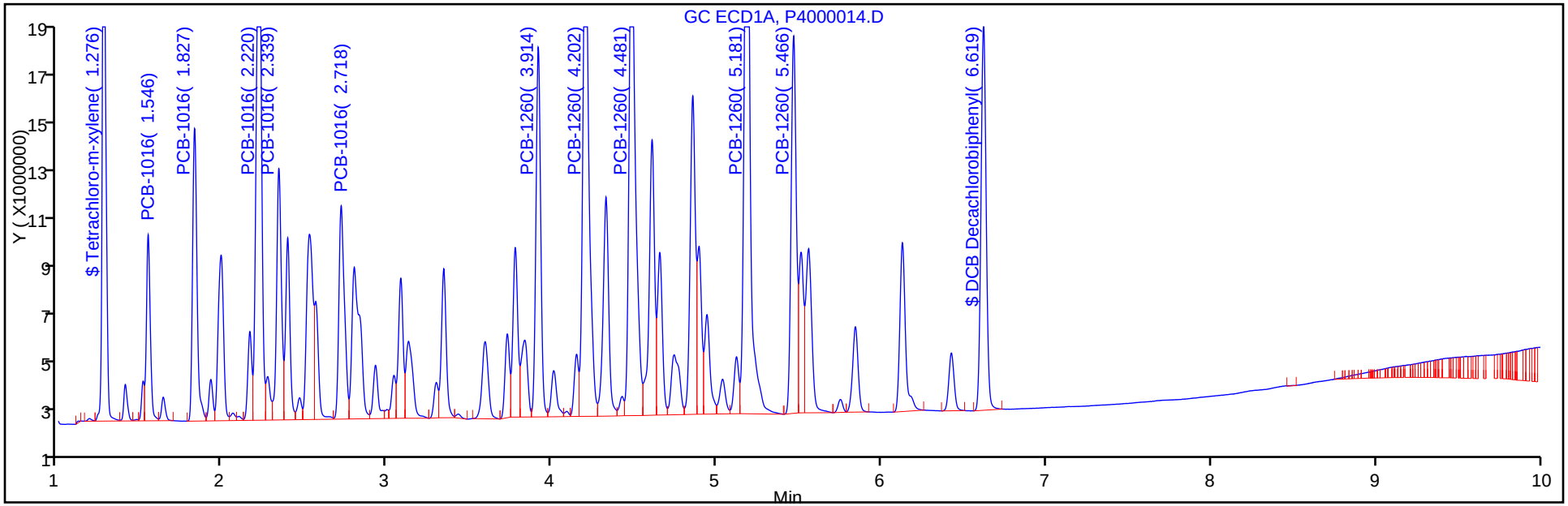
Report Date: 19-Apr-2013 09:25:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

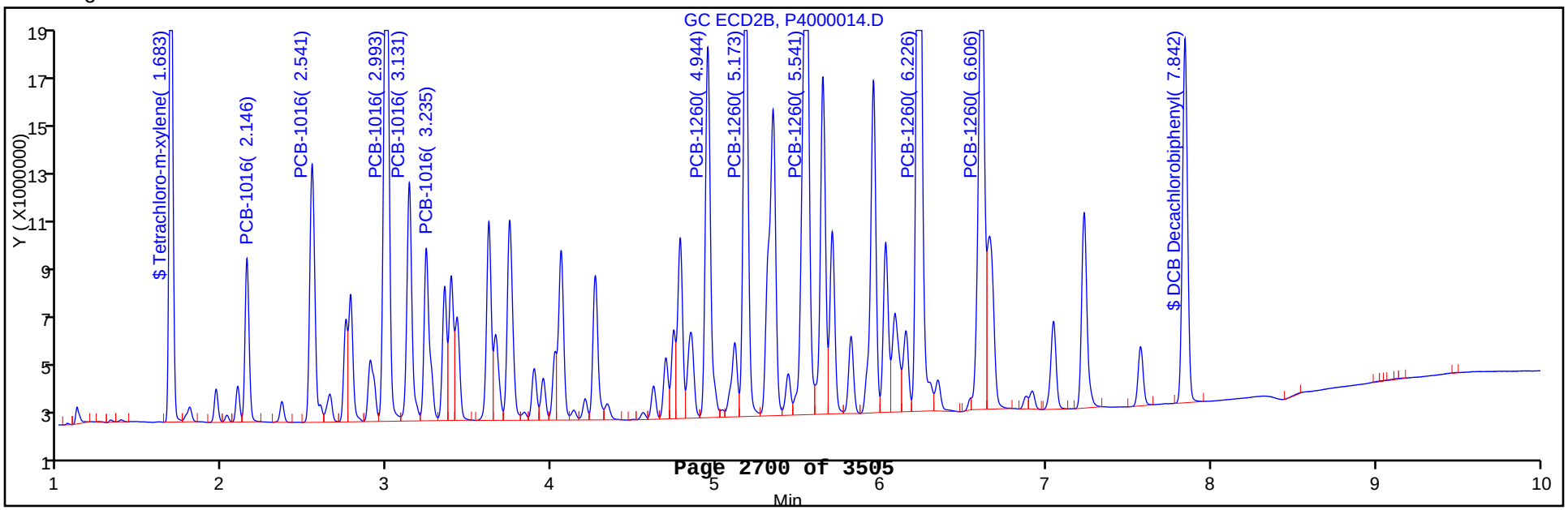
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000014.D

Injection Date:	17-Apr-2013 13:33:36	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/23 Calibration Date: 04/17/2013 15:38

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000022.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	26370446		0.486	0.500	-2.8	20.0
PCB-1016 Peak 2	Ave	48967138	48468764		0.495	0.500	-1.0	20.0
PCB-1016 Peak 3	Ave	93440084	102447542		0.548	0.500	9.6	20.0
PCB-1016 Peak 4	Ave	41962283	44803454		0.534	0.500	6.8	20.0
PCB-1016 Peak 5	Ave	42399034	44084622		0.520	0.500	4.0	20.0
PCB-1260 Peak 1	Ave	62400345	63973612		0.513	0.500	2.5	20.0
PCB-1260 Peak 2	Ave	110128120	118001078		0.536	0.500	7.1	20.0
PCB-1260 Peak 3	Ave	107668512	121169214		0.563	0.500	12.5	20.0
PCB-1260 Peak 4	Ave	129376197	146864026		0.568	0.500	13.5	20.0
PCB-1260 Peak 5	Ave	58244642	74206944		0.637	0.500	27.4*	20.0
Tetrachloro-m-xylene	Ave	1583607317	1603062960		0.0253	0.0250	1.2	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1504980000		0.0282	0.0250	12.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/23 Calibration Date: 04/17/2013 15:38

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000022.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.46	5.36	5.56
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.62	6.52	6.72

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000022.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 17-Apr-2013 15:38:29 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018945-023
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 22
Lims Batch ID: 82267 Lims Sample ID: 23
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:47 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 08:49:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.275	0.000	40076574	0.0253			
2	2	1.683	1.683	0.000	39356896	0.0249			
						RPD = 1.45			
6 PCB-1016									M
1	100	1.545	1.545	0.000	13185223	0.4859		100.0	
1	2	1.826	1.826	0.000	24234382	0.4949	156.0- 206.0	183.8	M
1	3	2.218	2.218	0.000	51223771	0.5482	312.4- 362.4	388.5	M
1	4	2.338	2.338	0.000	22401727	0.5339	118.7- 188.7	169.9	M
1	5	2.717	2.717	0.000	22042311	0.5199	125.6- 175.6	167.2	M
			Average of Peak Amounts =			0.5165			
2	6	2.145	2.145	0.000	12545963	0.4892		100.0	
2	7	2.540	2.540	0.000	24048803	0.4737	169.6- 229.6	191.7	
2	8	2.992	2.992	0.000	53189788	0.5352	351.4- 411.4	424.0	
2	9	3.131	3.131	0.000	22437822	0.5097	141.3- 201.3	178.8	
2	10	3.234	3.234	0.000	17731985	0.5177	102.5- 162.5	141.3	
			Average of Peak Amounts =			0.5051			
						RPD = 2.24			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.915	3.915	0.000	31986806	0.5126		100.0	
1	2	4.202	4.202	0.000	59000539	0.5357	152.2- 202.2	184.5	
1	3	4.481	4.481	0.000	60584607	0.5627	146.4- 196.4	189.4	
1	4	5.181	5.181	0.000	73432013	0.5676	180.7- 230.7	229.6	
1	5	5.464	5.464	0.000	37103472	0.6370	64.1- 114.1	116.0	
			Average of Peak Amounts =			0.5631			
2	6	4.943	4.943	0.000	35787454	0.5203		100.0	
2	7	5.173	5.173	0.000	41204263	0.5161	87.6- 147.6	115.1	
2	8	5.541	5.541	0.000	65462590	0.5540	144.7- 204.7	182.9	
2	9	6.226	6.226	0.000	83397082	0.5720	187.7- 247.7	233.0	
2	10	6.608	6.608	0.000	57801711	0.5980	115.0- 175.0	161.5	
			Average of Peak Amounts =			0.5521			
						RPD = 1.99			
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	37624500	0.0282			
2	2	7.843	7.843	0.000	36439003	0.0250			
						RPD = 11.89			

QC Flag Legend

Review Flags
M - Manually Integrated

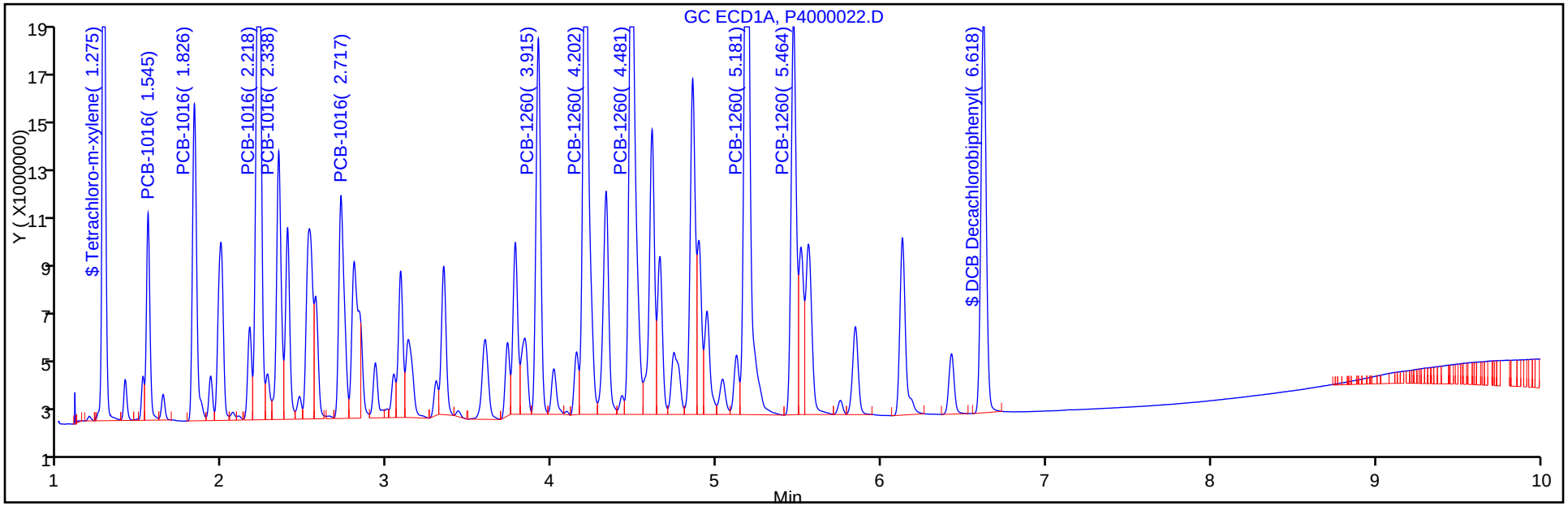
Report Date: 19-Apr-2013 09:25:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

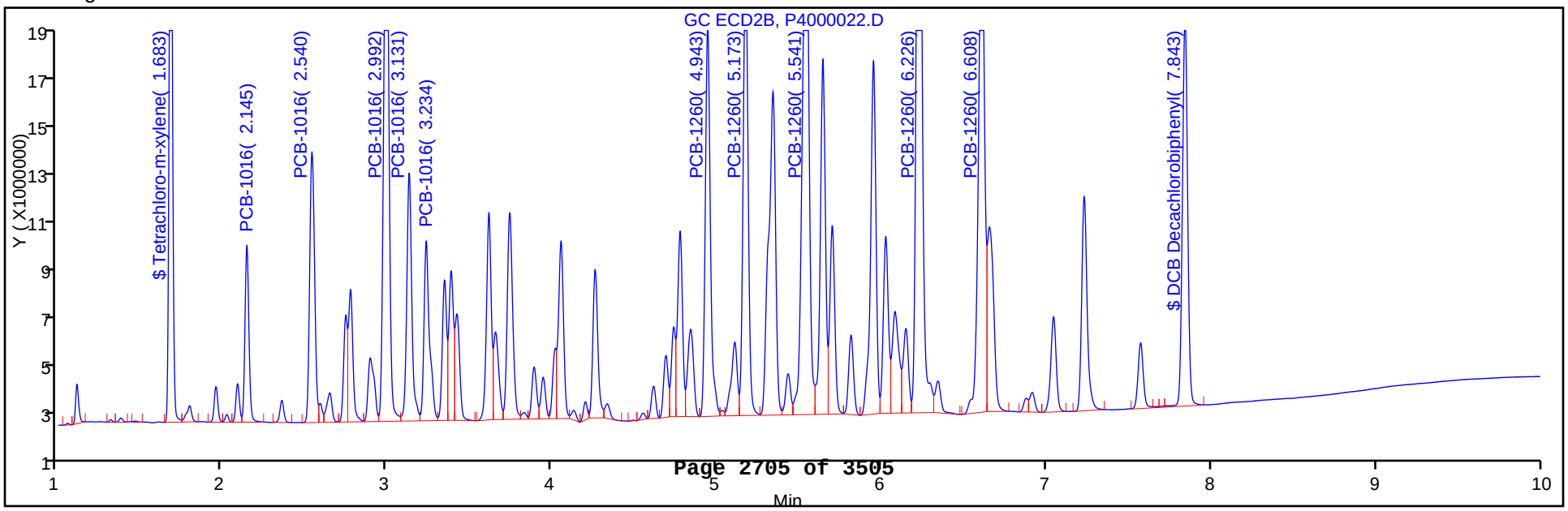
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000022.D

Injection Date:	17-Apr-2013 15:38:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



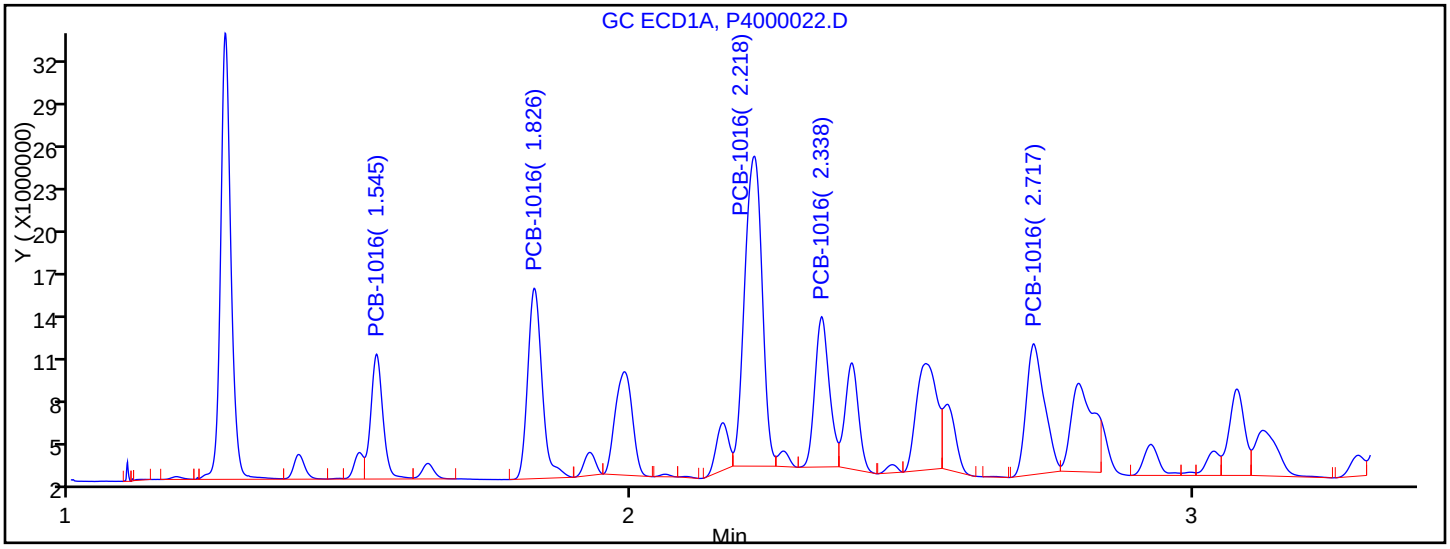
Report Date: 19-Apr-2013 09:25:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000022.D

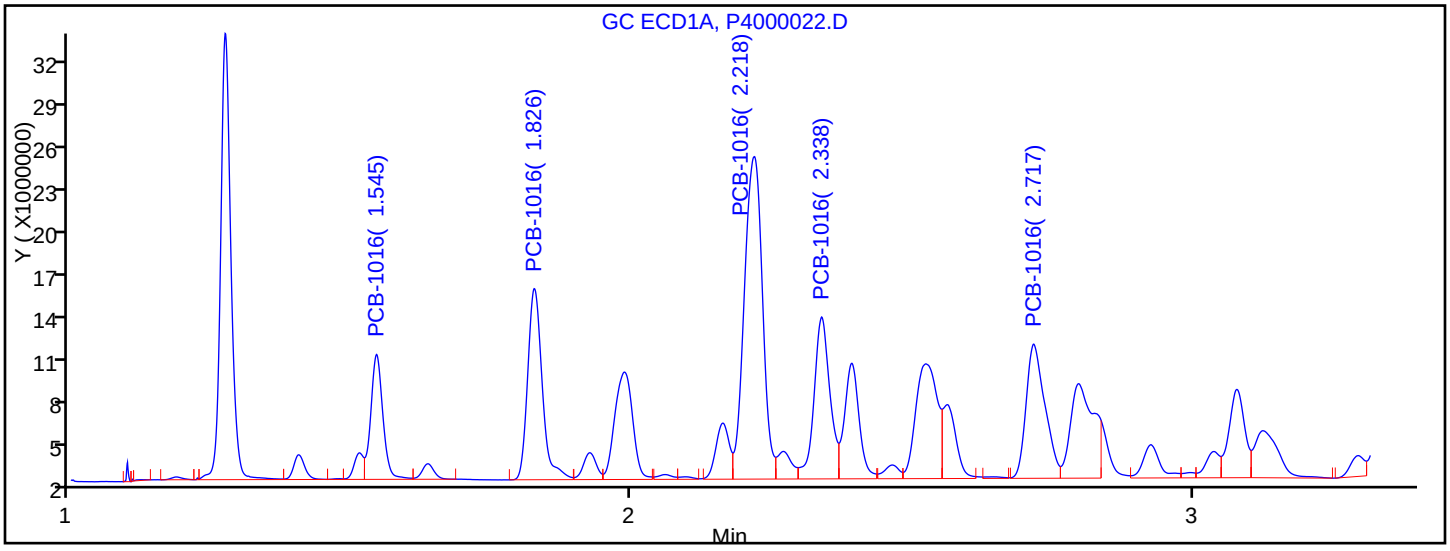
Injection Date:	17-Apr-2013 15:38:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.545	Response = 13185223	
RT = 1.826	Response = 23769041	M
RT = 2.218	Response = 47147966	M
RT = 2.338	Response = 18874532	M
RT = 2.717	Response = 20678238	M



Manual Integration Results

RT = 1.545	Response = 13185223	
RT = 1.826	Response = 24234382	M
RT = 2.218	Response = 51223771	M
RT = 2.338	Response = 22401727	M
RT = 2.717	Response = 22042311	M

Reviewer: hassl, 19-Apr-2013 08:49:17

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/23 Calibration Date: 04/17/2013 15:38

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000022.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	25091926		0.489	0.500	-2.2	20.0
PCB-1016 Peak 2	Ave	50771162	48097606		0.474	0.500	-5.3	20.0
PCB-1016 Peak 3	Ave	99379492	106379576		0.535	0.500	7.0	20.0
PCB-1016 Peak 4	Ave	44018240	44875644		0.510	0.500	1.9	20.0
PCB-1016 Peak 5	Ave	34251515	35463970		0.518	0.500	3.5	20.0
PCB-1260 Peak 1	Ave	68786213	71574908		0.520	0.500	4.1	20.0
PCB-1260 Peak 2	Ave	79832052	82408526		0.516	0.500	3.2	20.0
PCB-1260 Peak 3	Ave	118169923	130925180		0.554	0.500	10.8	20.0
PCB-1260 Peak 4	Ave	145808797	166794164		0.572	0.500	14.4	20.0
PCB-1260 Peak 5	Ave	96662928	115603422		0.598	0.500	19.6	20.0
Tetrachloro-m-xylene	Ave	1577823383	1574275840		0.0249	0.0250	-0.2	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1457560120		0.0250	0.0250	0.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82267/23 Calibration Date: 04/17/2013 15:38

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000022.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.23	3.13	3.33
PCB-1260 Peak 1	4.94	4.84	5.04
PCB-1260 Peak 2	5.17	5.07	5.27
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.68	1.58	1.78
DCB Decachlorobiphenyl	7.84	7.74	7.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000022.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 17-Apr-2013 15:38:29 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018945-023
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 22
Lims Batch ID: 82267 Lims Sample ID: 23
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:47 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 08:49:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.275	0.000	40076574	0.0253			
2	2	1.683	1.683	0.000	39356896	0.0249			
						RPD = 1.45			
6 PCB-1016									M
1	100	1.545	1.545	0.000	13185223	0.4859		100.0	
1	2	1.826	1.826	0.000	24234382	0.4949	156.0- 206.0	183.8	M
1	3	2.218	2.218	0.000	51223771	0.5482	312.4- 362.4	388.5	M
1	4	2.338	2.338	0.000	22401727	0.5339	118.7- 188.7	169.9	M
1	5	2.717	2.717	0.000	22042311	0.5199	125.6- 175.6	167.2	M
			Average of Peak Amounts =			0.5165			
2	6	2.145	2.145	0.000	12545963	0.4892		100.0	
2	7	2.540	2.540	0.000	24048803	0.4737	169.6- 229.6	191.7	
2	8	2.992	2.992	0.000	53189788	0.5352	351.4- 411.4	424.0	
2	9	3.131	3.131	0.000	22437822	0.5097	141.3- 201.3	178.8	
2	10	3.234	3.234	0.000	17731985	0.5177	102.5- 162.5	141.3	
			Average of Peak Amounts =			0.5051			
						RPD = 2.24			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.915	3.915	0.000	31986806	0.5126		100.0	
1	2	4.202	4.202	0.000	59000539	0.5357	152.2- 202.2	184.5	
1	3	4.481	4.481	0.000	60584607	0.5627	146.4- 196.4	189.4	
1	4	5.181	5.181	0.000	73432013	0.5676	180.7- 230.7	229.6	
1	5	5.464	5.464	0.000	37103472	0.6370	64.1- 114.1	116.0	
			Average of Peak Amounts =			0.5631			
2	6	4.943	4.943	0.000	35787454	0.5203		100.0	
2	7	5.173	5.173	0.000	41204263	0.5161	87.6- 147.6	115.1	
2	8	5.541	5.541	0.000	65462590	0.5540	144.7- 204.7	182.9	
2	9	6.226	6.226	0.000	83397082	0.5720	187.7- 247.7	233.0	
2	10	6.608	6.608	0.000	57801711	0.5980	115.0- 175.0	161.5	
			Average of Peak Amounts =			0.5521			
						RPD = 1.99			
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.618	0.000	37624500	0.0282			
2	2	7.843	7.843	0.000	36439003	0.0250			
						RPD = 11.89			

QC Flag Legend

Review Flags
M - Manually Integrated

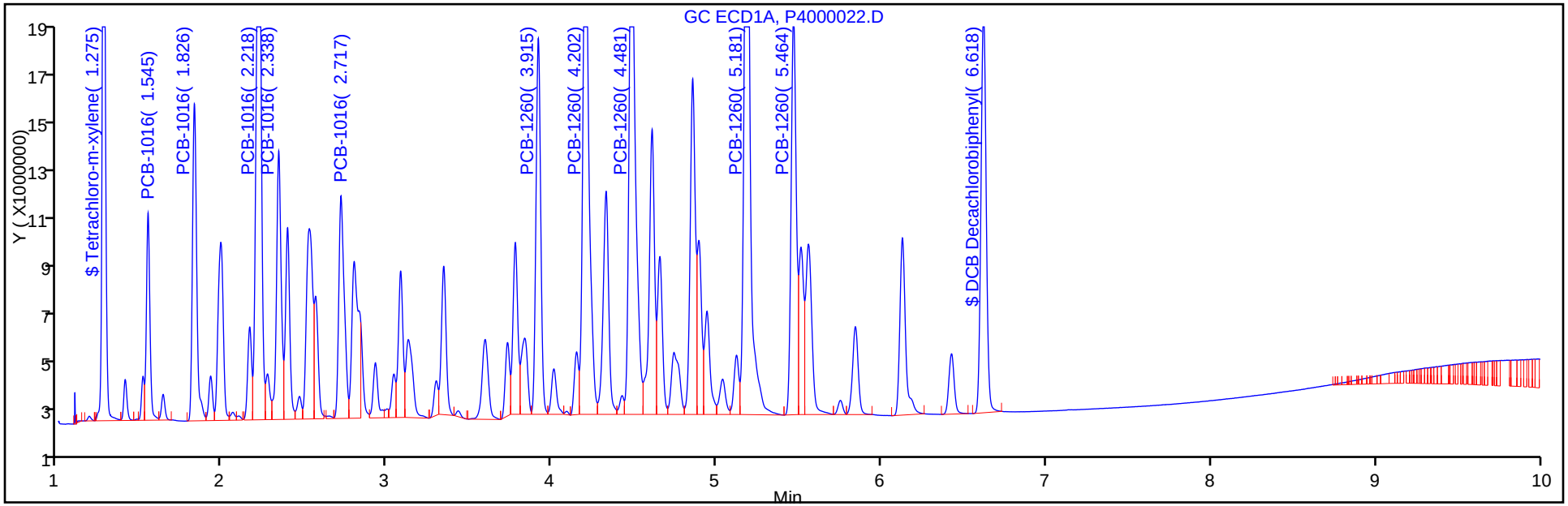
Report Date: 19-Apr-2013 09:25:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

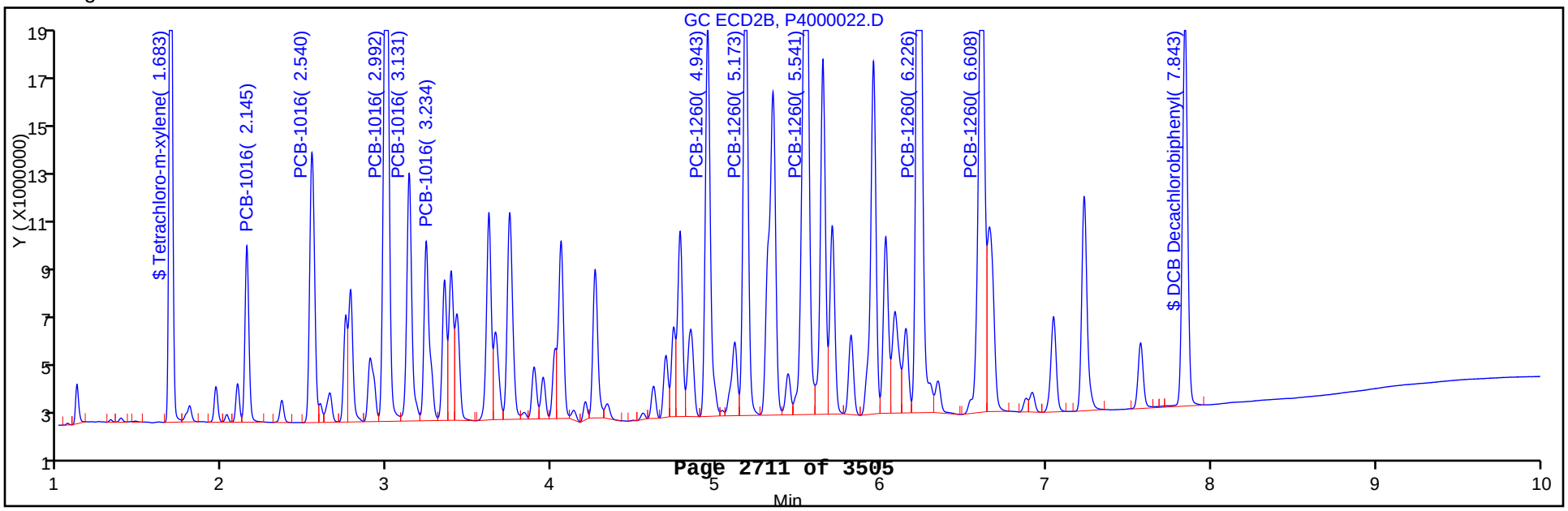
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000022.D

Injection Date:	17-Apr-2013 15:38:29	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	23
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/3 Calibration Date: 04/18/2013 09:37

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	24352736		0.449	0.500	-10.3	20.0
PCB-1016 Peak 2	Ave	48967138	41162660		0.420	0.500	-15.9	20.0
PCB-1016 Peak 3	Ave	93440084	81178842		0.434	0.500	-13.1	20.0
PCB-1016 Peak 4	Ave	41962283	32597866		0.388	0.500	-22.3*	20.0
PCB-1016 Peak 5	Ave	42399034	36388474		0.429	0.500	-14.2	20.0
PCB-1260 Peak 1	Ave	62400345	56292882		0.451	0.500	-9.8	20.0
PCB-1260 Peak 2	Ave	110128120	103463764		0.470	0.500	-6.1	20.0
PCB-1260 Peak 3	Ave	107668512	104047250		0.483	0.500	-3.4	20.0
PCB-1260 Peak 4	Ave	129376197	128852720		0.498	0.500	-0.4	20.0
PCB-1260 Peak 5	Ave	58244642	60156072		0.516	0.500	3.3	20.0
Tetrachloro-m-xylene	Ave	1583607317	1443434520		0.0228	0.0250	-8.9	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1370135280		0.0257	0.0250	2.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/3 Calibration Date: 04/18/2013 09:37

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.62	6.52	6.72

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 18-Apr-2013 09:37:23 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018971-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82363 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:59 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	36085863	0.0228			
2	2	1.682	1.682	0.000	34192106	0.0217			
						RPD = 5.02			
6 PCB-1016									
1	100	1.545	1.545	0.000	12176368	0.4487		100.0	
1	2	1.827	1.827	0.000	20581330	0.4203	156.0- 206.0	169.0	
1	3	2.221	2.221	0.000	40589421	0.4344	312.4- 362.4	333.3	
1	4	2.340	2.340	0.000	16298933	0.3884	118.7- 188.7	133.9	
1	5	2.717	2.717	0.000	18194237	0.4291	125.6- 175.6	149.4	
			Average of Peak Amounts =			0.4242			
2	6	2.145	2.145	0.000	10765563	0.4197		100.0	
2	7	2.541	2.541	0.000	21797841	0.4293	169.6- 229.6	202.5	
2	8	2.992	2.992	0.000	45365829	0.4565	351.4- 411.4	421.4	
2	9	3.131	3.131	0.000	19396844	0.4407	141.3- 201.3	180.2	
2	10	3.234	3.234	0.000	15143219	0.4421	102.5- 162.5	140.7	
			Average of Peak Amounts =			0.4377			
						RPD = 3.13			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.916	0.000	28146441	0.4511		100.0	
1	2	4.201	4.201	0.000	51731882	0.4697	152.2- 202.2	183.8	
1	3	4.482	4.482	0.000	52023625	0.4832	146.4- 196.4	184.8	
1	4	5.182	5.182	0.000	64426360	0.4980	180.7- 230.7	228.9	
1	5	5.467	5.467	0.000	30078036	0.5164	64.1- 114.1	106.9	
			Average of Peak Amounts =			0.4837			
2	6	4.943	4.943	0.000	31038910	0.4512		100.0	
2	7	5.173	5.173	0.000	37001630	0.4635	87.6- 147.6	119.2	
2	8	5.542	5.542	0.000	55697747	0.4713	144.7- 204.7	179.4	
2	9	6.226	6.226	0.000	71289059	0.4889	187.7- 247.7	229.7	
2	10	6.607	6.607	0.000	48077428	0.4974	115.0- 175.0	154.9	
			Average of Peak Amounts =			0.4745			
						RPD = 1.92			
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	34253382	0.0257			
2	2	7.841	7.841	0.000	34939206	0.0240			
						RPD = 6.72			

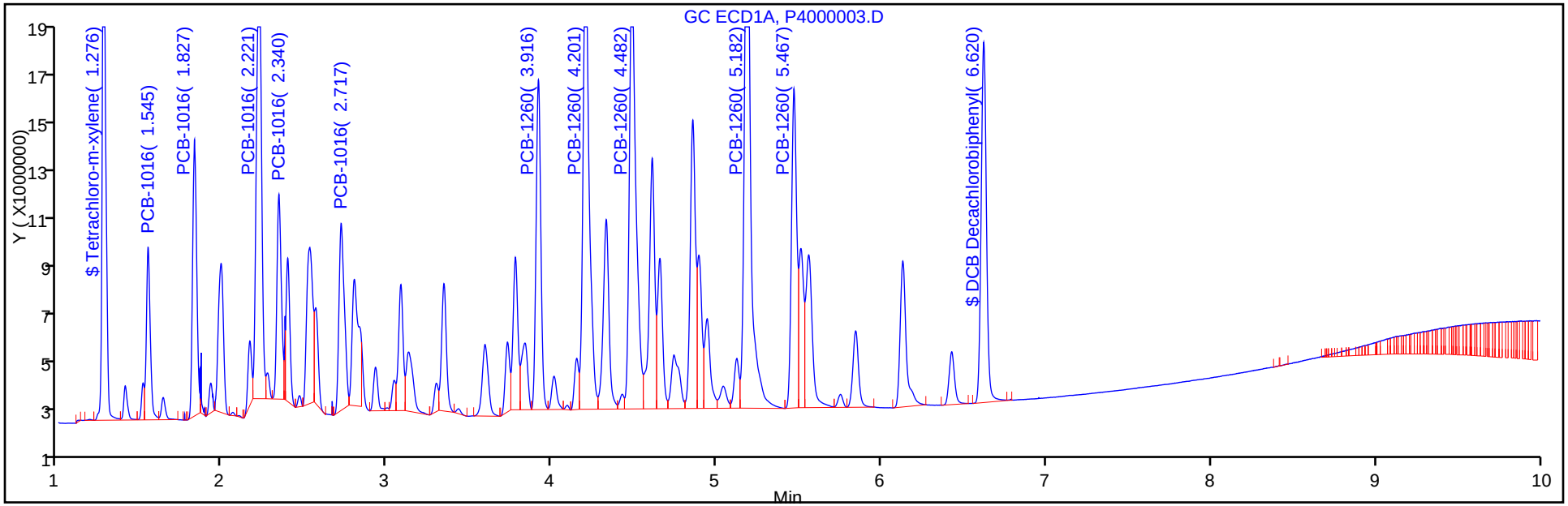
Report Date: 19-Apr-2013 14:47:59 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

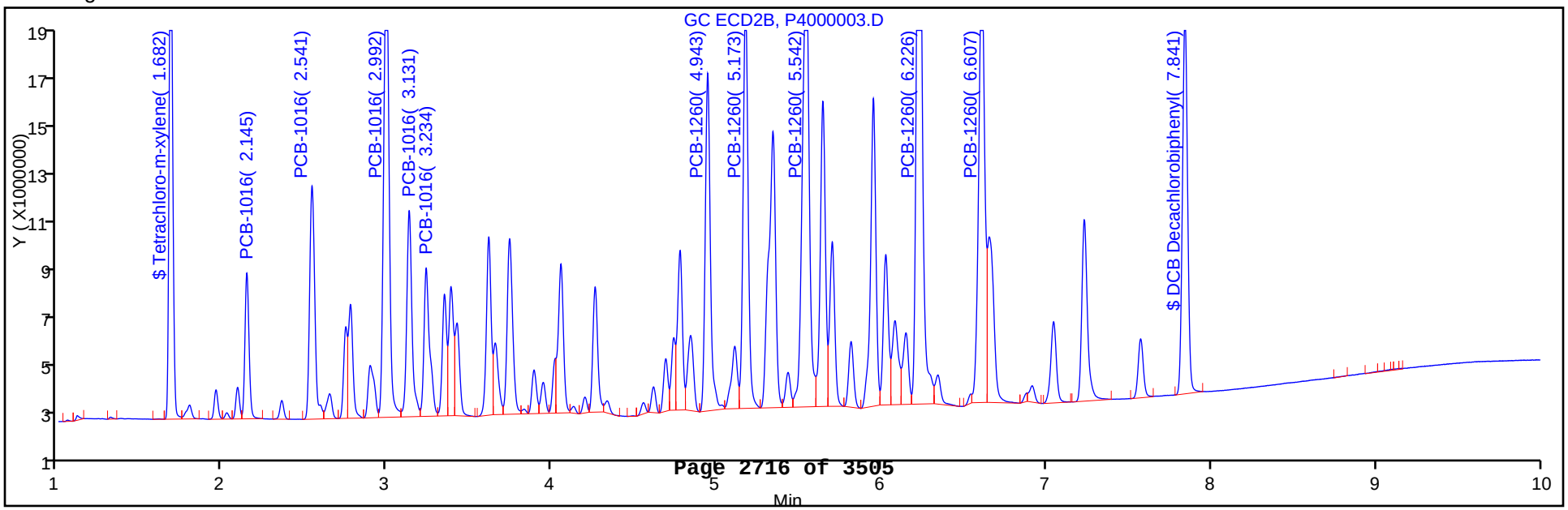
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000003.D

Injection Date:	18-Apr-2013 09:37:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/3 Calibration Date: 04/18/2013 09:37

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	21531126		0.420	0.500	-16.1	20.0
PCB-1016 Peak 2	Ave	50771162	43595682		0.429	0.500	-14.1	20.0
PCB-1016 Peak 3	Ave	99379492	90731658		0.456	0.500	-8.7	20.0
PCB-1016 Peak 4	Ave	44018240	38793688		0.441	0.500	-11.9	20.0
PCB-1016 Peak 5	Ave	34251515	30286438		0.442	0.500	-11.6	20.0
PCB-1260 Peak 1	Ave	68786213	62077820		0.451	0.500	-9.8	20.0
PCB-1260 Peak 2	Ave	79832052	74003260		0.463	0.500	-7.3	20.0
PCB-1260 Peak 3	Ave	118169923	111395494		0.471	0.500	-5.7	20.0
PCB-1260 Peak 4	Ave	145808797	142578118		0.489	0.500	-2.2	20.0
PCB-1260 Peak 5	Ave	96662928	96154856		0.497	0.500	-0.5	20.0
Tetrachloro-m-xylene	Ave	1577823383	1367684240		0.0217	0.0250	-13.3	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1397568240		0.0240	0.0250	-4.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/3 Calibration Date: 04/18/2013 09:37

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.23	3.13	3.33
PCB-1260 Peak 1	4.94	4.84	5.04
PCB-1260 Peak 2	5.17	5.07	5.27
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.68	1.58	1.78
DCB Decachlorobiphenyl	7.84	7.74	7.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 18-Apr-2013 09:37:23 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0018971-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82363 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:59 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	36085863	0.0228			
2	2	1.682	1.682	0.000	34192106	0.0217			
						RPD = 5.02			
6 PCB-1016									
1	100	1.545	1.545	0.000	12176368	0.4487		100.0	
1	2	1.827	1.827	0.000	20581330	0.4203	156.0- 206.0	169.0	
1	3	2.221	2.221	0.000	40589421	0.4344	312.4- 362.4	333.3	
1	4	2.340	2.340	0.000	16298933	0.3884	118.7- 188.7	133.9	
1	5	2.717	2.717	0.000	18194237	0.4291	125.6- 175.6	149.4	
			Average of Peak Amounts =			0.4242			
2	6	2.145	2.145	0.000	10765563	0.4197		100.0	
2	7	2.541	2.541	0.000	21797841	0.4293	169.6- 229.6	202.5	
2	8	2.992	2.992	0.000	45365829	0.4565	351.4- 411.4	421.4	
2	9	3.131	3.131	0.000	19396844	0.4407	141.3- 201.3	180.2	
2	10	3.234	3.234	0.000	15143219	0.4421	102.5- 162.5	140.7	
			Average of Peak Amounts =			0.4377			
						RPD = 3.13			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.916	0.000	28146441	0.4511		100.0	
1	2	4.201	4.201	0.000	51731882	0.4697	152.2- 202.2	183.8	
1	3	4.482	4.482	0.000	52023625	0.4832	146.4- 196.4	184.8	
1	4	5.182	5.182	0.000	64426360	0.4980	180.7- 230.7	228.9	
1	5	5.467	5.467	0.000	30078036	0.5164	64.1- 114.1	106.9	
			Average of Peak Amounts =			0.4837			
2	6	4.943	4.943	0.000	31038910	0.4512		100.0	
2	7	5.173	5.173	0.000	37001630	0.4635	87.6- 147.6	119.2	
2	8	5.542	5.542	0.000	55697747	0.4713	144.7- 204.7	179.4	
2	9	6.226	6.226	0.000	71289059	0.4889	187.7- 247.7	229.7	
2	10	6.607	6.607	0.000	48077428	0.4974	115.0- 175.0	154.9	
			Average of Peak Amounts =			0.4745			
						RPD = 1.92			
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	34253382	0.0257			
2	2	7.841	7.841	0.000	34939206	0.0240			
						RPD = 6.72			

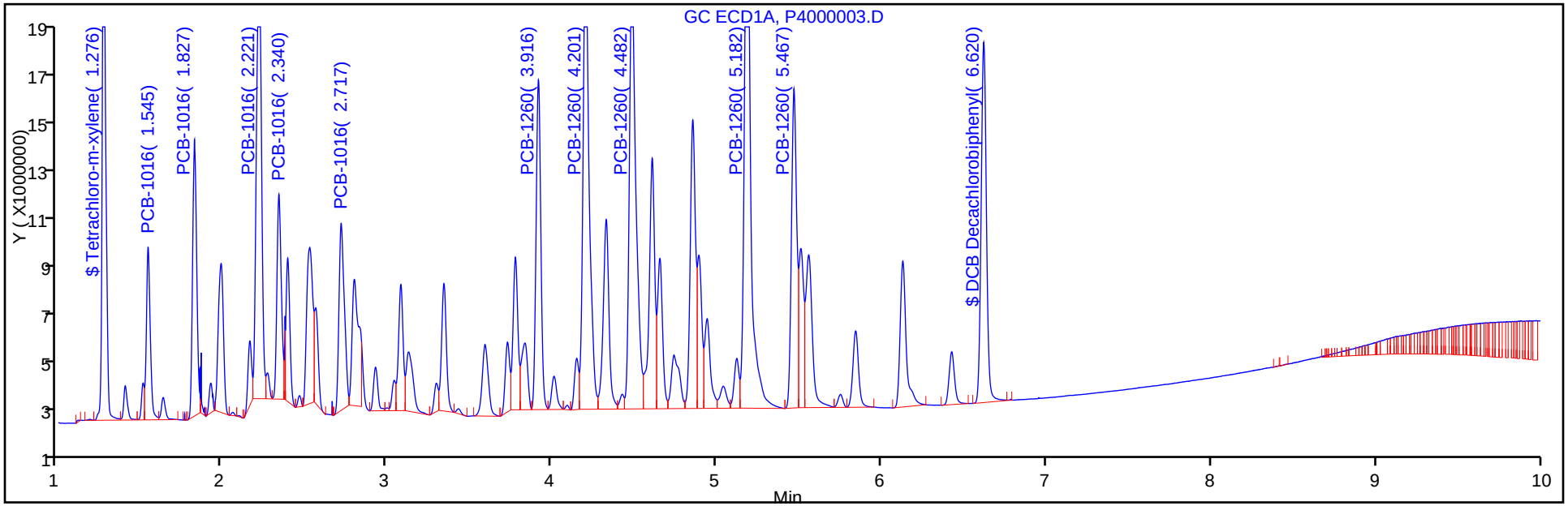
Report Date: 19-Apr-2013 14:48:00 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

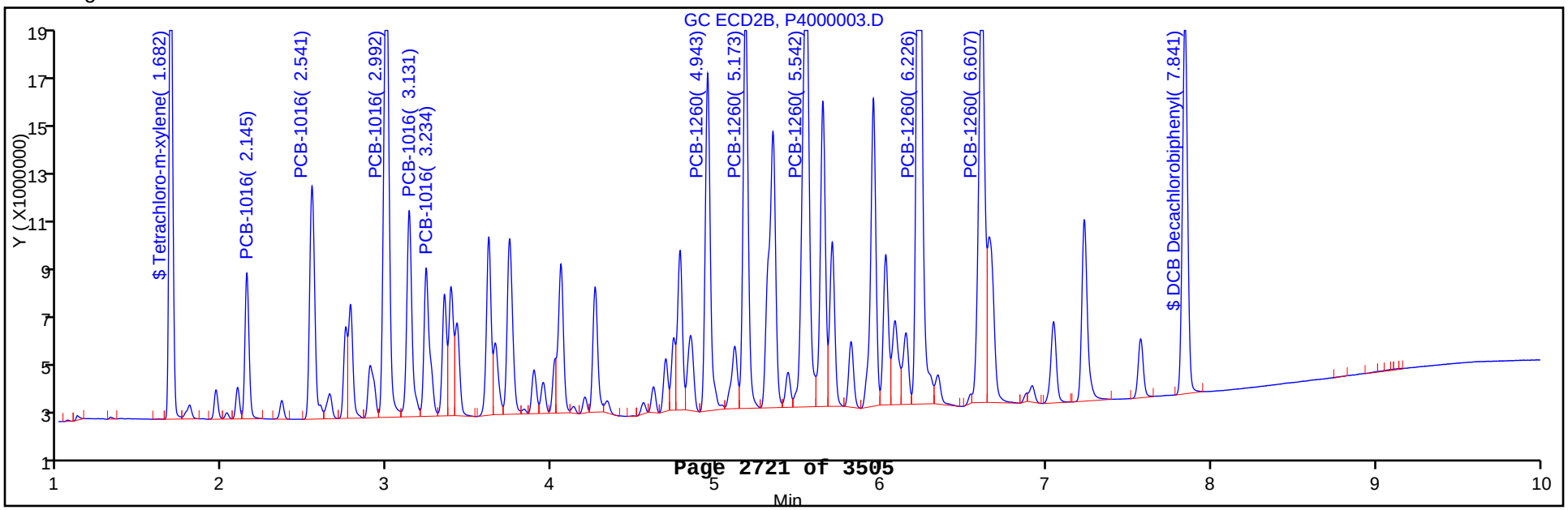
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000003.D

Injection Date:	18-Apr-2013 09:37:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/14 Calibration Date: 04/18/2013 12:29

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	25776942		0.475	0.500	-5.0	20.0
PCB-1016 Peak 2	Ave	48967138	47662788		0.487	0.500	-2.7	20.0
PCB-1016 Peak 3	Ave	93440084	98766718		0.529	0.500	5.7	20.0
PCB-1016 Peak 4	Ave	41962283	43335746		0.516	0.500	3.3	20.0
PCB-1016 Peak 5	Ave	42399034	38192718		0.450	0.500	-9.9	20.0
PCB-1260 Peak 1	Ave	62400345	59867030		0.480	0.500	-4.1	20.0
PCB-1260 Peak 2	Ave	110128120	97492010		0.443	0.500	-11.5	20.0
PCB-1260 Peak 3	Ave	107668512	100106280		0.465	0.500	-7.0	20.0
PCB-1260 Peak 4	Ave	129376197	96974410		0.375	0.500	-25.0*	20.0
PCB-1260 Peak 5	Ave	58244642	40571152		0.348	0.500	-30.3*	20.0
Tetrachloro-m-xylene	Ave	1583607317	1579795720		0.0249	0.0250	-0.2	20.0
DCB Decachlorobiphenyl	Ave	1335217125	2904854920		0.0544	0.0250	117.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/14 Calibration Date: 04/18/2013 12:29

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.62	6.52	6.72

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000014.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 18-Apr-2013 12:29:13 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018971-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 14
Lims Batch ID: 82363 Lims Sample ID: 14
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.275	0.000	39494893	0.0249			
2	2	1.683	1.683	0.000	37670245	0.0239			
						RPD = 4.36			
6 PCB-1016									
1	100	1.545	1.545	0.000	12888471	0.4749		100.0	
1	2	1.827	1.827	0.000	23831394	0.4867	156.0- 206.0	184.9	
1	3	2.219	2.219	0.000	49383359	0.5285	312.4- 362.4	383.2	
1	4	2.339	2.339	0.000	21667873	0.5164	118.7- 188.7	168.1	
1	5	2.717	2.717	0.000	19096359	0.4504	125.6- 175.6	148.2	
			Average of Peak Amounts =			0.4914			
2	6	2.145	2.145	0.000	11936954	0.4654		100.0	
2	7	2.541	2.541	0.000	22970109	0.4524	169.6- 229.6	192.4	
2	8	2.993	2.993	0.000	50680283	0.5100	351.4- 411.4	424.6	
2	9	3.131	3.131	0.000	21587655	0.4904	141.3- 201.3	180.8	
2	10	3.235	3.235	0.000	17024455	0.4970	102.5- 162.5	142.6	
			Average of Peak Amounts =			0.4831			
						RPD = 1.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.916	0.000	29933515	0.4797		100.0	
1	2	4.203	4.203	0.000	48746005	0.4426	152.2- 202.2	162.8	
1	3	4.483	4.483	0.000	50053140	0.4649	146.4- 196.4	167.2	
1	4	5.184	5.184	0.000	48487205	0.3748	180.7- 230.7	162.0	
1	5	5.467	5.467	0.000	20285576	0.3483	64.1- 114.1	67.8	
			Average of Peak Amounts =			0.4221			
2	6	4.944	4.944	0.000	33115089	0.4814		100.0	
2	7	5.175	5.175	0.000	36912056	0.4624	87.6- 147.6	111.5	
2	8	5.543	5.543	0.000	59160233	0.5006	144.7- 204.7	178.7	
2	9	6.228	6.228	0.000	74956778	0.5141	187.7- 247.7	226.4	
2	10	6.609	6.609	0.000	50976055	0.5274	115.0- 175.0	153.9	
			Average of Peak Amounts =			0.4972			
						RPD = 16.34			
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	72621373	0.0544			
2	2	7.843	7.843	0.000	35044268	0.0241			
						RPD = 77.33			

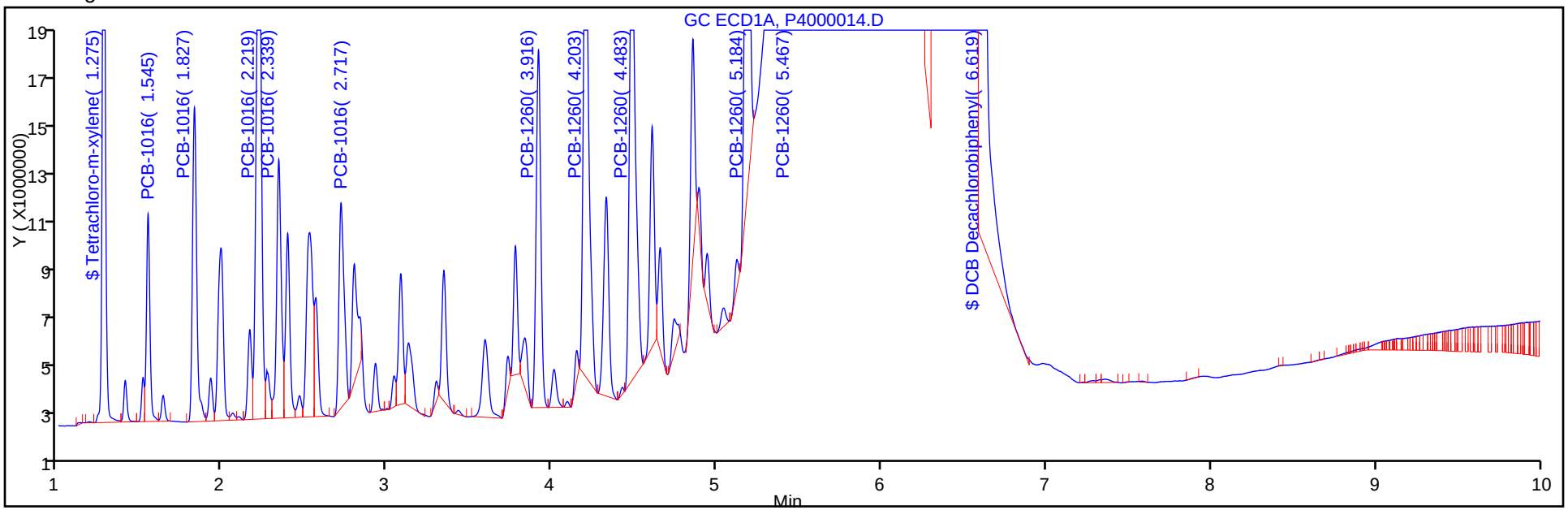
Report Date: 19-Apr-2013 14:47:51 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

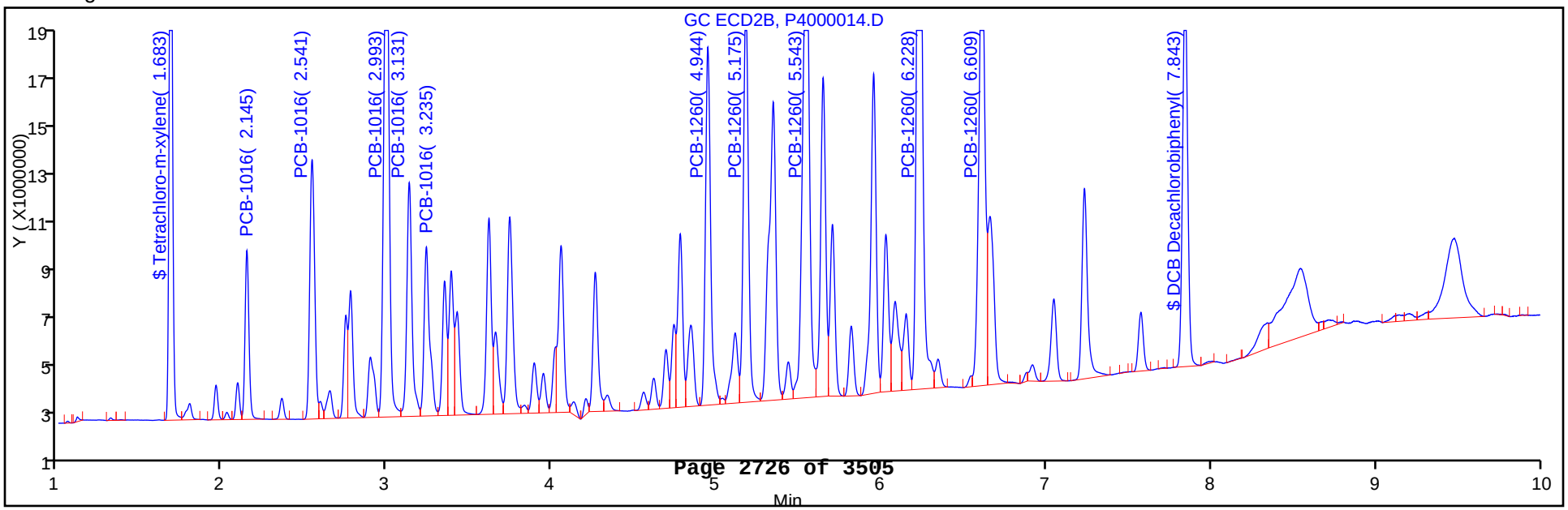
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000014.D

Injection Date:	18-Apr-2013 12:29:13	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/14 Calibration Date: 04/18/2013 12:29

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	23873908		0.465	0.500	-6.9	20.0
PCB-1016 Peak 2	Ave	50771162	45940218		0.452	0.500	-9.5	20.0
PCB-1016 Peak 3	Ave	99379492	101360566		0.510	0.500	2.0	20.0
PCB-1016 Peak 4	Ave	44018240	43175310		0.490	0.500	-1.9	20.0
PCB-1016 Peak 5	Ave	34251515	34048910		0.497	0.500	-0.6	20.0
PCB-1260 Peak 1	Ave	68786213	66230178		0.481	0.500	-3.7	20.0
PCB-1260 Peak 2	Ave	79832052	73824112		0.462	0.500	-7.5	20.0
PCB-1260 Peak 3	Ave	118169923	118320466		0.501	0.500	0.1	20.0
PCB-1260 Peak 4	Ave	145808797	149913556		0.514	0.500	2.8	20.0
PCB-1260 Peak 5	Ave	96662928	101952110		0.527	0.500	5.5	20.0
Tetrachloro-m-xylene	Ave	1577823383	1506809800		0.0239	0.0250	-4.5	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1401770720		0.0241	0.0250	-3.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/14 Calibration Date: 04/18/2013 12:29

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000014.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.94	4.84	5.04
PCB-1260 Peak 2	5.18	5.08	5.28
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.68	1.58	1.78
DCB Decachlorobiphenyl	7.84	7.74	7.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000014.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 18-Apr-2013 12:29:13 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018971-014
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 14
Lims Batch ID: 82363 Lims Sample ID: 14
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.275	0.000	39494893	0.0249			
2	2	1.683	1.683	0.000	37670245	0.0239			
						RPD = 4.36			
6 PCB-1016									
1	100	1.545	1.545	0.000	12888471	0.4749		100.0	
1	2	1.827	1.827	0.000	23831394	0.4867	156.0- 206.0	184.9	
1	3	2.219	2.219	0.000	49383359	0.5285	312.4- 362.4	383.2	
1	4	2.339	2.339	0.000	21667873	0.5164	118.7- 188.7	168.1	
1	5	2.717	2.717	0.000	19096359	0.4504	125.6- 175.6	148.2	
			Average of Peak Amounts =			0.4914			
2	6	2.145	2.145	0.000	11936954	0.4654		100.0	
2	7	2.541	2.541	0.000	22970109	0.4524	169.6- 229.6	192.4	
2	8	2.993	2.993	0.000	50680283	0.5100	351.4- 411.4	424.6	
2	9	3.131	3.131	0.000	21587655	0.4904	141.3- 201.3	180.8	
2	10	3.235	3.235	0.000	17024455	0.4970	102.5- 162.5	142.6	
			Average of Peak Amounts =			0.4831			
						RPD = 1.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.916	0.000	29933515	0.4797		100.0	
1	2	4.203	4.203	0.000	48746005	0.4426	152.2- 202.2	162.8	
1	3	4.483	4.483	0.000	50053140	0.4649	146.4- 196.4	167.2	
1	4	5.184	5.184	0.000	48487205	0.3748	180.7- 230.7	162.0	
1	5	5.467	5.467	0.000	20285576	0.3483	64.1- 114.1	67.8	
			Average of Peak Amounts =			0.4221			
2	6	4.944	4.944	0.000	33115089	0.4814		100.0	
2	7	5.175	5.175	0.000	36912056	0.4624	87.6- 147.6	111.5	
2	8	5.543	5.543	0.000	59160233	0.5006	144.7- 204.7	178.7	
2	9	6.228	6.228	0.000	74956778	0.5141	187.7- 247.7	226.4	
2	10	6.609	6.609	0.000	50976055	0.5274	115.0- 175.0	153.9	
			Average of Peak Amounts =			0.4972			
						RPD = 16.34			
$ 12 DCB Decachlorobiphenyl									
1	100	6.619	6.619	0.000	72621373	0.0544			
2	2	7.843	7.843	0.000	35044268	0.0241			
						RPD = 77.33			

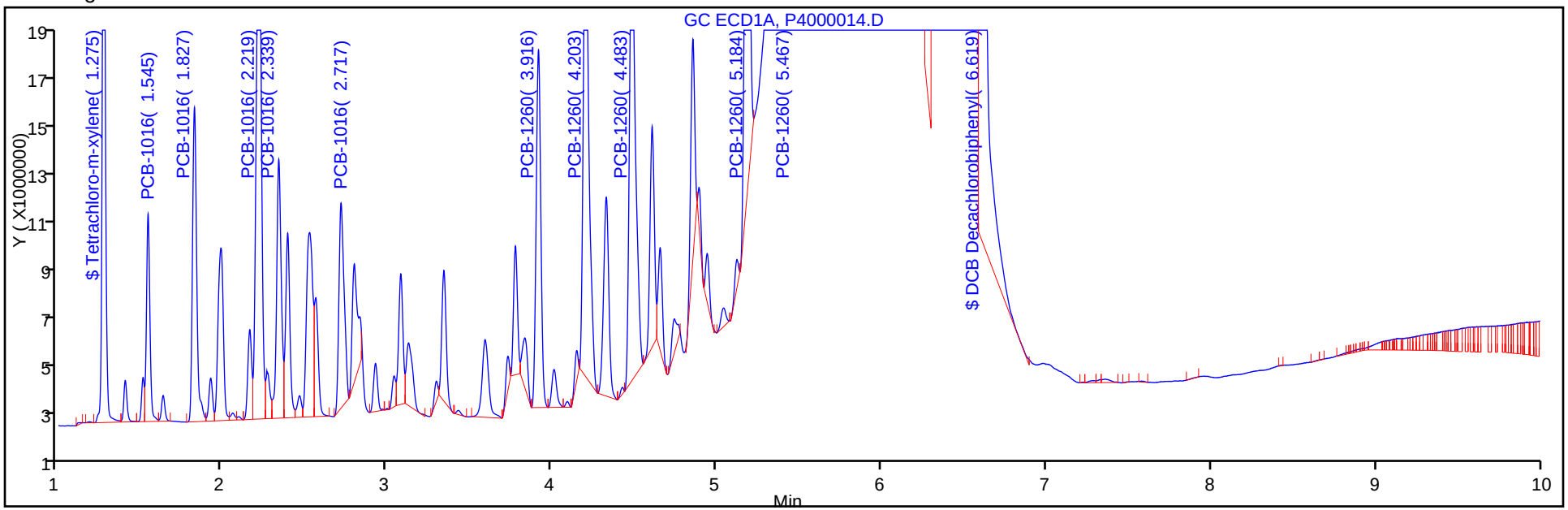
Report Date: 19-Apr-2013 14:47:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

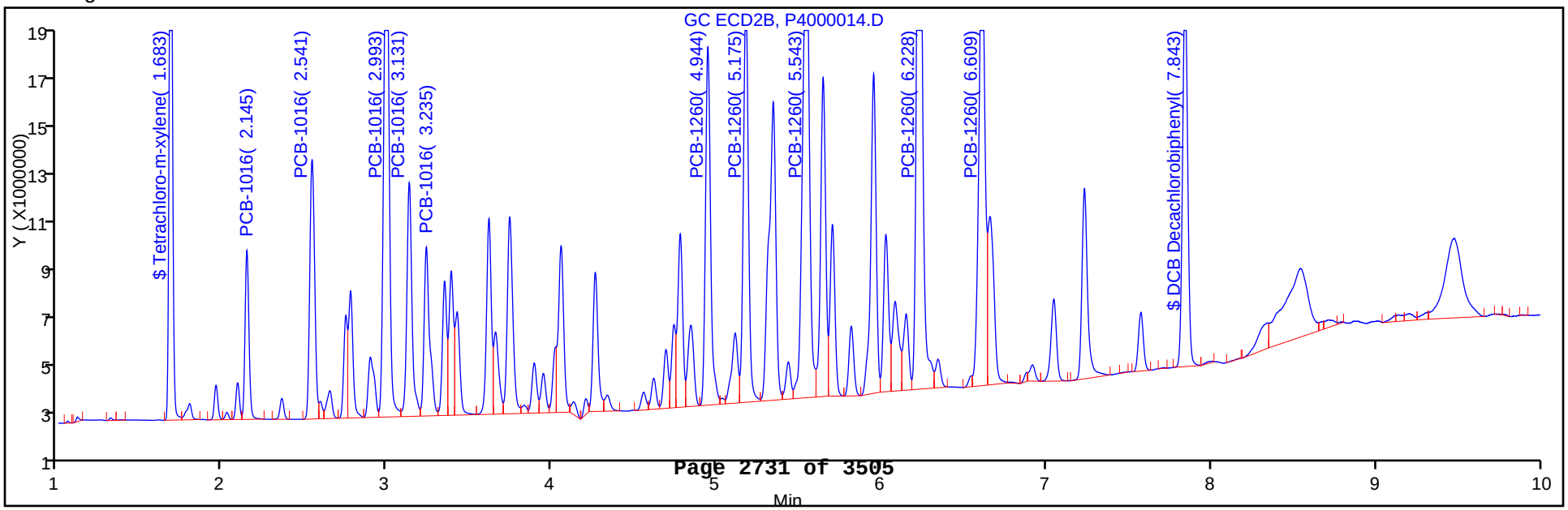
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000014.D

Injection Date:	18-Apr-2013 12:29:13	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	14
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/25 Calibration Date: 04/18/2013 15:21

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000025.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	27132660		0.500	0.500	-0.0	20.0
PCB-1016 Peak 2	Ave	48967138	50077478		0.511	0.500	2.3	20.0
PCB-1016 Peak 3	Ave	93440084	103564810		0.554	0.500	10.8	20.0
PCB-1016 Peak 4	Ave	41962283	46397918		0.553	0.500	10.6	20.0
PCB-1016 Peak 5	Ave	42399034	46237674		0.545	0.500	9.1	20.0
PCB-1260 Peak 1	Ave	62400345	64059772		0.513	0.500	2.7	20.0
PCB-1260 Peak 2	Ave	110128120	118003292		0.536	0.500	7.2	20.0
PCB-1260 Peak 3	Ave	107668512	118993420		0.553	0.500	10.5	20.0
PCB-1260 Peak 4	Ave	129376197	144951948		0.560	0.500	12.0	20.0
PCB-1260 Peak 5	Ave	58244642	70736784		0.607	0.500	21.4*	20.0
Tetrachloro-m-xylene	Ave	1583607317	1652028160		0.0261	0.0250	4.3	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1473266240		0.0276	0.0250	10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/25 Calibration Date: 04/18/2013 15:21

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000025.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.20	4.10	4.30
PCB-1260 Peak 3	4.48	4.38	4.58
PCB-1260 Peak 4	5.18	5.08	5.28
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.62	6.52	6.72

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000025.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 18-Apr-2013 15:21:23 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018971-025
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 25
Lims Batch ID: 82363 Lims Sample ID: 25
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:48:03 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:45:03

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.277	0.000	41300704	0.0261			
2	2	1.683	1.683	0.000	39196010	0.0248			
						RPD = 4.86			
6 PCB-1016									M
1	100	1.546	1.546	0.000	13566330	0.4999		100.0	
1	2	1.828	1.828	0.000	25038739	0.5113	156.0- 206.0	184.6	M
1	3	2.219	2.219	0.000	51782405	0.5542	312.4- 362.4	381.7	M
1	4	2.340	2.340	0.000	23198959	0.5529	118.7- 188.7	171.0	M
1	5	2.718	2.718	0.000	23118837	0.5453	125.6- 175.6	170.4	M
			Average of Peak Amounts =			0.5327			
2	6	2.146	2.146	0.000	12452096	0.4855		100.0	
2	7	2.542	2.542	0.000	23988633	0.4725	169.6- 229.6	192.6	
2	8	2.993	2.993	0.000	53047014	0.5338	351.4- 411.4	426.0	
2	9	3.132	3.132	0.000	22789178	0.5177	141.3- 201.3	183.0	
2	10	3.236	3.236	0.000	18017181	0.5260	102.5- 162.5	144.7	
			Average of Peak Amounts =			0.5071			
						RPD = 4.93			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.917	3.917	0.000	32029886	0.5133		100.0	
1	2	4.203	4.203	0.000	59001646	0.5358	152.2- 202.2	184.2	
1	3	4.483	4.483	0.000	59496710	0.5526	146.4- 196.4	185.8	
1	4	5.184	5.184	0.000	72475974	0.5602	180.7- 230.7	226.3	
1	5	5.469	5.469	0.000	35368392	0.6072	64.1- 114.1	110.4	
			Average of Peak Amounts =			0.5538			
2	6	4.945	4.945	0.000	35918705	0.5222		100.0	
2	7	5.175	5.175	0.000	43023396	0.5389	87.6- 147.6	119.8	
2	8	5.543	5.543	0.000	63925477	0.5410	144.7- 204.7	178.0	
2	9	6.228	6.228	0.000	79557975	0.5456	187.7- 247.7	221.5	
2	10	6.610	6.610	0.000	53476513	0.5532	115.0- 175.0	148.9	
			Average of Peak Amounts =			0.5402			
						RPD = 2.49			
$ 12 DCB Decachlorobiphenyl									
1	100	6.622	6.622	0.000	36831656	0.0276			
2	2	7.843	7.843	0.000	36518473	0.0251			
						RPD = 9.55			

QC Flag Legend

Review Flags
M - Manually Integrated

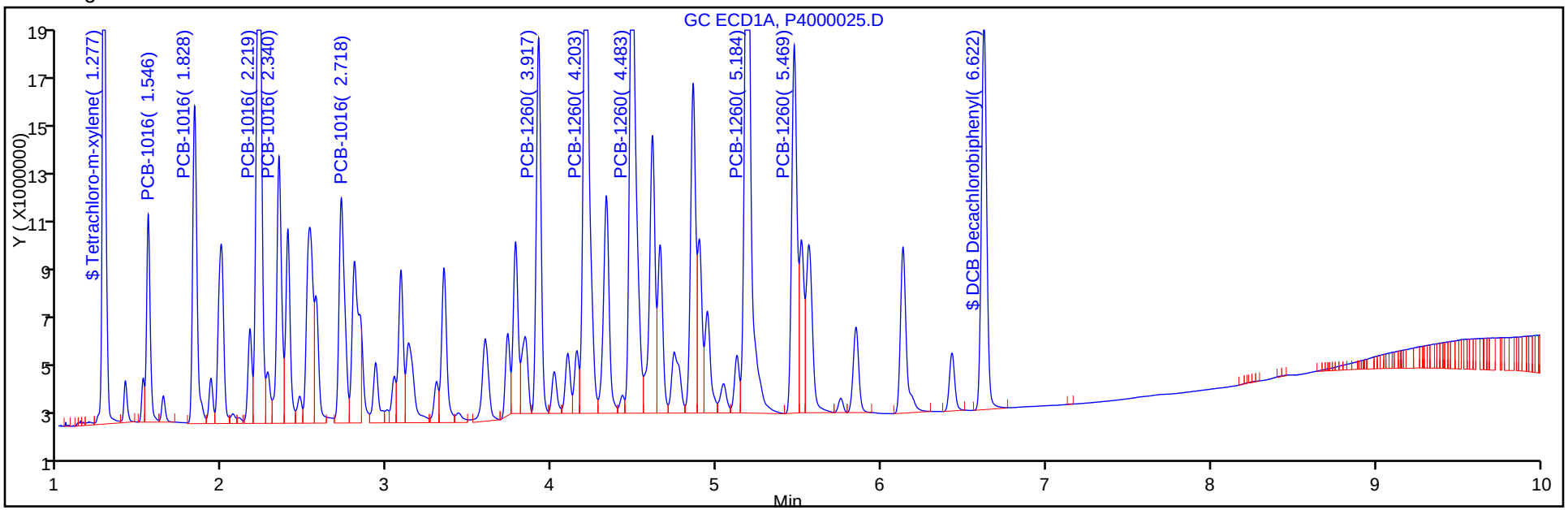
Report Date: 19-Apr-2013 14:48:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

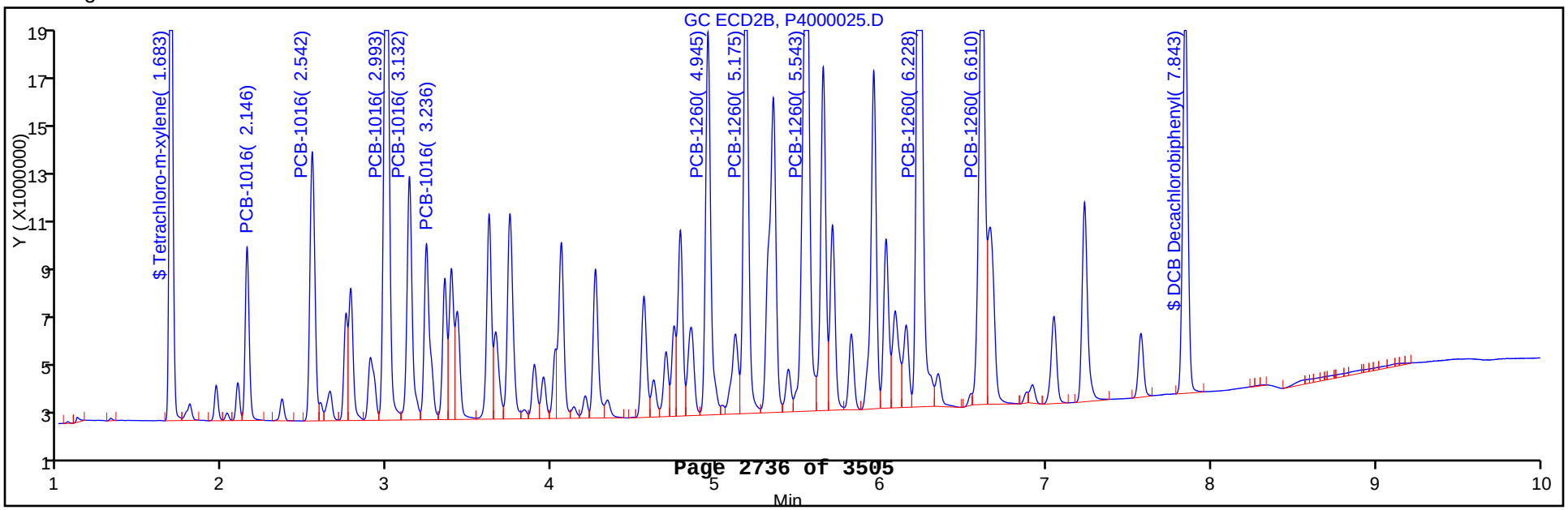
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000025.D

Injection Date:	18-Apr-2013 15:21:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



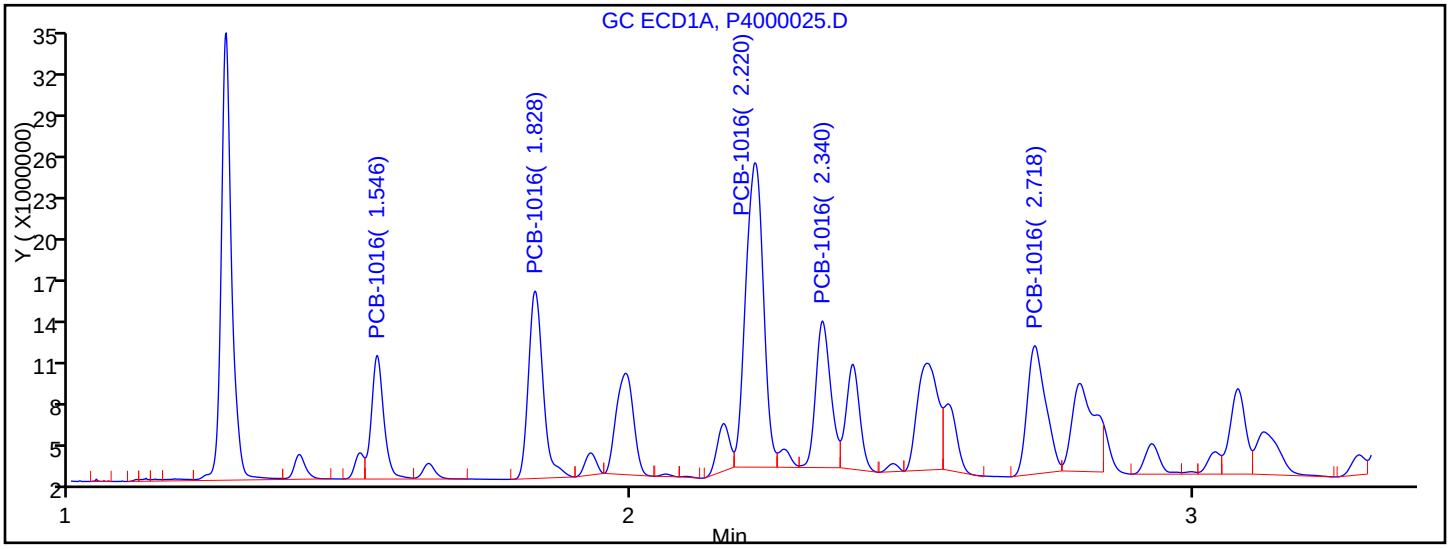
Report Date: 19-Apr-2013 14:48:04 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000025.D

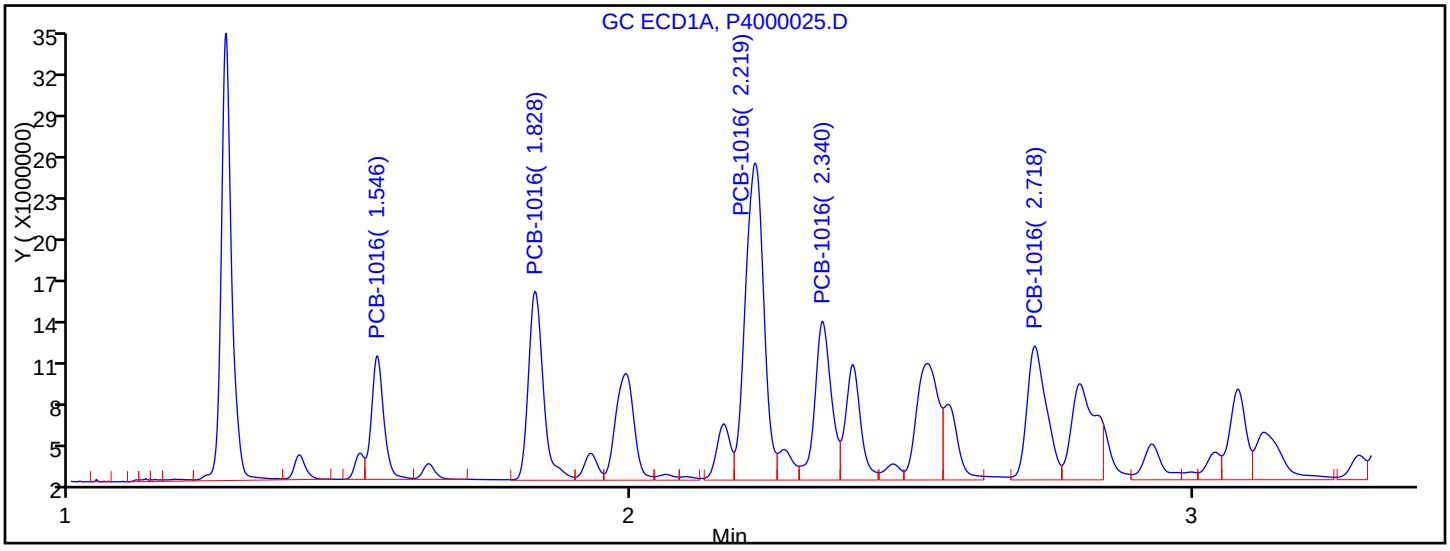
Injection Date:	18-Apr-2013 15:21:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.546	Response = 13566330	
RT = 1.828	Response = 24181393	M
RT = 2.220	Response = 47659193	M
RT = 2.340	Response = 19404584	M
RT = 2.718	Response = 20915454	M



Manual Integration Results

RT = 1.546	Response = 13566330	
RT = 1.828	Response = 25038739	M
RT = 2.219	Response = 51782405	M
RT = 2.340	Response = 23198959	M
RT = 2.718	Response = 23118837	M

Reviewer: hassl, 19-Apr-2013 14:45:03

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/25 Calibration Date: 04/18/2013 15:21

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000025.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	24904192		0.485	0.500	-2.9	20.0
PCB-1016 Peak 2	Ave	50771162	47977266		0.472	0.500	-5.5	20.0
PCB-1016 Peak 3	Ave	99379492	106094028		0.534	0.500	6.8	20.0
PCB-1016 Peak 4	Ave	44018240	45578356		0.518	0.500	3.5	20.0
PCB-1016 Peak 5	Ave	34251515	36034362		0.526	0.500	5.2	20.0
PCB-1260 Peak 1	Ave	68786213	71837410		0.522	0.500	4.4	20.0
PCB-1260 Peak 2	Ave	79832052	86046792		0.539	0.500	7.8	20.0
PCB-1260 Peak 3	Ave	118169923	127850954		0.541	0.500	8.2	20.0
PCB-1260 Peak 4	Ave	145808797	159115950		0.546	0.500	9.1	20.0
PCB-1260 Peak 5	Ave	96662928	106953026		0.553	0.500	10.6	20.0
Tetrachloro-m-xylene	Ave	1577823383	1567840400		0.0248	0.0250	-0.6	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1460738920		0.0251	0.0250	0.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82363/25 Calibration Date: 04/18/2013 15:21

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000025.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	2.99	2.89	3.09
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.95	4.85	5.05
PCB-1260 Peak 2	5.18	5.08	5.28
PCB-1260 Peak 3	5.54	5.44	5.64
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.68	1.58	1.78
DCB Decachlorobiphenyl	7.84	7.74	7.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000025.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 18-Apr-2013 15:21:23 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0018971-025
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 25
Lims Batch ID: 82363 Lims Sample ID: 25
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:48:03 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:45:03

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.277	0.000	41300704	0.0261			
2	2	1.683	1.683	0.000	39196010	0.0248			
						RPD = 4.86			
6 PCB-1016									M
1	100	1.546	1.546	0.000	13566330	0.4999		100.0	
1	2	1.828	1.828	0.000	25038739	0.5113	156.0- 206.0	184.6	M
1	3	2.219	2.219	0.000	51782405	0.5542	312.4- 362.4	381.7	M
1	4	2.340	2.340	0.000	23198959	0.5529	118.7- 188.7	171.0	M
1	5	2.718	2.718	0.000	23118837	0.5453	125.6- 175.6	170.4	M
			Average of Peak Amounts =			0.5327			
2	6	2.146	2.146	0.000	12452096	0.4855		100.0	
2	7	2.542	2.542	0.000	23988633	0.4725	169.6- 229.6	192.6	
2	8	2.993	2.993	0.000	53047014	0.5338	351.4- 411.4	426.0	
2	9	3.132	3.132	0.000	22789178	0.5177	141.3- 201.3	183.0	
2	10	3.236	3.236	0.000	18017181	0.5260	102.5- 162.5	144.7	
			Average of Peak Amounts =			0.5071			
						RPD = 4.93			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.917	3.917	0.000	32029886	0.5133		100.0	
1	2	4.203	4.203	0.000	59001646	0.5358	152.2- 202.2	184.2	
1	3	4.483	4.483	0.000	59496710	0.5526	146.4- 196.4	185.8	
1	4	5.184	5.184	0.000	72475974	0.5602	180.7- 230.7	226.3	
1	5	5.469	5.469	0.000	35368392	0.6072	64.1- 114.1	110.4	
			Average of Peak Amounts =			0.5538			
2	6	4.945	4.945	0.000	35918705	0.5222		100.0	
2	7	5.175	5.175	0.000	43023396	0.5389	87.6- 147.6	119.8	
2	8	5.543	5.543	0.000	63925477	0.5410	144.7- 204.7	178.0	
2	9	6.228	6.228	0.000	79557975	0.5456	187.7- 247.7	221.5	
2	10	6.610	6.610	0.000	53476513	0.5532	115.0- 175.0	148.9	
			Average of Peak Amounts =			0.5402			
						RPD = 2.49			
$ 12 DCB Decachlorobiphenyl									
1	100	6.622	6.622	0.000	36831656	0.0276			
2	2	7.843	7.843	0.000	36518473	0.0251			
						RPD = 9.55			

QC Flag Legend

Review Flags
M - Manually Integrated

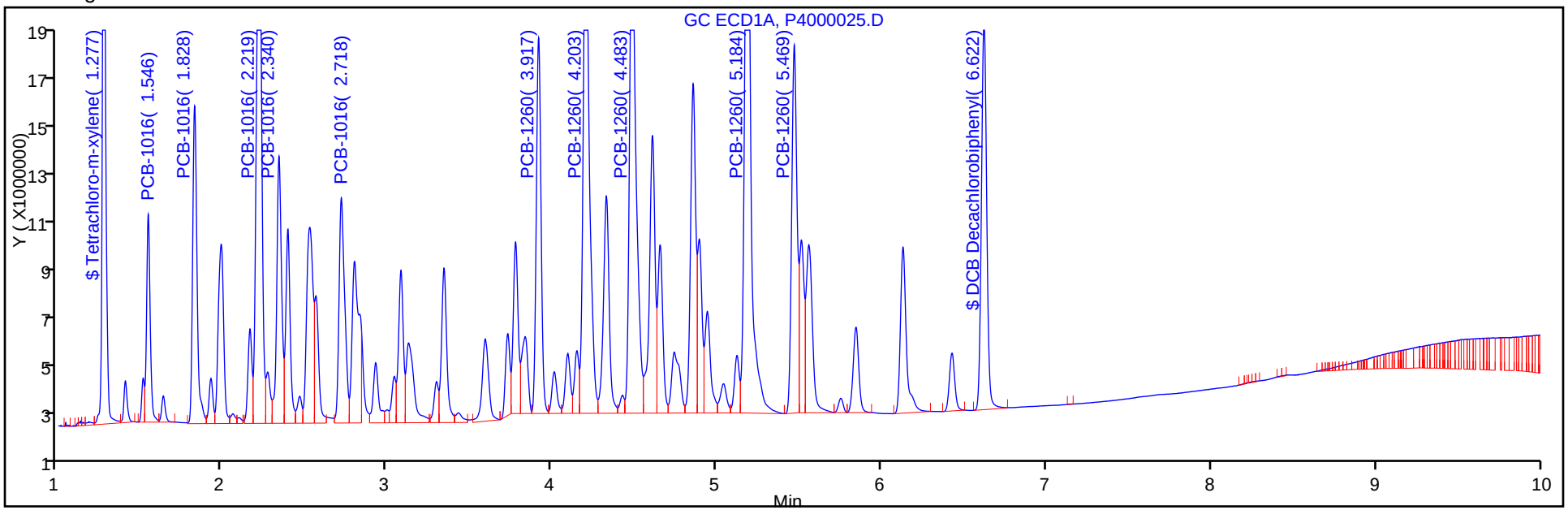
Report Date: 19-Apr-2013 14:48:04 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

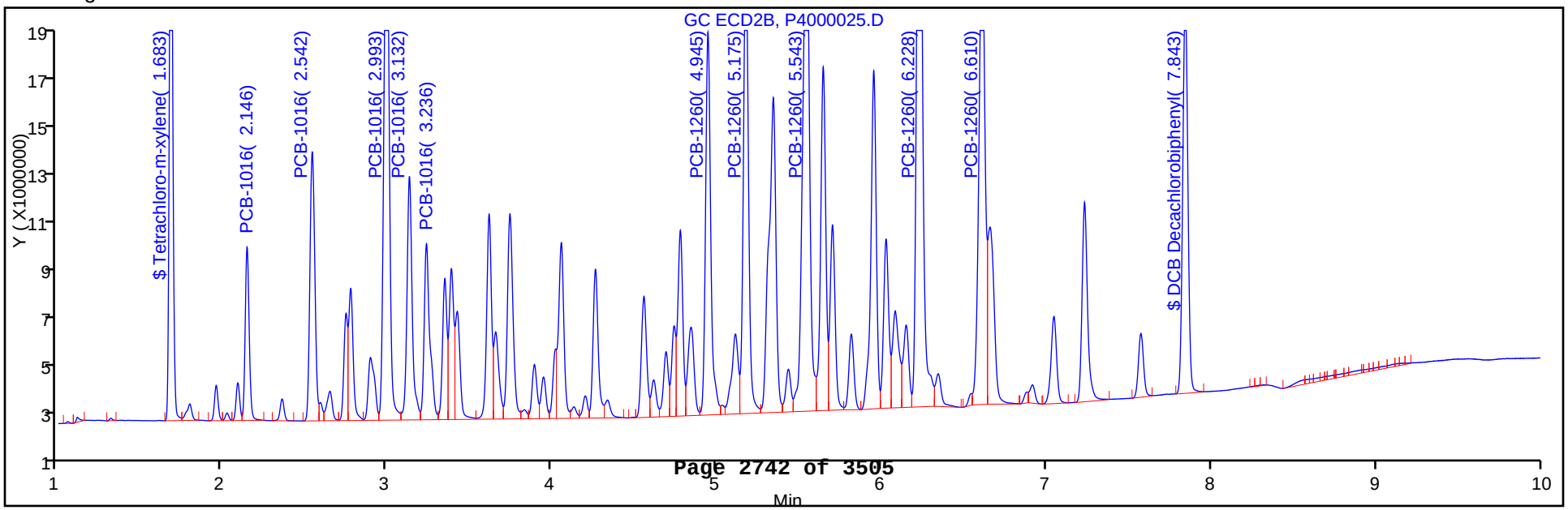
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000025.D

Injection Date:	18-Apr-2013 15:21:23	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	25
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/3 Calibration Date: 04/19/2013 08:35

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	27912510		0.514	0.500	2.9	20.0
PCB-1016 Peak 2	Ave	48967138	48912230		0.499	0.500	-0.1	20.0
PCB-1016 Peak 3	Ave	93440084	96602996		0.517	0.500	3.4	20.0
PCB-1016 Peak 4	Ave	41962283	42283404		0.504	0.500	0.8	20.0
PCB-1016 Peak 5	Ave	42399034	41843702		0.493	0.500	-1.3	20.0
PCB-1260 Peak 1	Ave	62400345	60596566		0.486	0.500	-2.9	20.0
PCB-1260 Peak 2	Ave	110128120	111445018		0.506	0.500	1.2	20.0
PCB-1260 Peak 3	Ave	107668512	111502796		0.518	0.500	3.6	20.0
PCB-1260 Peak 4	Ave	129376197	132397284		0.512	0.500	2.3	20.0
PCB-1260 Peak 5	Ave	58244642	64782072		0.556	0.500	11.2	20.0
Tetrachloro-m-xylene	Ave	1583607317	1614462680		0.0255	0.0250	1.9	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1479062800		0.0277	0.0250	10.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/3 Calibration Date: 04/19/2013 08:35

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.21	4.11	4.31
PCB-1260 Peak 3	4.49	4.39	4.59
PCB-1260 Peak 4	5.19	5.09	5.29
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.63	6.53	6.73

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 19-Apr-2013 08:35:07 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0019046-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82656 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:43 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	40361567	0.0255			
2	2	1.685	1.685	0.000	38259658	0.0242			
						RPD = 4.98			
6 PCB-1016									
1	100	1.547	1.547	0.000	13956255	0.5143		100.0	
1	2	1.828	1.828	0.000	24456115	0.4994	156.0- 206.0	175.2	
1	3	2.222	2.222	0.000	48301498	0.5169	312.4- 362.4	346.1	
1	4	2.344	2.344	0.000	21141702	0.5038	118.7- 188.7	151.5	
1	5	2.720	2.720	0.000	20921851	0.4935	125.6- 175.6	149.9	
			Average of Peak Amounts =			0.5056			
2	6	2.148	2.148	0.000	12137207	0.4732		100.0	
2	7	2.544	2.544	0.000	24302485	0.4787	169.6- 229.6	200.2	
2	8	2.996	2.996	0.000	50677714	0.5099	351.4- 411.4	417.5	
2	9	3.134	3.134	0.000	21746927	0.4940	141.3- 201.3	179.2	
2	10	3.238	3.238	0.000	17096154	0.4991	102.5- 162.5	140.9	
			Average of Peak Amounts =			0.4910			
						RPD = 2.93			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	30298283	0.4855		100.0	
1	2	4.206	4.206	0.000	55722509	0.5060	152.2- 202.2	183.9	
1	3	4.488	4.488	0.000	55751398	0.5178	146.4- 196.4	184.0	
1	4	5.190	5.190	0.000	66198642	0.5117	180.7- 230.7	218.5	
1	5	5.473	5.473	0.000	32391036	0.5561	64.1- 114.1	106.9	
			Average of Peak Amounts =			0.5154			
2	6	4.948	4.948	0.000	34803883	0.5060		100.0	
2	7	5.178	5.178	0.000	41520695	0.5201	87.6- 147.6	119.3	
2	8	5.546	5.546	0.000	61986106	0.5246	144.7- 204.7	178.1	
2	9	6.231	6.231	0.000	78456446	0.5381	187.7- 247.7	225.4	
2	10	6.611	6.611	0.000	52747917	0.5457	115.0- 175.0	151.6	
			Average of Peak Amounts =			0.5269			
						RPD = 2.20			
$ 12 DCB Decachlorobiphenyl									
1	100	6.625	6.625	0.000	36976570	0.0277			
2	2	7.847	7.847	0.000	38376456	0.0263			
						RPD = 4.99			

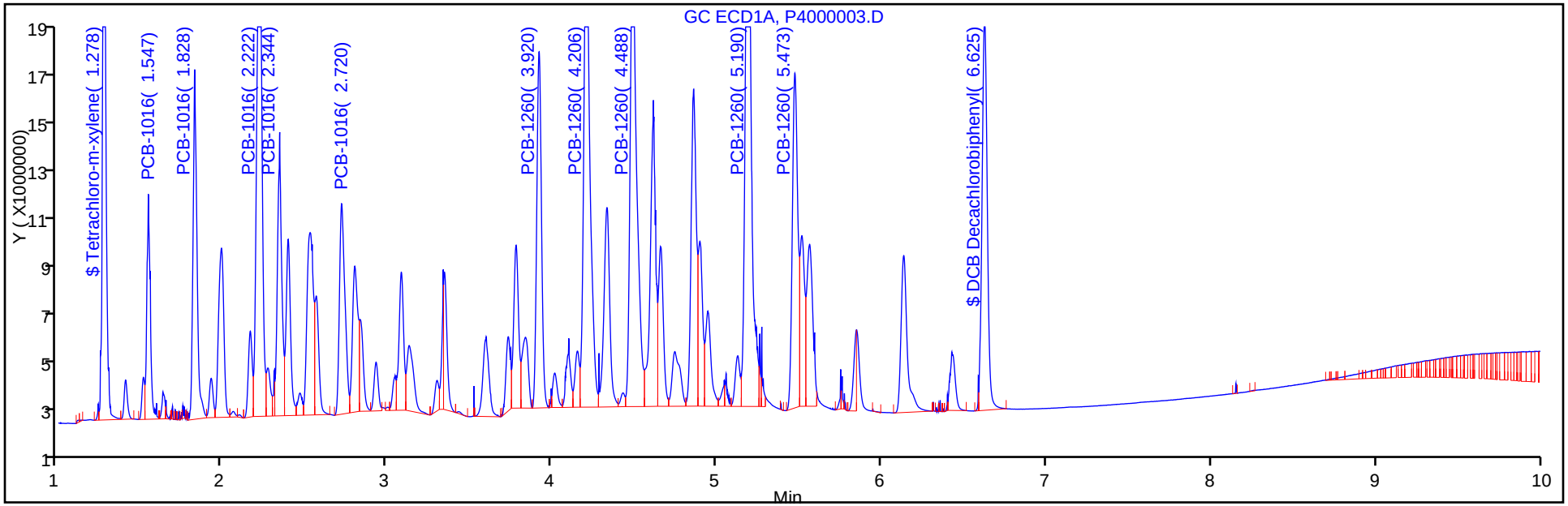
Report Date: 19-Apr-2013 13:11:43 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

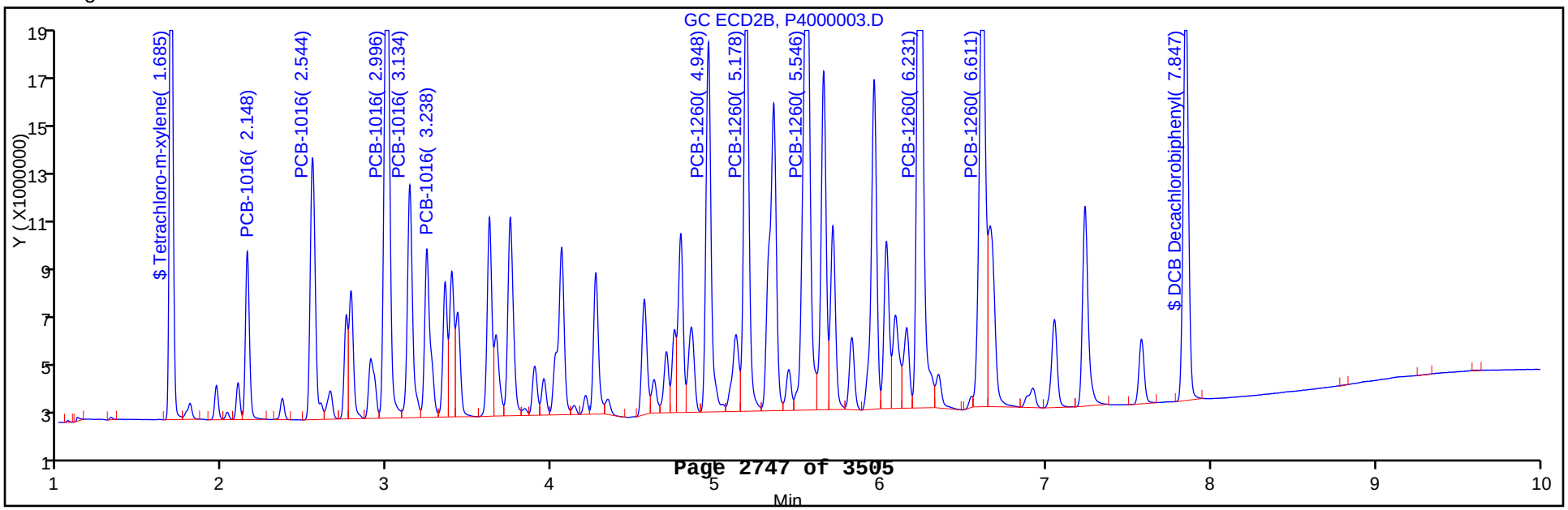
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000003.D

Injection Date:	19-Apr-2013 08:35:07	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/3 Calibration Date: 04/19/2013 08:35

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	24274414		0.473	0.500	-5.4	20.0
PCB-1016 Peak 2	Ave	50771162	48604970		0.479	0.500	-4.3	20.0
PCB-1016 Peak 3	Ave	99379492	101355428		0.510	0.500	2.0	20.0
PCB-1016 Peak 4	Ave	44018240	43493854		0.494	0.500	-1.2	20.0
PCB-1016 Peak 5	Ave	34251515	34192308		0.499	0.500	-0.2	20.0
PCB-1260 Peak 1	Ave	68786213	69607766		0.506	0.500	1.2	20.0
PCB-1260 Peak 2	Ave	79832052	83041390		0.520	0.500	4.0	20.0
PCB-1260 Peak 3	Ave	118169923	123972212		0.525	0.500	4.9	20.0
PCB-1260 Peak 4	Ave	145808797	156912892		0.538	0.500	7.6	20.0
PCB-1260 Peak 5	Ave	96662928	105495834		0.546	0.500	9.1	20.0
Tetrachloro-m-xylene	Ave	1577823383	1530386320		0.0242	0.0250	-3.0	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1535058240		0.0263	0.0250	5.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/3 Calibration Date: 04/19/2013 08:35

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	3.00	2.90	3.10
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.95	4.85	5.05
PCB-1260 Peak 2	5.18	5.08	5.28
PCB-1260 Peak 3	5.55	5.45	5.65
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.69	1.59	1.79
DCB Decachlorobiphenyl	7.85	7.75	7.95

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 19-Apr-2013 08:35:07 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0019046-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82656 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:43 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	40361567	0.0255			
2	2	1.685	1.685	0.000	38259658	0.0242			
						RPD = 4.98			
6 PCB-1016									
1	100	1.547	1.547	0.000	13956255	0.5143		100.0	
1	2	1.828	1.828	0.000	24456115	0.4994	156.0- 206.0	175.2	
1	3	2.222	2.222	0.000	48301498	0.5169	312.4- 362.4	346.1	
1	4	2.344	2.344	0.000	21141702	0.5038	118.7- 188.7	151.5	
1	5	2.720	2.720	0.000	20921851	0.4935	125.6- 175.6	149.9	
			Average of Peak Amounts =			0.5056			
2	6	2.148	2.148	0.000	12137207	0.4732		100.0	
2	7	2.544	2.544	0.000	24302485	0.4787	169.6- 229.6	200.2	
2	8	2.996	2.996	0.000	50677714	0.5099	351.4- 411.4	417.5	
2	9	3.134	3.134	0.000	21746927	0.4940	141.3- 201.3	179.2	
2	10	3.238	3.238	0.000	17096154	0.4991	102.5- 162.5	140.9	
			Average of Peak Amounts =			0.4910			
						RPD = 2.93			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	30298283	0.4855		100.0	
1	2	4.206	4.206	0.000	55722509	0.5060	152.2- 202.2	183.9	
1	3	4.488	4.488	0.000	55751398	0.5178	146.4- 196.4	184.0	
1	4	5.190	5.190	0.000	66198642	0.5117	180.7- 230.7	218.5	
1	5	5.473	5.473	0.000	32391036	0.5561	64.1- 114.1	106.9	
			Average of Peak Amounts =			0.5154			
2	6	4.948	4.948	0.000	34803883	0.5060		100.0	
2	7	5.178	5.178	0.000	41520695	0.5201	87.6- 147.6	119.3	
2	8	5.546	5.546	0.000	61986106	0.5246	144.7- 204.7	178.1	
2	9	6.231	6.231	0.000	78456446	0.5381	187.7- 247.7	225.4	
2	10	6.611	6.611	0.000	52747917	0.5457	115.0- 175.0	151.6	
			Average of Peak Amounts =			0.5269			
						RPD = 2.20			
$ 12 DCB Decachlorobiphenyl									
1	100	6.625	6.625	0.000	36976570	0.0277			
2	2	7.847	7.847	0.000	38376456	0.0263			
						RPD = 4.99			

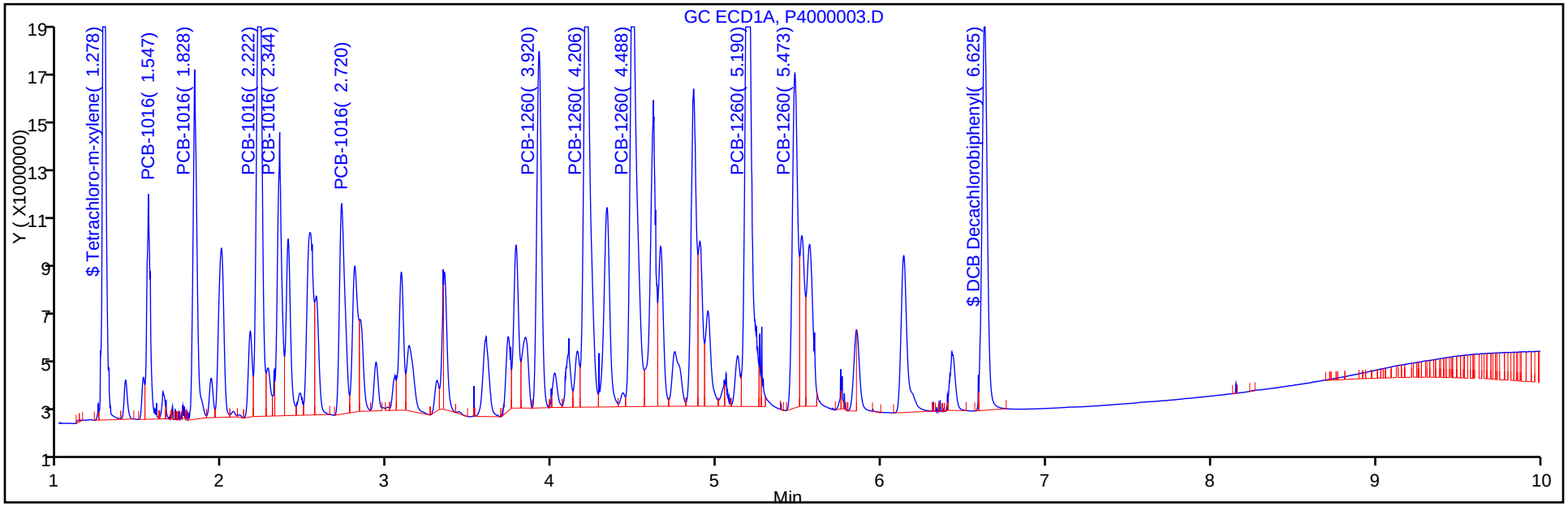
Report Date: 19-Apr-2013 13:11:44 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

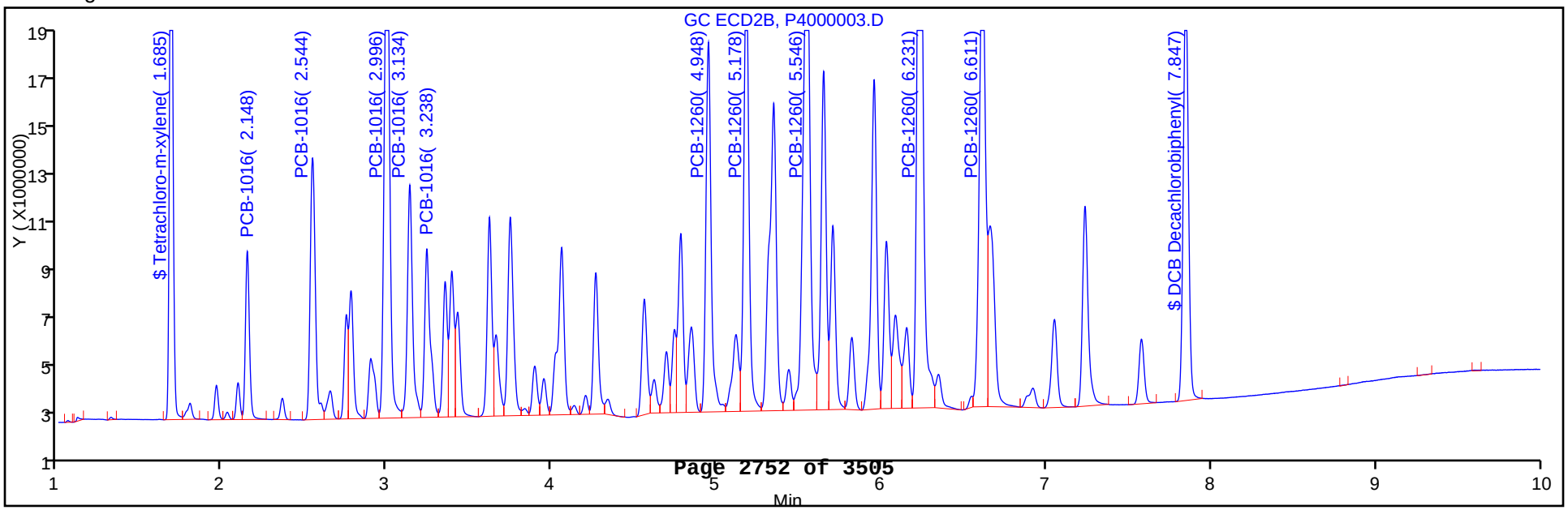
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000003.D

Injection Date:	19-Apr-2013 08:35:07	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/6 Calibration Date: 04/19/2013 09:22

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000006.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	26970586		0.497	0.500	-0.6	20.0
PCB-1016 Peak 2	Ave	48967138	49068714		0.501	0.500	0.2	20.0
PCB-1016 Peak 3	Ave	93440084	100220666		0.536	0.500	7.3	20.0
PCB-1016 Peak 4	Ave	41962283	43580814		0.519	0.500	3.9	20.0
PCB-1016 Peak 5	Ave	42399034	42677398		0.503	0.500	0.7	20.0
PCB-1260 Peak 1	Ave	62400345	62395058		0.500	0.500	-0.0	20.0
PCB-1260 Peak 2	Ave	110128120	114692066		0.521	0.500	4.1	20.0
PCB-1260 Peak 3	Ave	107668512	115002740		0.534	0.500	6.8	20.0
PCB-1260 Peak 4	Ave	129376197	141706716		0.548	0.500	9.5	20.0
PCB-1260 Peak 5	Ave	58244642	65468646		0.562	0.500	12.4	20.0
Tetrachloro-m-xylene	Ave	1583607317	1638518320		0.0259	0.0250	3.5	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1556326240		0.0291	0.0250	16.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/6 Calibration Date: 04/19/2013 09:22

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000006.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.21	4.11	4.31
PCB-1260 Peak 3	4.49	4.39	4.59
PCB-1260 Peak 4	5.19	5.09	5.29
PCB-1260 Peak 5	5.48	5.38	5.58
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.63	6.53	6.73

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000006.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 19-Apr-2013 09:22:04 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019046-006
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 6
Lims Batch ID: 82656 Lims Sample ID: 6
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:47 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 13:10:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	40962958	0.0259			
2	2	1.685	1.685	0.000	39485094	0.0250			
						RPD = 3.31			
6 PCB-1016									
1	100	1.548	1.548	0.000	13485293	0.4969		100.0	
1	2	1.829	1.829	0.000	24534357	0.5010	156.0- 206.0	181.9	
1	3	2.223	2.223	0.000	50110333	0.5363	312.4- 362.4	371.6	
1	4	2.344	2.344	0.000	21790407	0.5193	118.7- 188.7	161.6	
1	5	2.721	2.721	0.000	21338699	0.5033	125.6- 175.6	158.2	
			Average of Peak Amounts =			0.5114			
2	6	2.148	2.148	0.000	12624414	0.4922		100.0	
2	7	2.544	2.544	0.000	25050033	0.4934	169.6- 229.6	198.4	
2	8	2.996	2.996	0.000	52471733	0.5280	351.4- 411.4	415.6	
2	9	3.135	3.135	0.000	22809349	0.5182	141.3- 201.3	180.7	
2	10	3.238	3.238	0.000	18070177	0.5276	102.5- 162.5	143.1	
			Average of Peak Amounts =			0.5119			
						RPD = 0.10			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	31197529	0.5000		100.0	
1	2	4.207	4.207	0.000	57346033	0.5207	152.2- 202.2	183.8	
1	3	4.487	4.487	0.000	57501370	0.5341	146.4- 196.4	184.3	
1	4	5.188	5.188	0.000	70853358	0.5477	180.7- 230.7	227.1	
1	5	5.475	5.475	0.000	32734323	0.5620	64.1- 114.1	104.9	
			Average of Peak Amounts =			0.5329			
2	6	4.949	4.949	0.000	36805352	0.5351		100.0	
2	7	5.179	5.179	0.000	43574220	0.5458	87.6- 147.6	118.4	
2	8	5.547	5.547	0.000	64736816	0.5478	144.7- 204.7	175.9	
2	9	6.233	6.233	0.000	80911701	0.5549	187.7- 247.7	219.8	
2	10	6.614	6.614	0.000	54321844	0.5620	115.0- 175.0	147.6	
			Average of Peak Amounts =			0.5491			
						RPD = 3.00			
$ 12 DCB Decachlorobiphenyl									
1	100	6.628	6.628	0.000	38908156	0.0291			
2	2	7.848	7.848	0.000	39097088	0.0268			
						RPD = 8.21			

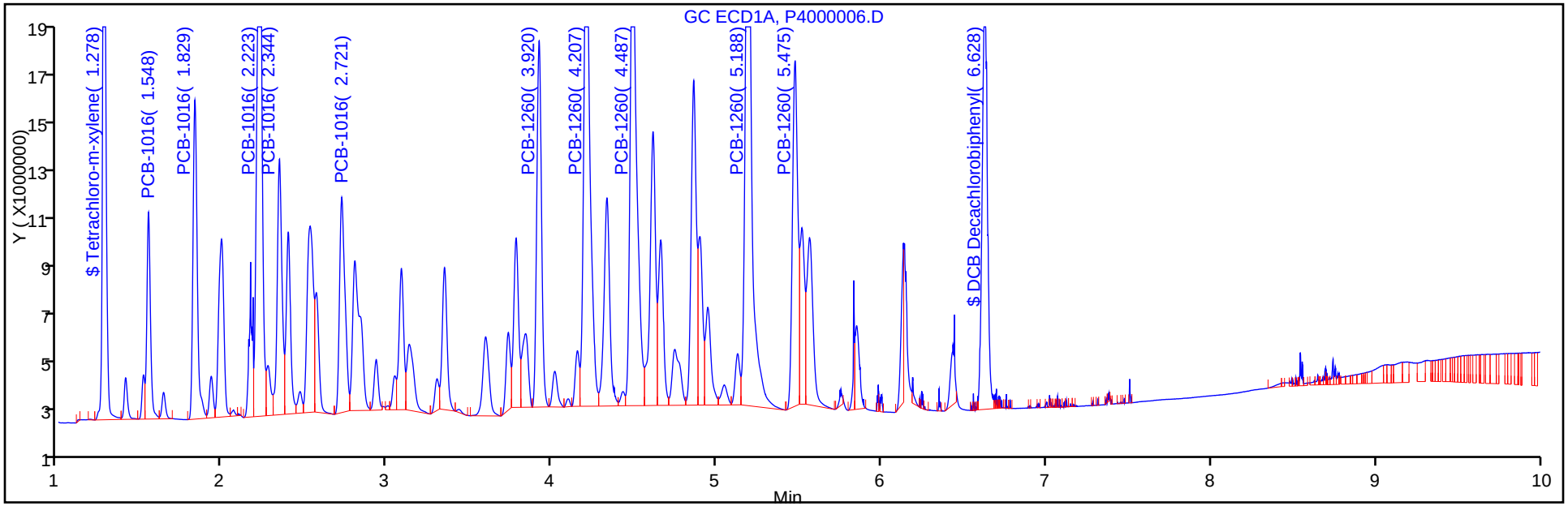
Report Date: 19-Apr-2013 13:11:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

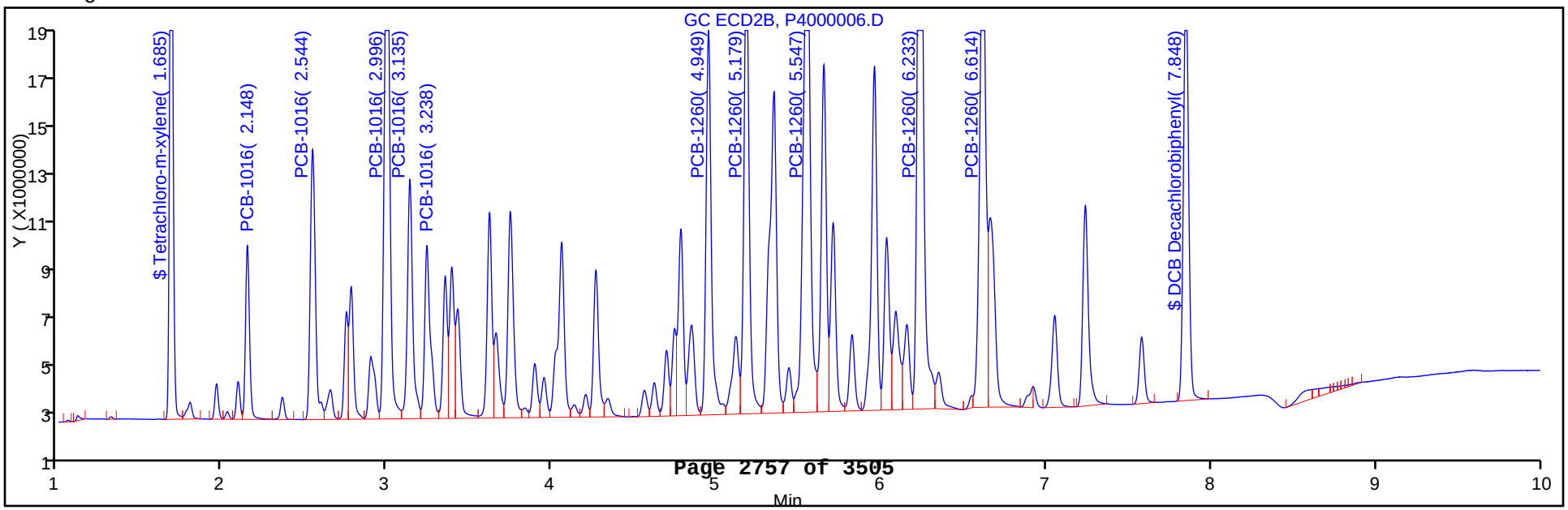
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000006.D

Injection Date:	19-Apr-2013 09:22:04	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/6 Calibration Date: 04/19/2013 09:22

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000006.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	25248828		0.492	0.500	-1.6	20.0
PCB-1016 Peak 2	Ave	50771162	50100066		0.493	0.500	-1.3	20.0
PCB-1016 Peak 3	Ave	99379492	104943466		0.528	0.500	5.6	20.0
PCB-1016 Peak 4	Ave	44018240	45618698		0.518	0.500	3.6	20.0
PCB-1016 Peak 5	Ave	34251515	36140354		0.528	0.500	5.5	20.0
PCB-1260 Peak 1	Ave	68786213	73610704		0.535	0.500	7.0	20.0
PCB-1260 Peak 2	Ave	79832052	87148440		0.546	0.500	9.2	20.0
PCB-1260 Peak 3	Ave	118169923	129473632		0.548	0.500	9.6	20.0
PCB-1260 Peak 4	Ave	145808797	161823402		0.555	0.500	11.0	20.0
PCB-1260 Peak 5	Ave	96662928	108643688		0.562	0.500	12.4	20.0
Tetrachloro-m-xylene	Ave	1577823383	1579403760		0.0250	0.0250	0.1	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1563883520		0.0268	0.0250	7.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82656/6 Calibration Date: 04/19/2013 09:22

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000006.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	3.00	2.90	3.10
PCB-1016 Peak 4	3.14	3.04	3.24
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.95	4.85	5.05
PCB-1260 Peak 2	5.18	5.08	5.28
PCB-1260 Peak 3	5.55	5.45	5.65
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.69	1.59	1.79
DCB Decachlorobiphenyl	7.85	7.75	7.95

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000006.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 19-Apr-2013 09:22:04 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019046-006
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 6
Lims Batch ID: 82656 Lims Sample ID: 6
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:47 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 13:10:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	40962958	0.0259			
2	2	1.685	1.685	0.000	39485094	0.0250			
						RPD = 3.31			
6 PCB-1016									
1	100	1.548	1.548	0.000	13485293	0.4969		100.0	
1	2	1.829	1.829	0.000	24534357	0.5010	156.0- 206.0	181.9	
1	3	2.223	2.223	0.000	50110333	0.5363	312.4- 362.4	371.6	
1	4	2.344	2.344	0.000	21790407	0.5193	118.7- 188.7	161.6	
1	5	2.721	2.721	0.000	21338699	0.5033	125.6- 175.6	158.2	
			Average of Peak Amounts =			0.5114			
2	6	2.148	2.148	0.000	12624414	0.4922		100.0	
2	7	2.544	2.544	0.000	25050033	0.4934	169.6- 229.6	198.4	
2	8	2.996	2.996	0.000	52471733	0.5280	351.4- 411.4	415.6	
2	9	3.135	3.135	0.000	22809349	0.5182	141.3- 201.3	180.7	
2	10	3.238	3.238	0.000	18070177	0.5276	102.5- 162.5	143.1	
			Average of Peak Amounts =			0.5119			
						RPD = 0.10			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	31197529	0.5000		100.0	
1	2	4.207	4.207	0.000	57346033	0.5207	152.2- 202.2	183.8	
1	3	4.487	4.487	0.000	57501370	0.5341	146.4- 196.4	184.3	
1	4	5.188	5.188	0.000	70853358	0.5477	180.7- 230.7	227.1	
1	5	5.475	5.475	0.000	32734323	0.5620	64.1- 114.1	104.9	
			Average of Peak Amounts =			0.5329			
2	6	4.949	4.949	0.000	36805352	0.5351		100.0	
2	7	5.179	5.179	0.000	43574220	0.5458	87.6- 147.6	118.4	
2	8	5.547	5.547	0.000	64736816	0.5478	144.7- 204.7	175.9	
2	9	6.233	6.233	0.000	80911701	0.5549	187.7- 247.7	219.8	
2	10	6.614	6.614	0.000	54321844	0.5620	115.0- 175.0	147.6	
			Average of Peak Amounts =			0.5491			
						RPD = 3.00			
$ 12 DCB Decachlorobiphenyl									
1	100	6.628	6.628	0.000	38908156	0.0291			
2	2	7.848	7.848	0.000	39097088	0.0268			
						RPD = 8.21			

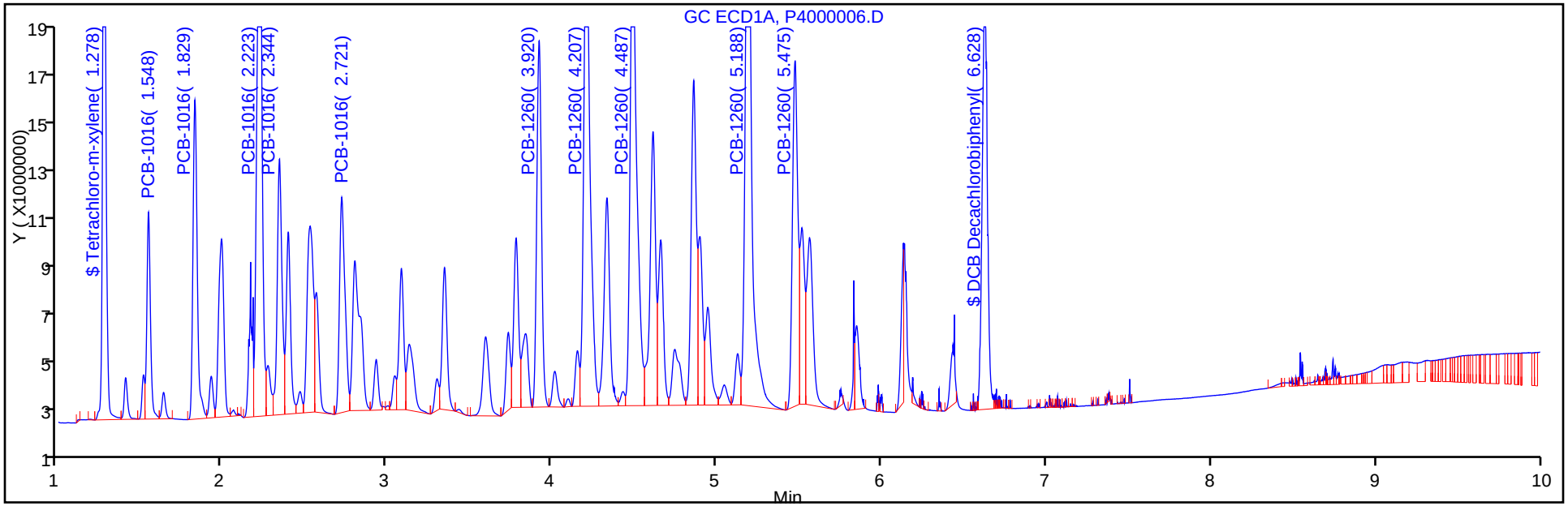
Report Date: 19-Apr-2013 13:11:48 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

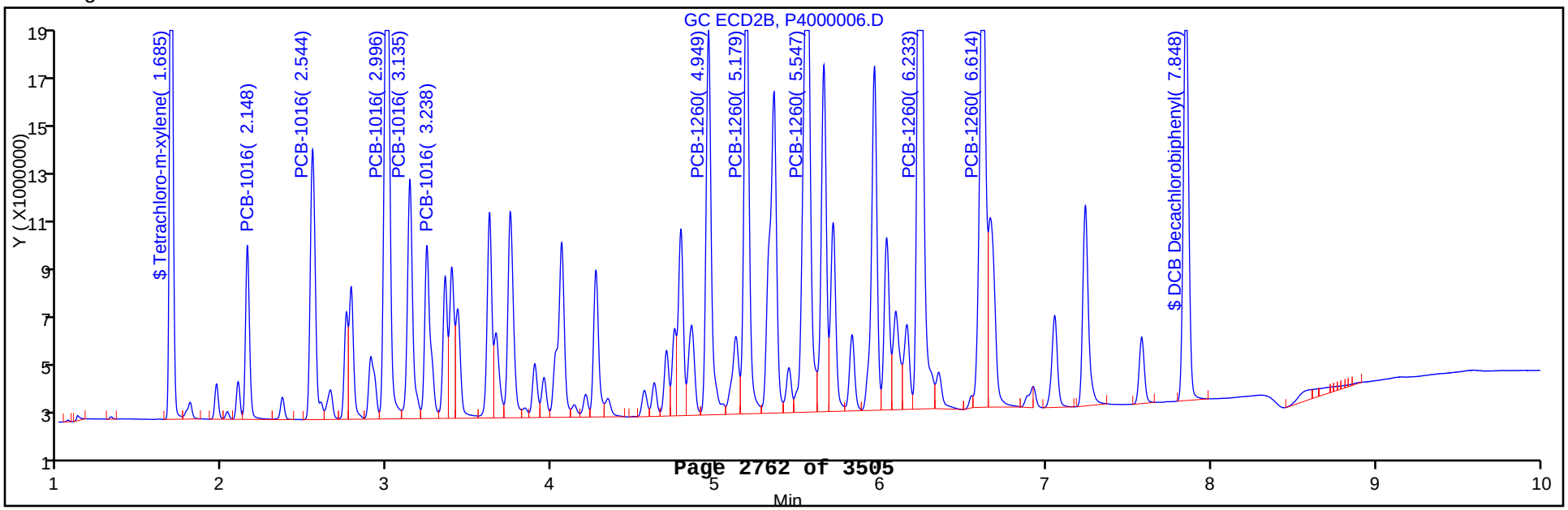
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000006.D

Injection Date:	19-Apr-2013 09:22:04	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	6
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/3 Calibration Date: 04/19/2013 21:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	24330198		0.448	0.500	-10.3	20.0
PCB-1016 Peak 2	Ave	48967138	45514646		0.465	0.500	-7.1	20.0
PCB-1016 Peak 3	Ave	93440084	88930690		0.476	0.500	-4.8	20.0
PCB-1016 Peak 4	Ave	41962283	39899762		0.475	0.500	-4.9	20.0
PCB-1016 Peak 5	Ave	42399034	39659916		0.468	0.500	-6.5	20.0
PCB-1260 Peak 1	Ave	62400345	56425048		0.452	0.500	-9.6	20.0
PCB-1260 Peak 2	Ave	110128120	102937464		0.467	0.500	-6.5	20.0
PCB-1260 Peak 3	Ave	107668512	103300968		0.480	0.500	-4.1	20.0
PCB-1260 Peak 4	Ave	129376197	130303604		0.504	0.500	0.7	20.0
PCB-1260 Peak 5	Ave	58244642	56379498		0.484	0.500	-3.2	20.0
Tetrachloro-m-xylene	Ave	1583607317	1467512640		0.0232	0.0250	-7.3	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1366029280		0.0256	0.0250	2.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/3 Calibration Date: 04/19/2013 21:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.21	4.11	4.31
PCB-1260 Peak 3	4.49	4.39	4.59
PCB-1260 Peak 4	5.19	5.09	5.29
PCB-1260 Peak 5	5.47	5.37	5.57
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.63	6.53	6.73

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 19-Apr-2013 21:58:31 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0019070-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82762 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\PCB4.m
Last Update: 22-Apr-2013 12:47:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: hassl Date: 22-Apr-2013 12:43:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.277	0.000	36687816	0.0232			
2	2	1.685	1.685	0.000	36339873	0.0230			
						RPD = 0.59			
6 PCB-1016									M
1	100	1.546	1.546	0.000	12165099	0.4483		100.0	
1	2	1.829	1.829	0.000	22757323	0.4647	156.0- 206.0	187.1	M
1	3	2.223	2.223	0.000	44465345	0.4759	312.4- 362.4	365.5	M
1	4	2.342	2.342	0.000	19949881	0.4754	118.7- 188.7	164.0	M
1	5	2.721	2.721	0.000	19829958	0.4677	125.6- 175.6	163.0	M
			Average of Peak Amounts =			0.4664			
2	6	2.147	2.147	0.000	11711932	0.4566		100.0	
2	7	2.543	2.543	0.000	23116543	0.4553	169.6- 229.6	197.4	
2	8	2.995	2.995	0.000	47630402	0.4793	351.4- 411.4	406.7	
2	9	3.134	3.134	0.000	20693613	0.4701	141.3- 201.3	176.7	
2	10	3.236	3.236	0.000	16327255	0.4767	102.5- 162.5	139.4	
			Average of Peak Amounts =			0.4676			
						RPD = 0.26			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	28212524	0.4521		100.0	
1	2	4.207	4.207	0.000	51468732	0.4674	152.2- 202.2	182.4	
1	3	4.490	4.490	0.000	51650484	0.4797	146.4- 196.4	183.1	
1	4	5.189	5.189	0.000	65151802	0.5036	180.7- 230.7	230.9	
1	5	5.474	5.474	0.000	28189749	0.4840	64.1- 114.1	99.9	
			Average of Peak Amounts =			0.4774			
2	6	4.946	4.946	0.000	32679432	0.4751		100.0	
2	7	5.177	5.177	0.000	38971055	0.4882	87.6- 147.6	119.3	
2	8	5.546	5.546	0.000	58164608	0.4922	144.7- 204.7	178.0	
2	9	6.231	6.231	0.000	73821748	0.5063	187.7- 247.7	225.9	
2	10	6.613	6.613	0.000	49534581	0.5124	115.0- 175.0	151.6	
			Average of Peak Amounts =			0.4948			
						RPD = 3.60			
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.626	0.000	34150732	0.0256			
2	2	7.847	7.847	0.000	36194301	0.0248			
						RPD = 2.89			

QC Flag Legend

Review Flags
M - Manually Integrated

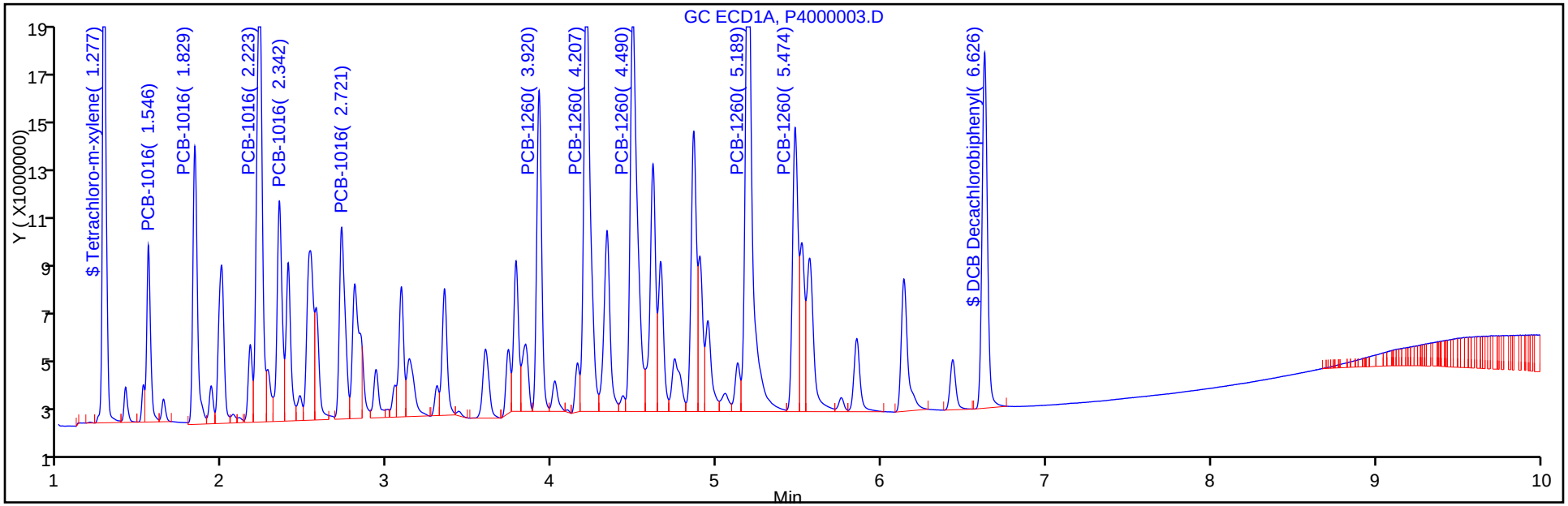
Report Date: 22-Apr-2013 12:47:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

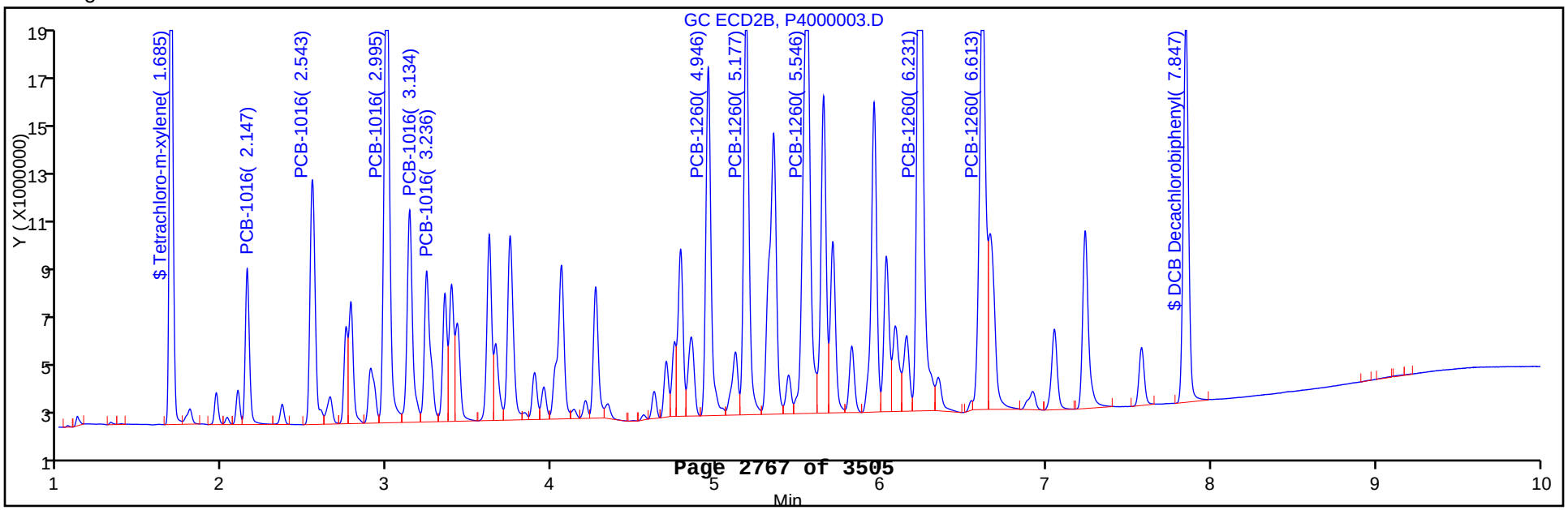
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000003.D

Injection Date:	19-Apr-2013 21:58:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82762	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



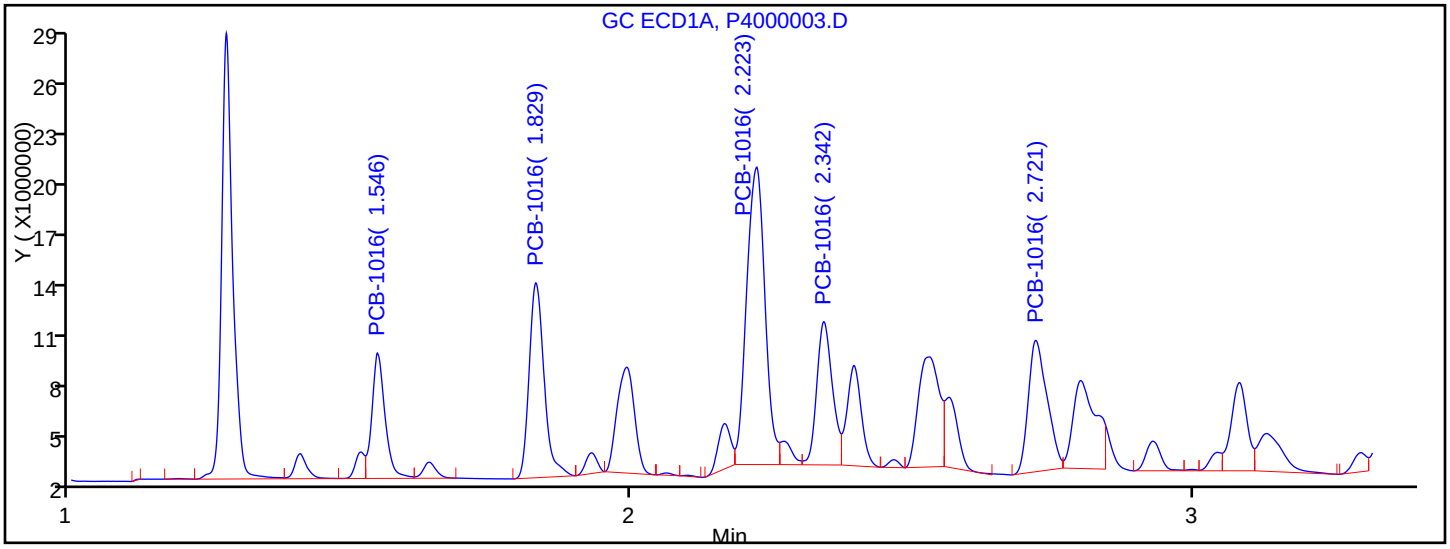
Report Date: 22-Apr-2013 12:47:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000003.D

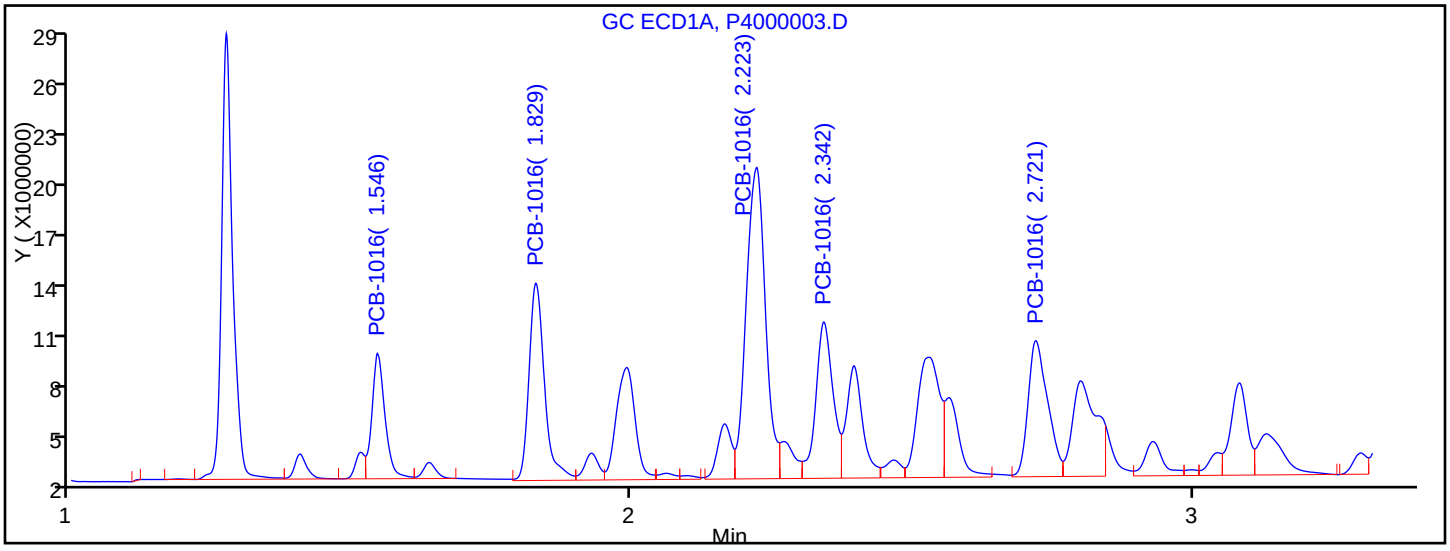
Injection Date:	19-Apr-2013 21:58:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82762	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.546	Response = 12165099	
RT = 1.829	Response = 21661578	M
RT = 2.223	Response = 40484480	M
RT = 2.342	Response = 16675221	M
RT = 2.721	Response = 18254527	M



Manual Integration Results

RT = 1.546	Response = 12165099	
RT = 1.829	Response = 22757323	M
RT = 2.223	Response = 44465345	M
RT = 2.342	Response = 19949881	M
RT = 2.721	Response = 19829958	M

Reviewer: hassl, 22-Apr-2013 12:43:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/3 Calibration Date: 04/19/2013 21:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	23423864		0.457	0.500	-8.7	20.0
PCB-1016 Peak 2	Ave	50771162	46233086		0.455	0.500	-8.9	20.0
PCB-1016 Peak 3	Ave	99379492	95260804		0.479	0.500	-4.1	20.0
PCB-1016 Peak 4	Ave	44018240	41387226		0.470	0.500	-6.0	20.0
PCB-1016 Peak 5	Ave	34251515	32654510		0.477	0.500	-4.7	20.0
PCB-1260 Peak 1	Ave	68786213	65358864		0.475	0.500	-5.0	20.0
PCB-1260 Peak 2	Ave	79832052	77942110		0.488	0.500	-2.4	20.0
PCB-1260 Peak 3	Ave	118169923	116329216		0.492	0.500	-1.6	20.0
PCB-1260 Peak 4	Ave	145808797	147643496		0.506	0.500	1.3	20.0
PCB-1260 Peak 5	Ave	96662928	99069162		0.512	0.500	2.5	20.0
Tetrachloro-m-xylene	Ave	1577823383	1453594920		0.0230	0.0250	-7.9	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1447772040		0.0248	0.0250	-0.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/3 Calibration Date: 04/19/2013 21:58

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.54	2.44	2.64
PCB-1016 Peak 3	3.00	2.90	3.10
PCB-1016 Peak 4	3.13	3.03	3.23
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.95	4.85	5.05
PCB-1260 Peak 2	5.18	5.08	5.28
PCB-1260 Peak 3	5.55	5.45	5.65
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.61	6.51	6.71
Tetrachloro-m-xylene	1.69	1.59	1.79
DCB Decachlorobiphenyl	7.85	7.75	7.95

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 19-Apr-2013 21:58:31 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0019070-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 82762 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\PCB4.m
Last Update: 22-Apr-2013 12:47:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: hassl Date: 22-Apr-2013 12:43:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.277	0.000	36687816	0.0232			
2	2	1.685	1.685	0.000	36339873	0.0230			
						RPD = 0.59			
6 PCB-1016									M
1	100	1.546	1.546	0.000	12165099	0.4483		100.0	
1	2	1.829	1.829	0.000	22757323	0.4647	156.0- 206.0	187.1	M
1	3	2.223	2.223	0.000	44465345	0.4759	312.4- 362.4	365.5	M
1	4	2.342	2.342	0.000	19949881	0.4754	118.7- 188.7	164.0	M
1	5	2.721	2.721	0.000	19829958	0.4677	125.6- 175.6	163.0	M
			Average of Peak Amounts =			0.4664			
2	6	2.147	2.147	0.000	11711932	0.4566		100.0	
2	7	2.543	2.543	0.000	23116543	0.4553	169.6- 229.6	197.4	
2	8	2.995	2.995	0.000	47630402	0.4793	351.4- 411.4	406.7	
2	9	3.134	3.134	0.000	20693613	0.4701	141.3- 201.3	176.7	
2	10	3.236	3.236	0.000	16327255	0.4767	102.5- 162.5	139.4	
			Average of Peak Amounts =			0.4676			
						RPD = 0.26			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	28212524	0.4521		100.0	
1	2	4.207	4.207	0.000	51468732	0.4674	152.2- 202.2	182.4	
1	3	4.490	4.490	0.000	51650484	0.4797	146.4- 196.4	183.1	
1	4	5.189	5.189	0.000	65151802	0.5036	180.7- 230.7	230.9	
1	5	5.474	5.474	0.000	28189749	0.4840	64.1- 114.1	99.9	
			Average of Peak Amounts =			0.4774			
2	6	4.946	4.946	0.000	32679432	0.4751		100.0	
2	7	5.177	5.177	0.000	38971055	0.4882	87.6- 147.6	119.3	
2	8	5.546	5.546	0.000	58164608	0.4922	144.7- 204.7	178.0	
2	9	6.231	6.231	0.000	73821748	0.5063	187.7- 247.7	225.9	
2	10	6.613	6.613	0.000	49534581	0.5124	115.0- 175.0	151.6	
			Average of Peak Amounts =			0.4948			
						RPD = 3.60			
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.626	0.000	34150732	0.0256			
2	2	7.847	7.847	0.000	36194301	0.0248			
						RPD = 2.89			

QC Flag Legend

Review Flags
M - Manually Integrated

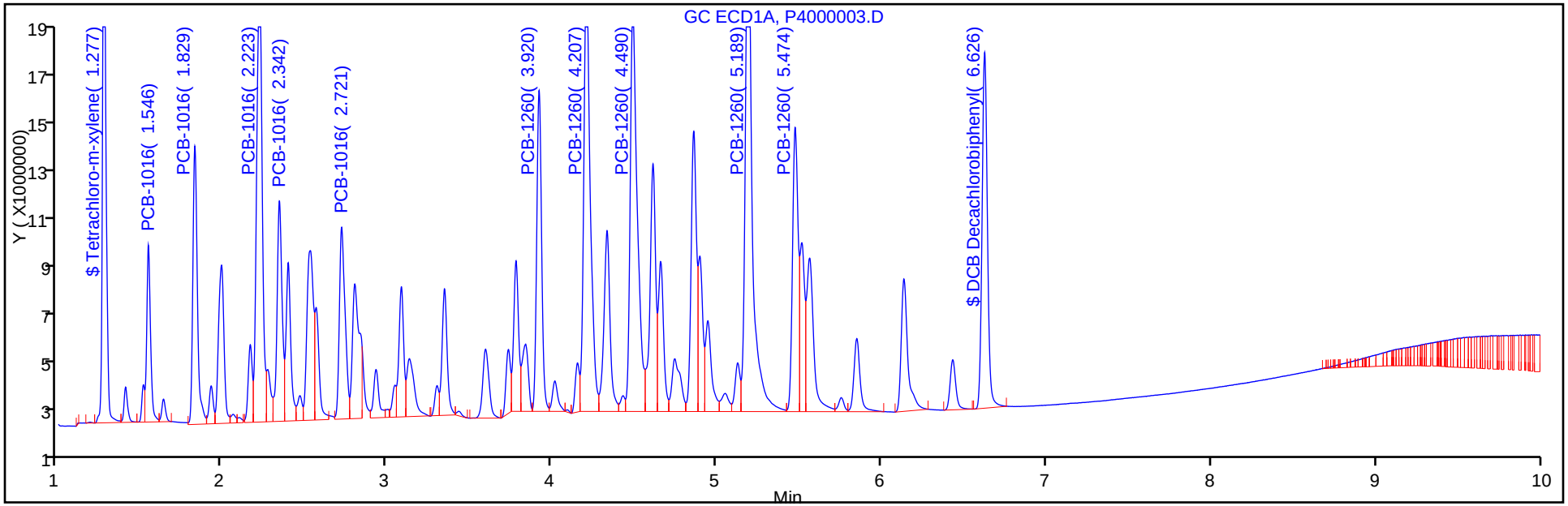
Report Date: 22-Apr-2013 12:47:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

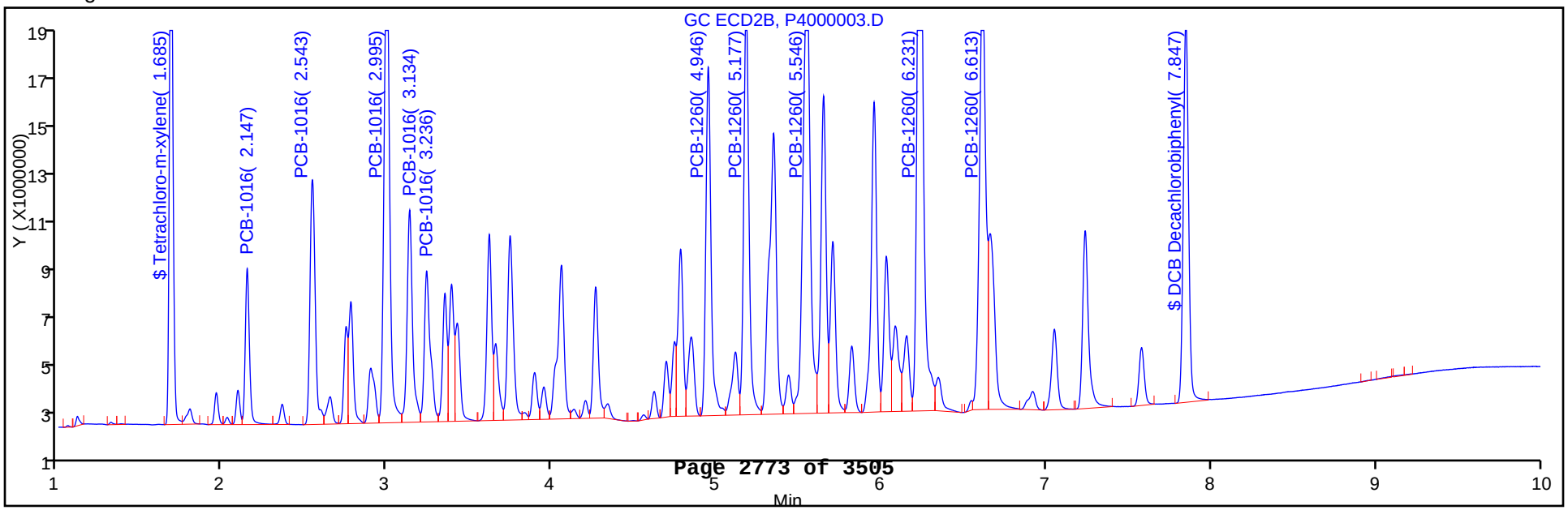
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000003.D

Injection Date:	19-Apr-2013 21:58:31	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82762	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/13 Calibration Date: 04/20/2013 00:34

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	25438664		0.469	0.500	-6.3	20.0
PCB-1016 Peak 2	Ave	48967138	46388432		0.474	0.500	-5.3	20.0
PCB-1016 Peak 3	Ave	93440084	95327342		0.510	0.500	2.0	20.0
PCB-1016 Peak 4	Ave	41962283	41911666		0.499	0.500	-0.1	20.0
PCB-1016 Peak 5	Ave	42399034	41499700		0.489	0.500	-2.1	20.0
PCB-1260 Peak 1	Ave	62400345	59772554		0.479	0.500	-4.2	20.0
PCB-1260 Peak 2	Ave	110128120	110281084		0.501	0.500	0.1	20.0
PCB-1260 Peak 3	Ave	107668512	111599168		0.518	0.500	3.7	20.0
PCB-1260 Peak 4	Ave	129376197	133939260		0.518	0.500	3.5	20.0
PCB-1260 Peak 5	Ave	58244642	62954556		0.540	0.500	8.1	20.0
Tetrachloro-m-xylene	Ave	1583607317	1527719280		0.0241	0.0250	-3.5	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1372285880		0.0257	0.0250	2.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/13 Calibration Date: 04/20/2013 00:34

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.55	1.45	1.65
PCB-1016 Peak 2	1.83	1.73	1.93
PCB-1016 Peak 3	2.22	2.12	2.32
PCB-1016 Peak 4	2.34	2.24	2.44
PCB-1016 Peak 5	2.72	2.62	2.82
PCB-1260 Peak 1	3.92	3.82	4.02
PCB-1260 Peak 2	4.21	4.11	4.31
PCB-1260 Peak 3	4.49	4.39	4.59
PCB-1260 Peak 4	5.19	5.09	5.29
PCB-1260 Peak 5	5.48	5.38	5.58
Tetrachloro-m-xylene	1.28	1.18	1.38
DCB Decachlorobiphenyl	6.63	6.53	6.73

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000013.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 20-Apr-2013 00:34:33 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019070-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 13
Lims Batch ID: 82762 Lims Sample ID: 13
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\PCB4.m
Last Update: 22-Apr-2013 12:47:38 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: hassl Date: 22-Apr-2013 12:46:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	38192982	0.0241			
2	2	1.687	1.687	0.000	37527001	0.0238			
						RPD = 1.39			
6 PCB-1016									M
1	100	1.548	1.548	0.000	12719332	0.4687		100.0	
1	2	1.831	1.831	0.000	23194216	0.4737	156.0- 206.0	182.4	M
1	3	2.223	2.223	0.000	47663671	0.5101	312.4- 362.4	374.7	M
1	4	2.343	2.343	0.000	20955833	0.4994	118.7- 188.7	164.8	M
1	5	2.722	2.722	0.000	20749850	0.4894	125.6- 175.6	163.1	M
			Average of Peak Amounts =			0.4883			
2	6	2.149	2.149	0.000	11968686	0.4666		100.0	
2	7	2.545	2.545	0.000	23955716	0.4718	169.6- 229.6	200.2	
2	8	2.997	2.997	0.000	50372613	0.5069	351.4- 411.4	420.9	
2	9	3.136	3.136	0.000	21447740	0.4872	141.3- 201.3	179.2	
2	10	3.240	3.240	0.000	16951810	0.4949	102.5- 162.5	141.6	
			Average of Peak Amounts =			0.4855			
						RPD = 0.56			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.921	3.921	0.000	29886277	0.4789		100.0	
1	2	4.207	4.207	0.000	55140542	0.5007	152.2- 202.2	184.5	
1	3	4.489	4.489	0.000	55799584	0.5183	146.4- 196.4	186.7	
1	4	5.189	5.189	0.000	66969630	0.5176	180.7- 230.7	224.1	
1	5	5.475	5.475	0.000	31477278	0.5404	64.1- 114.1	105.3	
			Average of Peak Amounts =			0.5112			
2	6	4.950	4.950	0.000	33325843	0.4845		100.0	
2	7	5.180	5.180	0.000	39222654	0.4913	87.6- 147.6	117.7	
2	8	5.548	5.548	0.000	59874289	0.5067	144.7- 204.7	179.7	
2	9	6.233	6.233	0.000	74329371	0.5098	187.7- 247.7	223.0	
2	10	6.615	6.615	0.000	48523310	0.5020	115.0- 175.0	145.6	
			Average of Peak Amounts =			0.4988			
						RPD = 2.44			
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.626	0.000	34307147	0.0257			
2	2	7.849	7.849	0.000	33132270	0.0227			
						RPD = 12.17			

QC Flag Legend

Review Flags
M - Manually Integrated

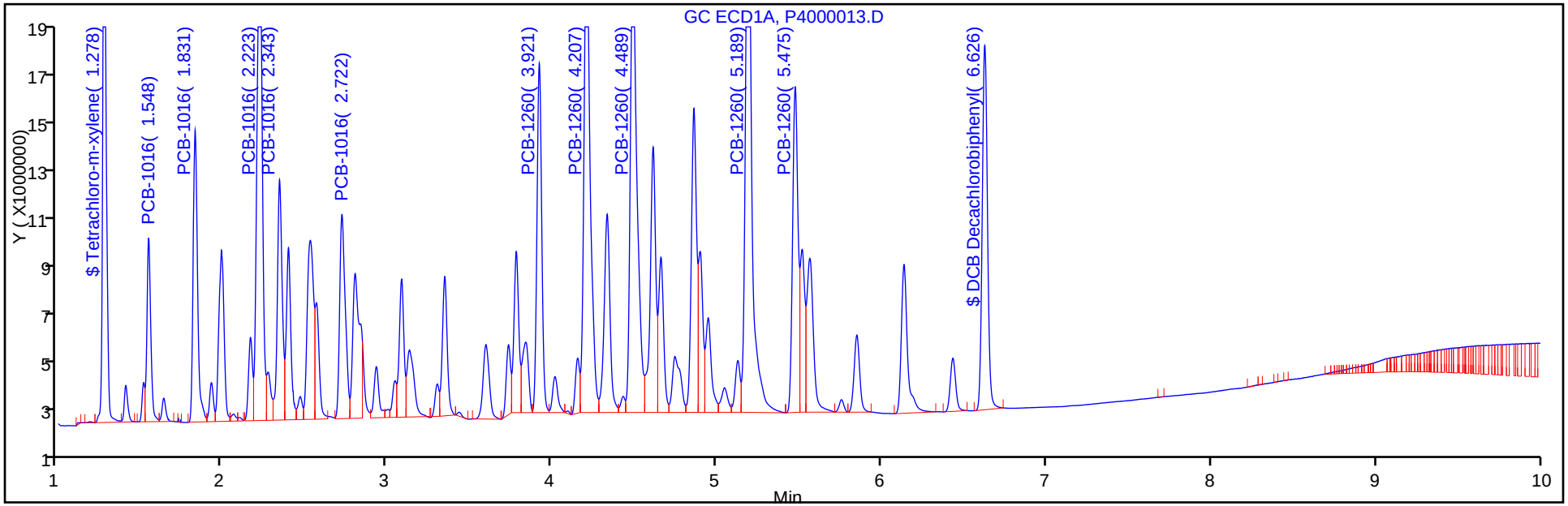
Report Date: 22-Apr-2013 12:47:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

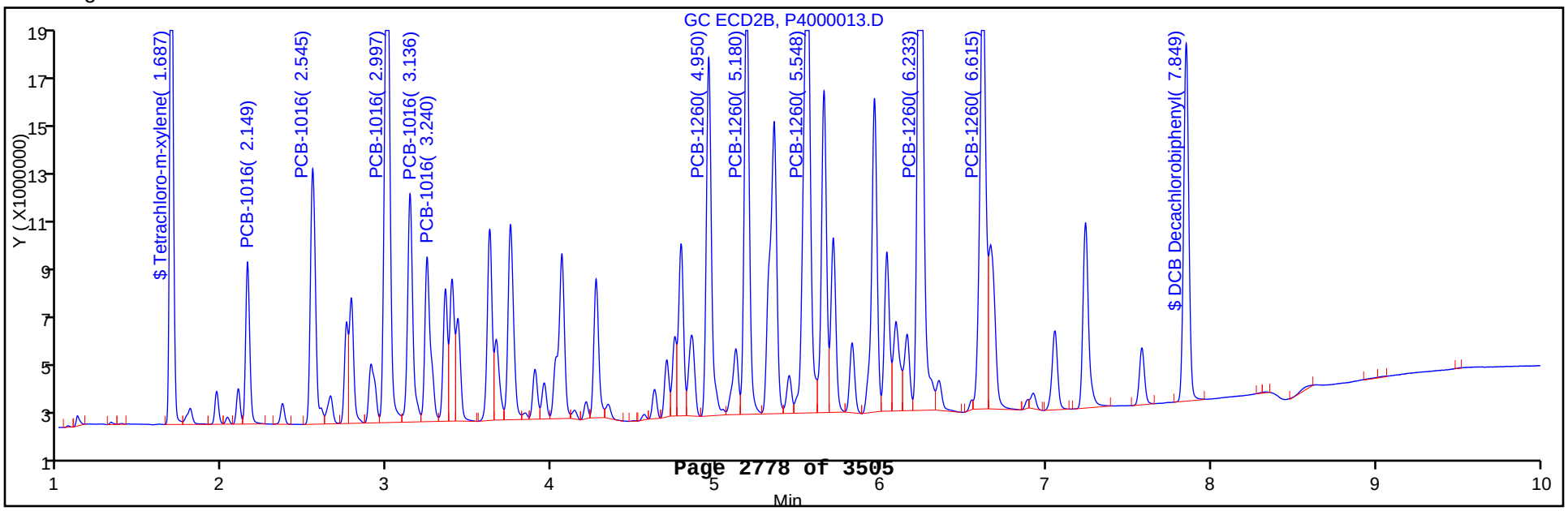
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000013.D

Injection Date:	20-Apr-2013 00:34:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82762	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



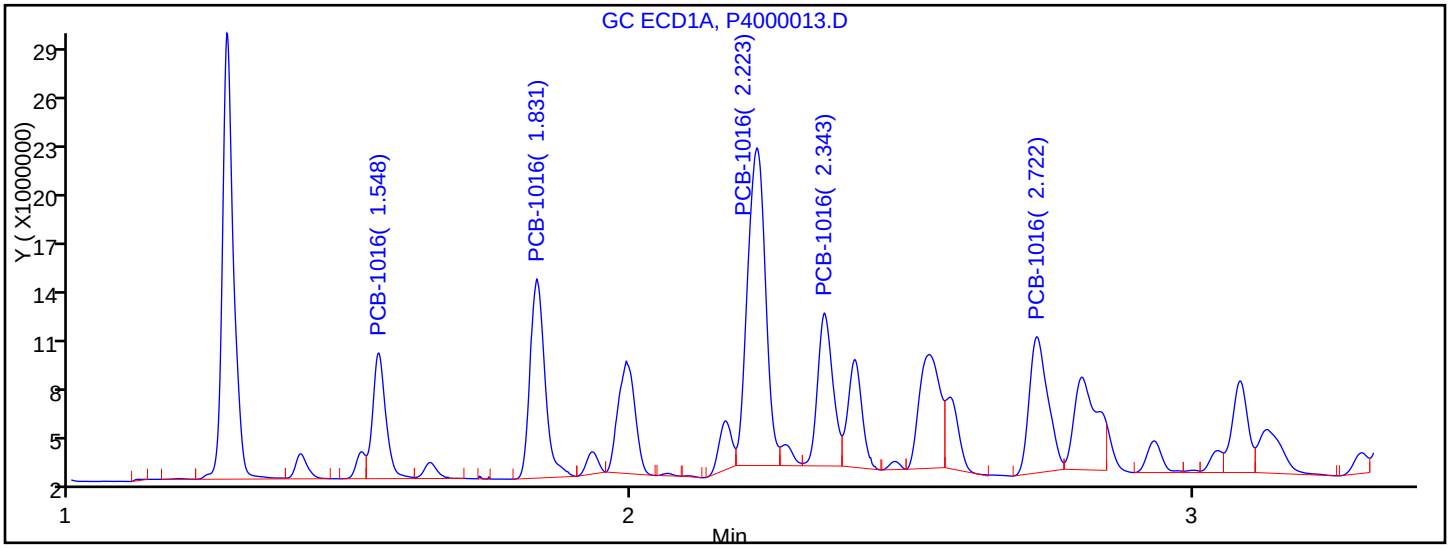
Report Date: 22-Apr-2013 12:47:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000013.D

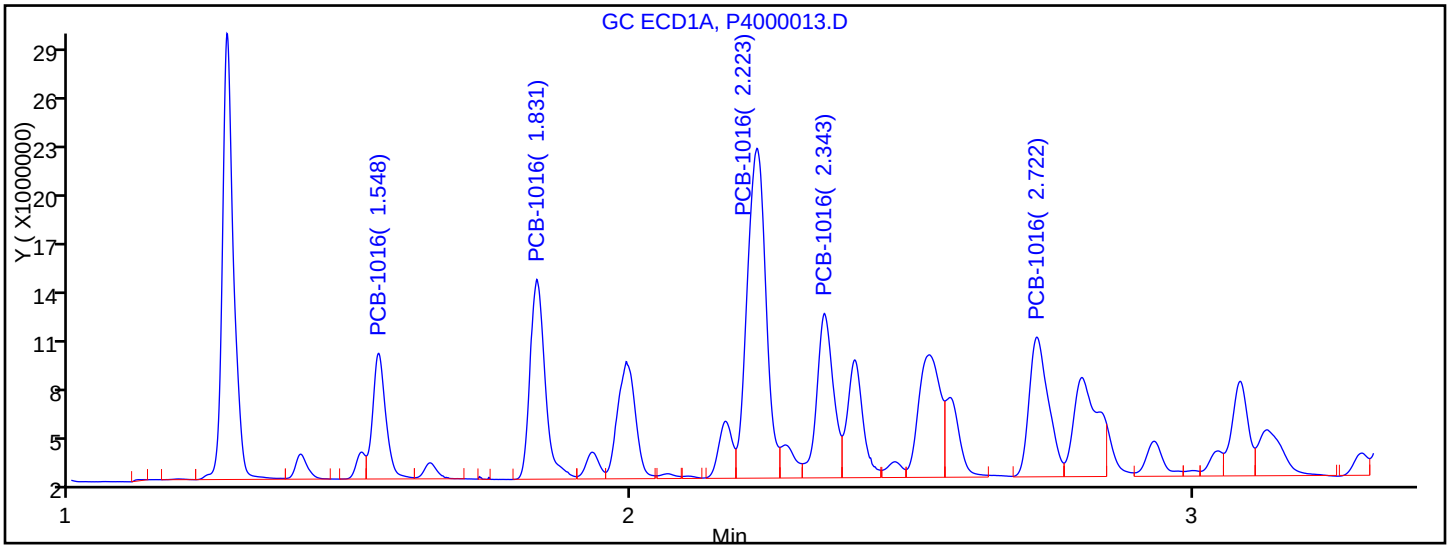
Injection Date:	20-Apr-2013 00:34:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82762	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.548	Response = 12719332	
RT = 1.831	Response = 22747653	M
RT = 2.223	Response = 44090498	M
RT = 2.343	Response = 17913180	M
RT = 2.722	Response = 19466168	M



Manual Integration Results

RT = 1.548	Response = 12719332	
RT = 1.831	Response = 23194216	M
RT = 2.223	Response = 47663671	M
RT = 2.343	Response = 20955833	M
RT = 2.722	Response = 20749850	M

Reviewer: hassl, 22-Apr-2013 12:46:59

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/13 Calibration Date: 04/20/2013 00:34

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	23937372		0.467	0.500	-6.7	20.0
PCB-1016 Peak 2	Ave	50771162	47911432		0.472	0.500	-5.6	20.0
PCB-1016 Peak 3	Ave	99379492	100745226		0.507	0.500	1.4	20.0
PCB-1016 Peak 4	Ave	44018240	42895480		0.487	0.500	-2.6	20.0
PCB-1016 Peak 5	Ave	34251515	33903620		0.495	0.500	-1.0	20.0
PCB-1260 Peak 1	Ave	68786213	66651686		0.484	0.500	-3.1	20.0
PCB-1260 Peak 2	Ave	79832052	78445308		0.491	0.500	-1.7	20.0
PCB-1260 Peak 3	Ave	118169923	119748578		0.507	0.500	1.3	20.0
PCB-1260 Peak 4	Ave	145808797	148658742		0.510	0.500	2.0	20.0
PCB-1260 Peak 5	Ave	96662928	97046620		0.502	0.500	0.4	20.0
Tetrachloro-m-xylene	Ave	1577823383	1501080040		0.0238	0.0250	-4.9	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1325290800		0.0227	0.0250	-9.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-82762/13 Calibration Date: 04/20/2013 00:34

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.15	2.05	2.25
PCB-1016 Peak 2	2.55	2.45	2.65
PCB-1016 Peak 3	3.00	2.90	3.10
PCB-1016 Peak 4	3.14	3.04	3.24
PCB-1016 Peak 5	3.24	3.14	3.34
PCB-1260 Peak 1	4.95	4.85	5.05
PCB-1260 Peak 2	5.18	5.08	5.28
PCB-1260 Peak 3	5.55	5.45	5.65
PCB-1260 Peak 4	6.23	6.13	6.33
PCB-1260 Peak 5	6.62	6.52	6.72
Tetrachloro-m-xylene	1.69	1.59	1.79
DCB Decachlorobiphenyl	7.85	7.75	7.95

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000013.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 20-Apr-2013 00:34:33 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019070-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 13
Lims Batch ID: 82762 Lims Sample ID: 13
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\PCB4.m
Last Update: 22-Apr-2013 12:47:38 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: hassl Date: 22-Apr-2013 12:46:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	38192982	0.0241			
2	2	1.687	1.687	0.000	37527001	0.0238			
						RPD = 1.39			
6 PCB-1016									M
1	100	1.548	1.548	0.000	12719332	0.4687		100.0	
1	2	1.831	1.831	0.000	23194216	0.4737	156.0- 206.0	182.4	M
1	3	2.223	2.223	0.000	47663671	0.5101	312.4- 362.4	374.7	M
1	4	2.343	2.343	0.000	20955833	0.4994	118.7- 188.7	164.8	M
1	5	2.722	2.722	0.000	20749850	0.4894	125.6- 175.6	163.1	M
			Average of Peak Amounts =			0.4883			
2	6	2.149	2.149	0.000	11968686	0.4666		100.0	
2	7	2.545	2.545	0.000	23955716	0.4718	169.6- 229.6	200.2	
2	8	2.997	2.997	0.000	50372613	0.5069	351.4- 411.4	420.9	
2	9	3.136	3.136	0.000	21447740	0.4872	141.3- 201.3	179.2	
2	10	3.240	3.240	0.000	16951810	0.4949	102.5- 162.5	141.6	
			Average of Peak Amounts =			0.4855			
						RPD = 0.56			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.921	3.921	0.000	29886277	0.4789		100.0	
1	2	4.207	4.207	0.000	55140542	0.5007	152.2- 202.2	184.5	
1	3	4.489	4.489	0.000	55799584	0.5183	146.4- 196.4	186.7	
1	4	5.189	5.189	0.000	66969630	0.5176	180.7- 230.7	224.1	
1	5	5.475	5.475	0.000	31477278	0.5404	64.1- 114.1	105.3	
			Average of Peak Amounts =			0.5112			
2	6	4.950	4.950	0.000	33325843	0.4845		100.0	
2	7	5.180	5.180	0.000	39222654	0.4913	87.6- 147.6	117.7	
2	8	5.548	5.548	0.000	59874289	0.5067	144.7- 204.7	179.7	
2	9	6.233	6.233	0.000	74329371	0.5098	187.7- 247.7	223.0	
2	10	6.615	6.615	0.000	48523310	0.5020	115.0- 175.0	145.6	
			Average of Peak Amounts =			0.4988			
						RPD = 2.44			
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.626	0.000	34307147	0.0257			
2	2	7.849	7.849	0.000	33132270	0.0227			
						RPD = 12.17			

QC Flag Legend

Review Flags
M - Manually Integrated

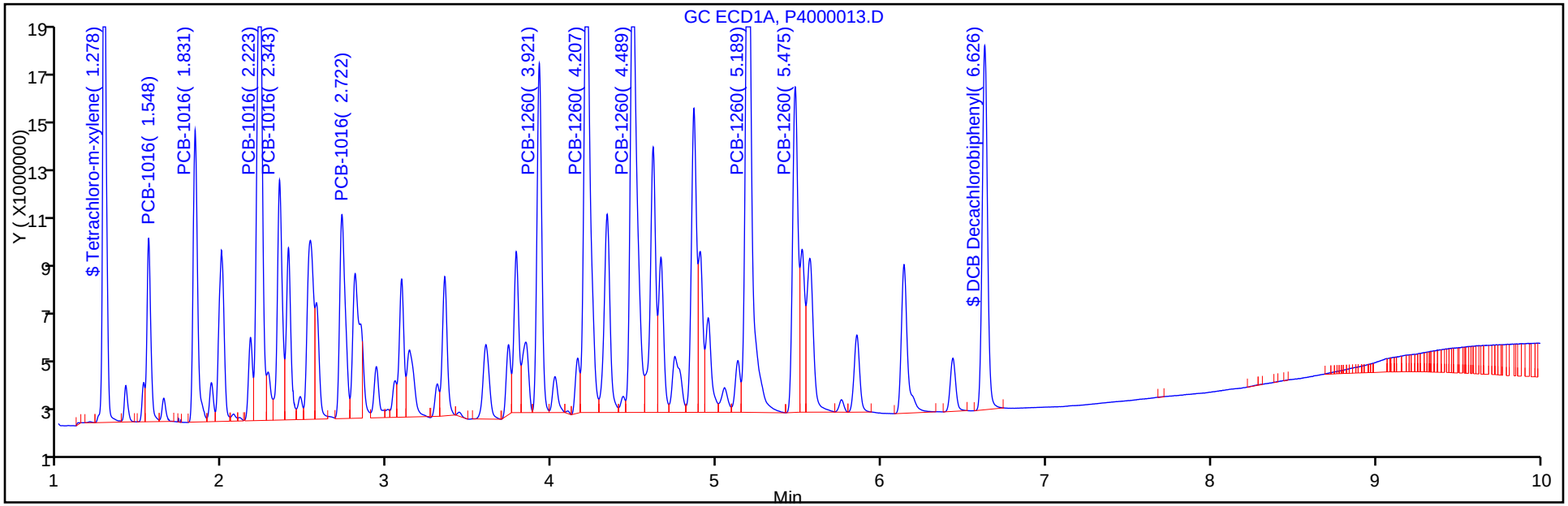
Report Date: 22-Apr-2013 12:47:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

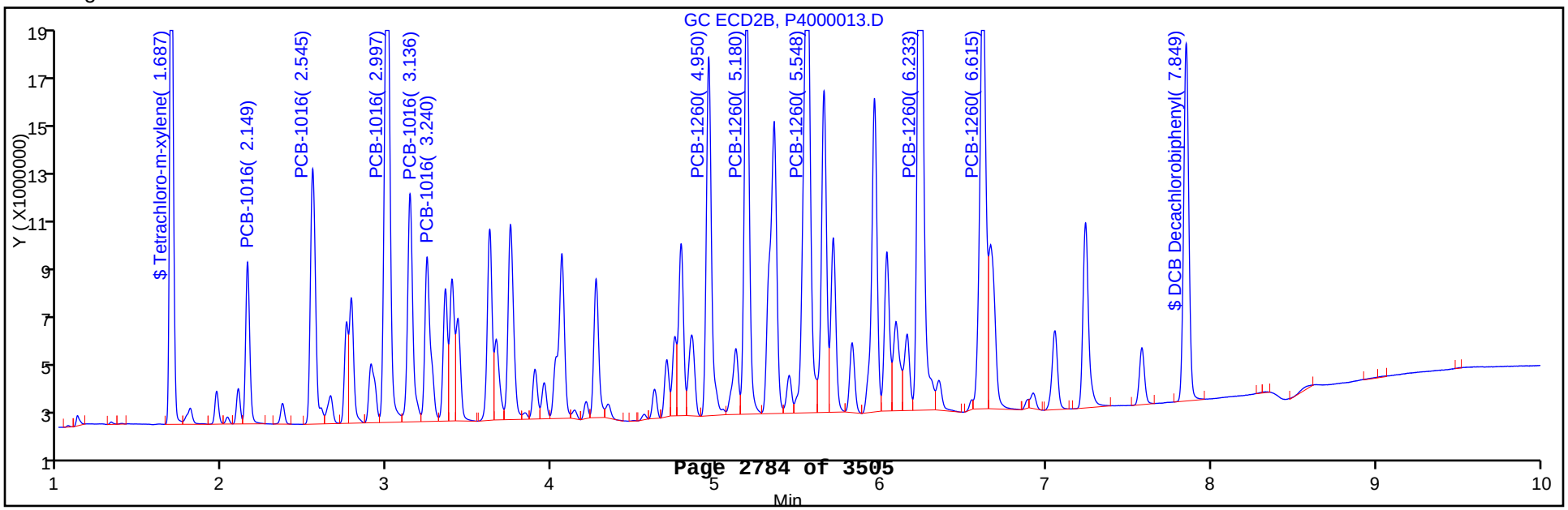
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19070.b\P4000013.D

Injection Date:	20-Apr-2013 00:34:33	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82762	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/3 Calibration Date: 04/29/2013 08:18

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	23425640		0.432	0.500	-13.7	20.0
PCB-1016 Peak 2	Ave	48967138	42488772		0.434	0.500	-13.2	20.0
PCB-1016 Peak 3	Ave	93440084	90752314		0.486	0.500	-2.9	20.0
PCB-1016 Peak 4	Ave	41962283	37308216		0.445	0.500	-11.1	20.0
PCB-1016 Peak 5	Ave	42399034	38367132		0.452	0.500	-9.5	20.0
PCB-1260 Peak 1	Ave	62400345	57956722		0.464	0.500	-7.1	20.0
PCB-1260 Peak 2	Ave	110128120	102592522		0.466	0.500	-6.8	20.0
PCB-1260 Peak 3	Ave	107668512	100656858		0.467	0.500	-6.5	20.0
PCB-1260 Peak 4	Ave	129376197	129461104		0.500	0.500	0.0	20.0
PCB-1260 Peak 5	Ave	58244642	49810284		0.428	0.500	-14.5	20.0
Tetrachloro-m-xylene	Ave	1583607317	1422762120		0.0225	0.0250	-10.2	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1350478560		0.0253	0.0250	1.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/3 Calibration Date: 04/29/2013 08:18

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.56	1.46	1.66
PCB-1016 Peak 2	1.85	1.75	1.95
PCB-1016 Peak 3	2.24	2.14	2.34
PCB-1016 Peak 4	2.36	2.26	2.46
PCB-1016 Peak 5	2.74	2.64	2.84
PCB-1260 Peak 1	3.94	3.84	4.04
PCB-1260 Peak 2	4.23	4.13	4.33
PCB-1260 Peak 3	4.52	4.42	4.62
PCB-1260 Peak 4	5.22	5.12	5.32
PCB-1260 Peak 5	5.51	5.41	5.61
Tetrachloro-m-xylene	1.29	1.19	1.39
DCB Decachlorobiphenyl	6.65	6.55	6.75

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 29-Apr-2013 08:18:39 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0019366-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 83996 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:20 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:55:51

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.291	1.291	0.000	35569053	0.0225			
2	2	1.700	1.700	0.000	32106486	0.0203			
						RPD = 9.87			
6 PCB-1016									M
1	100	1.562	1.562	0.000	11712820	0.4316		100.0	
1	2	1.846	1.846	0.000	21244386	0.4338	156.0- 206.0	181.4	
1	3	2.241	2.241	0.000	45376157	0.4856	312.4- 362.4	387.4	M
1	4	2.361	2.361	0.000	18654108	0.4445	118.7- 188.7	159.3	M
1	5	2.741	2.741	0.000	19183566	0.4525	125.6- 175.6	163.8	M
			Average of Peak Amounts =			0.4496			
2	6	2.165	2.165	0.000	10565979	0.4120		100.0	
2	7	2.561	2.561	0.000	20789563	0.4095	169.6- 229.6	196.8	M
2	8	3.016	3.016	0.000	42653330	0.4292	351.4- 411.4	403.7	M
2	9	3.155	3.155	0.000	19276805	0.4379	141.3- 201.3	182.4	M
2	10	3.259	3.259	0.000	15045972	0.4393	102.5- 162.5	142.4	M
			Average of Peak Amounts =			0.4256			
						RPD = 5.50			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.941	3.941	0.000	28978361	0.4644		100.0	M
1	2	4.231	4.231	0.000	51296261	0.4658	152.2- 202.2	177.0	M
1	3	4.516	4.516	0.000	50328429	0.4674	146.4- 196.4	173.7	M
1	4	5.215	5.215	0.000	64730552	0.5003	180.7- 230.7	223.4	M
1	5	5.506	5.506	0.000	24905142	0.4276	64.1- 114.1	85.9	M
			Average of Peak Amounts =			0.4651			
2	6	4.969	4.969	0.000	31327450	0.4554		100.0	M
2	7	5.201	5.201	0.000	37434790	0.4689	87.6- 147.6	119.5	M
2	8	5.570	5.570	0.000	54057549	0.4575	144.7- 204.7	172.6	M
2	9	6.256	6.256	0.000	68718240	0.4713	187.7- 247.7	219.4	M
2	10	6.636	6.636	0.000	44465778	0.4600	115.0- 175.0	141.9	M
			Average of Peak Amounts =			0.4626			
						RPD = 0.54			
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	33761964	0.0253			
2	2	7.869	7.869	0.000	32874579	0.0226			
						RPD = 11.35			

QC Flag Legend

Review Flags
M - Manually Integrated

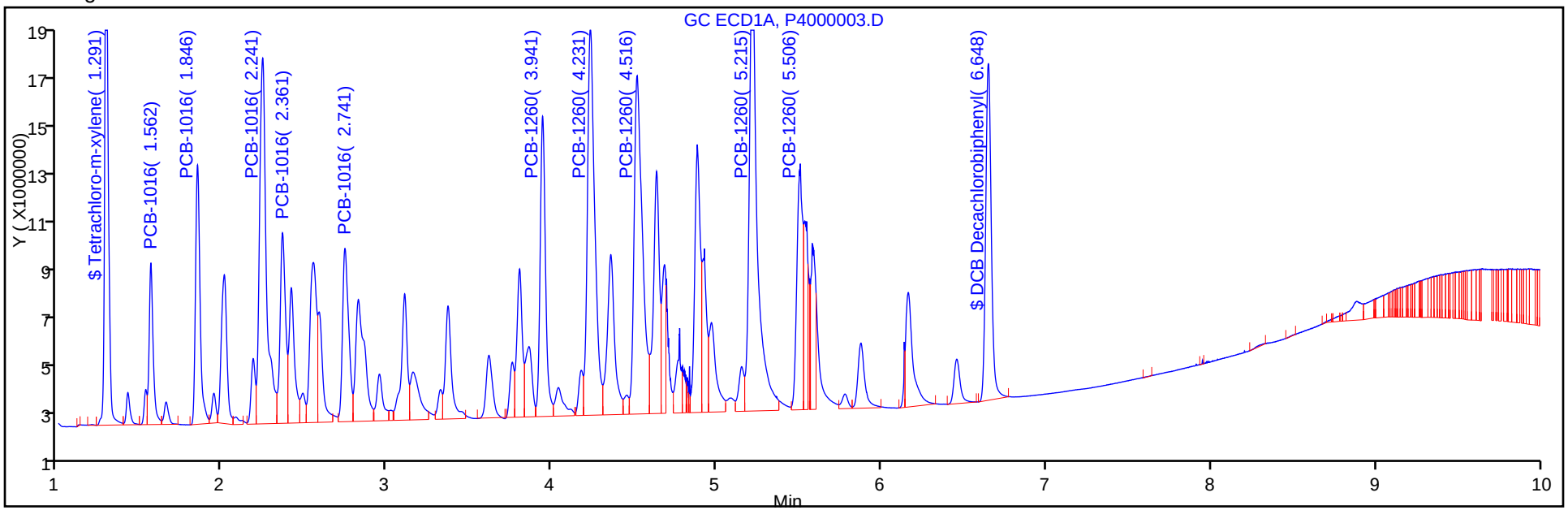
Report Date: 29-Apr-2013 15:57:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

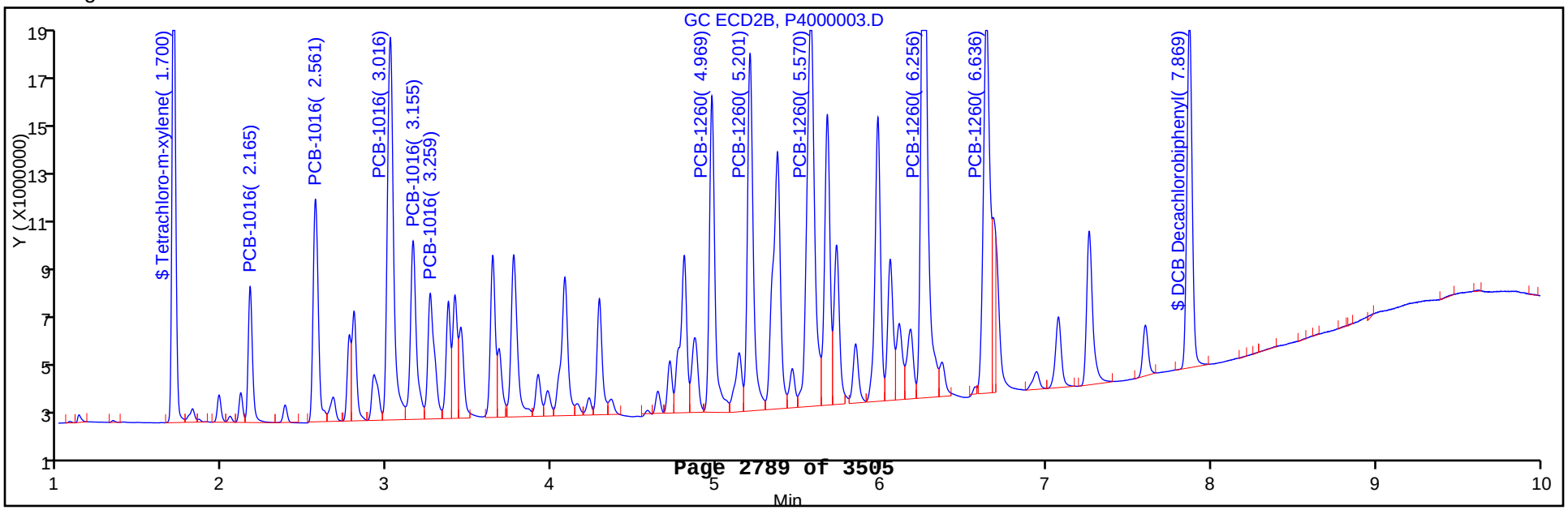
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D

Injection Date:	29-Apr-2013 08:18:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



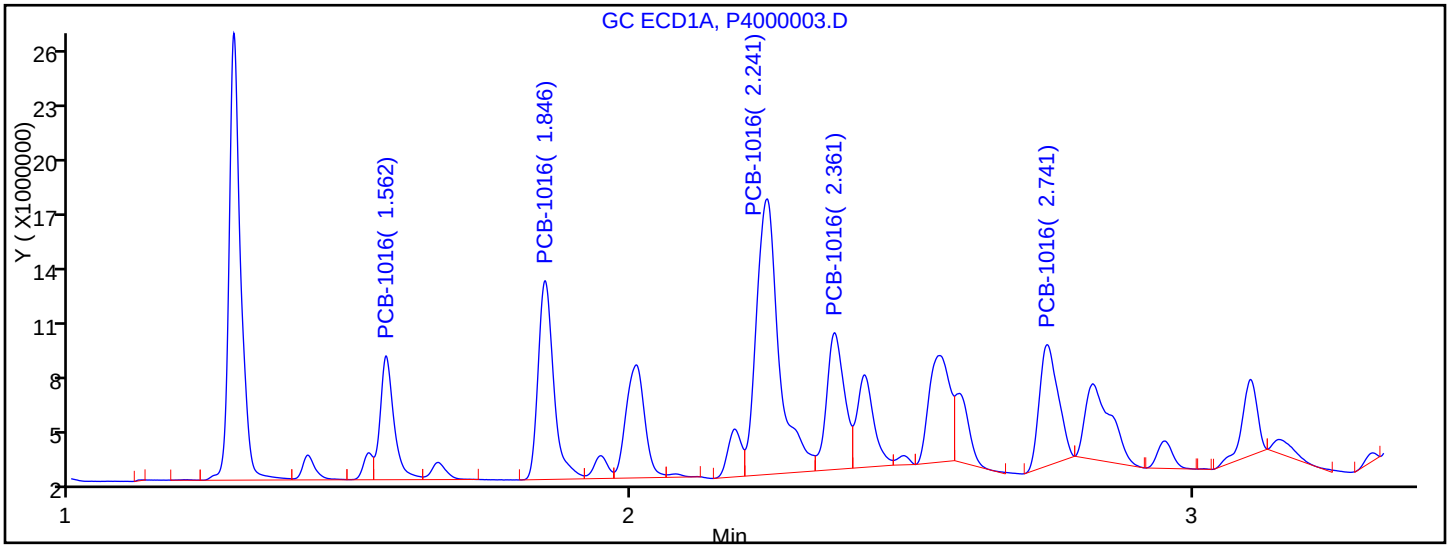
Report Date: 29-Apr-2013 15:57:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D

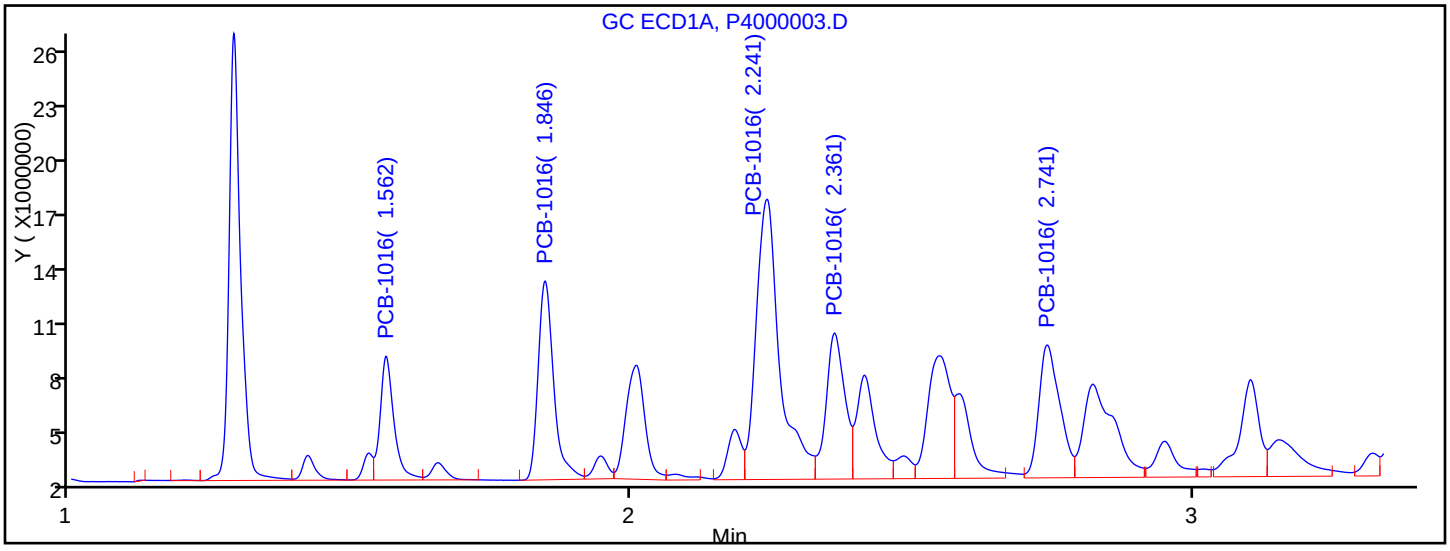
Injection Date:	29-Apr-2013 08:18:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.562	Response = 11712820	
RT = 1.846	Response = 21244386	
RT = 2.241	Response = 43077624	M
RT = 2.361	Response = 16626644	M
RT = 2.741	Response = 15495468	M



Manual Integration Results

RT = 1.562	Response = 11712820	
RT = 1.846	Response = 21244386	
RT = 2.241	Response = 45376157	M
RT = 2.361	Response = 18654108	M
RT = 2.741	Response = 19183566	M

Reviewer: hassl, 29-Apr-2013 15:55:51

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

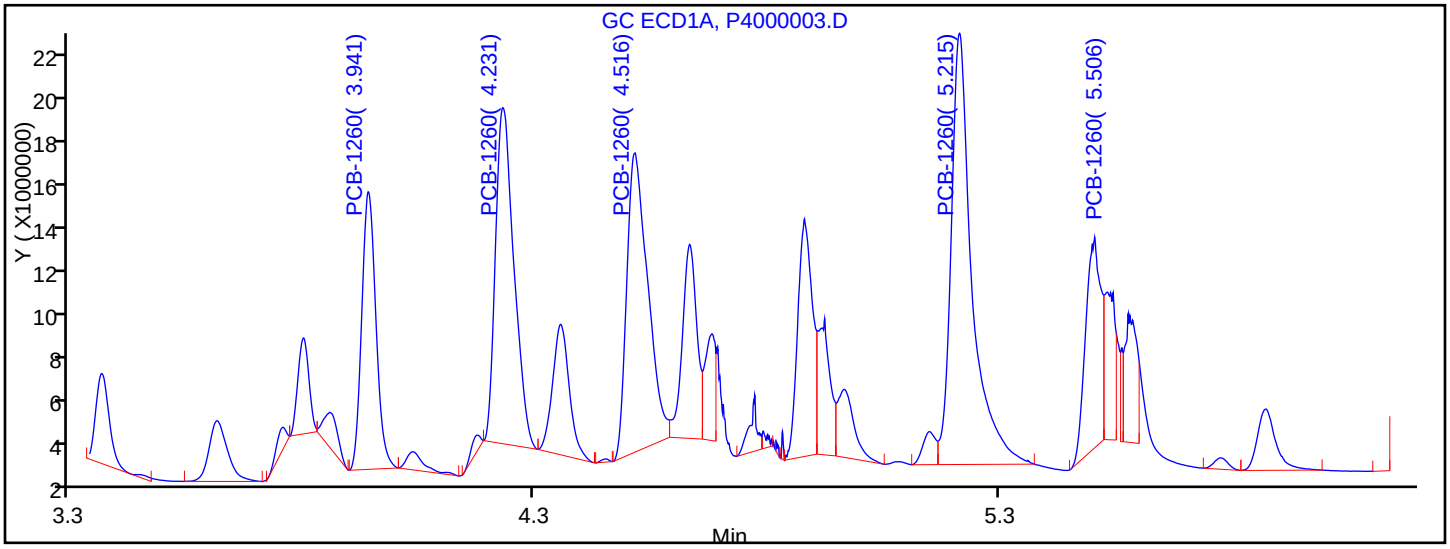
Report Date: 29-Apr-2013 15:57:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D

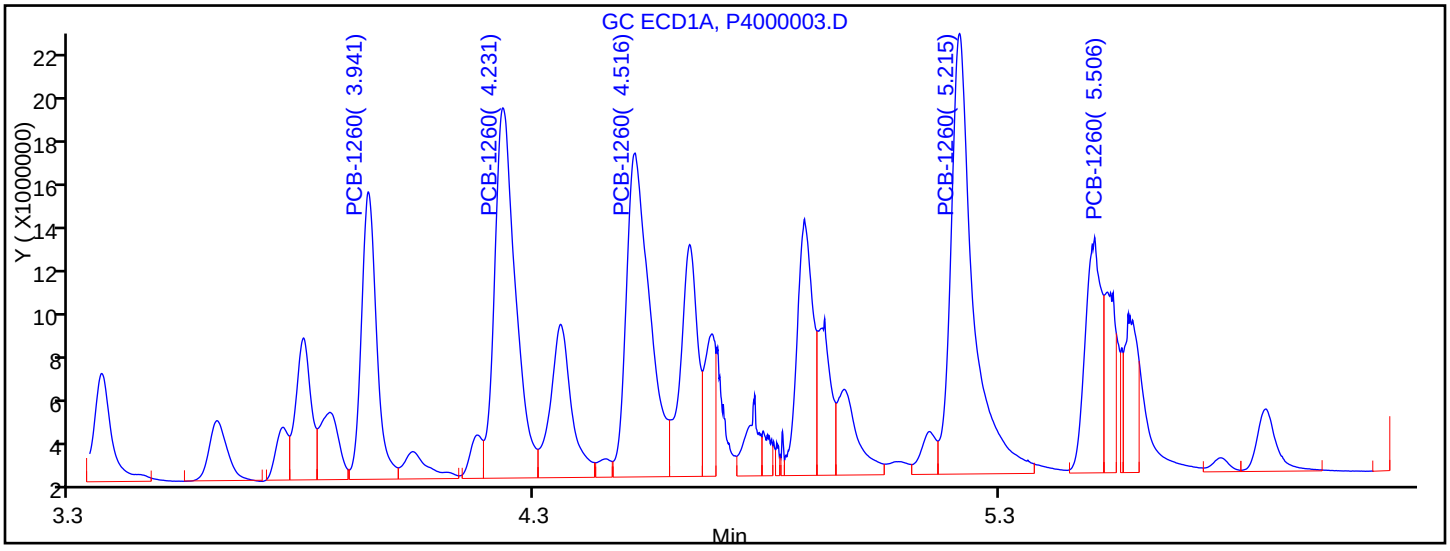
Injection Date:	29-Apr-2013 08:18:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.941	Response = 26108793	M
RT = 4.231	Response = 40992012	M
RT = 4.516	Response = 41465637	M
RT = 5.215	Response = 59485803	M
RT = 5.506	Response = 21366484	M



Manual Integration Results

RT = 3.941	Response = 28978361	M
RT = 4.231	Response = 51296261	M
RT = 4.516	Response = 50328429	M
RT = 5.215	Response = 64730552	M
RT = 5.506	Response = 24905142	M

Reviewer: hassl, 29-Apr-2013 15:55:51

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/3 Calibration Date: 04/29/2013 08:18

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	21131958		0.412	0.500	-17.6	20.0
PCB-1016 Peak 2	Ave	50771162	41579126		0.409	0.500	-18.1	20.0
PCB-1016 Peak 3	Ave	99379492	85306660		0.429	0.500	-14.2	20.0
PCB-1016 Peak 4	Ave	44018240	38553610		0.438	0.500	-12.4	20.0
PCB-1016 Peak 5	Ave	34251515	30091944		0.439	0.500	-12.1	20.0
PCB-1260 Peak 1	Ave	68786213	62654900		0.455	0.500	-8.9	20.0
PCB-1260 Peak 2	Ave	79832052	74869580		0.469	0.500	-6.2	20.0
PCB-1260 Peak 3	Ave	118169923	108115098		0.457	0.500	-8.5	20.0
PCB-1260 Peak 4	Ave	145808797	137436480		0.471	0.500	-5.7	20.0
PCB-1260 Peak 5	Ave	96662928	88931556		0.460	0.500	-8.0	20.0
Tetrachloro-m-xylene	Ave	1577823383	1284259440		0.0203	0.0250	-18.6	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1314983160		0.0226	0.0250	-9.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/3 Calibration Date: 04/29/2013 08:18

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.17	2.07	2.27
PCB-1016 Peak 2	2.56	2.46	2.66
PCB-1016 Peak 3	3.02	2.92	3.12
PCB-1016 Peak 4	3.16	3.06	3.26
PCB-1016 Peak 5	3.26	3.16	3.36
PCB-1260 Peak 1	4.97	4.87	5.07
PCB-1260 Peak 2	5.20	5.10	5.30
PCB-1260 Peak 3	5.57	5.47	5.67
PCB-1260 Peak 4	6.26	6.16	6.36
PCB-1260 Peak 5	6.64	6.54	6.74
Tetrachloro-m-xylene	1.70	1.60	1.80
DCB Decachlorobiphenyl	7.87	7.77	7.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 29-Apr-2013 08:18:39 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 240-0019366-003
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 83996 Lims Sample ID: 3
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:20 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:55:51

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.291	1.291	0.000	35569053	0.0225			
2	2	1.700	1.700	0.000	32106486	0.0203			
						RPD = 9.87			
6 PCB-1016									M
1	100	1.562	1.562	0.000	11712820	0.4316		100.0	
1	2	1.846	1.846	0.000	21244386	0.4338	156.0- 206.0	181.4	
1	3	2.241	2.241	0.000	45376157	0.4856	312.4- 362.4	387.4	M
1	4	2.361	2.361	0.000	18654108	0.4445	118.7- 188.7	159.3	M
1	5	2.741	2.741	0.000	19183566	0.4525	125.6- 175.6	163.8	M
			Average of Peak Amounts =			0.4496			
2	6	2.165	2.165	0.000	10565979	0.4120		100.0	
2	7	2.561	2.561	0.000	20789563	0.4095	169.6- 229.6	196.8	M
2	8	3.016	3.016	0.000	42653330	0.4292	351.4- 411.4	403.7	M
2	9	3.155	3.155	0.000	19276805	0.4379	141.3- 201.3	182.4	M
2	10	3.259	3.259	0.000	15045972	0.4393	102.5- 162.5	142.4	M
			Average of Peak Amounts =			0.4256			
						RPD = 5.50			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.941	3.941	0.000	28978361	0.4644		100.0	M
1	2	4.231	4.231	0.000	51296261	0.4658	152.2- 202.2	177.0	M
1	3	4.516	4.516	0.000	50328429	0.4674	146.4- 196.4	173.7	M
1	4	5.215	5.215	0.000	64730552	0.5003	180.7- 230.7	223.4	M
1	5	5.506	5.506	0.000	24905142	0.4276	64.1- 114.1	85.9	M
			Average of Peak Amounts =			0.4651			
2	6	4.969	4.969	0.000	31327450	0.4554		100.0	M
2	7	5.201	5.201	0.000	37434790	0.4689	87.6- 147.6	119.5	M
2	8	5.570	5.570	0.000	54057549	0.4575	144.7- 204.7	172.6	M
2	9	6.256	6.256	0.000	68718240	0.4713	187.7- 247.7	219.4	M
2	10	6.636	6.636	0.000	44465778	0.4600	115.0- 175.0	141.9	M
			Average of Peak Amounts =			0.4626			
						RPD = 0.54			
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	33761964	0.0253			
2	2	7.869	7.869	0.000	32874579	0.0226			
						RPD = 11.35			

QC Flag Legend

Review Flags
M - Manually Integrated

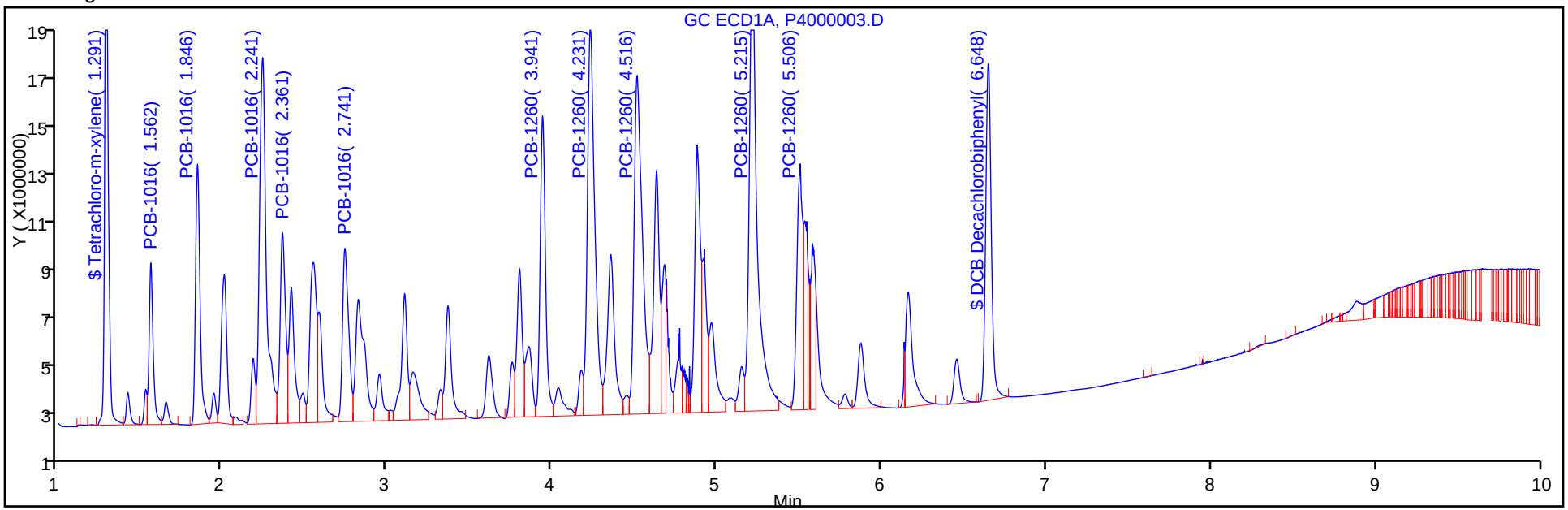
Report Date: 29-Apr-2013 15:57:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

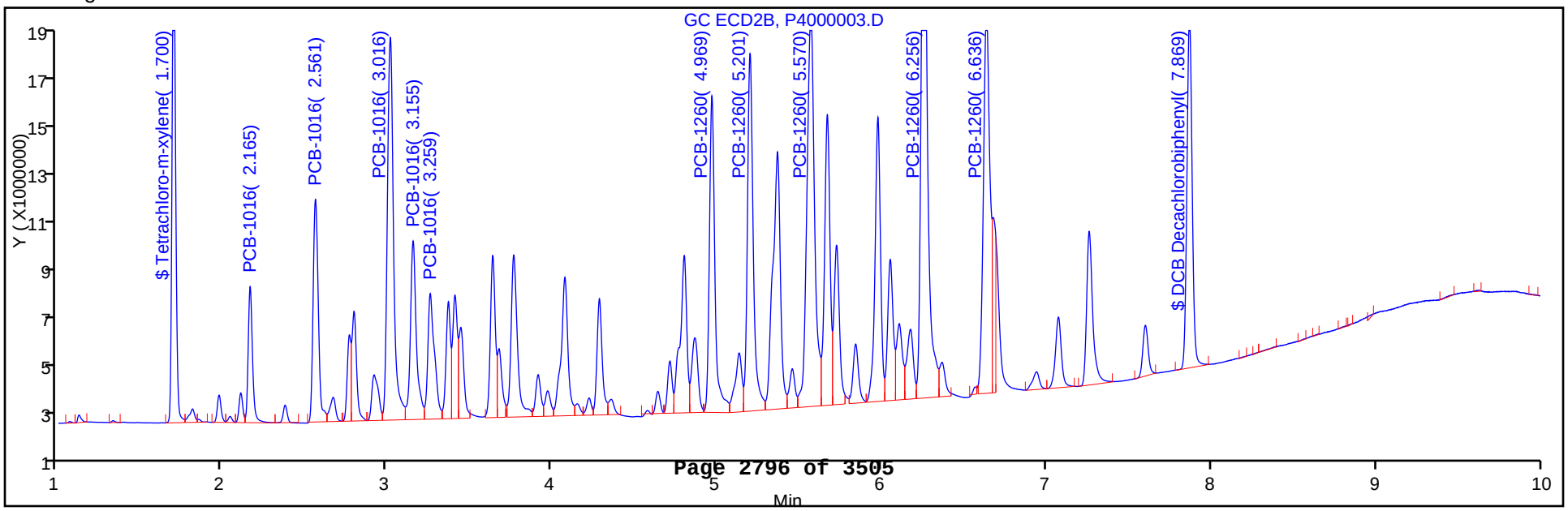
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D

Injection Date:	29-Apr-2013 08:18:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



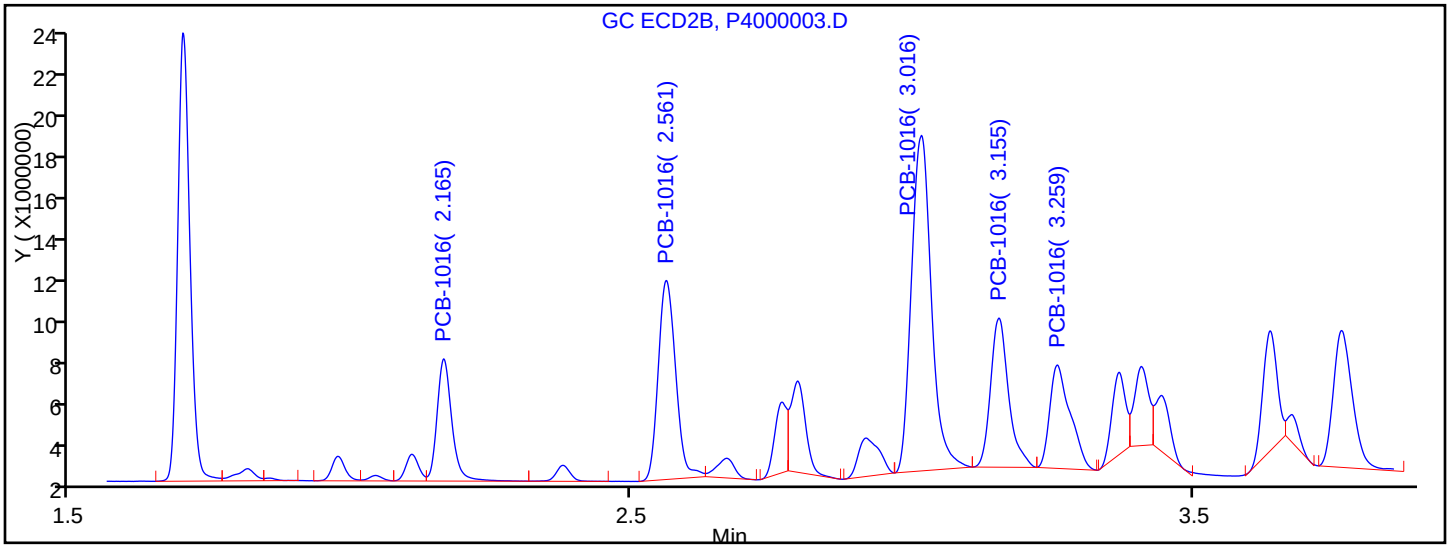
Report Date: 29-Apr-2013 15:57:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D

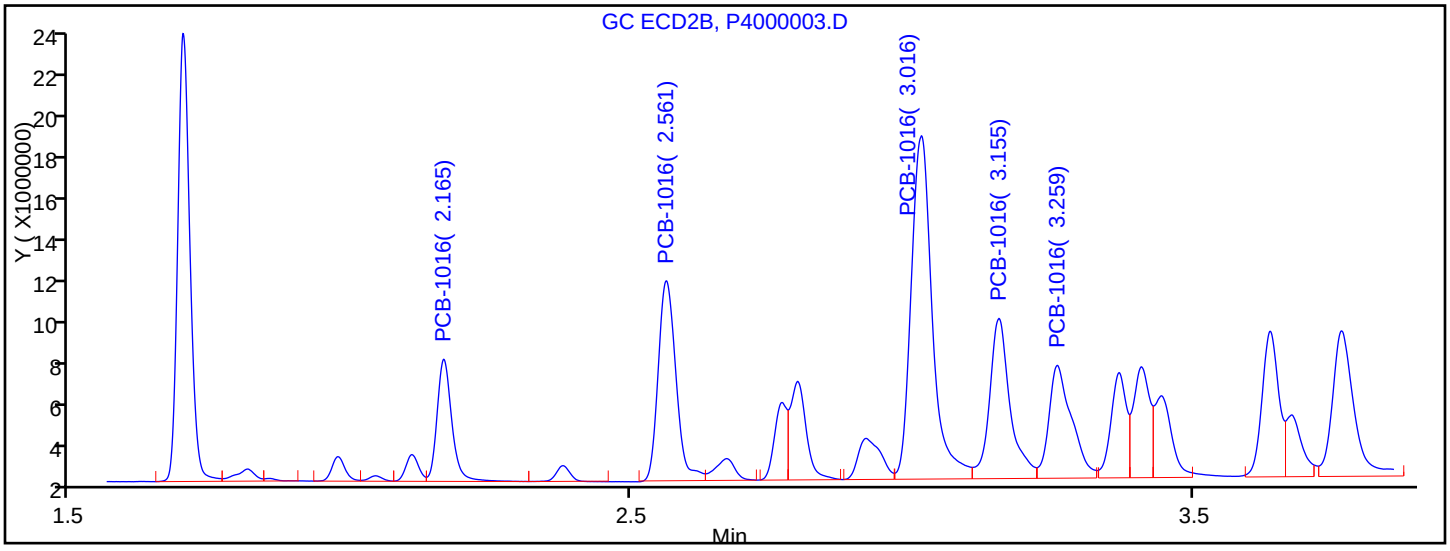
Injection Date:	29-Apr-2013 08:18:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 2, GC ecd2b



Processing Integration Results

RT = 2.165	Response = 10565979	
RT = 2.561	Response = 20339828	M
RT = 3.016	Response = 39249380	M
RT = 3.155	Response = 15703108	M
RT = 3.259	Response = 12339300	M



Manual Integration Results

RT = 2.165	Response = 10565979	
RT = 2.561	Response = 20789563	M
RT = 3.016	Response = 42653330	M
RT = 3.155	Response = 19276805	M
RT = 3.259	Response = 15045972	M

Reviewer: hassl, 29-Apr-2013 15:55:51

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

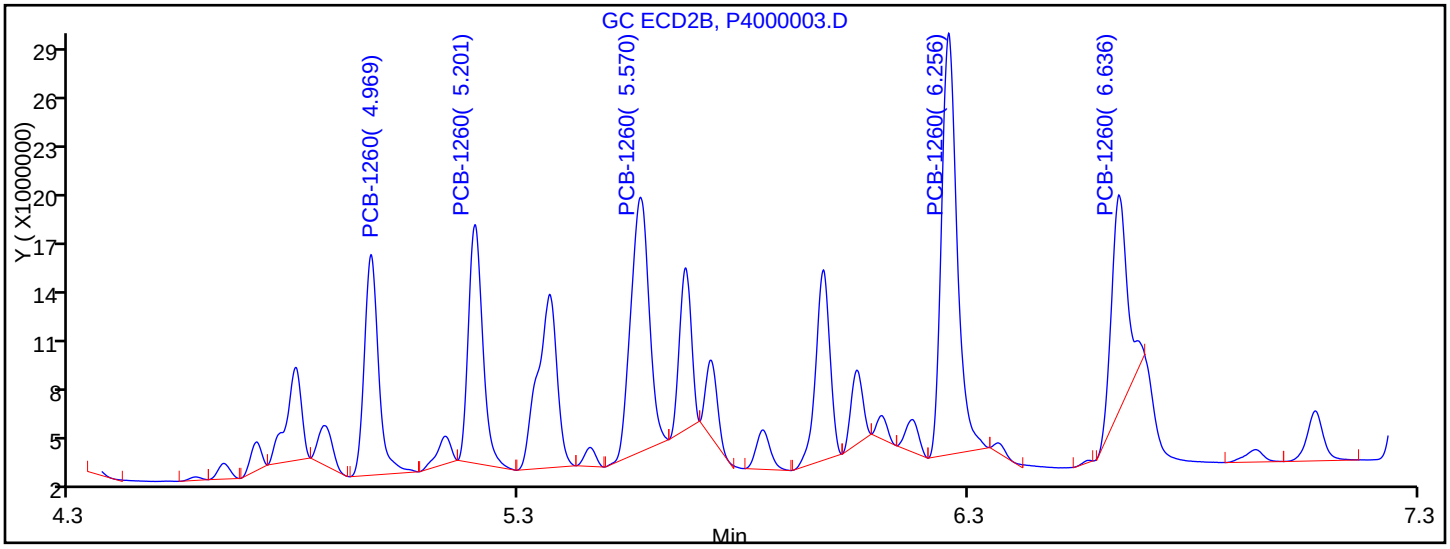
Report Date: 29-Apr-2013 15:57:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000003.D

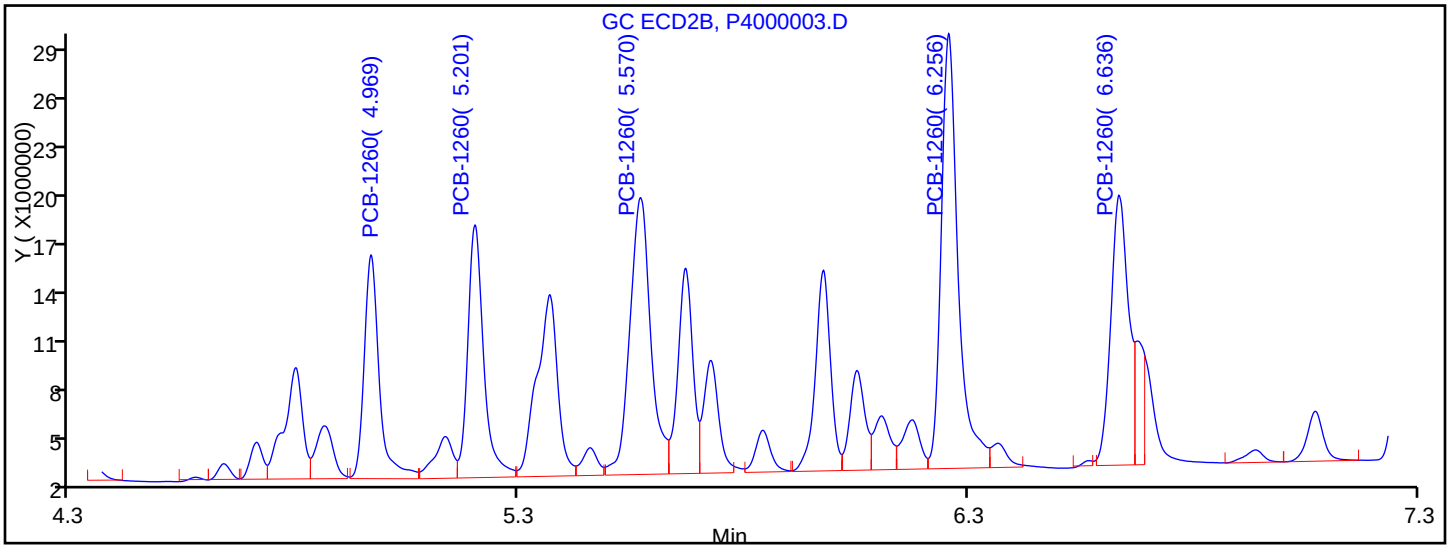
Injection Date:	29-Apr-2013 08:18:39	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	3
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.969	Response = 29268792	M
RT = 5.201	Response = 31885437	M
RT = 5.570	Response = 43508164	M
RT = 6.256	Response = 61280724	M
RT = 6.636	Response = 31782188	M



Manual Integration Results

RT = 4.969	Response = 31327450	M
RT = 5.201	Response = 37434790	M
RT = 5.570	Response = 54057549	M
RT = 6.256	Response = 68718240	M
RT = 6.636	Response = 44465778	M

Reviewer: hassl, 29-Apr-2013 15:55:51

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/9 Calibration Date: 04/29/2013 09:51

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000009.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	27137284	23725242		0.437	0.500	-12.6	20.0
PCB-1016 Peak 2	Ave	48967138	43015670		0.439	0.500	-12.2	20.0
PCB-1016 Peak 3	Ave	93440084	90070790		0.482	0.500	-3.6	20.0
PCB-1016 Peak 4	Ave	41962283	36204376		0.431	0.500	-13.7	20.0
PCB-1016 Peak 5	Ave	42399034	36094950		0.426	0.500	-14.9	20.0
PCB-1260 Peak 1	Ave	62400345	55890324		0.448	0.500	-10.4	20.0
PCB-1260 Peak 2	Ave	110128120	98779736		0.448	0.500	-10.3	20.0
PCB-1260 Peak 3	Ave	107668512	96193812		0.447	0.500	-10.7	20.0
PCB-1260 Peak 4	Ave	129376197	114028344		0.441	0.500	-11.9	20.0
PCB-1260 Peak 5	Ave	58244642	45541540		0.391	0.500	-21.8*	20.0
Tetrachloro-m-xylene	Ave	1583607317	1442248200		0.0228	0.0250	-8.9	20.0
DCB Decachlorobiphenyl	Ave	1335217125	1290362280		0.0242	0.0250	-3.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/9 Calibration Date: 04/29/2013 09:51

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000009.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.56	1.46	1.66
PCB-1016 Peak 2	1.85	1.75	1.95
PCB-1016 Peak 3	2.24	2.14	2.34
PCB-1016 Peak 4	2.37	2.27	2.47
PCB-1016 Peak 5	2.74	2.64	2.84
PCB-1260 Peak 1	3.94	3.84	4.04
PCB-1260 Peak 2	4.23	4.13	4.33
PCB-1260 Peak 3	4.52	4.42	4.62
PCB-1260 Peak 4	5.22	5.12	5.32
PCB-1260 Peak 5	5.51	5.41	5.61
Tetrachloro-m-xylene	1.29	1.19	1.39
DCB Decachlorobiphenyl	6.65	6.55	6.75

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000009.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 29-Apr-2013 09:51:12 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019366-009
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 9
Lims Batch ID: 83996 Lims Sample ID: 9
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:26 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:51:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.292	1.292	0.000	36056205	0.0228			
2	2	1.702	1.702	0.000	31507896	0.0200			
						RPD = 13.10			
6 PCB-1016									
1	100	1.564	1.564	0.000	11862621	0.4371		100.0	
1	2	1.847	1.847	0.000	21507835	0.4392	156.0- 206.0	181.3	
1	3	2.243	2.243	0.000	45035395	0.4820	312.4- 362.4	379.6	
1	4	2.365	2.365	0.000	18102188	0.4314	118.7- 188.7	152.6	
1	5	2.743	2.743	0.000	18047475	0.4257	125.6- 175.6	152.1	
			Average of Peak Amounts =			0.4431			
2	6	2.166	2.166	0.000	10087387	0.3933		100.0	
2	7	2.564	2.564	0.000	19999824	0.3939	169.6- 229.6	198.3	
2	8	3.019	3.019	0.000	41220027	0.4148	351.4- 411.4	408.6	
2	9	3.157	3.157	0.000	18461170	0.4194	141.3- 201.3	183.0	
2	10	3.261	3.261	0.000	14426968	0.4212	102.5- 162.5	143.0	
			Average of Peak Amounts =			0.4085			
						RPD = 8.12			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.943	3.943	0.000	27945162	0.4478		100.0	
1	2	4.232	4.232	0.000	49389868	0.4485	152.2- 202.2	176.7	
1	3	4.517	4.517	0.000	48096906	0.4467	146.4- 196.4	172.1	
1	4	5.216	5.216	0.000	57014172	0.4407	180.7- 230.7	204.0	
1	5	5.505	5.505	0.000	22770770	0.3910	64.1- 114.1	81.5	M
			Average of Peak Amounts =			0.4349			
2	6	4.971	4.971	0.000	29229591	0.4249		100.0	
2	7	5.203	5.203	0.000	34755153	0.4354	87.6- 147.6	118.9	
2	8	5.570	5.570	0.000	50858946	0.4304	144.7- 204.7	174.0	
2	9	6.258	6.258	0.000	64903953	0.4451	187.7- 247.7	222.0	
2	10	6.639	6.639	0.000	41093755	0.4251	115.0- 175.0	140.6	M
			Average of Peak Amounts =			0.4322			
						RPD = 0.63			
$ 12 DCB Decachlorobiphenyl									
1	100	6.649	6.649	0.000	32259057	0.0242			
2	2	7.871	7.871	0.000	31321745	0.0215			
						RPD = 11.64			

QC Flag Legend

Review Flags
M - Manually Integrated

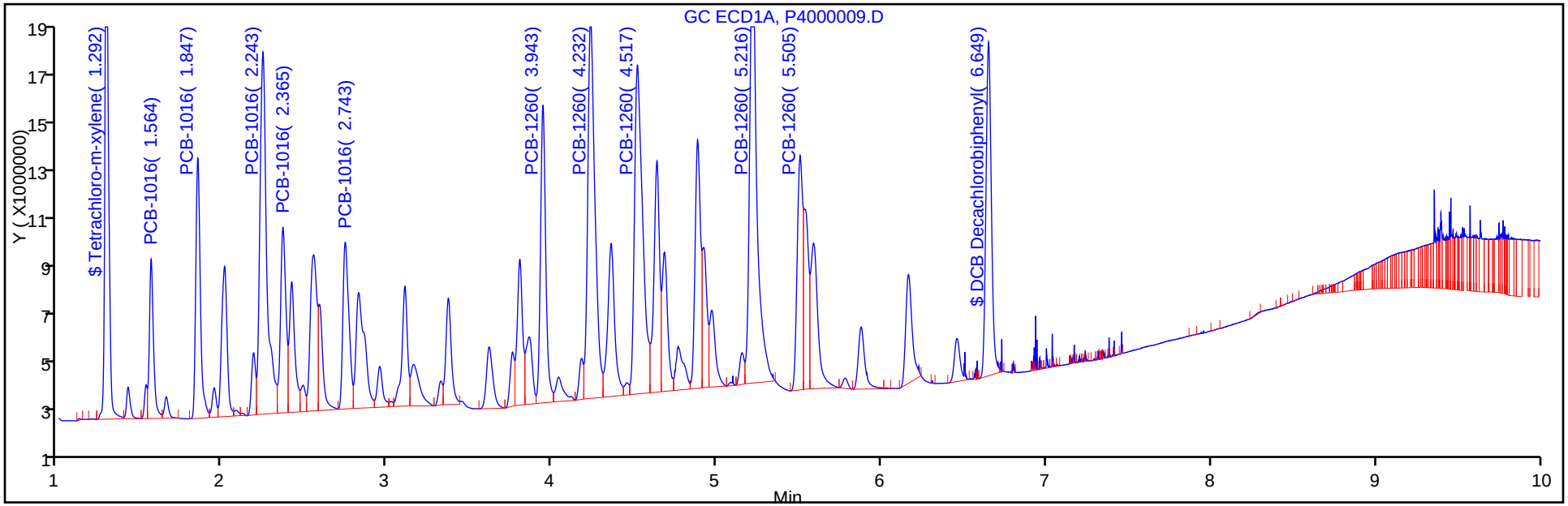
Report Date: 29-Apr-2013 15:57:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

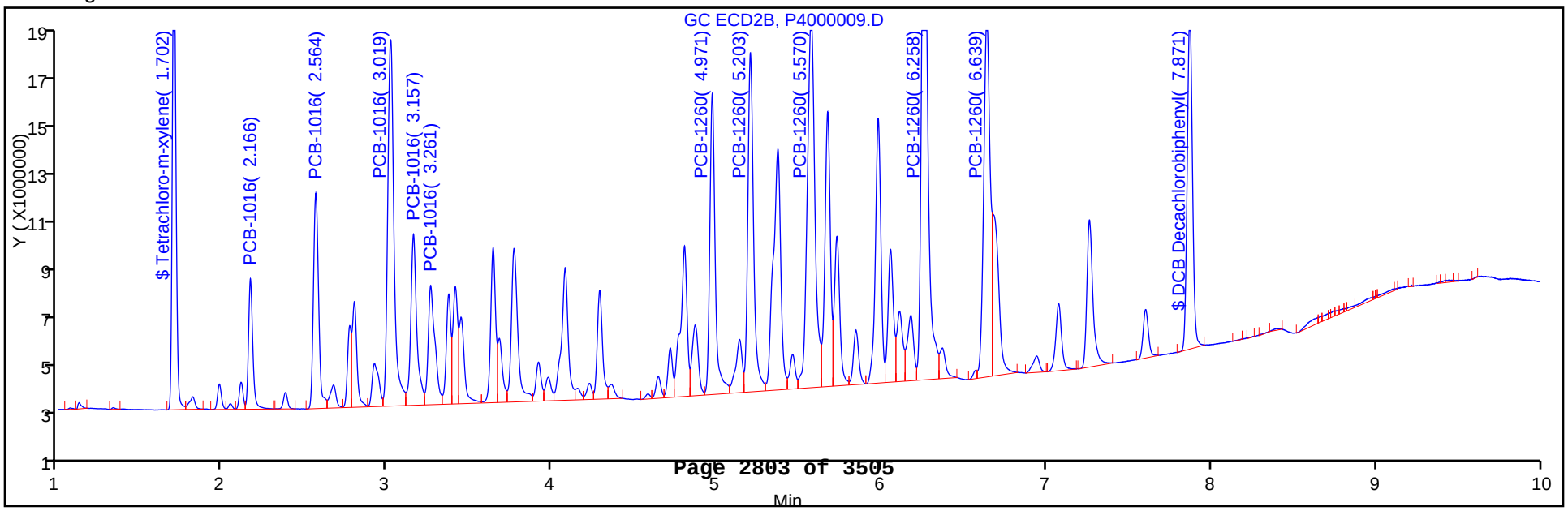
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000009.D

Injection Date:	29-Apr-2013 09:51:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



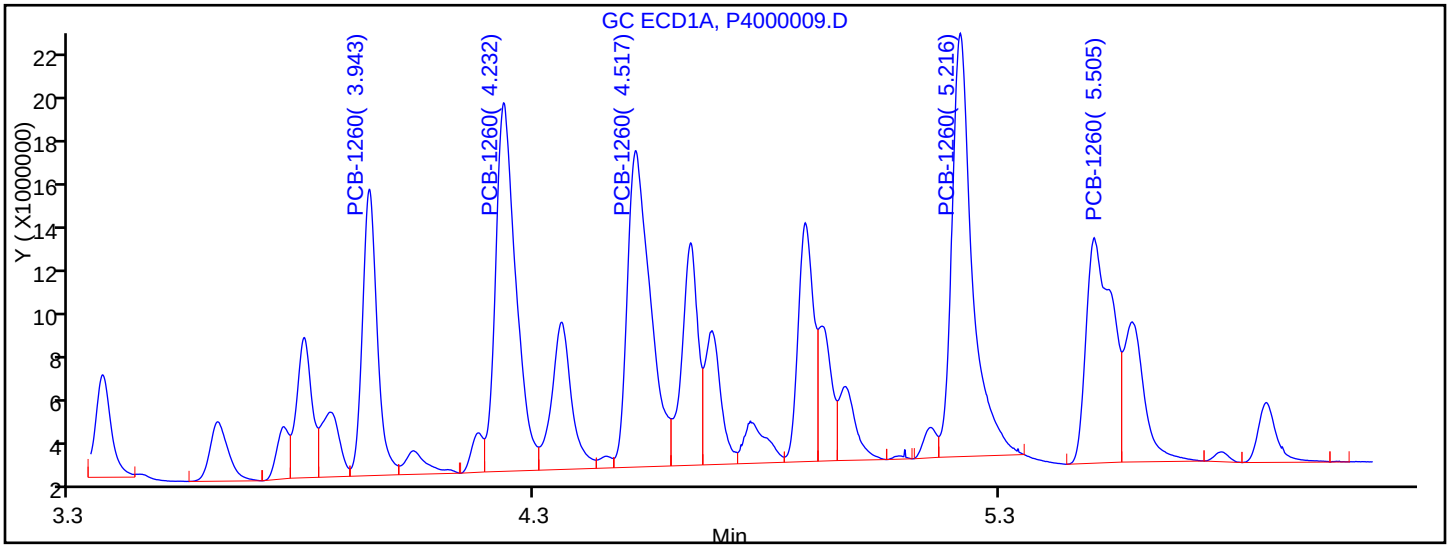
Report Date: 29-Apr-2013 15:57:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000009.D

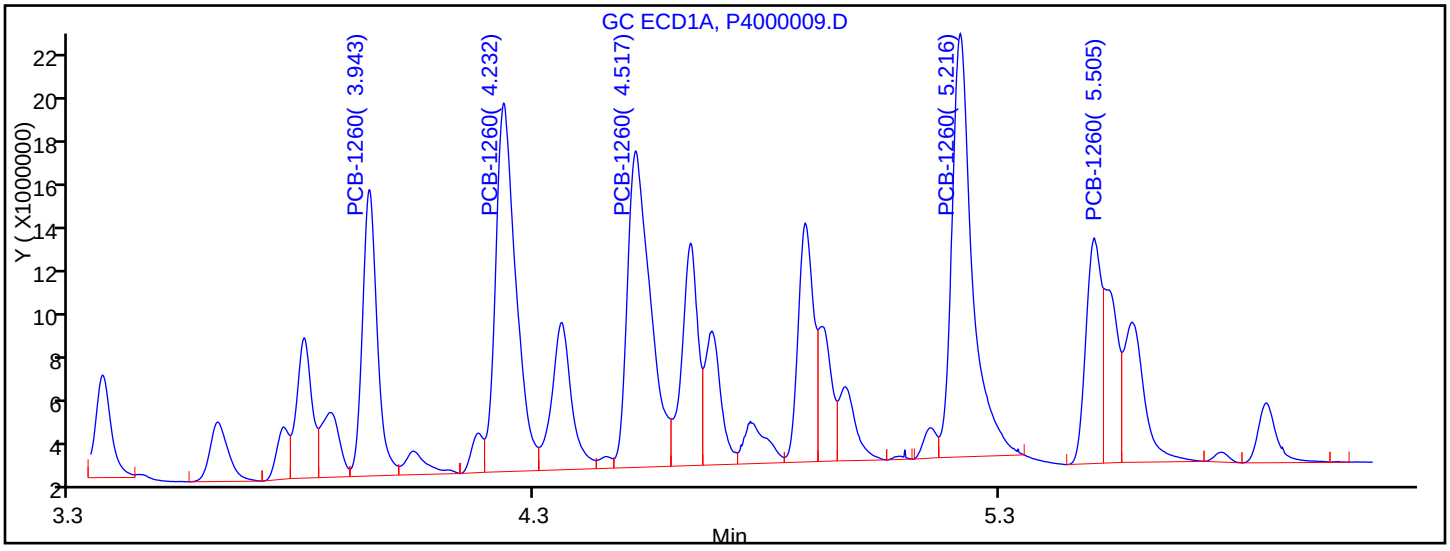
Injection Date:	29-Apr-2013 09:51:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.943	Response = 27945162	
RT = 4.232	Response = 49389868	
RT = 4.517	Response = 48096906	
RT = 5.216	Response = 57014172	
RT = 5.505	Response = 38574770	M



Manual Integration Results

RT = 3.943	Response = 27945162	
RT = 4.232	Response = 49389868	
RT = 4.517	Response = 48096906	
RT = 5.216	Response = 57014172	
RT = 5.505	Response = 22770770	M

Reviewer: hassl, 29-Apr-2013 15:51:56

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/9 Calibration Date: 04/29/2013 09:51

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000009.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	25648240	20174774		0.393	0.500	-21.3*	20.0
PCB-1016 Peak 2	Ave	50771162	39999648		0.394	0.500	-21.2*	20.0
PCB-1016 Peak 3	Ave	99379492	82440054		0.415	0.500	-17.0	20.0
PCB-1016 Peak 4	Ave	44018240	36922340		0.419	0.500	-16.1	20.0
PCB-1016 Peak 5	Ave	34251515	28853936		0.421	0.500	-15.8	20.0
PCB-1260 Peak 1	Ave	68786213	58459182		0.425	0.500	-15.0	20.0
PCB-1260 Peak 2	Ave	79832052	69510306		0.435	0.500	-12.9	20.0
PCB-1260 Peak 3	Ave	118169923	101717892		0.430	0.500	-13.9	20.0
PCB-1260 Peak 4	Ave	145808797	129807906		0.445	0.500	-11.0	20.0
PCB-1260 Peak 5	Ave	96662928	82187510		0.425	0.500	-15.0	20.0
Tetrachloro-m-xylene	Ave	1577823383	1260315840		0.0200	0.0250	-20.1*	20.0
DCB Decachlorobiphenyl	Ave	1456619055	1252869800		0.0215	0.0250	-14.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 240-83996/9 Calibration Date: 04/29/2013 09:51

Instrument ID: A2HP4 Calib Start Date: 04/15/2013 05:58

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/15/2013 07:16

Lab File ID: P4000009.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.17	2.07	2.27
PCB-1016 Peak 2	2.56	2.46	2.66
PCB-1016 Peak 3	3.02	2.92	3.12
PCB-1016 Peak 4	3.16	3.06	3.26
PCB-1016 Peak 5	3.26	3.16	3.36
PCB-1260 Peak 1	4.97	4.87	5.07
PCB-1260 Peak 2	5.20	5.10	5.30
PCB-1260 Peak 3	5.57	5.47	5.67
PCB-1260 Peak 4	6.26	6.16	6.36
PCB-1260 Peak 5	6.64	6.54	6.74
Tetrachloro-m-xylene	1.70	1.60	1.80
DCB Decachlorobiphenyl	7.87	7.77	7.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000009.D
Lims ID: CCV AR1660 Client ID:
Inject. Date: 29-Apr-2013 09:51:12 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 240-0019366-009
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 9
Lims Batch ID: 83996 Lims Sample ID: 9
Sublist: chrom-PCB4*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:26 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:51:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.292	1.292	0.000	36056205	0.0228			
2	2	1.702	1.702	0.000	31507896	0.0200			
						RPD = 13.10			
6 PCB-1016									
1	100	1.564	1.564	0.000	11862621	0.4371		100.0	
1	2	1.847	1.847	0.000	21507835	0.4392	156.0- 206.0	181.3	
1	3	2.243	2.243	0.000	45035395	0.4820	312.4- 362.4	379.6	
1	4	2.365	2.365	0.000	18102188	0.4314	118.7- 188.7	152.6	
1	5	2.743	2.743	0.000	18047475	0.4257	125.6- 175.6	152.1	
			Average of Peak Amounts =			0.4431			
2	6	2.166	2.166	0.000	10087387	0.3933		100.0	
2	7	2.564	2.564	0.000	19999824	0.3939	169.6- 229.6	198.3	
2	8	3.019	3.019	0.000	41220027	0.4148	351.4- 411.4	408.6	
2	9	3.157	3.157	0.000	18461170	0.4194	141.3- 201.3	183.0	
2	10	3.261	3.261	0.000	14426968	0.4212	102.5- 162.5	143.0	
			Average of Peak Amounts =			0.4085			
						RPD = 8.12			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.943	3.943	0.000	27945162	0.4478		100.0	
1	2	4.232	4.232	0.000	49389868	0.4485	152.2- 202.2	176.7	
1	3	4.517	4.517	0.000	48096906	0.4467	146.4- 196.4	172.1	
1	4	5.216	5.216	0.000	57014172	0.4407	180.7- 230.7	204.0	
1	5	5.505	5.505	0.000	22770770	0.3910	64.1- 114.1	81.5	M
			Average of Peak Amounts =			0.4349			
2	6	4.971	4.971	0.000	29229591	0.4249		100.0	
2	7	5.203	5.203	0.000	34755153	0.4354	87.6- 147.6	118.9	
2	8	5.570	5.570	0.000	50858946	0.4304	144.7- 204.7	174.0	
2	9	6.258	6.258	0.000	64903953	0.4451	187.7- 247.7	222.0	
2	10	6.639	6.639	0.000	41093755	0.4251	115.0- 175.0	140.6	M
			Average of Peak Amounts =			0.4322			
						RPD = 0.63			
$ 12 DCB Decachlorobiphenyl									
1	100	6.649	6.649	0.000	32259057	0.0242			
2	2	7.871	7.871	0.000	31321745	0.0215			
						RPD = 11.64			

QC Flag Legend

Review Flags
M - Manually Integrated

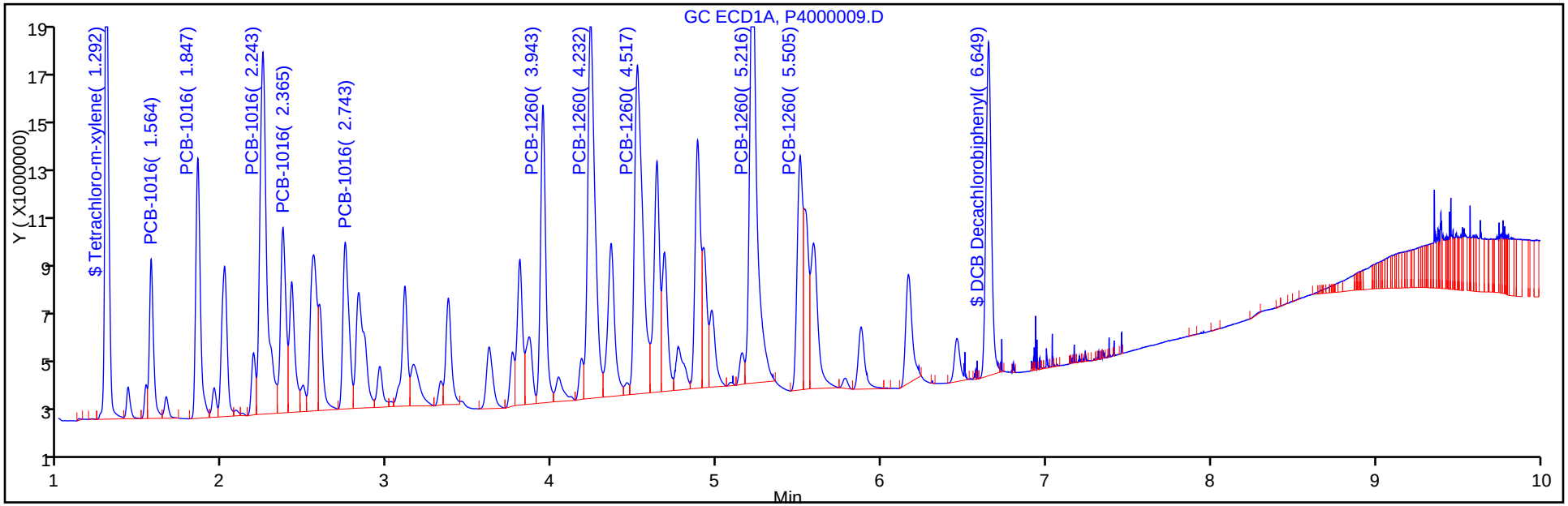
Report Date: 29-Apr-2013 15:57:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

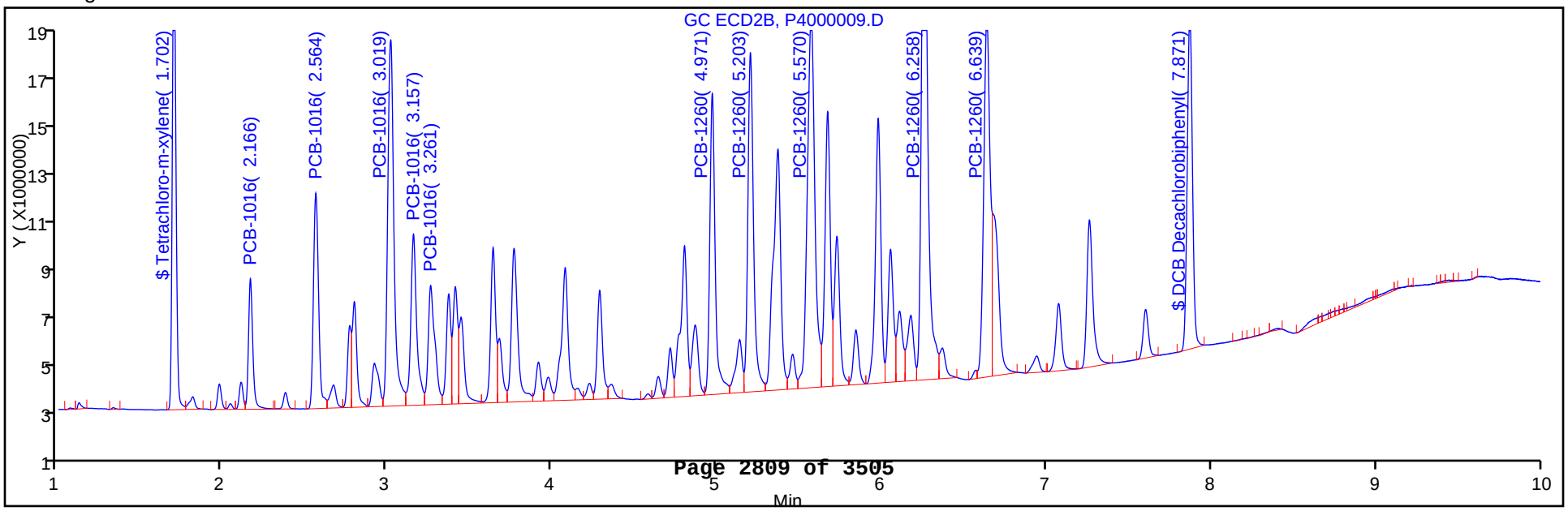
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000009.D

Injection Date:	29-Apr-2013 09:51:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



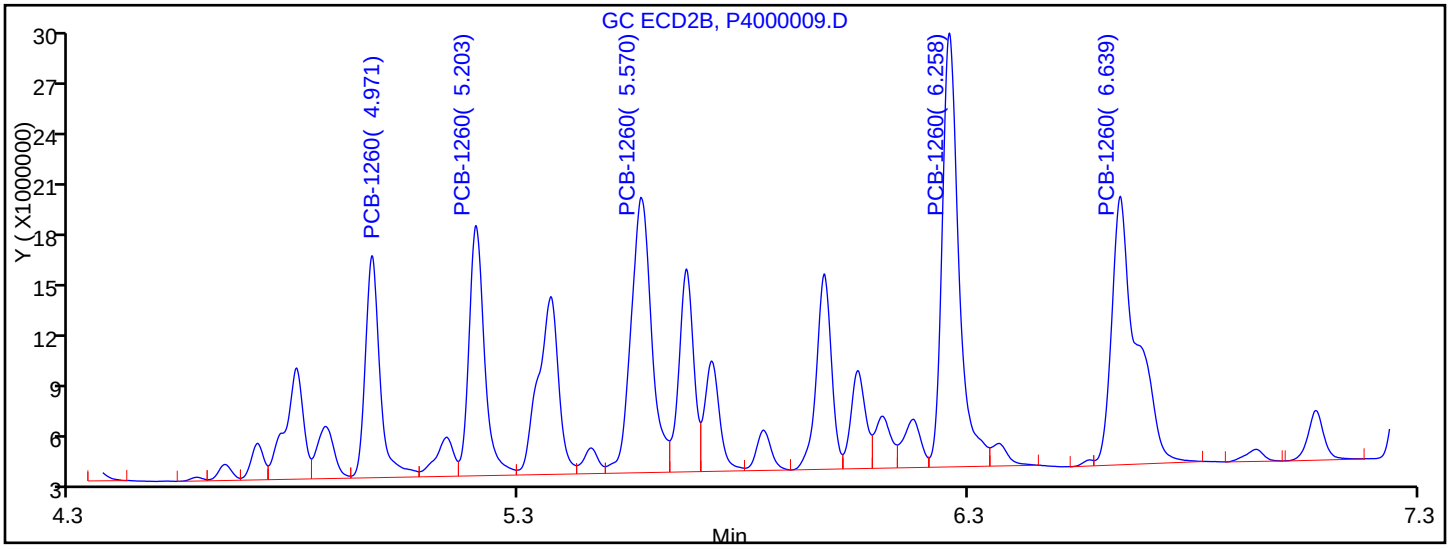
Report Date: 29-Apr-2013 15:57:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000009.D

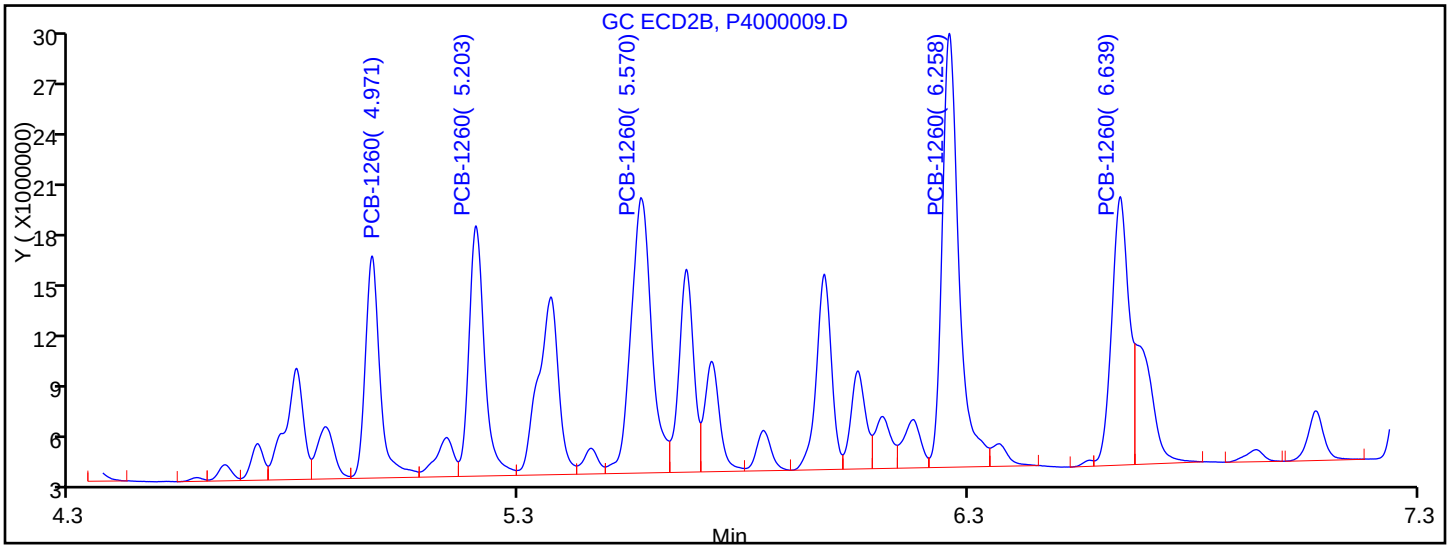
Injection Date:	29-Apr-2013 09:51:12	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	9
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.971	Response = 29229591	
RT = 5.203	Response = 34755153	
RT = 5.570	Response = 50858946	
RT = 6.258	Response = 64903953	
RT = 6.639	Response = 59492025	M



Manual Integration Results

RT = 4.971	Response = 29229591	
RT = 5.203	Response = 34755153	
RT = 5.570	Response = 50858946	
RT = 6.258	Response = 64903953	
RT = 6.639	Response = 41093755	M

Reviewer: hassl, 29-Apr-2013 15:51:56

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-81730/20-A

Matrix: Solid Lab File ID: P4000013.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.00(g) Date Analyzed: 04/18/2013 12:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	60		40-140
2051-24-3	DCB Decachlorobiphenyl	262	Q	60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000013.D
Lims ID: MB 240-81730/20-A Client ID:
Inject. Date: 18-Apr-2013 12:13:34 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018971-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 13
Lims Batch ID: 82363 Lims Sample ID: 13
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:42:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	19126405	0.0121			
2	2	1.682	1.682	0.000	18602148	0.0118			
						RPD = 2.41			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
9 PCB-1262									
1	100		4.203						
1	2		4.605						
1	3		4.851						
1	4		5.180						
1	5		5.554						
2	6		5.173						
2	7		5.643						
2	8		5.949						
2	9		6.225						
2	10		6.605						
11 PCB-1268									
1	100		5.511						
1	2		5.550						
1	3		5.749						
1	4		6.126						
1	5		6.423						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.570						
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.620	0.006	69952065	0.0524			
2	2	7.842	7.841	0.001	18202125	0.0125			
						RPD = 122.97			

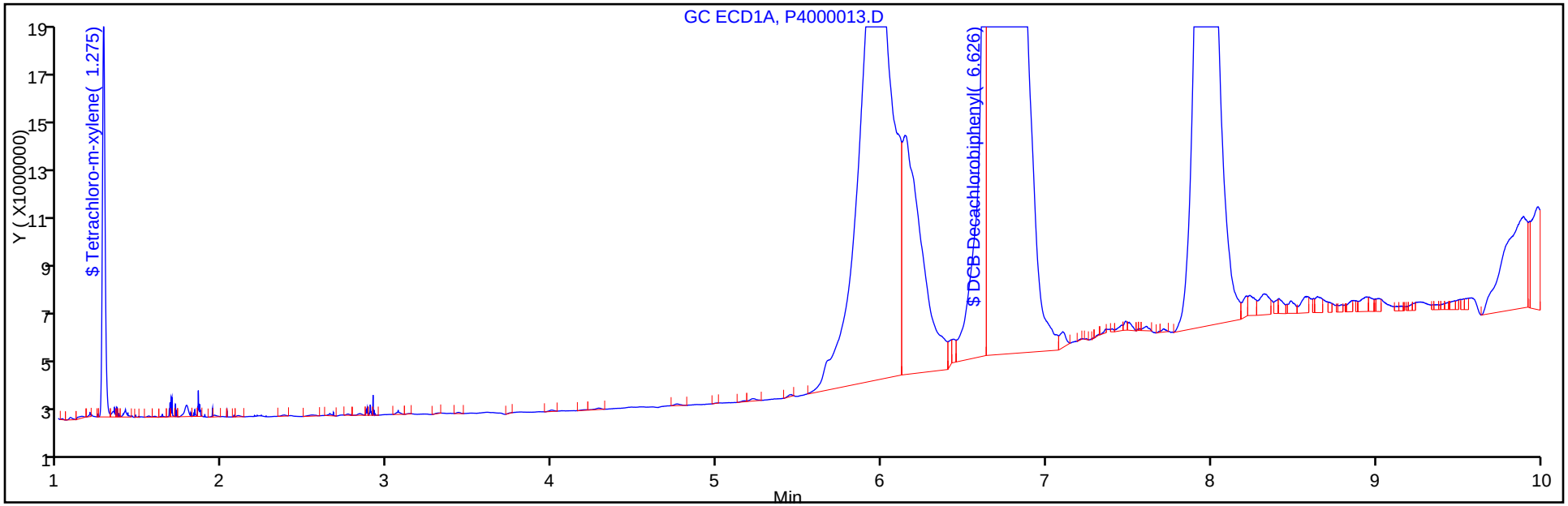
Report Date: 19-Apr-2013 14:47:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

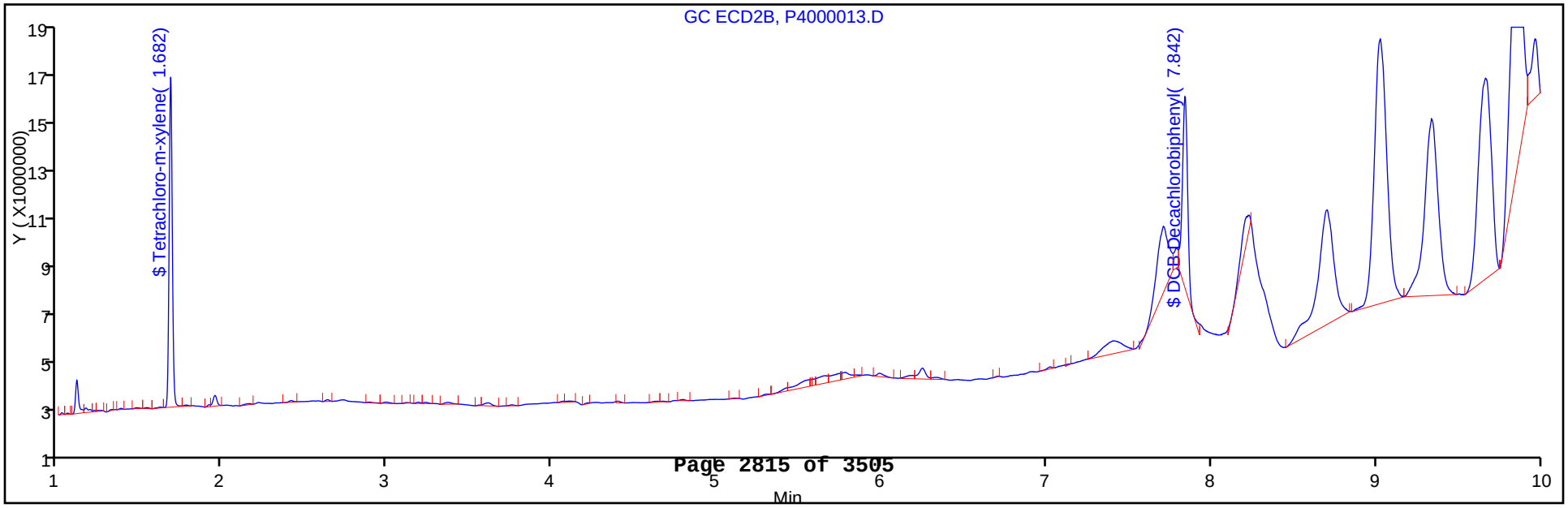
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000013.D

Injection Date:	18-Apr-2013 12:13:34	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-81730/20-A

Matrix: Solid | Lab File ID: P4000013.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.00(g) | Date Analyzed: 04/18/2013 12:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		40-140
2051-24-3	DCB Decachlorobiphenyl	62		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000013.D
Lims ID: MB 240-81730/20-A Client ID:
Inject. Date: 18-Apr-2013 12:13:34 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018971-013
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 13
Lims Batch ID: 82363 Lims Sample ID: 13
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:42:47

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	19126405	0.0121			
2	2	1.682	1.682	0.000	18602148	0.0118			
						RPD = 2.41			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100		1.545						
1	2		1.827						
1	3		2.221						
1	4		2.340						
1	5		2.717						
2	6		2.145						
2	7		2.541						
2	8		2.992						
2	9		3.131						
2	10		3.234						
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.916						
1	2		4.201						
1	3		4.482						
1	4		5.182						
1	5		5.467						
2	6		4.943						
2	7		5.173						
2	8		5.542						
2	9		6.226						
2	10		6.607						
9 PCB-1262									
1	100		4.203						
1	2		4.605						
1	3		4.851						
1	4		5.180						
1	5		5.554						
2	6		5.173						
2	7		5.643						
2	8		5.949						
2	9		6.225						
2	10		6.605						
11 PCB-1268									
1	100		5.511						
1	2		5.550						
1	3		5.749						
1	4		6.126						
1	5		6.423						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.570						
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.620	0.006	69952065	0.0524			
2	2	7.842	7.841	0.001	18202125	0.0125			
						RPD = 122.97			

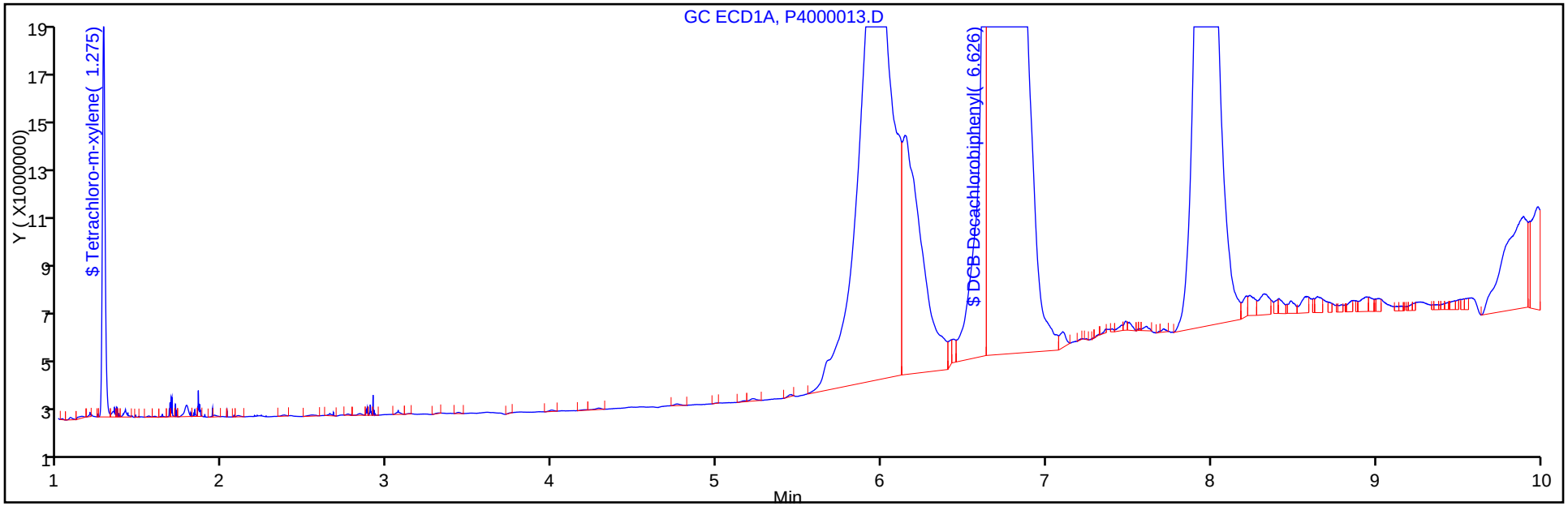
Report Date: 19-Apr-2013 14:47:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

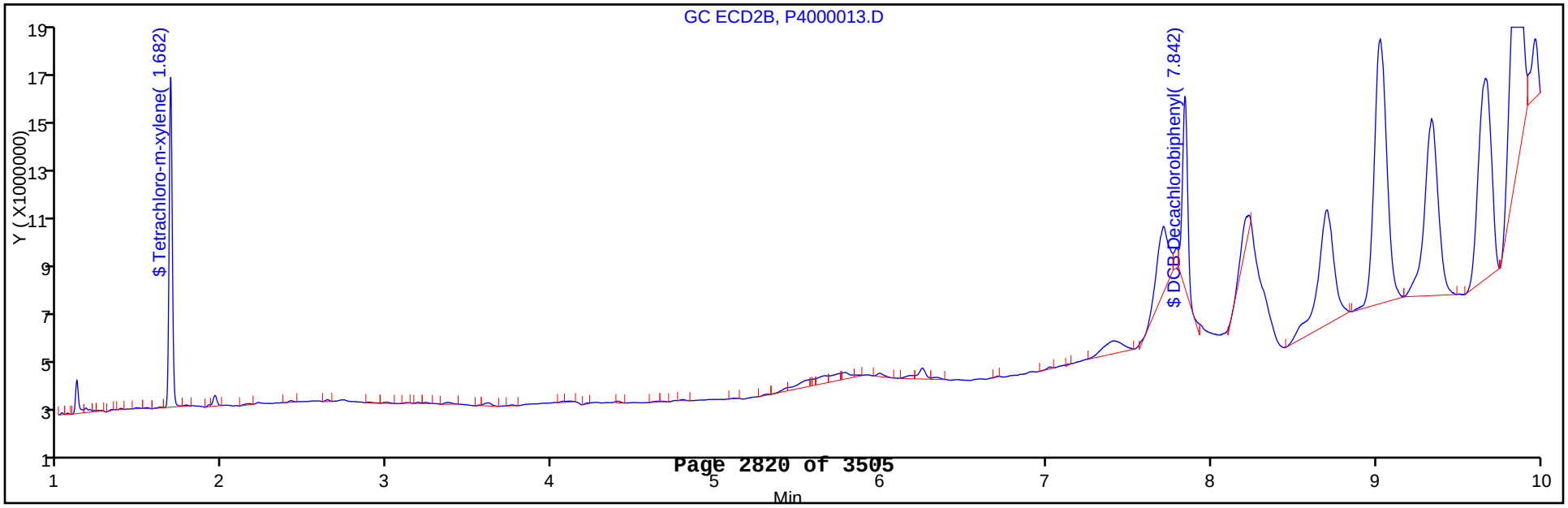
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000013.D

Injection Date:	18-Apr-2013 12:13:34	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	13
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-81736/24-A

Matrix: Solid Lab File ID: P4000019.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30(g) Date Analyzed: 04/17/2013 14:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		40-140
2051-24-3	DCB Decachlorobiphenyl	83		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000019.D		
Lims ID:	MB 240-81736/24-A	Client ID:	
Inject. Date:	17-Apr-2013 14:51:32	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0018945-019		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	19
Lims Batch ID:	82267	Lims Sample ID:	19
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:41	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	23610618	0.0149			
2	2	1.682	1.683	-0.001	24987452	0.0158			
						RPD = 6.03			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
9 PCB-1262									
1	100		4.202						
1	2		4.604						
1	3		4.850						
1	4		5.179						
1	5		5.553						
2	6		5.171						
2	7		5.642						
2	8		5.947						
2	9		6.223						
2	10		6.602						
11 PCB-1268									
1	100		5.511						
1	2		5.548						
1	3		5.747						
1	4		6.124						
1	5		6.422						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.619	-0.001	22218773	0.0166			
2	2	7.842	7.842	0.000	22444148	0.0154			
						RPD = 7.69			

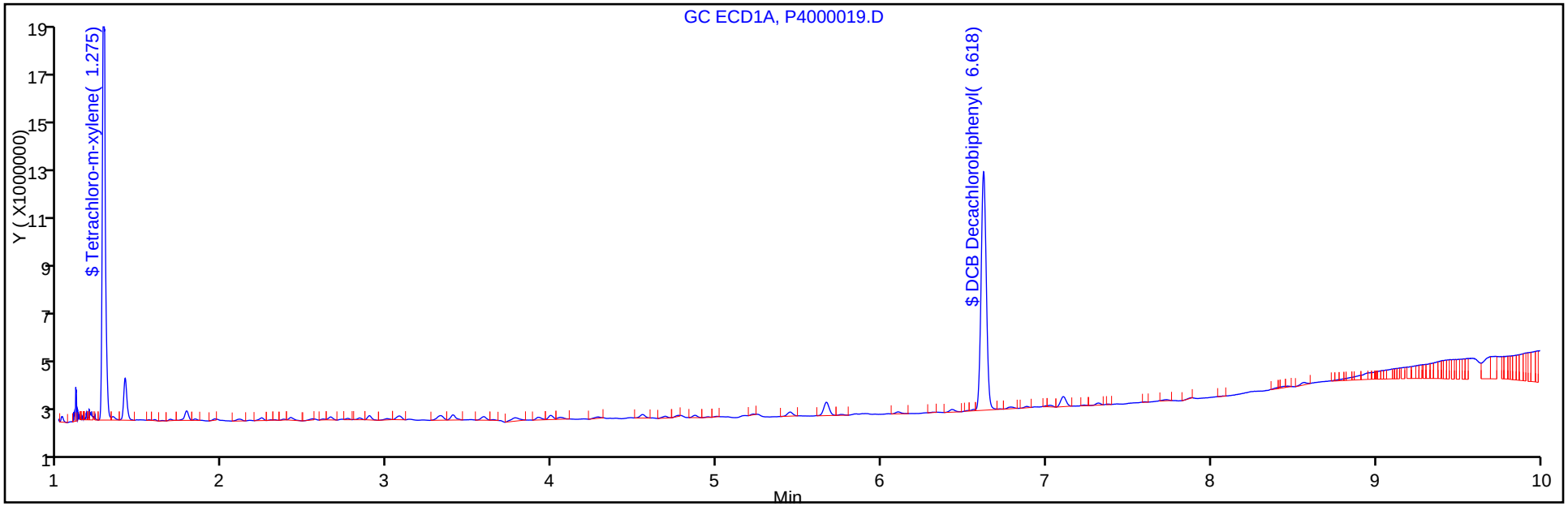
Report Date: 19-Apr-2013 09:25:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

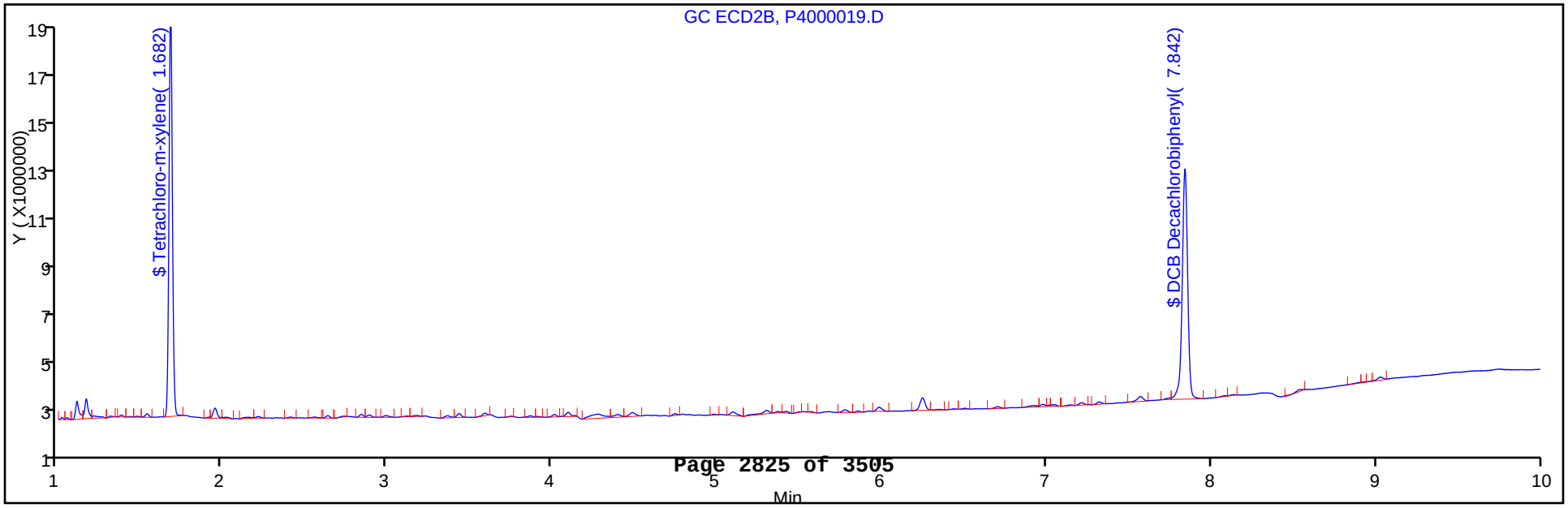
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000019.D

Injection Date:	17-Apr-2013 14:51:32	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-81736/24-A

Matrix: Solid Lab File ID: P4000019.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30(g) Date Analyzed: 04/17/2013 14:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		40-140
2051-24-3	DCB Decachlorobiphenyl	77		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000019.D
Lims ID: MB 240-81736/24-A Client ID:
Inject. Date: 17-Apr-2013 14:51:32 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0018945-019
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 19
Lims Batch ID: 82267 Lims Sample ID: 19
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:41 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 08:47:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	23610618	0.0149			
2	2	1.682	1.683	-0.001	24987452	0.0158			
						RPD = 6.03			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100		1.546						
1	2		1.827						
1	3		2.220						
1	4		2.339						
1	5		2.718						
2	6		2.146						
2	7		2.541						
2	8		2.993						
2	9		3.131						
2	10		3.235						
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.914						
1	2		4.202						
1	3		4.481						
1	4		5.181						
1	5		5.466						
2	6		4.944						
2	7		5.173						
2	8		5.541						
2	9		6.226						
2	10		6.606						
9 PCB-1262									
1	100		4.202						
1	2		4.604						
1	3		4.850						
1	4		5.179						
1	5		5.553						
2	6		5.171						
2	7		5.642						
2	8		5.947						
2	9		6.223						
2	10		6.602						
11 PCB-1268									
1	100		5.511						
1	2		5.548						
1	3		5.747						
1	4		6.124						
1	5		6.422						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.618	6.619	-0.001	22218773	0.0166			
2	2	7.842	7.842	0.000	22444148	0.0154			
						RPD = 7.69			

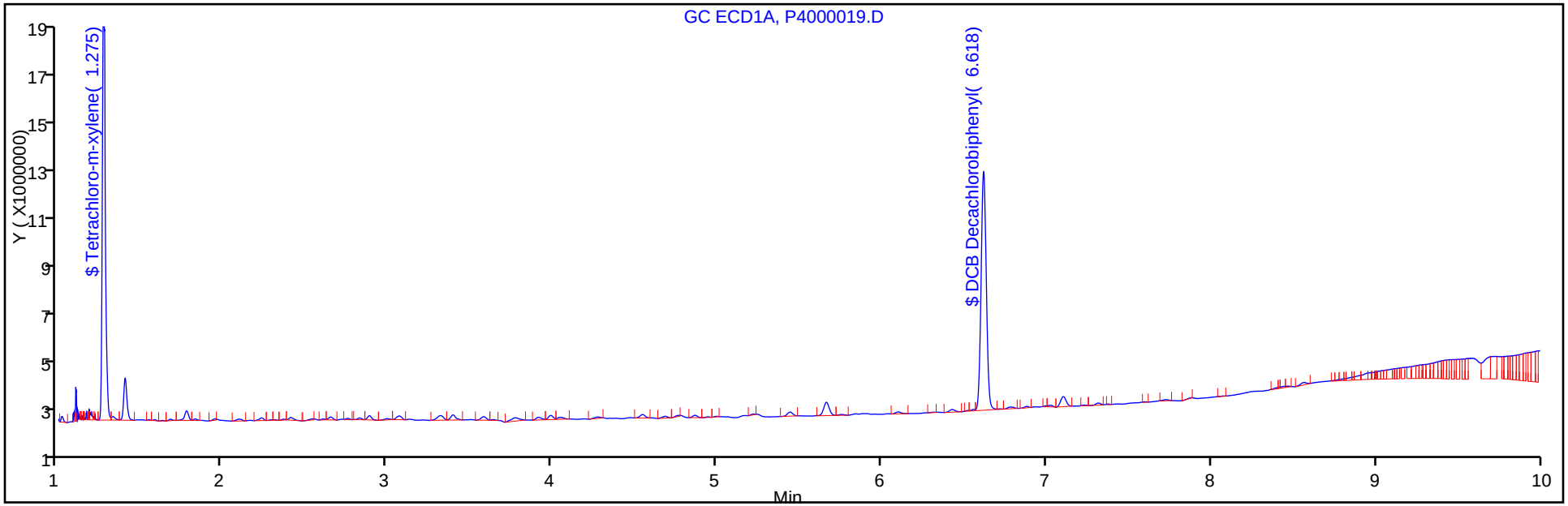
Report Date: 19-Apr-2013 09:25:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

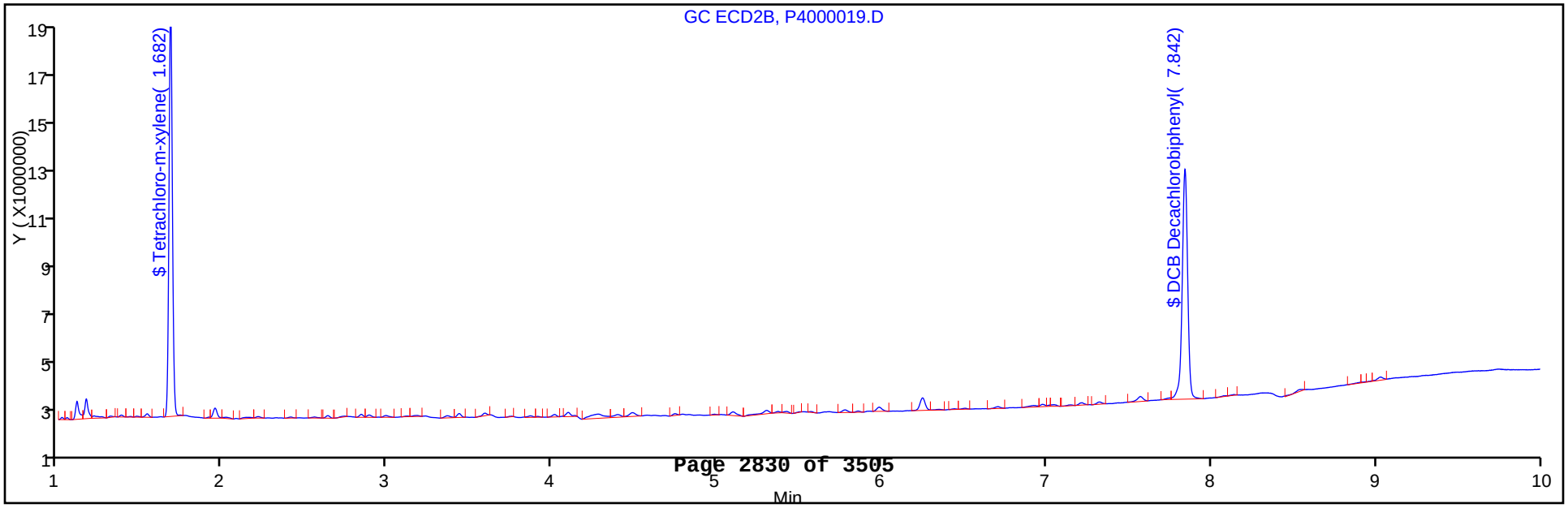
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000019.D

Injection Date:	17-Apr-2013 14:51:32	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	19
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-83675/20-A

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.00(g) Date Analyzed: 04/29/2013 09:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	60		40-140
2051-24-3	DCB Decachlorobiphenyl	71		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000007.D
Lims ID: MB 240-83675/20-A
Client ID:
Inject. Date: 29-Apr-2013 09:20:21
Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 240-0019366-007
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 7
Lims Batch ID: 83996
Lims Sample ID: 7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:24
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK031

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.298	0.000	19150432	0.0121			
2	2	1.705	1.705	0.000	26178575	0.0166			
						RPD = 31.37			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100		1.562						
1	2		1.846						
1	3		2.241						
1	4		2.361						
1	5		2.741						
2	6		2.165						
2	7		2.561						
2	8		3.016						
2	9		3.155						
2	10		3.259						
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.941						
1	2		4.231						
1	3		4.516						
1	4		5.215						
1	5		5.506						
2	6		4.969						
2	7		5.201						
2	8		5.570						
2	9		6.256						
2	10		6.636						
9 PCB-1262									
1	100		4.221						
1	2		4.623						
1	3		4.870						
1	4		5.198						
1	5		5.573						
2	6		5.190						
2	7		5.660						
2	8		5.968						
2	9		6.243						
2	10		6.622						
11 PCB-1268									
1	100		5.530						
1	2		5.568						
1	3		5.766						
1	4		6.144						
1	5		6.442						
2	6		6.620						
2	7		6.668						
2	8		6.931						
2	9		7.247						
2	10		7.590						
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	18913503	0.0142			
2	2	7.870	7.870	0.000	18601591	0.0128			
						RPD = 10.36			

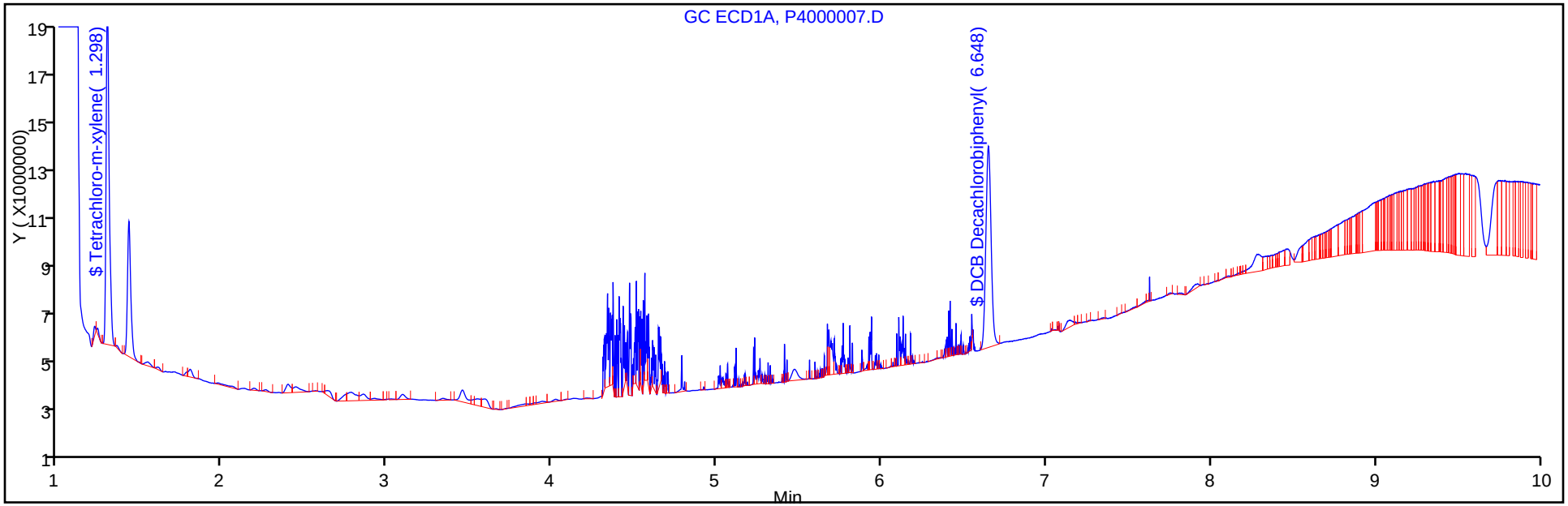
Report Date: 29-Apr-2013 15:57:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

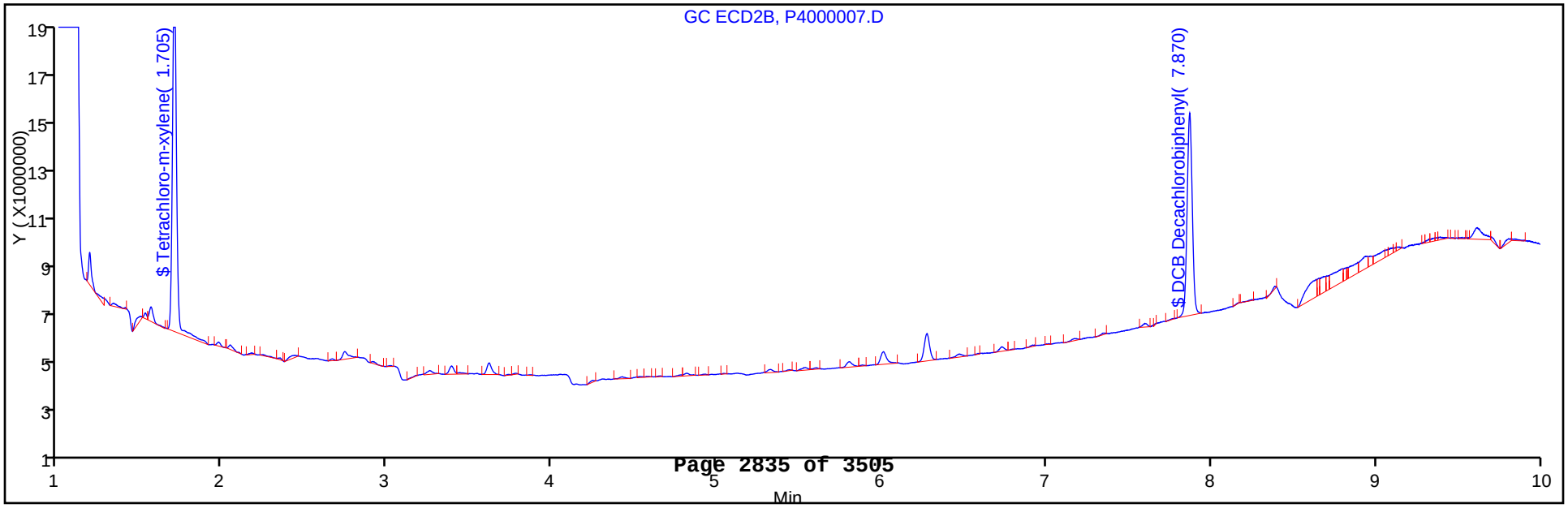
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000007.D

Injection Date:	29-Apr-2013 09:20:21	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-83675/20-A

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.00(g) Date Analyzed: 04/29/2013 09:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	25	U	50	25	16
12674-11-2	Aroclor-1016	25	U	65	25	21
11141-16-5	Aroclor-1232	25	U	45	25	14
53469-21-9	Aroclor-1242	25	U	40	25	13
12672-29-6	Aroclor-1248	25	U	55	25	17
11097-69-1	Aroclor-1254	25	U	55	25	17
11096-82-5	Aroclor-1260	25	U	55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	83		40-140
2051-24-3	DCB Decachlorobiphenyl	64		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000007.D		
Lims ID:	MB 240-83675/20-A	Client ID:	
Inject. Date:	29-Apr-2013 09:20:21	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	240-0019366-007		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	83996	Lims Sample ID:	7
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m		
Last Update:	29-Apr-2013 15:57:24	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK031		

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.298	1.298	0.000	19150432	0.0121			
2	2	1.705	1.705	0.000	26178575	0.0166			
						RPD = 31.37			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100		1.562						
1	2		1.846						
1	3		2.241						
1	4		2.361						
1	5		2.741						
2	6		2.165						
2	7		2.561						
2	8		3.016						
2	9		3.155						
2	10		3.259						
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100		3.941						
1	2		4.231						
1	3		4.516						
1	4		5.215						
1	5		5.506						
2	6		4.969						
2	7		5.201						
2	8		5.570						
2	9		6.256						
2	10		6.636						
9 PCB-1262									
1	100		4.221						
1	2		4.623						
1	3		4.870						
1	4		5.198						
1	5		5.573						
2	6		5.190						
2	7		5.660						
2	8		5.968						
2	9		6.243						
2	10		6.622						
11 PCB-1268									
1	100		5.530						
1	2		5.568						
1	3		5.766						
1	4		6.144						
1	5		6.442						
2	6		6.620						
2	7		6.668						
2	8		6.931						
2	9		7.247						
2	10		7.590						
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	18913503	0.0142			
2	2	7.870	7.870	0.000	18601591	0.0128			
						RPD = 10.36			

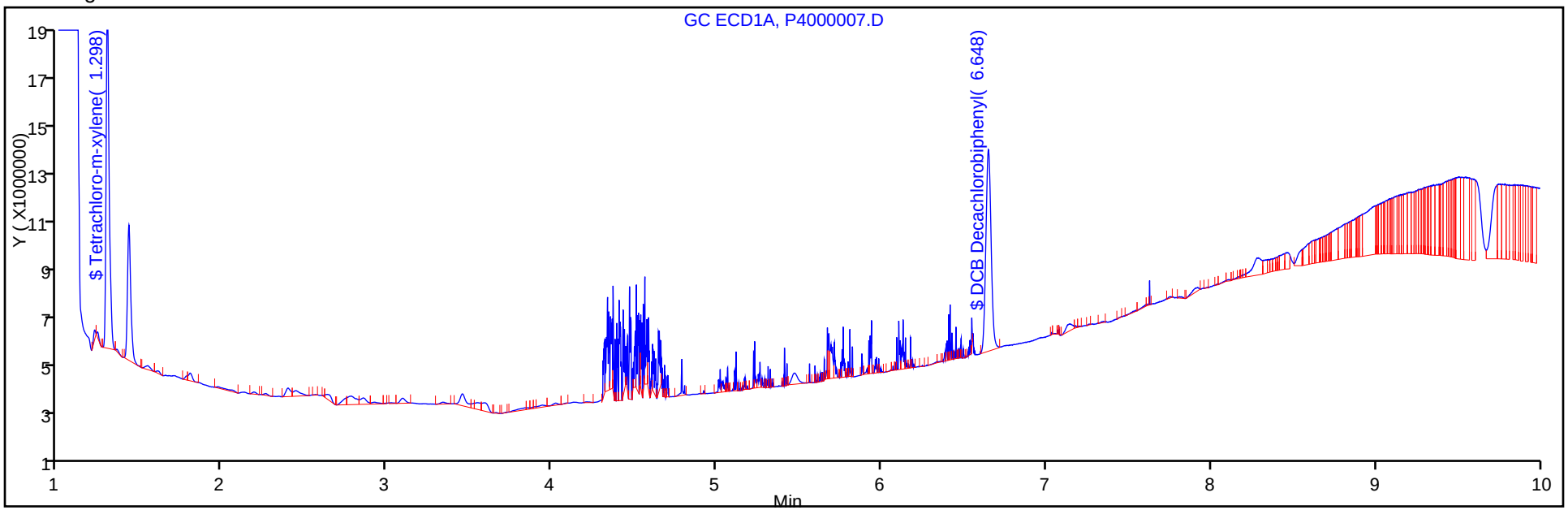
Report Date: 29-Apr-2013 15:57:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

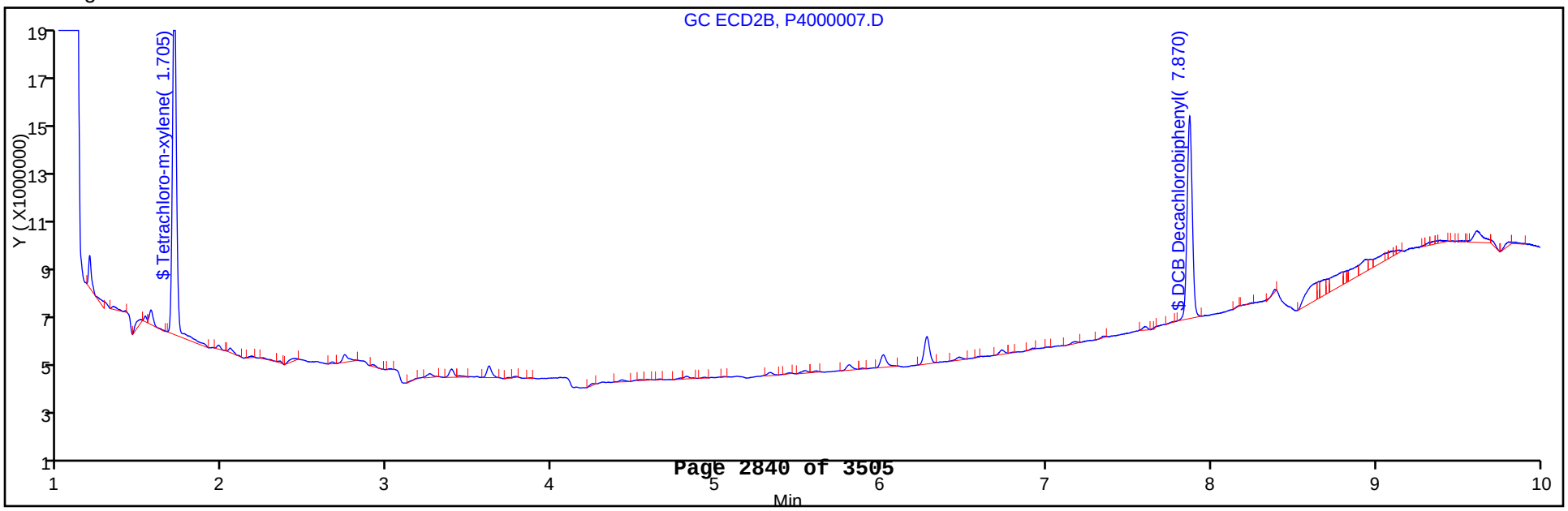
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000007.D

Injection Date:	29-Apr-2013 09:20:21	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-81730/21-A

Matrix: Solid Lab File ID: P4000024.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.00(g) Date Analyzed: 04/18/2013 15:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		40-140
2051-24-3	DCB Decachlorobiphenyl	88		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000024.D
Lims ID: LCS 240-81730/21-A
Client ID:
Inject. Date: 18-Apr-2013 15:05:44
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018971-024
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 24
Lims Batch ID: 82363
Lims Sample ID: 24
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:48:03
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.275	0.002	24433068	0.0154			
2	2	1.683	1.683	0.000	25087942	0.0159			
						RPD = 3.01			
6 PCB-1016									
1	100	1.546	1.545	0.001	19129369	0.7049		100.0	
1	2	1.827	1.827	0.000	38527018	0.7868	156.0- 206.0	201.4	
1	3	2.220	2.219	0.001	83888334	0.8978	312.4- 362.4	438.5	
1	4	2.341	2.339	0.002	36034411	0.8587	118.7- 188.7	188.4	
1	5	2.718	2.717	0.001	34339952	0.8099	125.6- 175.6	179.5	
			Average of Peak Amounts =			0.8116			
2	6	2.146	2.145	0.001	18626554	0.7262		100.0	
2	7	2.542	2.541	0.001	37309844	0.7349	169.6- 229.6	200.3	
2	8	2.994	2.993	0.001	85134446	0.8567	351.4- 411.4	457.1	
2	9	3.132	3.131	0.001	34532866	0.7845	141.3- 201.3	185.4	
2	10	3.235	3.235	0.000	27694807	0.8086	102.5- 162.5	148.7	
			Average of Peak Amounts =			0.7822			
						RPD = 3.70			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.917	3.916	0.001	51938501	0.8323		100.0	
1	2	4.202	4.203	-0.001	95699517	0.8690	152.2- 202.2	184.3	
1	3	4.484	4.483	0.001	98839402	0.9180	146.4- 196.4	190.3	
1	4	5.183	5.184	-0.001	118276961	0.9142	180.7- 230.7	227.7	
1	5	5.467	5.467	0.000	58006497	1.00	64.1- 114.1	111.7	
			Average of Peak Amounts =			0.9059			
2	6	4.945	4.944	0.001	54671781	0.7948		100.0	
2	7	5.174	5.175	-0.001	63668379	0.7975	87.6- 147.6	116.5	
2	8	5.543	5.543	0.000	101803660	0.8615	144.7- 204.7	186.2	
2	9	6.228	6.228	0.000	129310267	0.8868	187.7- 247.7	236.5	
2	10	6.609	6.609	0.000	88493654	0.9155	115.0- 175.0	161.9	
			Average of Peak Amounts =			0.8512			
						RPD = 6.22			
$ 12 DCB Decachlorobiphenyl									
1	100	6.621	6.619	0.002	23446265	0.0176			
2	2	7.844	7.843	0.001	23460086	0.0161			
						RPD = 8.64			

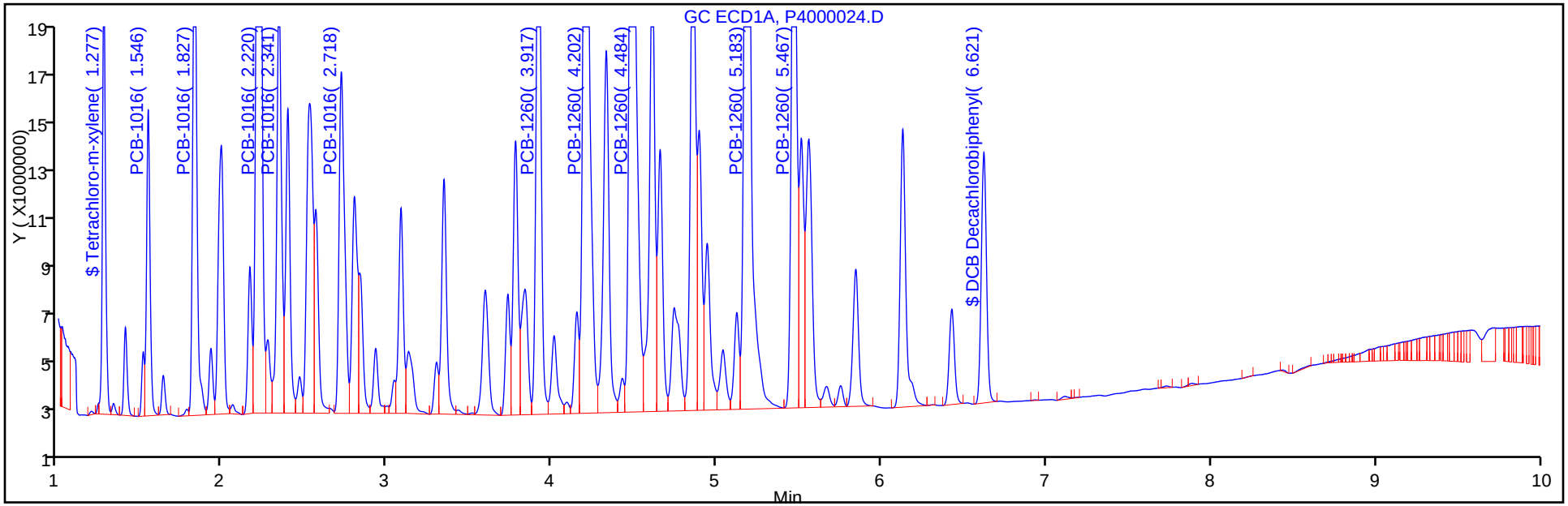
Report Date: 19-Apr-2013 14:48:05 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

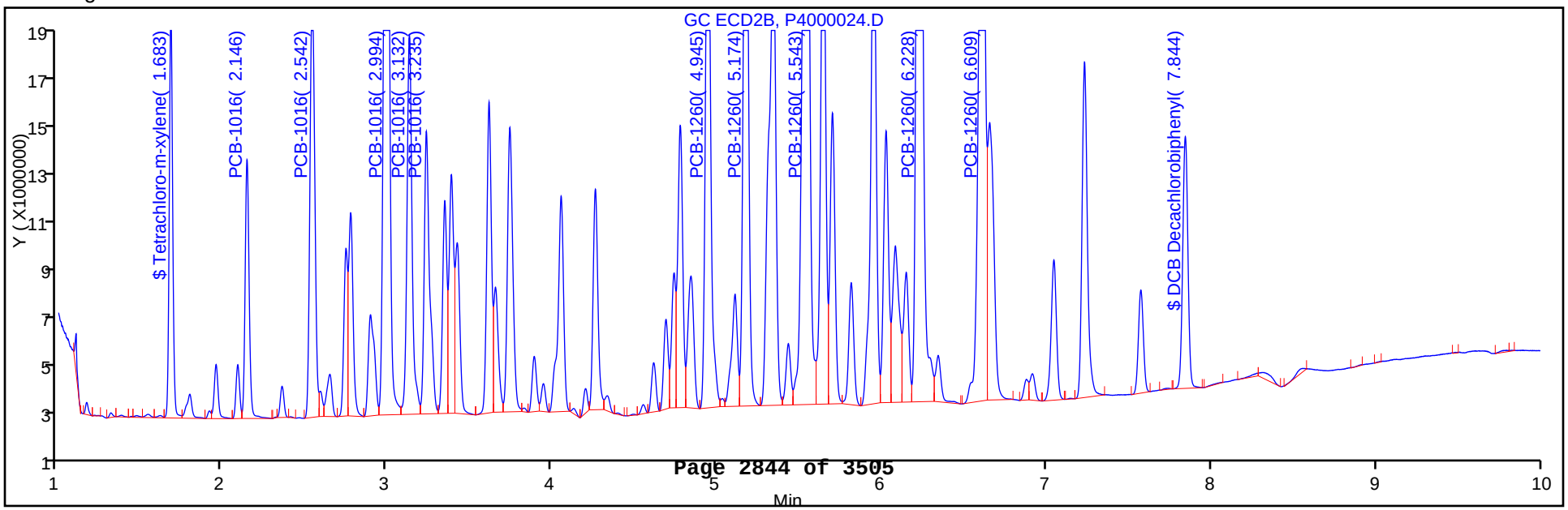
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000024.D

Injection Date:	18-Apr-2013 15:05:44	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81730/21-A

Matrix: Solid | Lab File ID: P4000024.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:18

Sample wt/vol: 30.00(g) | Date Analyzed: 04/18/2013 15:05

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	261		65	25	21
11096-82-5	Aroclor-1260	284		55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		40-140
2051-24-3	DCB Decachlorobiphenyl	81		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000024.D
Lims ID: LCS 240-81730/21-A
Client ID:
Inject. Date: 18-Apr-2013 15:05:44
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0018971-024
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 24
Lims Batch ID: 82363
Lims Sample ID: 24
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:48:03
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.275	0.002	24433068	0.0154			
2	2	1.683	1.683	0.000	25087942	0.0159			
						RPD = 3.01			
6 PCB-1016									
1	100	1.546	1.545	0.001	19129369	0.7049		100.0	
1	2	1.827	1.827	0.000	38527018	0.7868	156.0- 206.0	201.4	
1	3	2.220	2.219	0.001	83888334	0.8978	312.4- 362.4	438.5	
1	4	2.341	2.339	0.002	36034411	0.8587	118.7- 188.7	188.4	
1	5	2.718	2.717	0.001	34339952	0.8099	125.6- 175.6	179.5	
			Average of Peak Amounts =			0.8116			
2	6	2.146	2.145	0.001	18626554	0.7262		100.0	
2	7	2.542	2.541	0.001	37309844	0.7349	169.6- 229.6	200.3	
2	8	2.994	2.993	0.001	85134446	0.8567	351.4- 411.4	457.1	
2	9	3.132	3.131	0.001	34532866	0.7845	141.3- 201.3	185.4	
2	10	3.235	3.235	0.000	27694807	0.8086	102.5- 162.5	148.7	
			Average of Peak Amounts =			0.7822			
						RPD = 3.70			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.917	3.916	0.001	51938501	0.8323		100.0	
1	2	4.202	4.203	-0.001	95699517	0.8690	152.2- 202.2	184.3	
1	3	4.484	4.483	0.001	98839402	0.9180	146.4- 196.4	190.3	
1	4	5.183	5.184	-0.001	118276961	0.9142	180.7- 230.7	227.7	
1	5	5.467	5.467	0.000	58006497	1.00	64.1- 114.1	111.7	
			Average of Peak Amounts =			0.9059			
2	6	4.945	4.944	0.001	54671781	0.7948		100.0	
2	7	5.174	5.175	-0.001	63668379	0.7975	87.6- 147.6	116.5	
2	8	5.543	5.543	0.000	101803660	0.8615	144.7- 204.7	186.2	
2	9	6.228	6.228	0.000	129310267	0.8868	187.7- 247.7	236.5	
2	10	6.609	6.609	0.000	88493654	0.9155	115.0- 175.0	161.9	
			Average of Peak Amounts =			0.8512			
						RPD = 6.22			
$ 12 DCB Decachlorobiphenyl									
1	100	6.621	6.619	0.002	23446265	0.0176			
2	2	7.844	7.843	0.001	23460086	0.0161			
						RPD = 8.64			

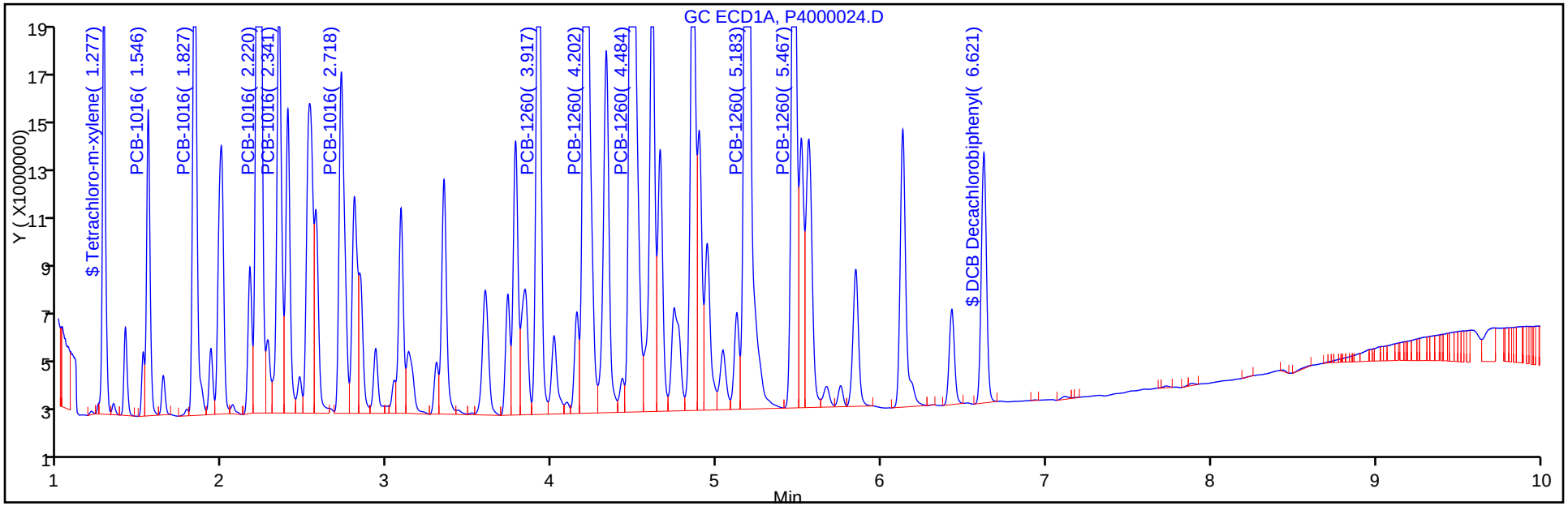
Report Date: 19-Apr-2013 14:48:05 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

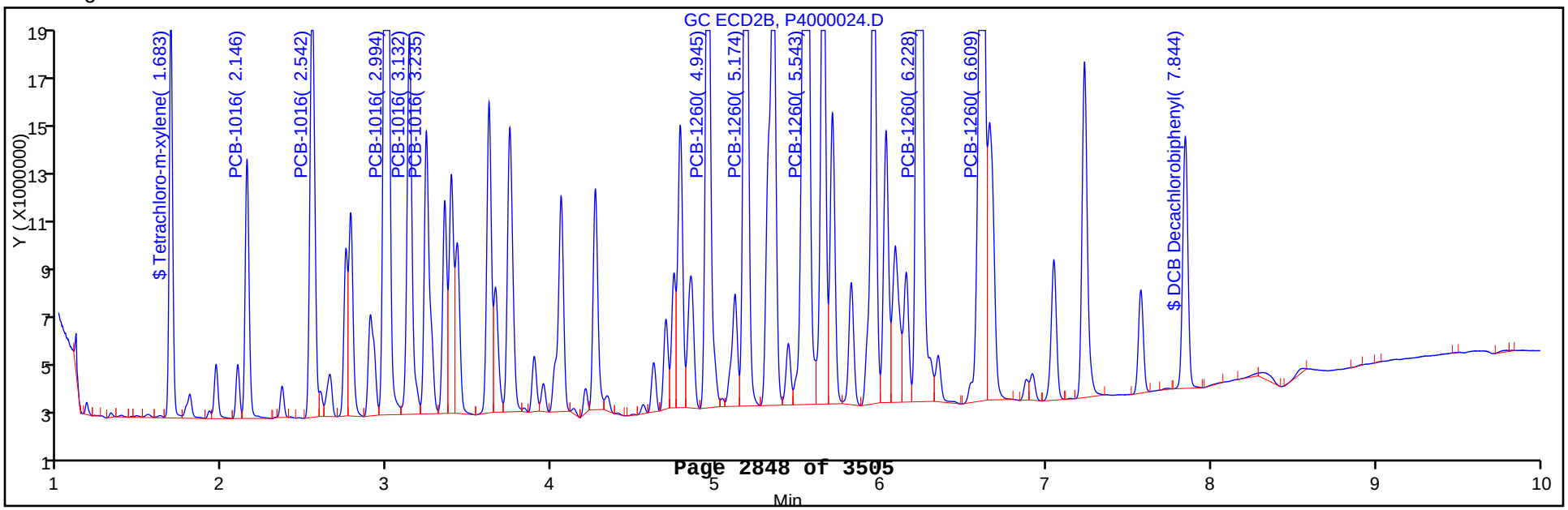
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000024.D

Injection Date:	18-Apr-2013 15:05:44	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	24
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-81736/23-A

Matrix: Solid Lab File ID: P4000005.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30(g) Date Analyzed: 04/19/2013 09:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82656 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		40-140
2051-24-3	DCB Decachlorobiphenyl	98		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000005.D
Lims ID: LCS 240-81736/23-A
Client ID:
Inject. Date: 19-Apr-2013 09:06:28
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019046-005
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 5
Lims Batch ID: 82656
Lims Sample ID: 5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:46
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.279	1.279	0.000	26746770	0.0169			
2	2	1.685	1.685	0.000	36274797	0.0230			
						RPD = 30.59			
6 PCB-1016									
1	100	1.548	1.548	0.000	19388396	0.7145		100.0	
1	2	1.830	1.830	0.000	40320423	0.8234	156.0- 206.0	208.0	
1	3	2.223	2.223	0.000	90879117	0.9726	312.4- 362.4	468.7	
1	4	2.342	2.342	0.000	39560909	0.9428	118.7- 188.7	204.0	
1	5	2.721	2.721	0.000	35874190	0.8461	125.6- 175.6	185.0	
			Average of Peak Amounts =			0.8599			
2	6	2.148	2.148	0.000	19060932	0.7432		100.0	
2	7	2.544	2.544	0.000	39938855	0.7866	169.6- 229.6	209.5	
2	8	2.996	2.996	0.000	92396848	0.9297	351.4- 411.4	484.7	
2	9	3.135	3.135	0.000	35832142	0.8140	141.3- 201.3	188.0	
2	10	3.238	3.238	0.000	29235105	0.8535	102.5- 162.5	153.4	
			Average of Peak Amounts =			0.8254			
						RPD = 4.09			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	56811453	0.9104		100.0	
1	2	4.206	4.206	0.000	105854015	0.9612	152.2- 202.2	186.3	
1	3	4.485	4.485	0.000	109683362	1.02	146.4- 196.4	193.1	
1	4	5.187	5.187	0.000	131972862	1.02	180.7- 230.7	232.3	
1	5	5.471	5.471	0.000	66886420	1.15	64.1- 114.1	117.7	
			Average of Peak Amounts =			1.01			
2	6	4.948	4.948	0.000	62771641	0.9126		100.0	
2	7	5.178	5.178	0.000	75103521	0.9408	87.6- 147.6	119.6	
2	8	5.546	5.546	0.000	116314372	0.9843	144.7- 204.7	185.3	
2	9	6.231	6.231	0.000	147734554	1.01	187.7- 247.7	235.4	
2	10	6.612	6.612	0.000	102337106	1.06	115.0- 175.0	163.0	
			Average of Peak Amounts =			0.9819			
						RPD = 2.99			
$ 12 DCB Decachlorobiphenyl									
1	100	6.625	6.625	0.000	26293868	0.0197			
2	2	7.848	7.848	0.000	29927036	0.0205			
						RPD = 4.24			

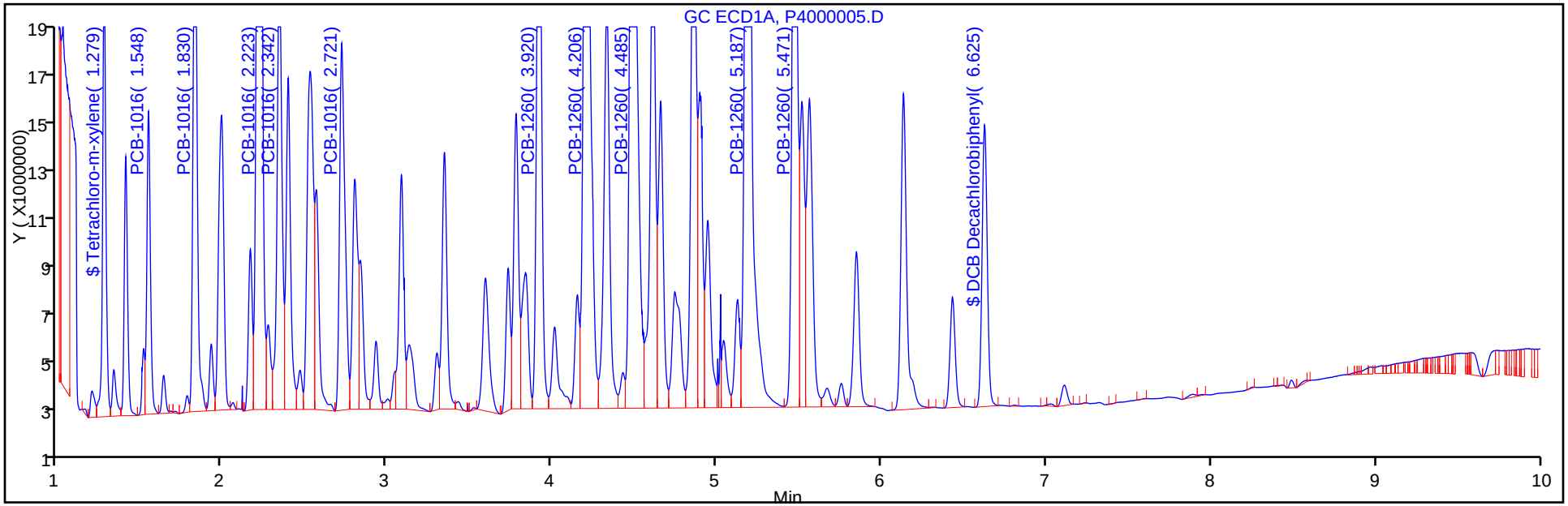
Report Date: 19-Apr-2013 13:11:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

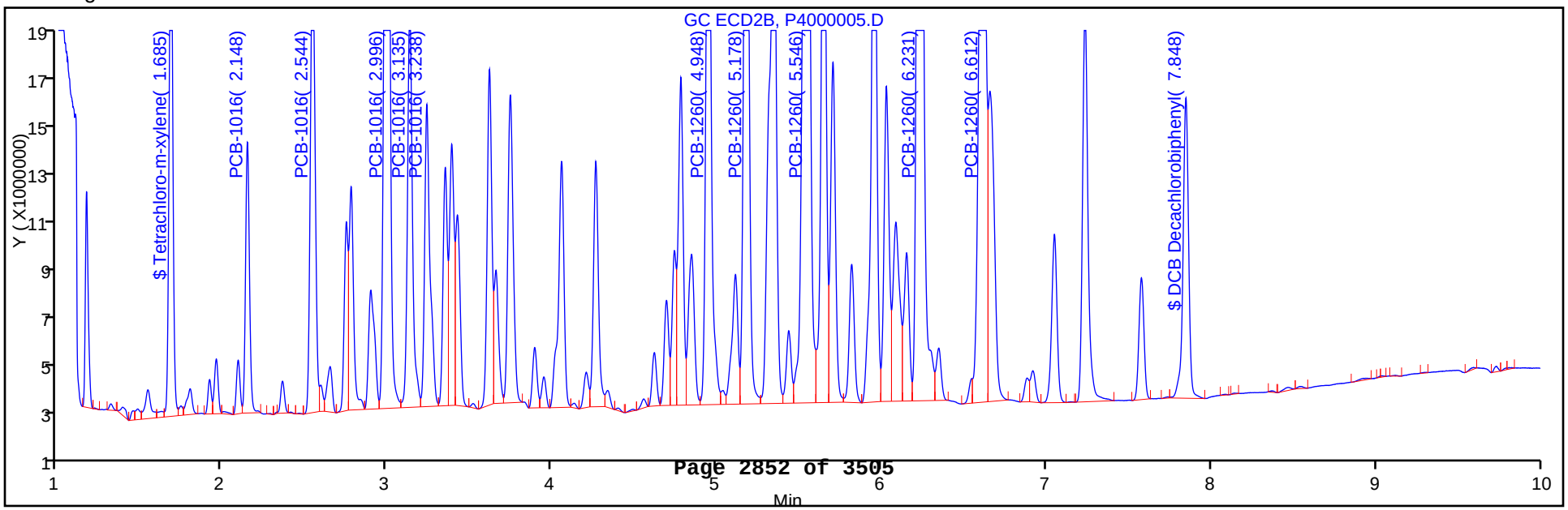
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000005.D

Injection Date:	19-Apr-2013 09:06:28	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-81736/23-A

Matrix: Solid | Lab File ID: P4000005.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/12/2013 11:46

Sample wt/vol: 30(g) | Date Analyzed: 04/19/2013 09:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82656 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	275		65	25	21
11096-82-5	Aroclor-1260	327		55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		40-140
2051-24-3	DCB Decachlorobiphenyl	103		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000005.D
Lims ID: LCS 240-81736/23-A
Client ID:
Inject. Date: 19-Apr-2013 09:06:28
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019046-005
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 5
Lims Batch ID: 82656
Lims Sample ID: 5
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:46
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK027

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.279	1.279	0.000	26746770	0.0169			
2	2	1.685	1.685	0.000	36274797	0.0230			
						RPD = 30.59			
6 PCB-1016									
1	100	1.548	1.548	0.000	19388396	0.7145		100.0	
1	2	1.830	1.830	0.000	40320423	0.8234	156.0- 206.0	208.0	
1	3	2.223	2.223	0.000	90879117	0.9726	312.4- 362.4	468.7	
1	4	2.342	2.342	0.000	39560909	0.9428	118.7- 188.7	204.0	
1	5	2.721	2.721	0.000	35874190	0.8461	125.6- 175.6	185.0	
			Average of Peak Amounts =			0.8599			
2	6	2.148	2.148	0.000	19060932	0.7432		100.0	
2	7	2.544	2.544	0.000	39938855	0.7866	169.6- 229.6	209.5	
2	8	2.996	2.996	0.000	92396848	0.9297	351.4- 411.4	484.7	
2	9	3.135	3.135	0.000	35832142	0.8140	141.3- 201.3	188.0	
2	10	3.238	3.238	0.000	29235105	0.8535	102.5- 162.5	153.4	
			Average of Peak Amounts =			0.8254			
						RPD = 4.09			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	56811453	0.9104		100.0	
1	2	4.206	4.206	0.000	105854015	0.9612	152.2- 202.2	186.3	
1	3	4.485	4.485	0.000	109683362	1.02	146.4- 196.4	193.1	
1	4	5.187	5.187	0.000	131972862	1.02	180.7- 230.7	232.3	
1	5	5.471	5.471	0.000	66886420	1.15	64.1- 114.1	117.7	
			Average of Peak Amounts =			1.01			
2	6	4.948	4.948	0.000	62771641	0.9126		100.0	
2	7	5.178	5.178	0.000	75103521	0.9408	87.6- 147.6	119.6	
2	8	5.546	5.546	0.000	116314372	0.9843	144.7- 204.7	185.3	
2	9	6.231	6.231	0.000	147734554	1.01	187.7- 247.7	235.4	
2	10	6.612	6.612	0.000	102337106	1.06	115.0- 175.0	163.0	
			Average of Peak Amounts =			0.9819			
						RPD = 2.99			
$ 12 DCB Decachlorobiphenyl									
1	100	6.625	6.625	0.000	26293868	0.0197			
2	2	7.848	7.848	0.000	29927036	0.0205			
						RPD = 4.24			

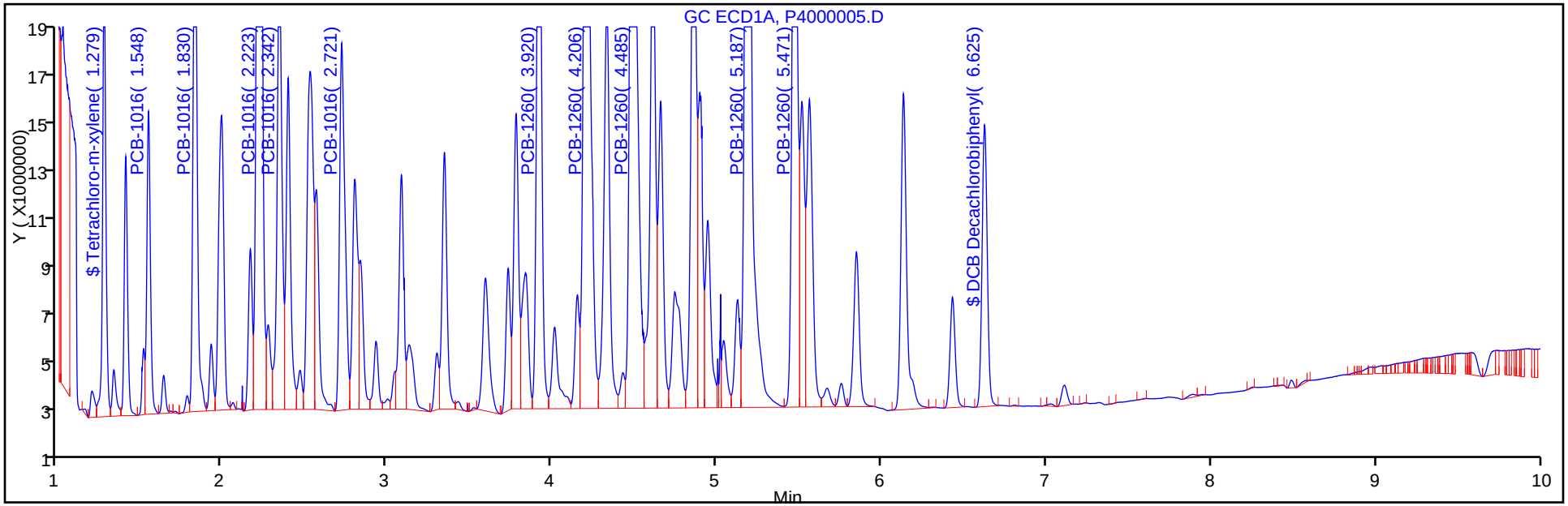
Report Date: 19-Apr-2013 13:11:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

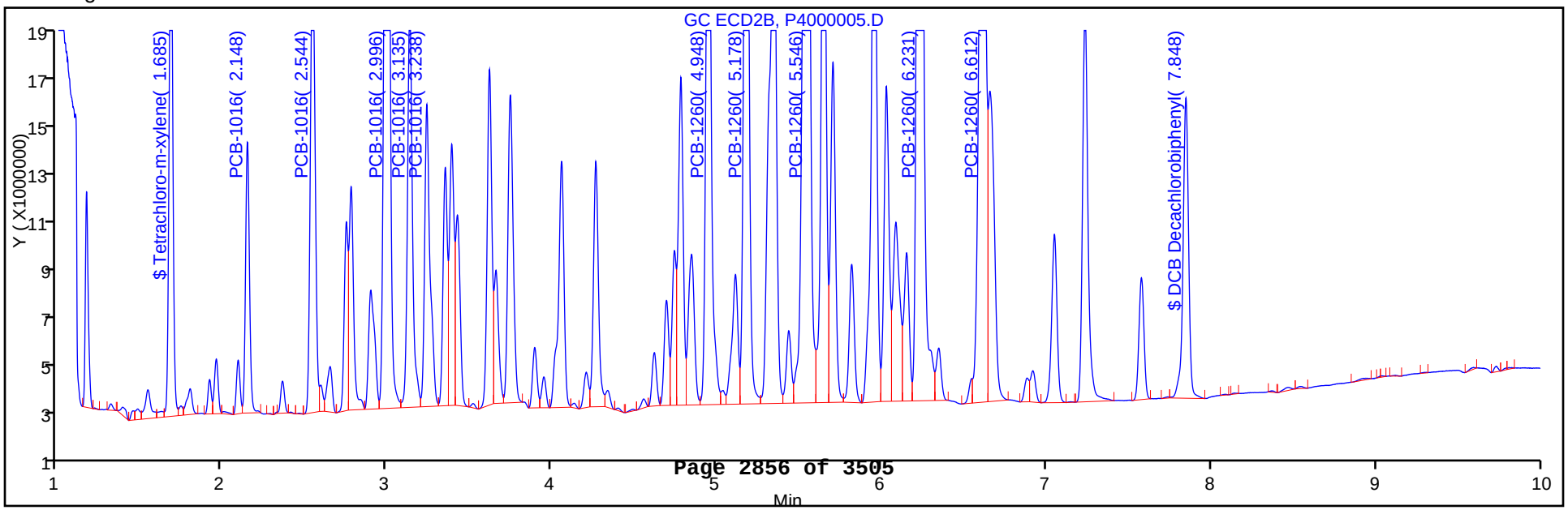
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000005.D

Injection Date:	19-Apr-2013 09:06:28	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	5
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-83675/21-A

Matrix: Solid Lab File ID: P4000008.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.00(g) Date Analyzed: 04/29/2013 09:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		40-140
2051-24-3	DCB Decachlorobiphenyl	71		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000008.D
Lims ID: LCS 240-83675/21-A
Client ID:
Inject. Date: 29-Apr-2013 09:35:38
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019366-008
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 8
Lims Batch ID: 83996
Lims Sample ID: 8
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:24
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl
Date: 29-Apr-2013 15:52:38

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.301	1.298	0.003	24429450	0.0154			
2	2	1.707	1.705	0.002	29427059	0.0187			
						RPD = 18.92			
6 PCB-1016									M
1	100	1.572	1.562	0.010	15496232	0.5710		100.0	
1	2	1.854	1.846	0.008	31919174	0.6518	156.0- 206.0	206.0	
1	3	2.248	2.241	0.007	72822835	0.7794	312.4- 362.4	469.9	
1	4	2.368	2.361	0.007	29892642	0.7124	118.7- 188.7	192.9	
1	5	2.746	2.741	0.005	25287435	0.5964	125.6- 175.6	163.2	M
			Average of Peak Amounts =			0.6622			
2	6	2.173	2.165	0.008	12870055	0.5018		100.0	
2	7	2.568	2.561	0.007	28916033	0.5695	169.6- 229.6	224.7	
2	8	3.020	3.016	0.004	63640991	0.6404	351.4- 411.4	494.5	
2	9	3.160	3.155	0.005	23425664	0.5322	141.3- 201.3	182.0	
2	10	3.264	3.259	0.005	21662658	0.6325	102.5- 162.5	168.3	
			Average of Peak Amounts =			0.5753			
						RPD = 14.05			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.944	3.941	0.003	42503757	0.6811		100.0	
1	2	4.231	4.231	0.000	77950077	0.7078	152.2- 202.2	183.4	
1	3	4.513	4.516	-0.003	80887591	0.7513	146.4- 196.4	190.3	
1	4	5.212	5.215	-0.003	98782811	0.7635	180.7- 230.7	232.4	
1	5	5.499	5.506	-0.007	48437405	0.8316	64.1- 114.1	114.0	
			Average of Peak Amounts =			0.7471			
2	6	4.971	4.969	0.002	43871434	0.6378		100.0	
2	7	5.201	5.201	0.000	51513251	0.6453	87.6- 147.6	117.4	
2	8	5.571	5.570	0.001	79107084	0.6694	144.7- 204.7	180.3	
2	9	6.255	6.256	-0.001	100362248	0.6883	187.7- 247.7	228.8	
2	10	6.636	6.636	0.000	65859347	0.6813	115.0- 175.0	150.1	M
			Average of Peak Amounts =			0.6644			
						RPD = 11.71			
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	18984928	0.0142			
2	2	7.870	7.870	0.000	18675610	0.0128			
						RPD = 10.34			

QC Flag Legend

Review Flags
M - Manually Integrated

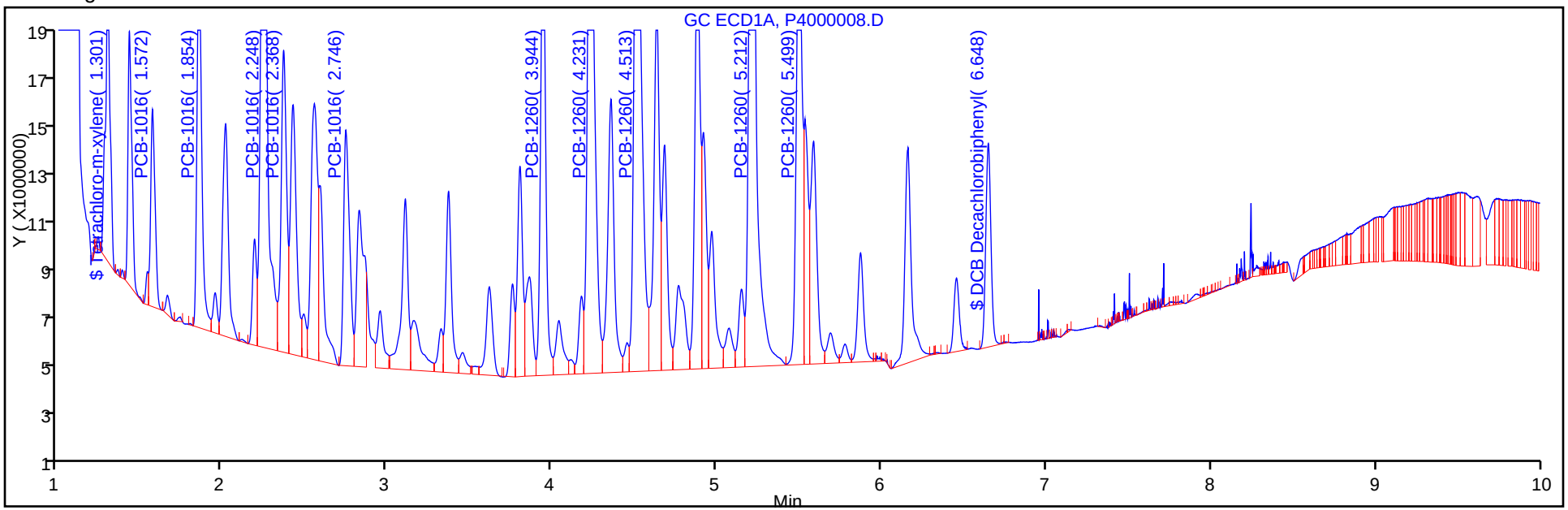
Report Date: 29-Apr-2013 15:57:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

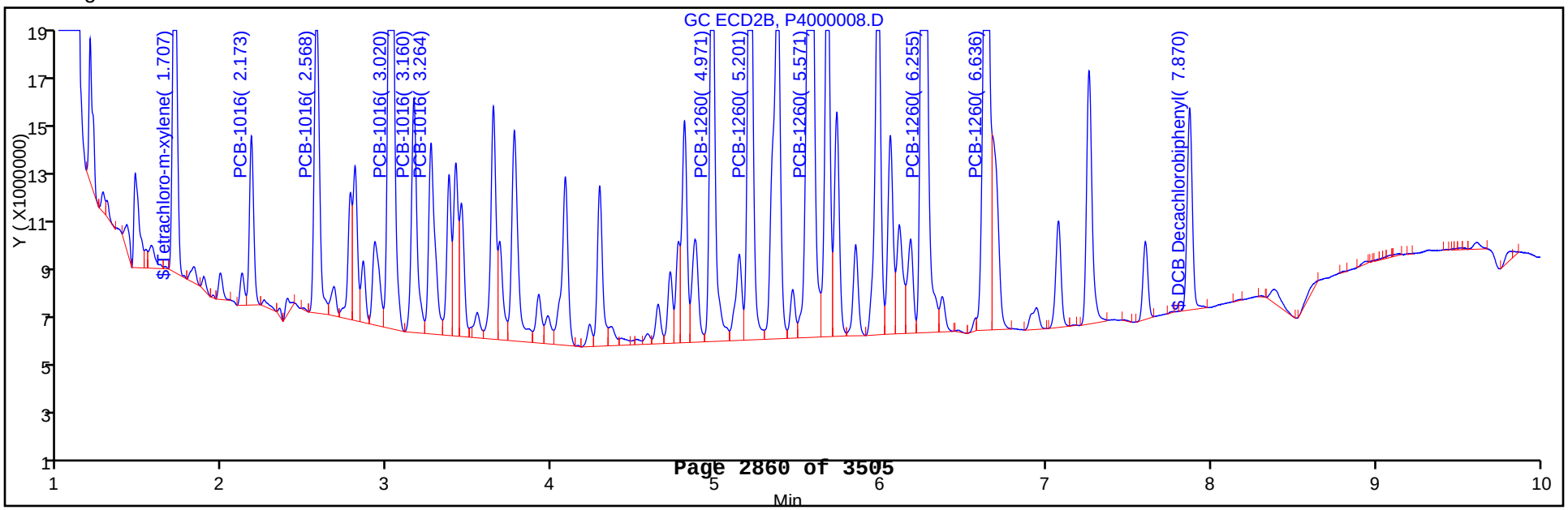
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000008.D

Injection Date:	29-Apr-2013 09:35:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



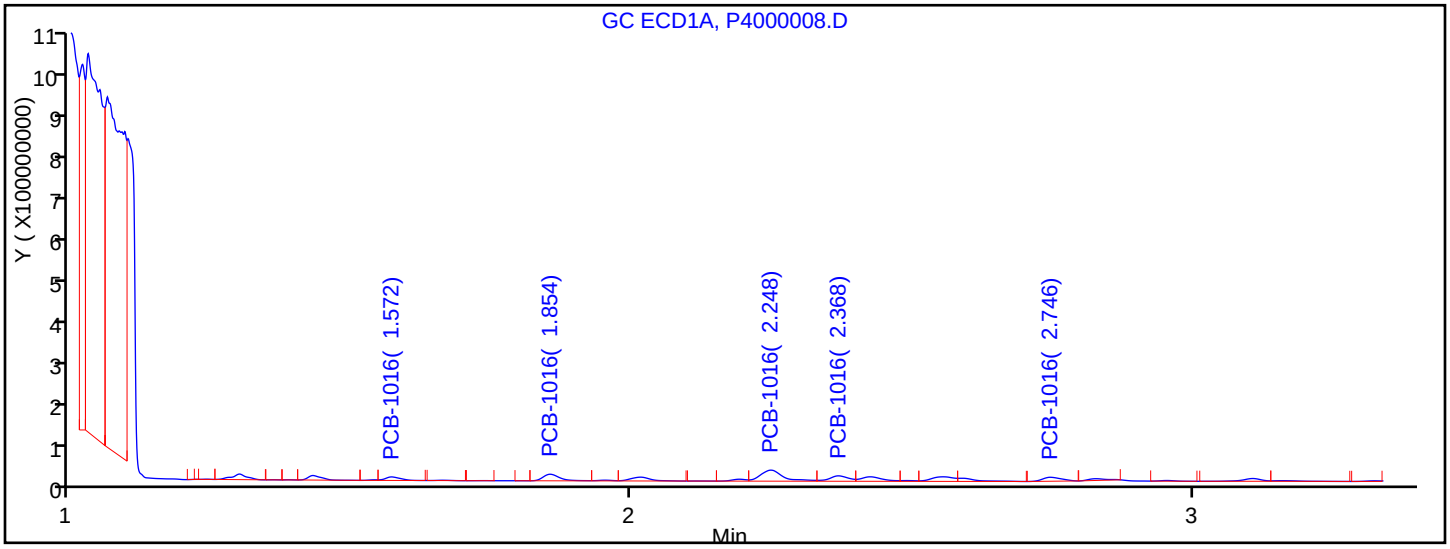
Report Date: 29-Apr-2013 15:57:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000008.D

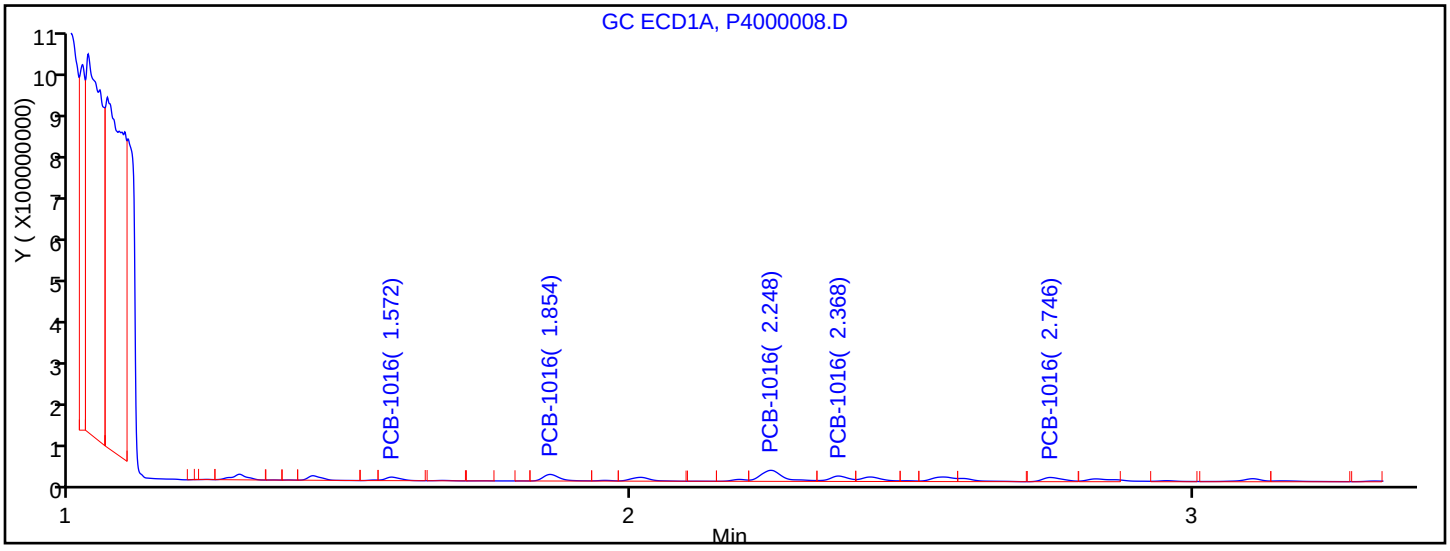
Injection Date:	29-Apr-2013 09:35:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 1.572	Response = 15496232	
RT = 1.854	Response = 31919174	
RT = 2.248	Response = 72822835	
RT = 2.368	Response = 29892642	
RT = 2.746	Response = 21659244	M



Manual Integration Results

RT = 1.572	Response = 15496232	
RT = 1.854	Response = 31919174	
RT = 2.248	Response = 72822835	
RT = 2.368	Response = 29892642	
RT = 2.746	Response = 25287435	M

Reviewer: hassl, 29-Apr-2013 15:52:54

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-83675/21-A

Matrix: Solid Lab File ID: P4000008.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3540C Date Extracted: 04/26/2013 08:24

Sample wt/vol: 30.00(g) Date Analyzed: 04/29/2013 09:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	192		65	25	21
11096-82-5	Aroclor-1260	221		55	25	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		40-140
2051-24-3	DCB Decachlorobiphenyl	64		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000008.D
Lims ID: LCS 240-83675/21-A
Client ID:
Inject. Date: 29-Apr-2013 09:35:38
Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 240-0019366-008
Misc. Info.:
Operator:
Instrument ID: A2HP4
Injection Vol: 1.0 uL
ALS Bottle#: 8
Lims Batch ID: 83996
Lims Sample ID: 8
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:24
Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl
Date: 29-Apr-2013 15:52:38

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
$ 2 Tetrachloro-m-xylene									
1	44	1.301	1.298	0.003	24429450	0.0154			
2	2	1.707	1.705	0.002	29427059	0.0187			
						RPD = 18.92			
6 PCB-1016									M
1	100	1.572	1.562	0.010	15496232	0.5710		100.0	
1	2	1.854	1.846	0.008	31919174	0.6518	156.0- 206.0	206.0	
1	3	2.248	2.241	0.007	72822835	0.7794	312.4- 362.4	469.9	
1	4	2.368	2.361	0.007	29892642	0.7124	118.7- 188.7	192.9	
1	5	2.746	2.741	0.005	25287435	0.5964	125.6- 175.6	163.2	M
			Average of Peak Amounts =			0.6622			
2	6	2.173	2.165	0.008	12870055	0.5018		100.0	
2	7	2.568	2.561	0.007	28916033	0.5695	169.6- 229.6	224.7	
2	8	3.020	3.016	0.004	63640991	0.6404	351.4- 411.4	494.5	
2	9	3.160	3.155	0.005	23425664	0.5322	141.3- 201.3	182.0	
2	10	3.264	3.259	0.005	21662658	0.6325	102.5- 162.5	168.3	
			Average of Peak Amounts =			0.5753			
						RPD = 14.05			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.944	3.941	0.003	42503757	0.6811		100.0	
1	2	4.231	4.231	0.000	77950077	0.7078	152.2- 202.2	183.4	
1	3	4.513	4.516	-0.003	80887591	0.7513	146.4- 196.4	190.3	
1	4	5.212	5.215	-0.003	98782811	0.7635	180.7- 230.7	232.4	
1	5	5.499	5.506	-0.007	48437405	0.8316	64.1- 114.1	114.0	
			Average of Peak Amounts =			0.7471			
2	6	4.971	4.969	0.002	43871434	0.6378		100.0	
2	7	5.201	5.201	0.000	51513251	0.6453	87.6- 147.6	117.4	
2	8	5.571	5.570	0.001	79107084	0.6694	144.7- 204.7	180.3	
2	9	6.255	6.256	-0.001	100362248	0.6883	187.7- 247.7	228.8	
2	10	6.636	6.636	0.000	65859347	0.6813	115.0- 175.0	150.1	M
			Average of Peak Amounts =			0.6644			
						RPD = 11.71			
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	18984928	0.0142			
2	2	7.870	7.870	0.000	18675610	0.0128			
						RPD = 10.34			

QC Flag Legend

Review Flags
M - Manually Integrated

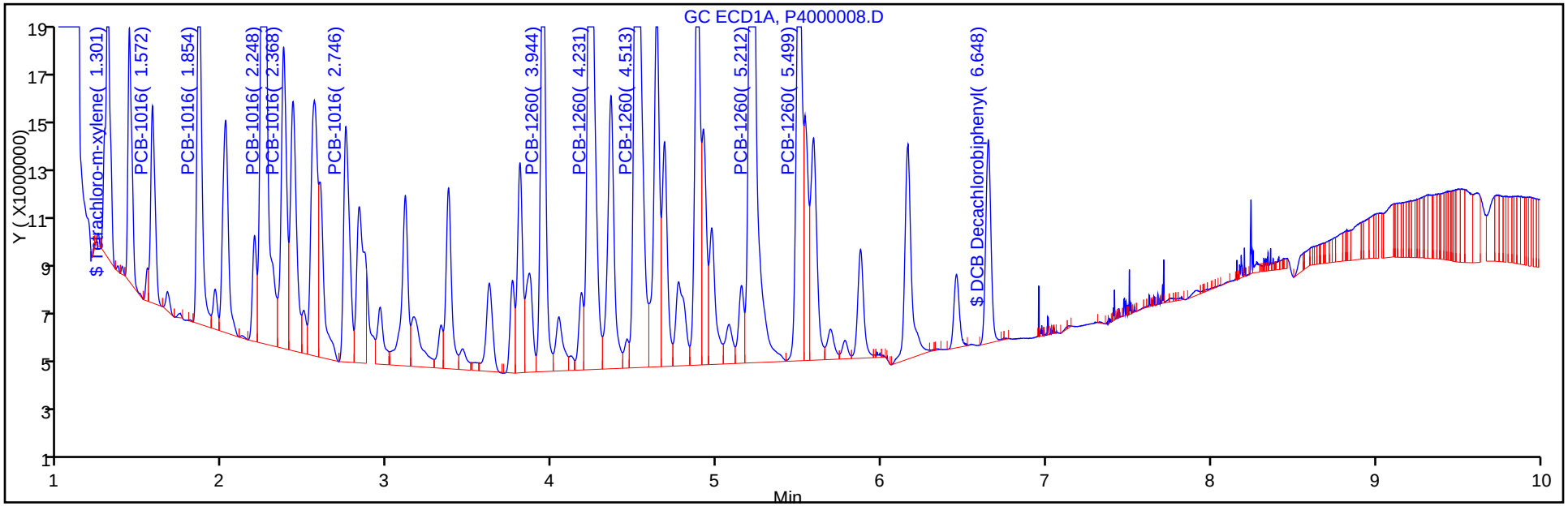
Report Date: 29-Apr-2013 15:57:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

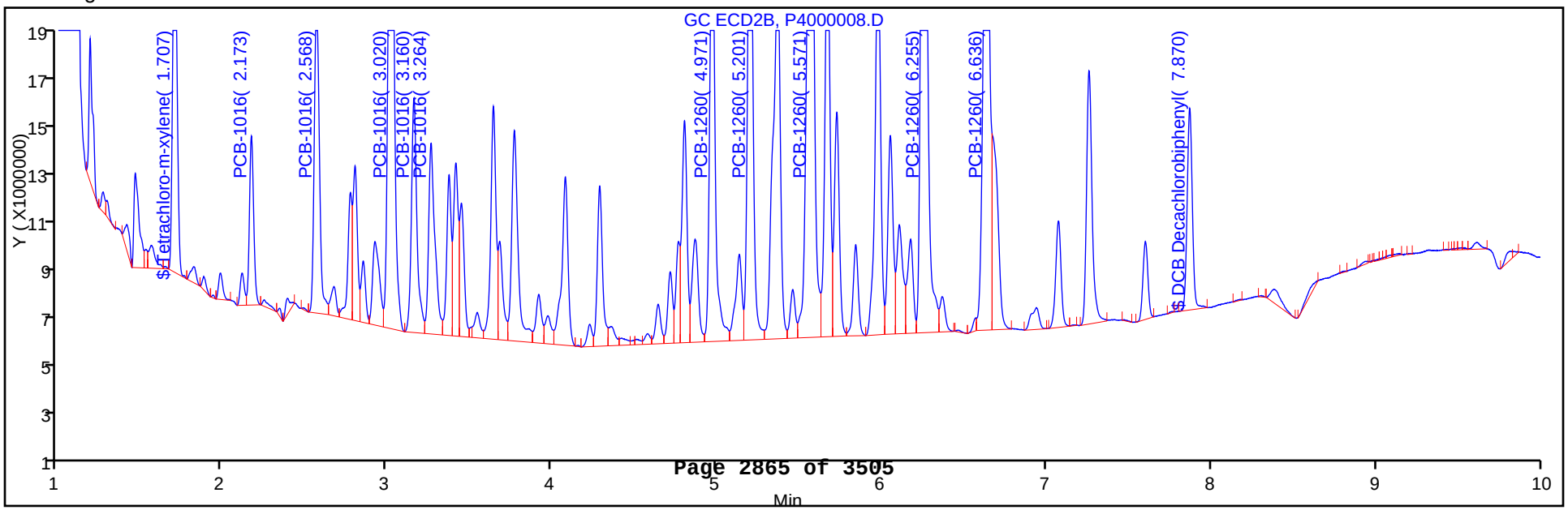
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000008.D

Injection Date:	29-Apr-2013 09:35:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



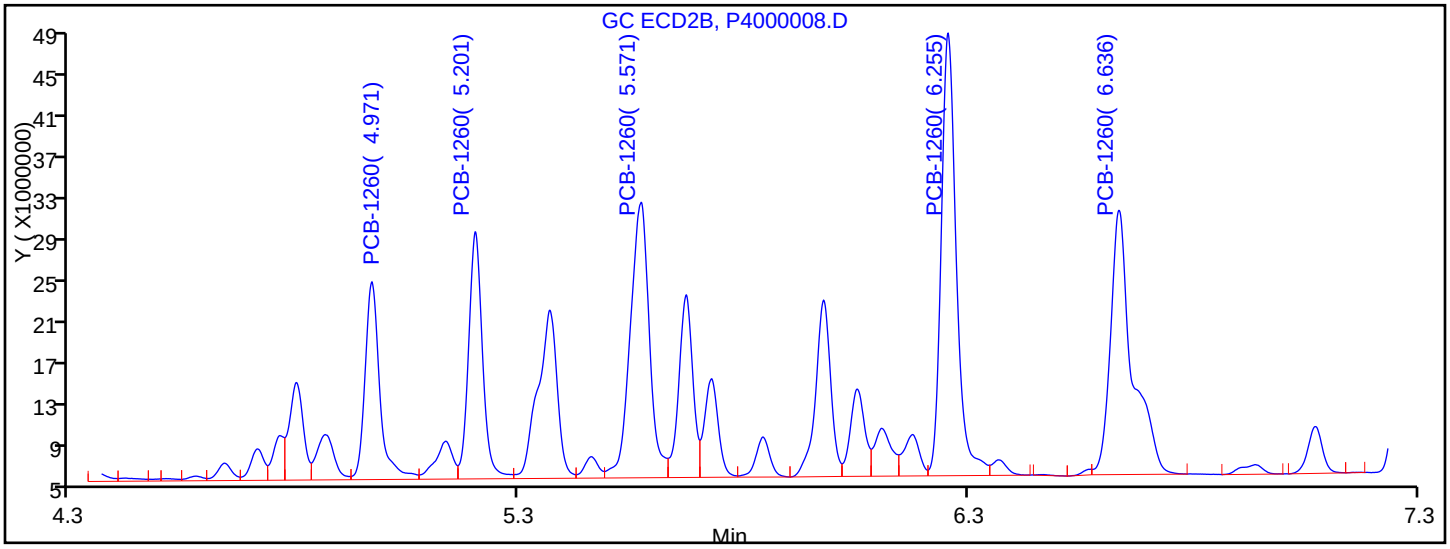
Report Date: 29-Apr-2013 15:57:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000008.D

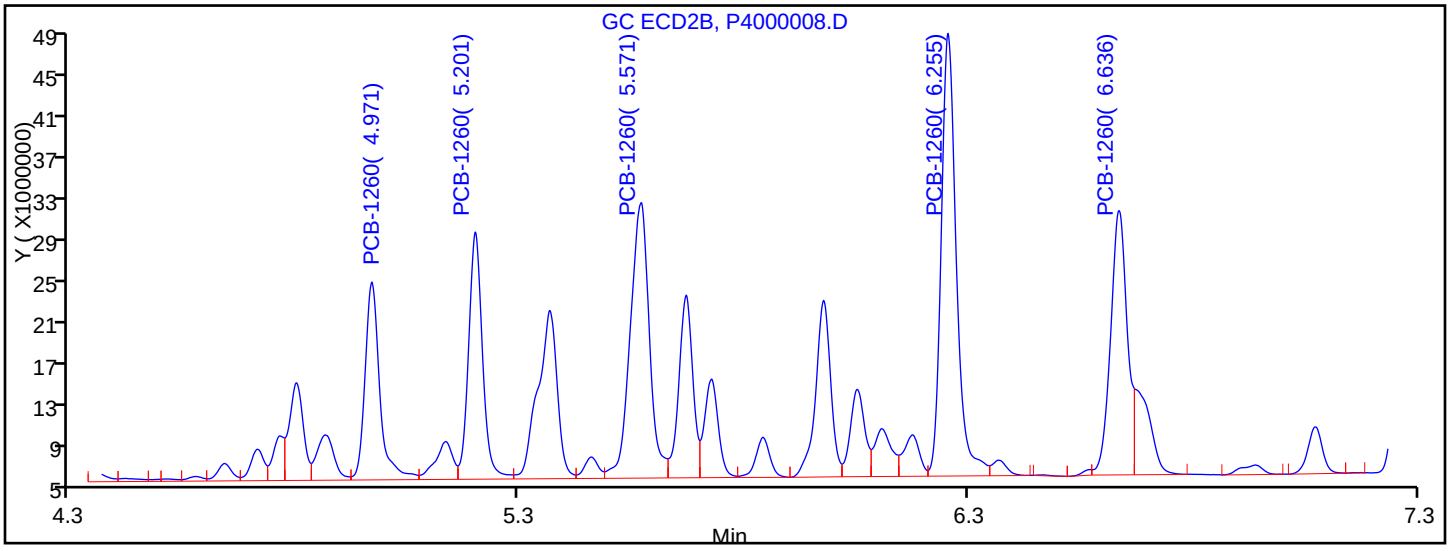
Injection Date:	29-Apr-2013 09:35:38	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	8
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.971	Response = 43871434	
RT = 5.201	Response = 51513251	
RT = 5.571	Response = 79107084	
RT = 6.255	Response = 100362248	
RT = 6.636	Response = 85994712	M



Manual Integration Results

RT = 4.971	Response = 43871434	
RT = 5.201	Response = 51513251	
RT = 5.571	Response = 79107084	
RT = 6.255	Response = 100362248	
RT = 6.636	Response = 65859347	M

Reviewer: hassl, 29-Apr-2013 15:52:38

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82267/4

Matrix: Solid Lab File ID: P4000004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2013 10:11

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0557*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0552*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		50-150
2051-24-3	DCB Decachlorobiphenyl	133	*Q*	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000004.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	17-Apr-2013 10:11:59	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018945-004		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	4
Lims Batch ID:	82267	Lims Sample ID:	4
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:32	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		
First Level Reviewer: hassl		Date:	19-Apr-2013 08:40:41

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	4567467	0.002884			
2	2	1.684	1.683	0.001	4214334	0.002671			
						RPD = 7.68			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100	1.547	1.545	0.002	1481508	0.0546		100.0	
1	2	1.829	1.828	0.001	2737915	0.0559	156.0- 206.0	184.8	
1	3	2.220	2.219	0.001	5233409	0.0560	312.4- 362.4	353.2	
1	4	2.340	2.338	0.002	2364693	0.0564	118.7- 188.7	159.6	
1	5	2.719	2.717	0.002	2358034	0.0556	125.6- 175.6	159.2	
			Average of Peak Amounts =			0.0557			
2	6	2.147	2.145	0.002	1309957	0.0511		100.0	
2	7	2.543	2.541	0.002	2424271	0.0477	169.6- 229.6	185.1	
2	8	2.993	2.992	0.001	5216443	0.0525	351.4- 411.4	398.2	
2	9	3.132	3.130	0.002	2404009	0.0546	141.3- 201.3	183.5	
2	10	3.236	3.233	0.003	1752773	0.0512	102.5- 162.5	133.8	
			Average of Peak Amounts =			0.0514			
						RPD = 7.98			
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.915	0.001	3401344	0.0545		100.0	
1	2	4.202	4.201	0.001	5875308	0.0533	152.2- 202.2	172.7	
1	3	4.483	4.482	0.001	5785089	0.0537	146.4- 196.4	170.1	
1	4	5.183	5.181	0.002	6822118	0.0527	180.7- 230.7	200.6	
1	5	5.466	5.465	0.001	3594678	0.0617	64.1- 114.1	105.7	
			Average of Peak Amounts =			0.0552			
2	6	4.944	4.943	0.001	3629268	0.0528		100.0	
2	7	5.174	5.173	0.001	4403682	0.0552	87.6- 147.6	121.3	
2	8	5.541	5.540	0.001	6362209	0.0538	144.7- 204.7	175.3	
2	9	6.226	6.226	0.000	7932252	0.0544	187.7- 247.7	218.6	
2	10	6.607	6.608	-0.001	5549268	0.0574	115.0- 175.0	152.9	
			Average of Peak Amounts =			0.0547			
						RPD = 0.90			
9 PCB-1262									
1	100		4.202						
1	2		4.604						
1	3		4.850						
1	4		5.179						
1	5		5.553						
2	6		5.171						
2	7		5.642						
2	8		5.947						
2	9		6.223						
2	10		6.602						
11 PCB-1268									
1	100		5.511						
1	2		5.548						
1	3		5.747						
1	4		6.124						
1	5		6.422						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.621	6.618	0.003	4424467	0.003314			
2	2	7.843	7.842	0.001	4040570	0.002774			
						RPD = 17.73			

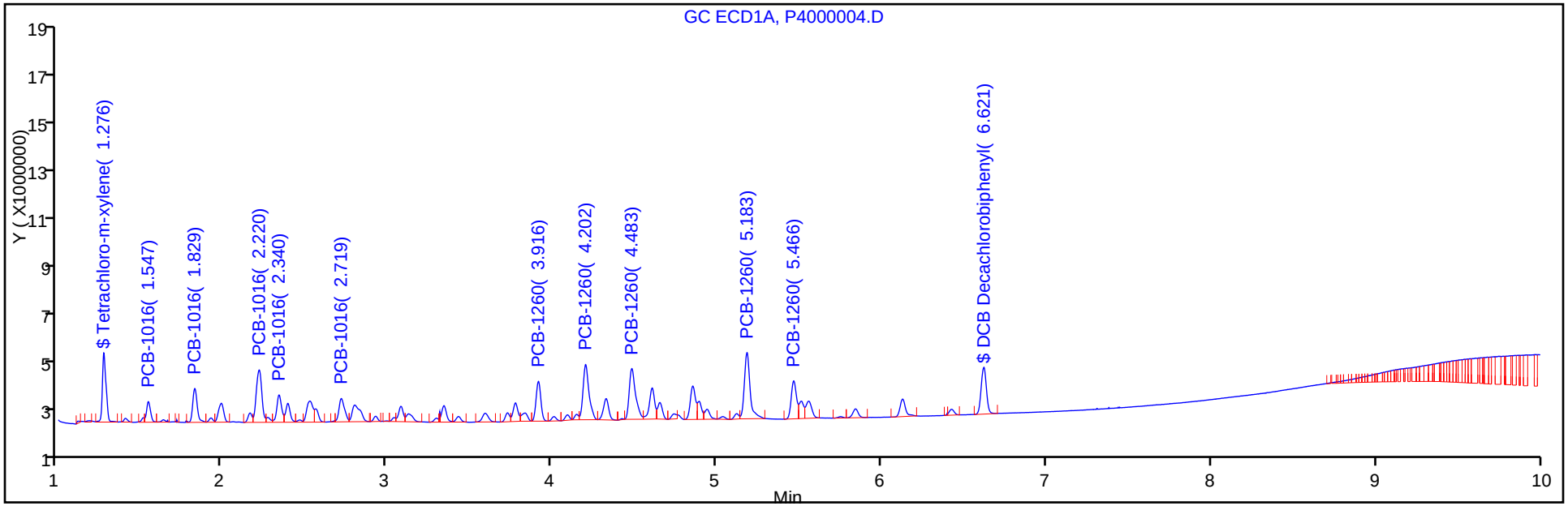
Report Date: 19-Apr-2013 09:25:34 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

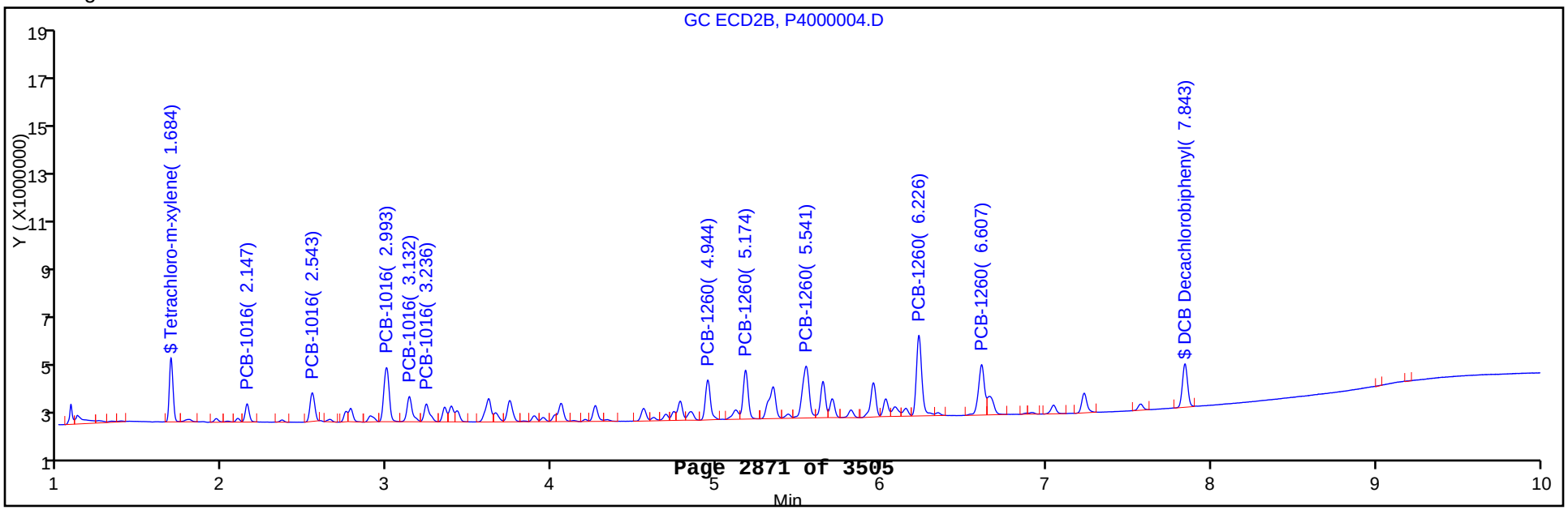
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000004.D

Injection Date:	17-Apr-2013 10:11:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82267/4

Matrix: Solid Lab File ID: P4000004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2013 10:11

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0514		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0547		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		50-150
2051-24-3	DCB Decachlorobiphenyl	111		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 17-Apr-2013 10:11:59 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018945-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 82267 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:32 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 08:40:41

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	4567467	0.002884			
2	2	1.684	1.683	0.001	4214334	0.002671			
						RPD = 7.68			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100	1.547	1.545	0.002	1481508	0.0546		100.0	
1	2	1.829	1.828	0.001	2737915	0.0559	156.0- 206.0	184.8	
1	3	2.220	2.219	0.001	5233409	0.0560	312.4- 362.4	353.2	
1	4	2.340	2.338	0.002	2364693	0.0564	118.7- 188.7	159.6	
1	5	2.719	2.717	0.002	2358034	0.0556	125.6- 175.6	159.2	
			Average of Peak Amounts =			0.0557			
2	6	2.147	2.145	0.002	1309957	0.0511		100.0	
2	7	2.543	2.541	0.002	2424271	0.0477	169.6- 229.6	185.1	
2	8	2.993	2.992	0.001	5216443	0.0525	351.4- 411.4	398.2	
2	9	3.132	3.130	0.002	2404009	0.0546	141.3- 201.3	183.5	
2	10	3.236	3.233	0.003	1752773	0.0512	102.5- 162.5	133.8	
			Average of Peak Amounts =			0.0514			
						RPD = 7.98			
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.915	0.001	3401344	0.0545		100.0	
1	2	4.202	4.201	0.001	5875308	0.0533	152.2- 202.2	172.7	
1	3	4.483	4.482	0.001	5785089	0.0537	146.4- 196.4	170.1	
1	4	5.183	5.181	0.002	6822118	0.0527	180.7- 230.7	200.6	
1	5	5.466	5.465	0.001	3594678	0.0617	64.1- 114.1	105.7	
			Average of Peak Amounts =			0.0552			
2	6	4.944	4.943	0.001	3629268	0.0528		100.0	
2	7	5.174	5.173	0.001	4403682	0.0552	87.6- 147.6	121.3	
2	8	5.541	5.540	0.001	6362209	0.0538	144.7- 204.7	175.3	
2	9	6.226	6.226	0.000	7932252	0.0544	187.7- 247.7	218.6	
2	10	6.607	6.608	-0.001	5549268	0.0574	115.0- 175.0	152.9	
			Average of Peak Amounts =			0.0547			
						RPD = 0.90			
9 PCB-1262									
1	100		4.202						
1	2		4.604						
1	3		4.850						
1	4		5.179						
1	5		5.553						
2	6		5.171						
2	7		5.642						
2	8		5.947						
2	9		6.223						
2	10		6.602						
11 PCB-1268									
1	100		5.511						
1	2		5.548						
1	3		5.747						
1	4		6.124						
1	5		6.422						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.621	6.618	0.003	4424467	0.003314			
2	2	7.843	7.842	0.001	4040570	0.002774			
						RPD = 17.73			

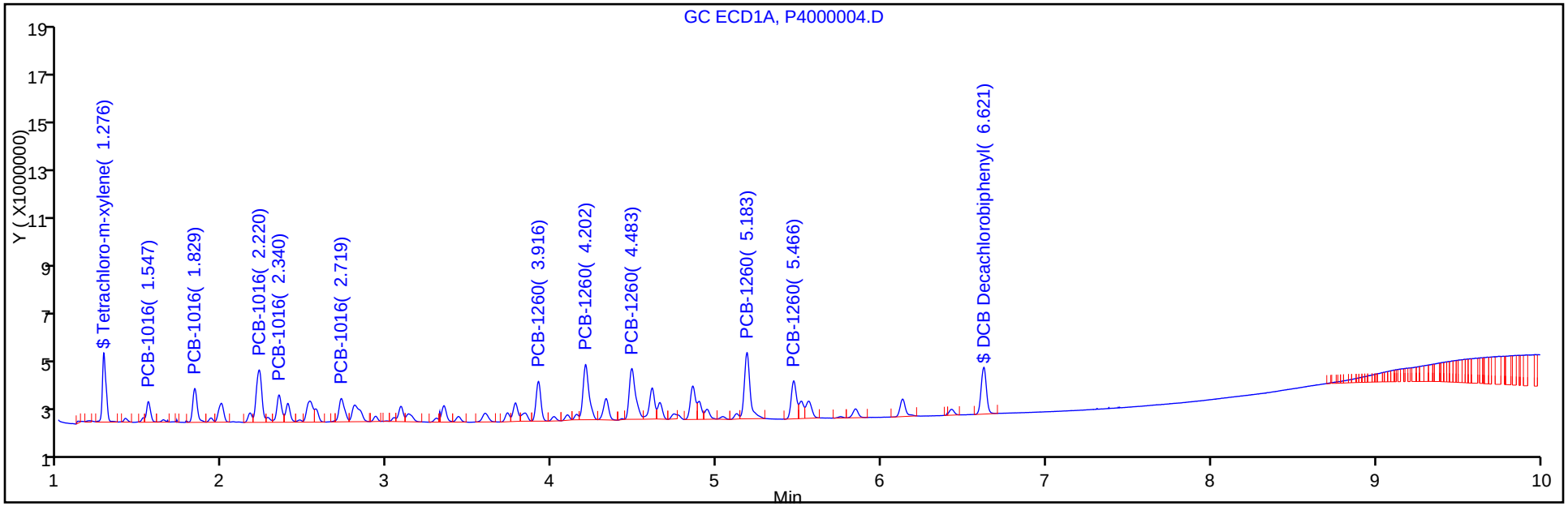
Report Date: 19-Apr-2013 09:25:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

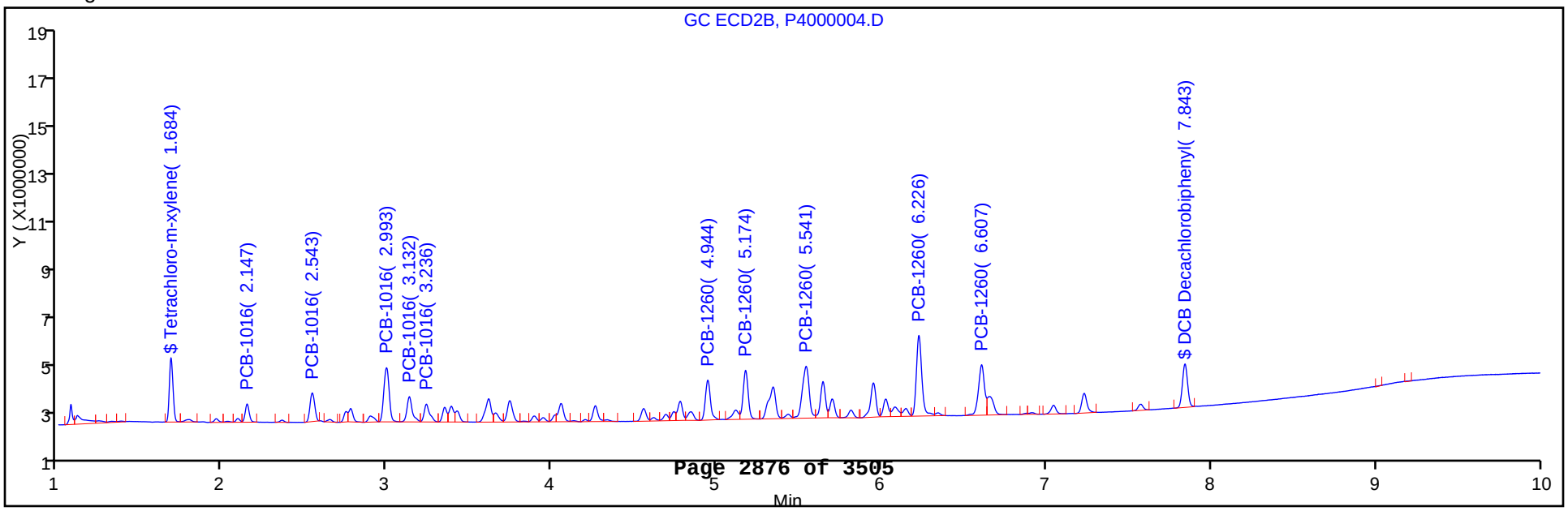
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000004.D

Injection Date:	17-Apr-2013 10:11:59	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82267/21

Matrix: Solid Lab File ID: P4000021.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2013 15:22

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0562*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0579*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		50-150
2051-24-3	DCB Decachlorobiphenyl	133	*Q*	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000021.D		
Lims ID:	MRL	Client ID:	
Inject. Date:	17-Apr-2013 15:22:54	Dil. Factor:	1.0000
Sample Type:	MRL		
Sample ID:	240-0018945-021		
Misc. Info.:			
Operator:		Instrument ID:	A2HP4
Injection Vol:	1.0 uL	ALS Bottle#:	21
Lims Batch ID:	82267	Lims Sample ID:	21
Detector 1 :	GC ECD1A		
Detector 2 :	GC ecd2b		
Method:	\\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m		
Last Update:	19-Apr-2013 09:25:45	Calib Date:	15-Apr-2013 10:24:45
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D		
Limit Group:	GC 8082A ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		
First Level Reviewer: hassl		Date:	19-Apr-2013 08:48:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	4631957	0.002925			
2	2	1.683	1.683	0.000	4456120	0.002824			
						RPD = 3.50			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100	1.546	1.546	0.000	1526412	0.0562		100.0	
1	2	1.827	1.827	0.000	2812756	0.0574	156.0- 206.0	184.3	
1	3	2.220	2.220	0.000	5176606	0.0554	312.4- 362.4	339.1	
1	4	2.340	2.339	0.001	2244904	0.0535	118.7- 188.7	147.1	
1	5	2.718	2.718	0.000	2469079	0.0582	125.6- 175.6	161.8	
			Average of Peak Amounts =			0.0562			
2	6	2.146	2.146	0.000	1383513	0.0539		100.0	
2	7	2.541	2.541	0.000	2854528	0.0562	169.6- 229.6	206.3	
2	8	2.993	2.993	0.000	5579159	0.0561	351.4- 411.4	403.3	
2	9	3.131	3.131	0.000	2575858	0.0585	141.3- 201.3	186.2	
2	10	3.235	3.235	0.000	1867953	0.0545	102.5- 162.5	135.0	
			Average of Peak Amounts =			0.0559			
						RPD = 0.52			
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.915	3.914	0.001	3549365	0.0569		100.0	
1	2	4.202	4.202	0.000	6334647	0.0575	152.2- 202.2	178.5	
1	3	4.482	4.481	0.001	6221463	0.0578	146.4- 196.4	175.3	
1	4	5.182	5.181	0.001	7065115	0.0546	180.7- 230.7	199.1	
1	5	5.467	5.466	0.001	3639850	0.0625	64.1- 114.1	102.5	
			Average of Peak Amounts =			0.0579			
2	6	4.945	4.944	0.001	3818400	0.0555		100.0	
2	7	5.174	5.173	0.001	4566965	0.0572	87.6- 147.6	119.6	
2	8	5.542	5.541	0.001	6584436	0.0557	144.7- 204.7	172.4	
2	9	6.227	6.226	0.001	8183922	0.0561	187.7- 247.7	214.3	
2	10	6.609	6.606	0.003	5737732	0.0594	115.0- 175.0	150.3	
			Average of Peak Amounts =			0.0568			
						RPD = 1.87			
9 PCB-1262									
1	100		4.202						
1	2		4.604						
1	3		4.850						
1	4		5.179						
1	5		5.553						
2	6		5.171						
2	7		5.642						
2	8		5.947						
2	9		6.223						
2	10		6.602						
11 PCB-1268									
1	100		5.511						
1	2		5.548						
1	3		5.747						
1	4		6.124						
1	5		6.422						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.619	0.001	4448734	0.003332			
2	2	7.843	7.842	0.001	4411974	0.003029			
						RPD = 9.52			

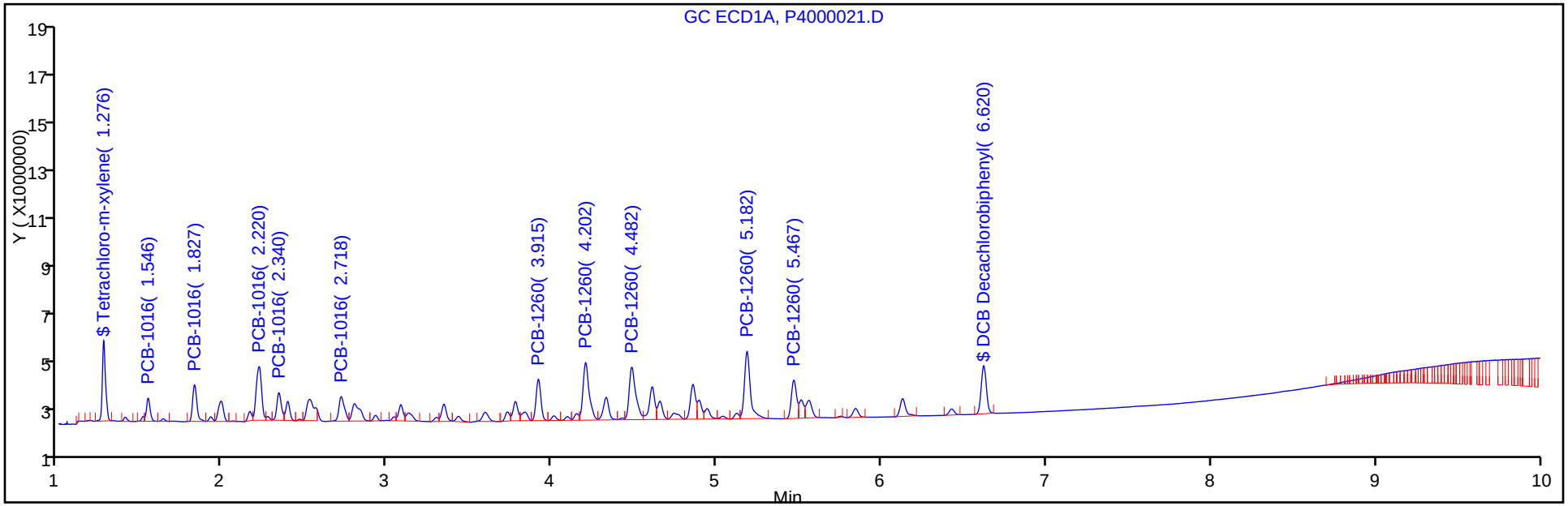
Report Date: 19-Apr-2013 09:25:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

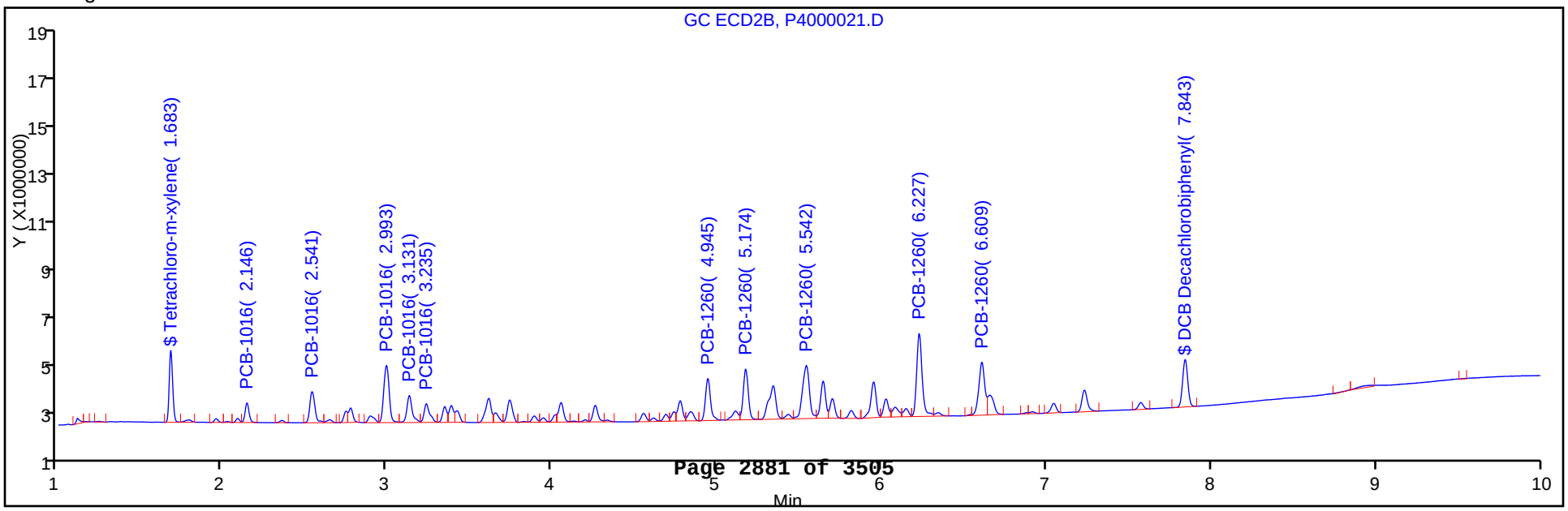
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000021.D

Injection Date:	17-Apr-2013 15:22:54	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82267/21

Matrix: Solid Lab File ID: P4000021.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/17/2013 15:22

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82267 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0559		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0568		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	113		50-150
2051-24-3	DCB Decachlorobiphenyl	121		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000021.D
Lims ID: MRL Client ID:
Inject. Date: 17-Apr-2013 15:22:54 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018945-021
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 21
Lims Batch ID: 82267 Lims Sample ID: 21
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\PCB4.m
Last Update: 19-Apr-2013 09:25:45 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 08:48:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.276	1.276	0.000	4631957	0.002925			
2	2	1.683	1.683	0.000	4456120	0.002824			
						RPD = 3.50			
3 PCB-1221									
1	2		1.406						
1	3		1.514						
1	4		1.543						
2	4		1.956						
2	5		2.087						
2	6		2.144						
4 PCB-1232									
1	100		1.543						
1	2		1.824						
1	3		2.216						
1	4		2.336						
1	5		2.714						
2	6		2.143						
2	7		2.538						
2	8		2.989						
2	9		3.128						
2	10		3.736						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.543						
1	2		1.825						
1	3		2.216						
1	4		2.336						
1	5		2.715						
2	6		2.142						
2	7		2.538						
2	8		2.990						
2	9		3.128						
2	10		3.738						
6 PCB-1016									
1	100	1.546	1.546	0.000	1526412	0.0562		100.0	
1	2	1.827	1.827	0.000	2812756	0.0574	156.0- 206.0	184.3	
1	3	2.220	2.220	0.000	5176606	0.0554	312.4- 362.4	339.1	
1	4	2.340	2.339	0.001	2244904	0.0535	118.7- 188.7	147.1	
1	5	2.718	2.718	0.000	2469079	0.0582	125.6- 175.6	161.8	
			Average of Peak Amounts =			0.0562			
2	6	2.146	2.146	0.000	1383513	0.0539		100.0	
2	7	2.541	2.541	0.000	2854528	0.0562	169.6- 229.6	206.3	
2	8	2.993	2.993	0.000	5579159	0.0561	351.4- 411.4	403.3	
2	9	3.131	3.131	0.000	2575858	0.0585	141.3- 201.3	186.2	
2	10	3.235	3.235	0.000	1867953	0.0545	102.5- 162.5	135.0	
			Average of Peak Amounts =			0.0559			
						RPD = 0.52			
7 PCB-1248									
1	86		1.824						
1	2		2.215						
1	3		2.715						
1	4		3.292						
1	5		3.725						
2	6		2.538						
2	7		2.989						
2	8		3.737						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.339						
1	2		3.725						
1	3		4.008						
1	4		4.197						
1	5		4.480						
2	6		4.258						
2	7		4.734						
2	8		4.979						
2	9		5.340						
2	10		5.541						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.915	3.914	0.001	3549365	0.0569		100.0	
1	2	4.202	4.202	0.000	6334647	0.0575	152.2- 202.2	178.5	
1	3	4.482	4.481	0.001	6221463	0.0578	146.4- 196.4	175.3	
1	4	5.182	5.181	0.001	7065115	0.0546	180.7- 230.7	199.1	
1	5	5.467	5.466	0.001	3639850	0.0625	64.1- 114.1	102.5	
			Average of Peak Amounts =			0.0579			
2	6	4.945	4.944	0.001	3818400	0.0555		100.0	
2	7	5.174	5.173	0.001	4566965	0.0572	87.6- 147.6	119.6	
2	8	5.542	5.541	0.001	6584436	0.0557	144.7- 204.7	172.4	
2	9	6.227	6.226	0.001	8183922	0.0561	187.7- 247.7	214.3	
2	10	6.609	6.606	0.003	5737732	0.0594	115.0- 175.0	150.3	
			Average of Peak Amounts =			0.0568			
						RPD = 1.87			
9 PCB-1262									
1	100		4.202						
1	2		4.604						
1	3		4.850						
1	4		5.179						
1	5		5.553						
2	6		5.171						
2	7		5.642						
2	8		5.947						
2	9		6.223						
2	10		6.602						
11 PCB-1268									
1	100		5.511						
1	2		5.548						
1	3		5.747						
1	4		6.124						
1	5		6.422						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.571						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.619	0.001	4448734	0.003332			
2	2	7.843	7.842	0.001	4411974	0.003029			
						RPD = 9.52			

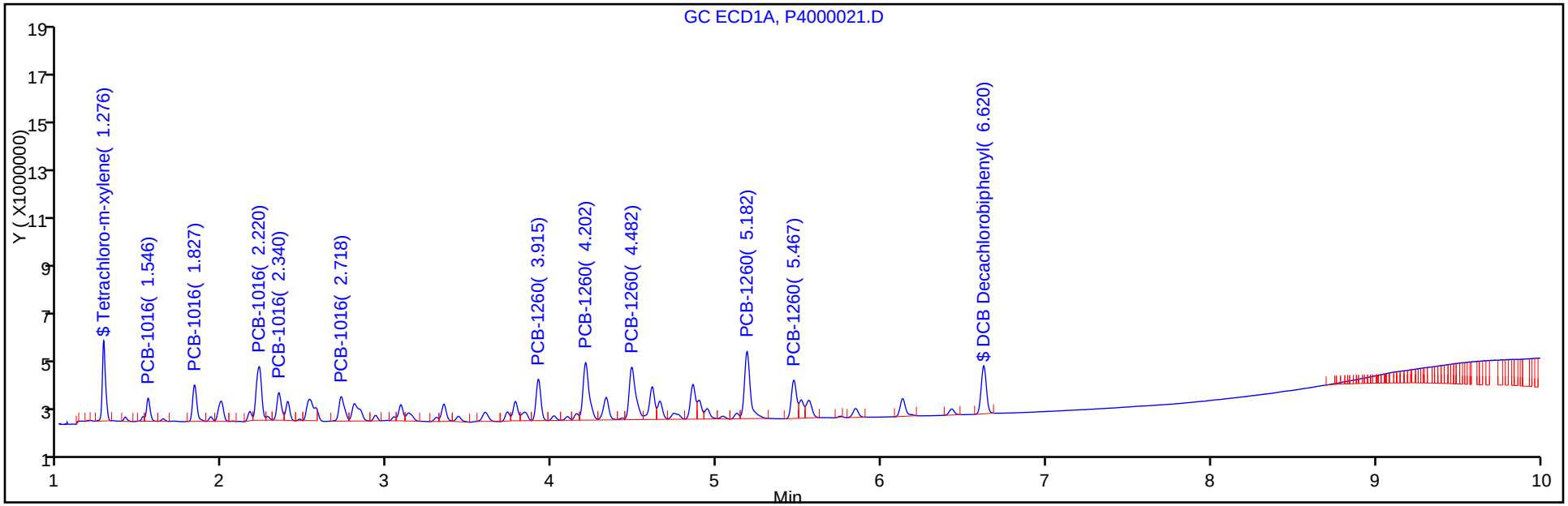
Report Date: 19-Apr-2013 09:25:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

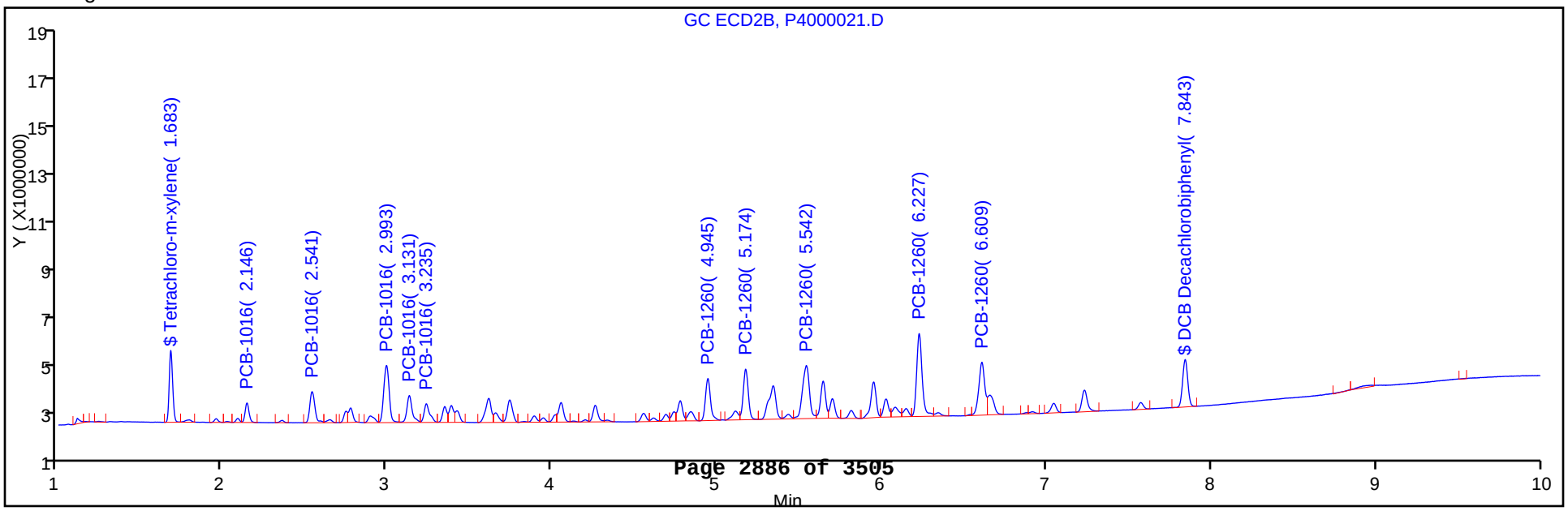
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18945.b\P4000021.D

Injection Date:	17-Apr-2013 15:22:54	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82267	Lims Sample ID:	21
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82363/4

Matrix: Solid Lab File ID: P4000004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/18/2013 09:52

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0497*	*J*	*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0506*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	108		50-150
2051-24-3	DCB Decachlorobiphenyl	125		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 18-Apr-2013 09:52:58 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018971-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 82363 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:42:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	4264682	0.002693			
2	2	1.682	1.682	0.000	3980790	0.002523			
						RPD = 6.52			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100	1.546	1.545	0.001	1356129	0.0500		100.0	
1	2	1.827	1.827	0.000	2621846	0.0535	156.0- 206.0	193.3	
1	3	2.218	2.221	-0.003	4760587	0.0509	312.4- 362.4	351.0	
1	4	2.339	2.340	-0.001	1889968	0.0450	118.7- 188.7	139.4	
1	5	2.717	2.717	0.000	2073122	0.0489	125.6- 175.6	152.9	
			Average of Peak Amounts =			0.0497			
2	6	2.146	2.145	0.001	1209796	0.0472		100.0	
2	7	2.541	2.541	0.000	2490194	0.0490	169.6- 229.6	205.8	
2	8	2.992	2.992	0.000	4783457	0.0481	351.4- 411.4	395.4	
2	9	3.131	3.131	0.000	2181702	0.0496	141.3- 201.3	180.3	
2	10	3.235	3.234	0.001	1625331	0.0475	102.5- 162.5	134.3	
			Average of Peak Amounts =			0.0483			
						RPD = 2.87			
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.916	0.000	3240450	0.0519		100.0	
1	2	4.202	4.201	0.001	5702996	0.0518	152.2- 202.2	176.0	
1	3	4.483	4.482	0.001	5125790	0.0476	146.4- 196.4	158.2	
1	4	5.183	5.182	0.001	6412118	0.0496	180.7- 230.7	197.9	
1	5	5.469	5.467	0.002	3039793	0.0522	64.1- 114.1	93.8	
			Average of Peak Amounts =			0.0506			
2	6	4.944	4.943	0.001	3302647	0.0480		100.0	
2	7	5.174	5.173	0.001	3941990	0.0494	87.6- 147.6	119.4	
2	8	5.542	5.542	0.000	5774475	0.0489	144.7- 204.7	174.8	
2	9	6.227	6.226	0.001	7236427	0.0496	187.7- 247.7	219.1	
2	10	6.608	6.607	0.001	4985799	0.0516	115.0- 175.0	151.0	
			Average of Peak Amounts =			0.0495			
						RPD = 2.24			
9 PCB-1262									
1	100		4.203						
1	2		4.605						
1	3		4.851						
1	4		5.180						
1	5		5.554						
2	6		5.173						
2	7		5.643						
2	8		5.949						
2	9		6.225						
2	10		6.605						
11 PCB-1268									
1	100		5.511						
1	2		5.550						
1	3		5.749						
1	4		6.126						
1	5		6.423						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.570						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	4185660	0.003135			
2	2	7.842	7.841	0.001	4346346	0.002984			
						RPD = 4.93			

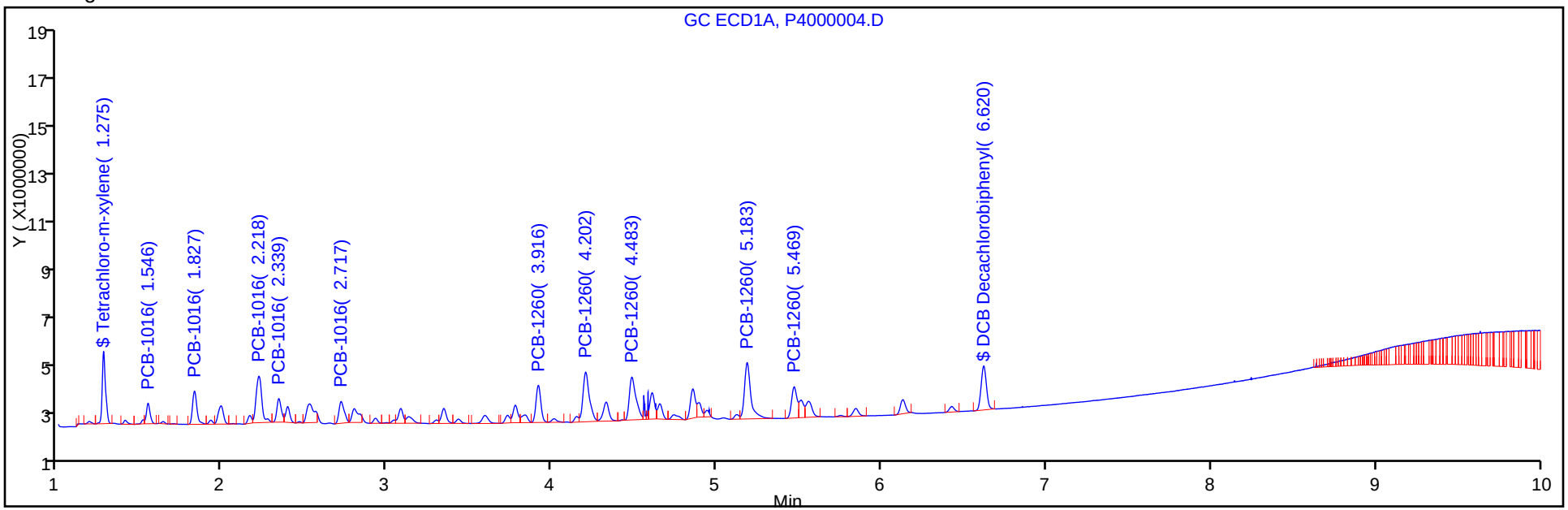
Report Date: 19-Apr-2013 14:47:58 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

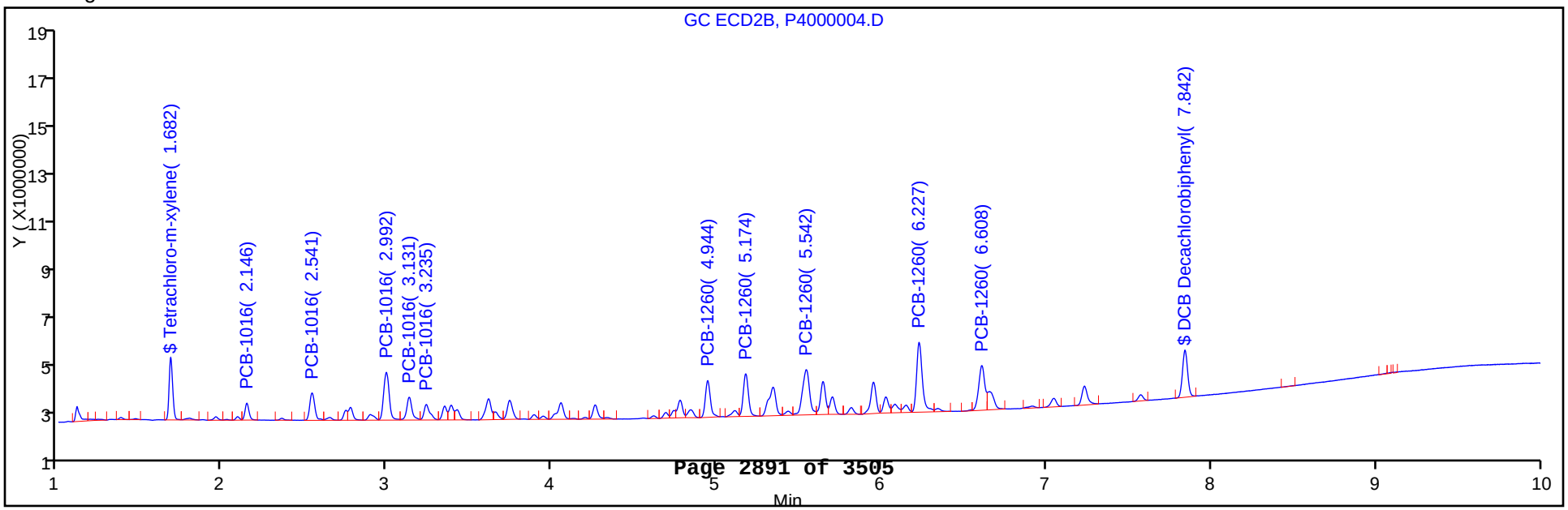
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000004.D

Injection Date:	18-Apr-2013 09:52:58	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82363/4

Matrix: Solid Lab File ID: P4000004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/18/2013 09:52

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0483	J	0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0495	J	0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		50-150
2051-24-3	DCB Decachlorobiphenyl	119		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 18-Apr-2013 09:52:58 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018971-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 82363 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:51 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:42:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.275	1.276	-0.001	4264682	0.002693			
2	2	1.682	1.682	0.000	3980790	0.002523			
						RPD = 6.52			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100	1.546	1.545	0.001	1356129	0.0500		100.0	
1	2	1.827	1.827	0.000	2621846	0.0535	156.0- 206.0	193.3	
1	3	2.218	2.221	-0.003	4760587	0.0509	312.4- 362.4	351.0	
1	4	2.339	2.340	-0.001	1889968	0.0450	118.7- 188.7	139.4	
1	5	2.717	2.717	0.000	2073122	0.0489	125.6- 175.6	152.9	
			Average of Peak Amounts =			0.0497			
2	6	2.146	2.145	0.001	1209796	0.0472		100.0	
2	7	2.541	2.541	0.000	2490194	0.0490	169.6- 229.6	205.8	
2	8	2.992	2.992	0.000	4783457	0.0481	351.4- 411.4	395.4	
2	9	3.131	3.131	0.000	2181702	0.0496	141.3- 201.3	180.3	
2	10	3.235	3.234	0.001	1625331	0.0475	102.5- 162.5	134.3	
			Average of Peak Amounts =			0.0483			
						RPD = 2.87			
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.916	0.000	3240450	0.0519		100.0	
1	2	4.202	4.201	0.001	5702996	0.0518	152.2- 202.2	176.0	
1	3	4.483	4.482	0.001	5125790	0.0476	146.4- 196.4	158.2	
1	4	5.183	5.182	0.001	6412118	0.0496	180.7- 230.7	197.9	
1	5	5.469	5.467	0.002	3039793	0.0522	64.1- 114.1	93.8	
			Average of Peak Amounts =			0.0506			
2	6	4.944	4.943	0.001	3302647	0.0480		100.0	
2	7	5.174	5.173	0.001	3941990	0.0494	87.6- 147.6	119.4	
2	8	5.542	5.542	0.000	5774475	0.0489	144.7- 204.7	174.8	
2	9	6.227	6.226	0.001	7236427	0.0496	187.7- 247.7	219.1	
2	10	6.608	6.607	0.001	4985799	0.0516	115.0- 175.0	151.0	
			Average of Peak Amounts =			0.0495			
						RPD = 2.24			
9 PCB-1262									
1	100		4.203						
1	2		4.605						
1	3		4.851						
1	4		5.180						
1	5		5.554						
2	6		5.173						
2	7		5.643						
2	8		5.949						
2	9		6.225						
2	10		6.605						
11 PCB-1268									
1	100		5.511						
1	2		5.550						
1	3		5.749						
1	4		6.126						
1	5		6.423						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.570						
$ 12 DCB Decachlorobiphenyl									
1	100	6.620	6.620	0.000	4185660	0.003135			
2	2	7.842	7.841	0.001	4346346	0.002984			
						RPD = 4.93			

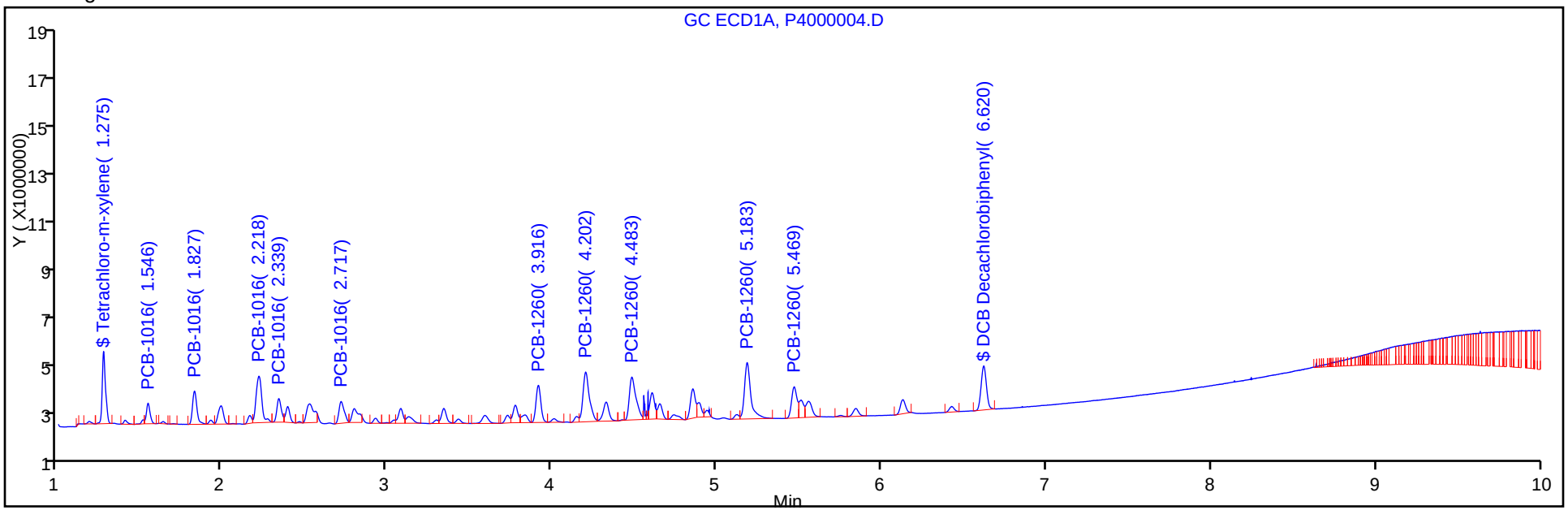
Report Date: 19-Apr-2013 14:47:59 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

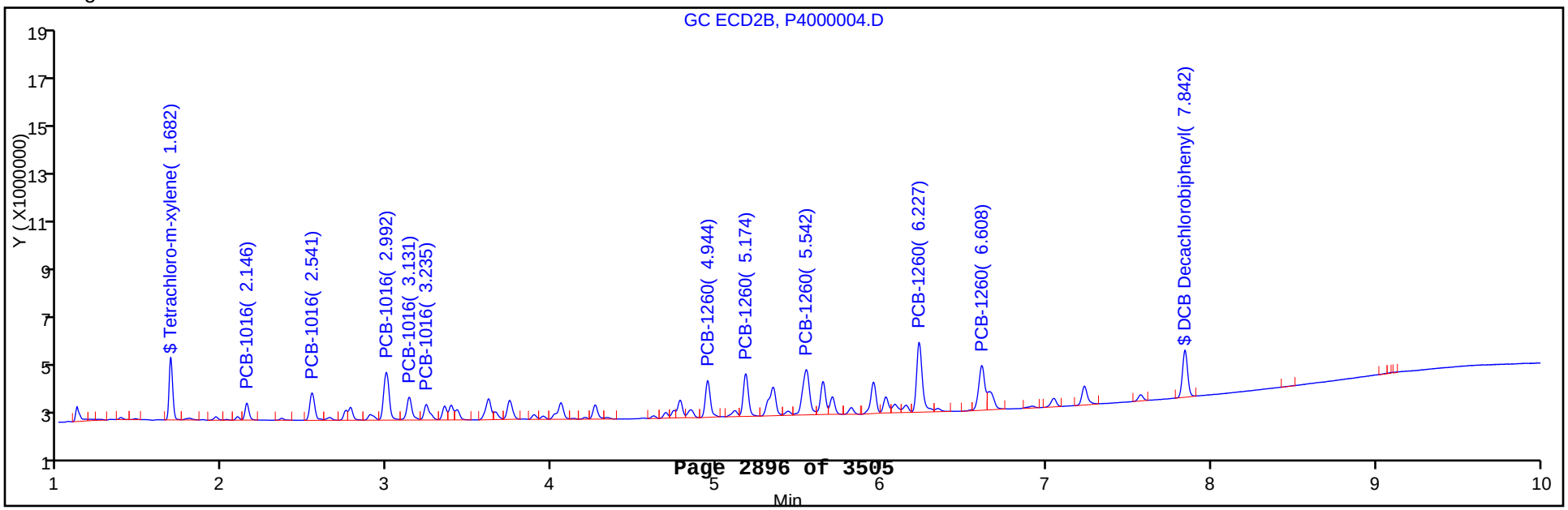
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000004.D

Injection Date:	18-Apr-2013 09:52:58	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82363/26

Matrix: Solid | Lab File ID: P4000026.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/18/2013 15:37

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0605*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0587*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		50-150
2051-24-3	DCB Decachlorobiphenyl	138	*Q*	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000026.D
Lims ID: MRL Client ID:
Inject. Date: 18-Apr-2013 15:37:01 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018971-026
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 26
Lims Batch ID: 82363 Lims Sample ID: 26
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:59 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:45:19

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.277	0.000	5127336	0.003238			
2	2	1.684	1.683	0.001	4633155	0.002936			
						RPD = 9.76			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100	1.546	1.546	0.000	1611507	0.0594		100.0	
1	2	1.829	1.828	0.001	3011495	0.0615	156.0- 206.0	186.9	
1	3	2.219	2.219	0.000	5711393	0.0611	312.4- 362.4	354.4	
1	4	2.340	2.340	0.000	2612554	0.0623	118.7- 188.7	162.1	
1	5	2.720	2.718	0.002	2477288	0.0584	125.6- 175.6	153.7	
			Average of Peak Amounts =			0.0605			
2	6	2.146	2.146	0.000	1399767	0.0546		100.0	
2	7	2.542	2.542	0.000	2940372	0.0579	169.6- 229.6	210.1	
2	8	2.995	2.993	0.002	5694258	0.0573	351.4- 411.4	406.8	
2	9	3.133	3.132	0.001	2541474	0.0577	141.3- 201.3	181.6	
2	10	3.236	3.236	0.000	1893955	0.0553	102.5- 162.5	135.3	
			Average of Peak Amounts =			0.0566			
						RPD = 6.79			
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.917	-0.001	3676236	0.0589		100.0	
1	2	4.205	4.203	0.002	6259408	0.0568	152.2- 202.2	170.3	
1	3	4.485	4.483	0.002	6102425	0.0567	146.4- 196.4	166.0	
1	4	5.185	5.184	0.001	7463445	0.0577	180.7- 230.7	203.0	
1	5	5.470	5.469	0.001	3679576	0.0632	64.1- 114.1	100.1	
			Average of Peak Amounts =			0.0587			
2	6	4.945	4.945	0.000	3852699	0.0560		100.0	
2	7	5.175	5.175	0.000	4833088	0.0605	87.6- 147.6	125.4	
2	8	5.543	5.543	0.000	6669086	0.0564	144.7- 204.7	173.1	
2	9	6.229	6.228	0.001	8419848	0.0577	187.7- 247.7	218.5	
2	10	6.610	6.610	0.000	5808236	0.0601	115.0- 175.0	150.8	
			Average of Peak Amounts =			0.0582			
						RPD = 0.85			
9 PCB-1262									
1	100		4.203						
1	2		4.605						
1	3		4.851						
1	4		5.180						
1	5		5.554						
2	6		5.173						
2	7		5.643						
2	8		5.949						
2	9		6.225						
2	10		6.605						
11 PCB-1268									
1	100		5.511						
1	2		5.550						
1	3		5.749						
1	4		6.126						
1	5		6.423						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.570						
$ 12 DCB Decachlorobiphenyl									
1	100	6.622	6.622	0.000	4610876	0.003453			
2	2	7.844	7.843	0.001	4958151	0.003404			
						RPD = 1.44			

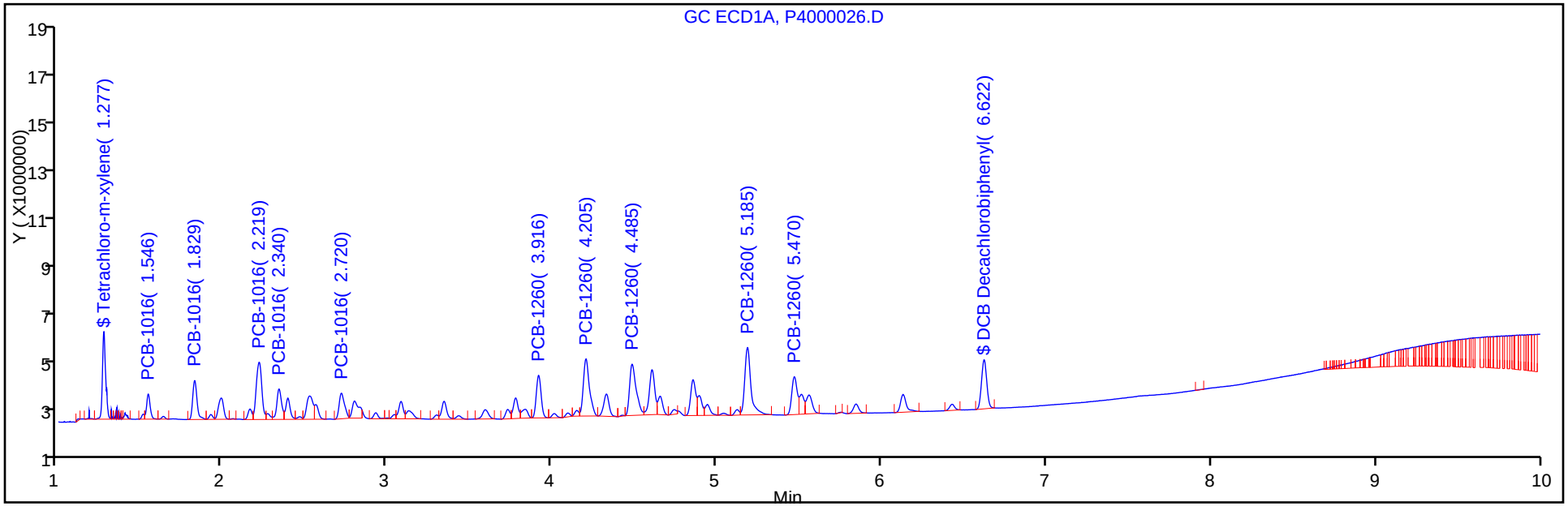
Report Date: 19-Apr-2013 14:48:01 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

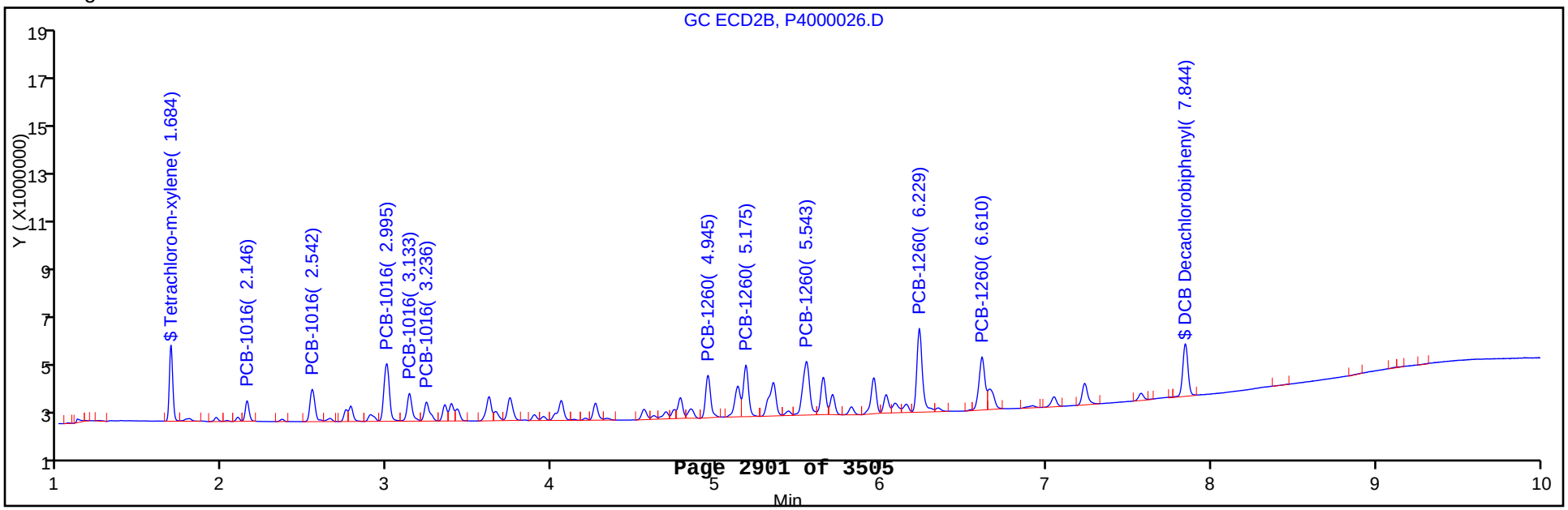
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000026.D

Injection Date:	18-Apr-2013 15:37:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82363/26

Matrix: Solid | Lab File ID: P4000026.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/18/2013 15:37

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82363 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0566*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0582*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		50-150
2051-24-3	DCB Decachlorobiphenyl	136	Q	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000026.D
Lims ID: MRL Client ID:
Inject. Date: 18-Apr-2013 15:37:01 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0018971-026
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 26
Lims Batch ID: 82363 Lims Sample ID: 26
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\PCB4.m
Last Update: 19-Apr-2013 14:47:59 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 14:45:19

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.277	0.000	5127336	0.003238			
2	2	1.684	1.683	0.001	4633155	0.002936			
						RPD = 9.76			
3 PCB-1221									
1	2		1.405						
1	3		1.515						
1	4		1.544						
2	4		1.957						
2	5		2.089						
2	6		2.145						
4 PCB-1232									
1	100		1.543						
1	2		1.826						
1	3		2.217						
1	4		2.337						
1	5		2.716						
2	6		2.143						
2	7		2.538						
2	8		2.990						
2	9		3.129						
2	10		3.738						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.544						
1	2		1.826						
1	3		2.218						
1	4		2.338						
1	5		2.717						
2	6		2.143						
2	7		2.539						
2	8		2.991						
2	9		3.129						
2	10		3.738						
6 PCB-1016									
1	100	1.546	1.546	0.000	1611507	0.0594		100.0	
1	2	1.829	1.828	0.001	3011495	0.0615	156.0- 206.0	186.9	
1	3	2.219	2.219	0.000	5711393	0.0611	312.4- 362.4	354.4	
1	4	2.340	2.340	0.000	2612554	0.0623	118.7- 188.7	162.1	
1	5	2.720	2.718	0.002	2477288	0.0584	125.6- 175.6	153.7	
			Average of Peak Amounts =			0.0605			
2	6	2.146	2.146	0.000	1399767	0.0546		100.0	
2	7	2.542	2.542	0.000	2940372	0.0579	169.6- 229.6	210.1	
2	8	2.995	2.993	0.002	5694258	0.0573	351.4- 411.4	406.8	
2	9	3.133	3.132	0.001	2541474	0.0577	141.3- 201.3	181.6	
2	10	3.236	3.236	0.000	1893955	0.0553	102.5- 162.5	135.3	
			Average of Peak Amounts =			0.0566			
						RPD = 6.79			
7 PCB-1248									
1	86		1.825						
1	2		2.216						
1	3		2.716						
1	4		3.293						
1	5		3.726						
2	6		2.538						
2	7		2.990						
2	8		3.739						
2	9		4.013						
2	10		4.735						
8 PCB-1254									
1	100		3.340						
1	2		3.727						
1	3		4.010						
1	4		4.199						
1	5		4.483						
2	6		4.260						
2	7		4.735						
2	8		4.980						
2	9		5.341						
2	10		5.543						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.916	3.917	-0.001	3676236	0.0589		100.0	
1	2	4.205	4.203	0.002	6259408	0.0568	152.2- 202.2	170.3	
1	3	4.485	4.483	0.002	6102425	0.0567	146.4- 196.4	166.0	
1	4	5.185	5.184	0.001	7463445	0.0577	180.7- 230.7	203.0	
1	5	5.470	5.469	0.001	3679576	0.0632	64.1- 114.1	100.1	
			Average of Peak Amounts =			0.0587			
2	6	4.945	4.945	0.000	3852699	0.0560		100.0	
2	7	5.175	5.175	0.000	4833088	0.0605	87.6- 147.6	125.4	
2	8	5.543	5.543	0.000	6669086	0.0564	144.7- 204.7	173.1	
2	9	6.229	6.228	0.001	8419848	0.0577	187.7- 247.7	218.5	
2	10	6.610	6.610	0.000	5808236	0.0601	115.0- 175.0	150.8	
			Average of Peak Amounts =			0.0582			
						RPD = 0.85			
9 PCB-1262									
1	100		4.203						
1	2		4.605						
1	3		4.851						
1	4		5.180						
1	5		5.554						
2	6		5.173						
2	7		5.643						
2	8		5.949						
2	9		6.225						
2	10		6.605						
11 PCB-1268									
1	100		5.511						
1	2		5.550						
1	3		5.749						
1	4		6.126						
1	5		6.423						
2	6		6.601						
2	7		6.649						
2	8		6.912						
2	9		7.228						
2	10		7.570						
$ 12 DCB Decachlorobiphenyl									
1	100	6.622	6.622	0.000	4610876	0.003453			
2	2	7.844	7.843	0.001	4958151	0.003404			
						RPD = 1.44			

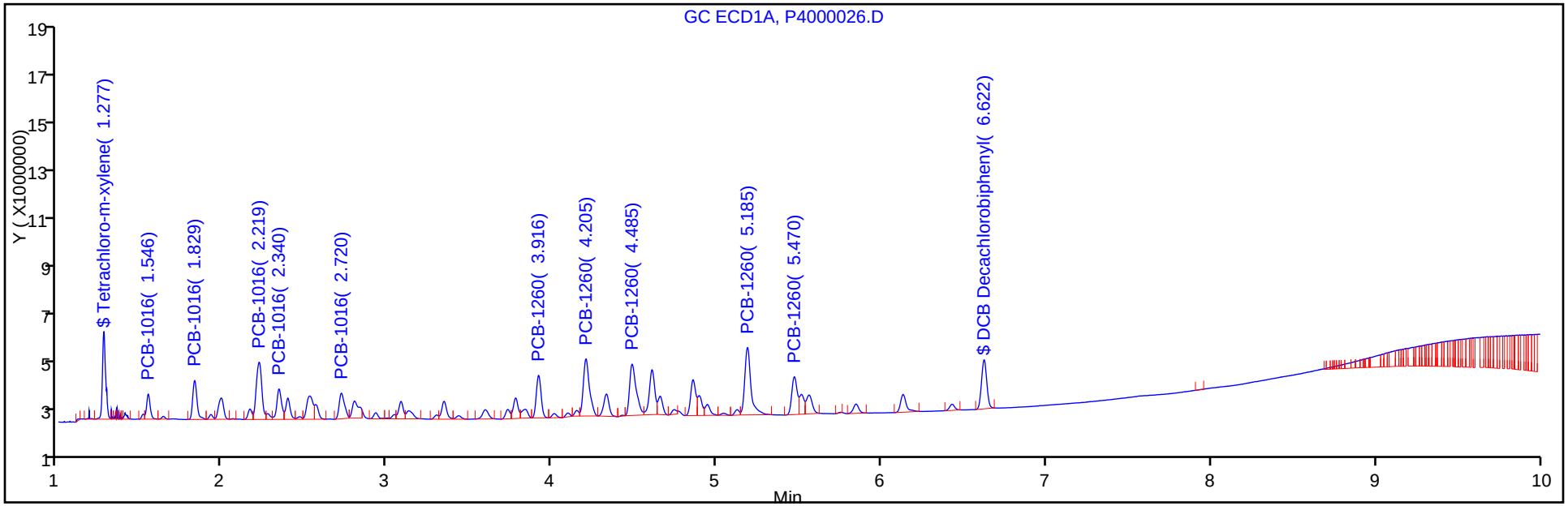
Report Date: 19-Apr-2013 14:48:02 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

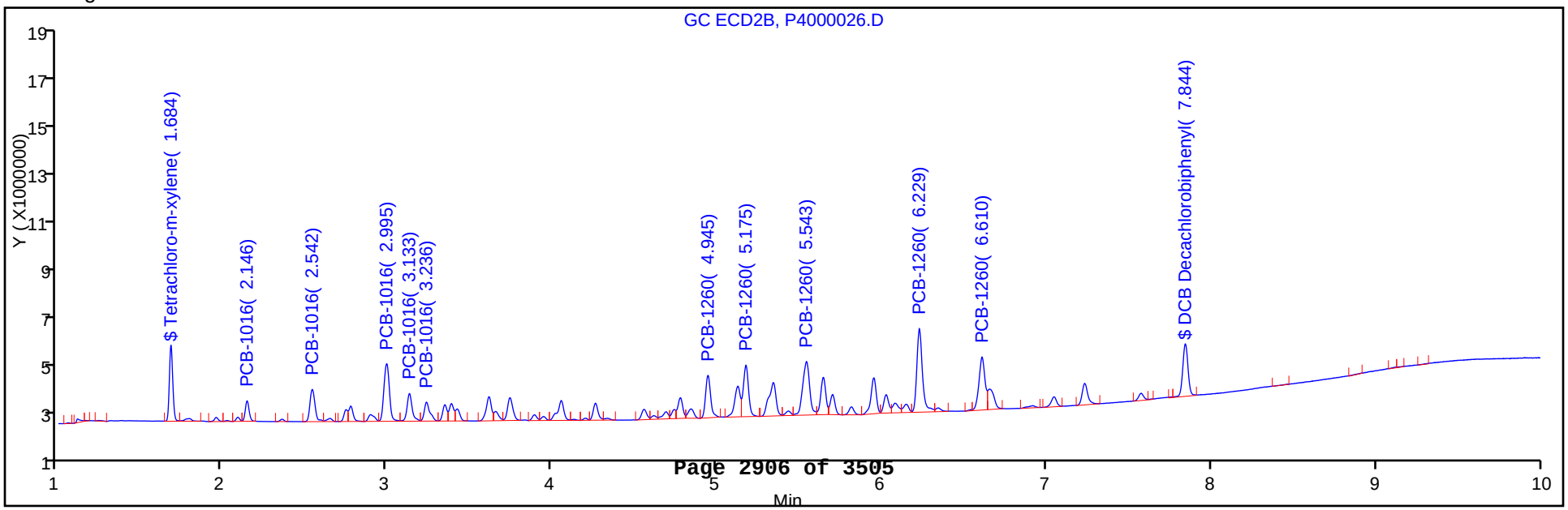
Data File: \\Ncchrom\ChromData\A2HP4\20130417-18971.b\P4000026.D

Injection Date:	18-Apr-2013 15:37:01	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82363	Lims Sample ID:	26
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82656/4

Matrix: Solid | Lab File ID: P4000004.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 08:50

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82656 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0567*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0559*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		50-150
2051-24-3	DCB Decachlorobiphenyl	139	*Q*	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 08:50:51 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019046-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 82656 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:43 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 13:07:42

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.278	-0.001	4678094	0.002954			
2	2	1.686	1.685	0.001	4406429	0.002793			
						RPD = 5.62			
3 PCB-1221									
1	2		1.407						
1	3		1.516						
1	4		1.545						
2	4		1.958						
2	5		2.089						
2	6		2.147						
4 PCB-1232									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.718						
2	6		2.147						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.719						
2	6		2.146						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						
6 PCB-1016									
1	100	1.548	1.547	0.001	1516432	0.0559		100.0	
1	2	1.830	1.828	0.002	2802039	0.0572	156.0- 206.0	184.8	
1	3	2.222	2.222	0.000	5300714	0.0567	312.4- 362.4	349.6	
1	4	2.342	2.344	-0.002	2438156	0.0581	118.7- 188.7	160.8	
1	5	2.721	2.720	0.001	2351143	0.0555	125.6- 175.6	155.0	
			Average of Peak Amounts =			0.0567			
2	6	2.148	2.148	0.000	1350606	0.0527		100.0	
2	7	2.544	2.544	0.000	2513804	0.0495	169.6- 229.6	186.1	
2	8	2.996	2.996	0.000	5358371	0.0539	351.4- 411.4	396.7	
2	9	3.134	3.134	0.000	2400645	0.0545	141.3- 201.3	177.7	
2	10	3.238	3.238	0.000	1797450	0.0525	102.5- 162.5	133.1	
			Average of Peak Amounts =			0.0526			
						RPD = 7.42			
7 PCB-1248									
1	86		1.826						
1	2		2.217						
1	3		2.717						
1	4		3.298						
1	5		3.729						
2	6		2.540						
2	7		2.992						
2	8		3.742						
2	9		4.018						
2	10		4.738						
8 PCB-1254									
1	100		3.342						
1	2		3.730						
1	3		4.014						
1	4		4.202						
1	5		4.486						
2	6		4.262						
2	7		4.739						
2	8		4.986						
2	9		5.346						
2	10		5.547						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	3548214	0.0569		100.0	
1	2	4.207	4.206	0.001	6231616	0.0566	152.2- 202.2	175.6	
1	3	4.488	4.488	0.000	5911628	0.0549	146.4- 196.4	166.6	
1	4	5.189	5.190	-0.001	6994915	0.0541	180.7- 230.7	197.1	
1	5	5.475	5.473	0.002	3337163	0.0573	64.1- 114.1	94.1	
			Average of Peak Amounts =			0.0559			
2	6	4.948	4.948	0.000	3733214	0.0543		100.0	
2	7	5.179	5.178	0.001	4417877	0.0553	87.6- 147.6	118.3	
2	8	5.547	5.546	0.001	6459552	0.0547	144.7- 204.7	173.0	
2	9	6.232	6.231	0.001	8030616	0.0551	187.7- 247.7	215.1	
2	10	6.614	6.611	0.003	5529649	0.0572	115.0- 175.0	148.1	
			Average of Peak Amounts =			0.0553			
						RPD = 1.14			
9 PCB-1262									
1	100		4.207						
1	2		4.608						
1	3		4.856						
1	4		5.185						
1	5		5.559						
2	6		5.176						
2	7		5.646						
2	8		5.953						
2	9		6.230						
2	10		6.608						
11 PCB-1268									
1	100		5.515						
1	2		5.553						
1	3		5.753						
1	4		6.132						
1	5		6.428						
2	6		6.605						
2	7		6.654						
2	8		6.917						
2	9		7.233						
2	10		7.575						
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.625	0.001	4652104	0.003484			
2	2	7.848	7.847	0.001	4889095	0.003356			
						RPD = 3.73			

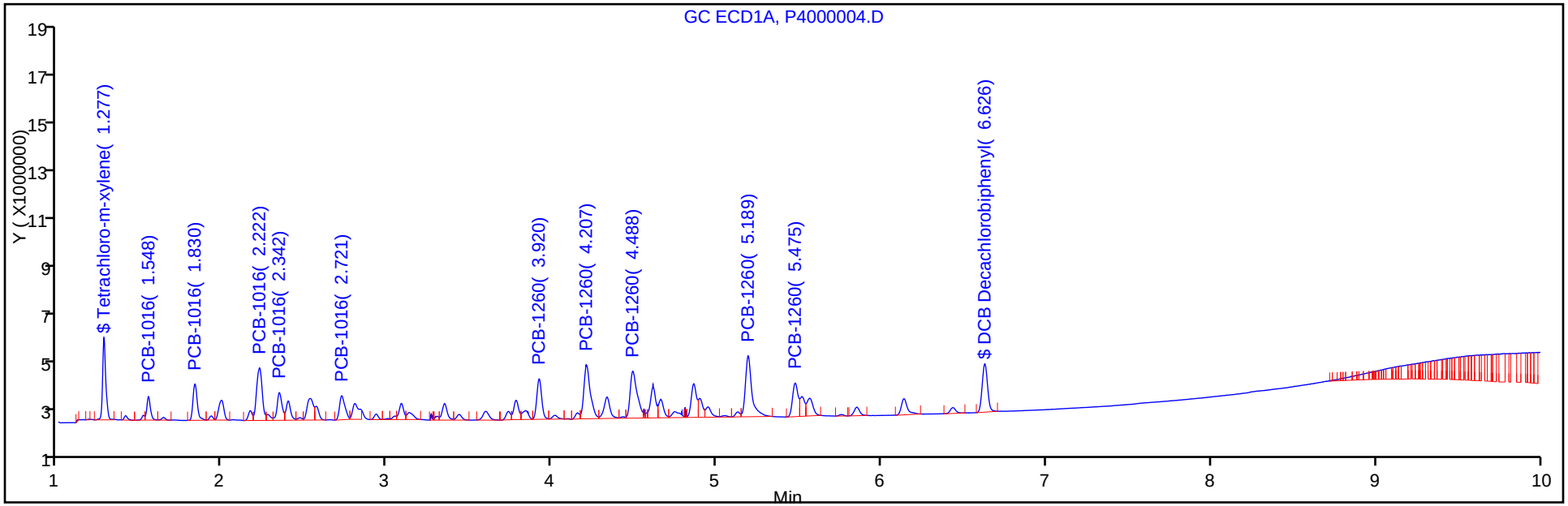
Report Date: 19-Apr-2013 13:11:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

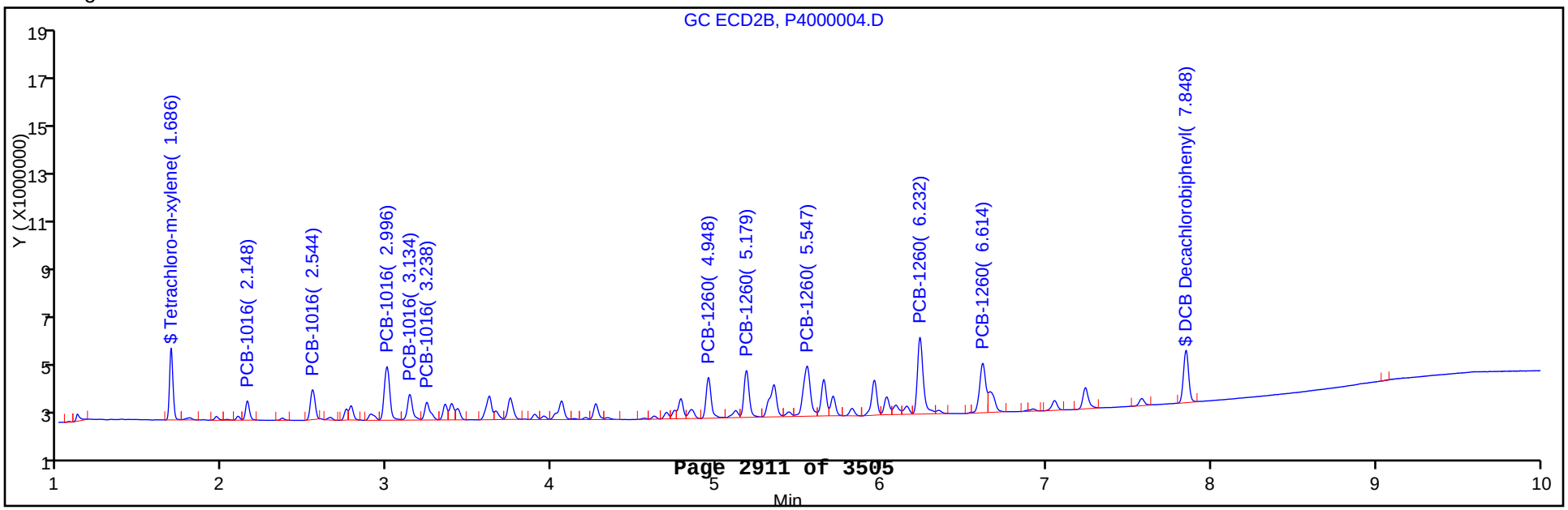
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000004.D

Injection Date:	19-Apr-2013 08:50:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82656/4

Matrix: Solid Lab File ID: P4000004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/19/2013 08:50

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82656 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0526		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0553		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		50-150
2051-24-3	DCB Decachlorobiphenyl	134	Q	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 08:50:51 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019046-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 82656 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:43 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 13:07:42

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.277	1.278	-0.001	4678094	0.002954			
2	2	1.686	1.685	0.001	4406429	0.002793			
						RPD = 5.62			
3 PCB-1221									
1	2		1.407						
1	3		1.516						
1	4		1.545						
2	4		1.958						
2	5		2.089						
2	6		2.147						
4 PCB-1232									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.718						
2	6		2.147						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.719						
2	6		2.146						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						
6 PCB-1016									
1	100	1.548	1.547	0.001	1516432	0.0559		100.0	
1	2	1.830	1.828	0.002	2802039	0.0572	156.0- 206.0	184.8	
1	3	2.222	2.222	0.000	5300714	0.0567	312.4- 362.4	349.6	
1	4	2.342	2.344	-0.002	2438156	0.0581	118.7- 188.7	160.8	
1	5	2.721	2.720	0.001	2351143	0.0555	125.6- 175.6	155.0	
			Average of Peak Amounts =			0.0567			
2	6	2.148	2.148	0.000	1350606	0.0527		100.0	
2	7	2.544	2.544	0.000	2513804	0.0495	169.6- 229.6	186.1	
2	8	2.996	2.996	0.000	5358371	0.0539	351.4- 411.4	396.7	
2	9	3.134	3.134	0.000	2400645	0.0545	141.3- 201.3	177.7	
2	10	3.238	3.238	0.000	1797450	0.0525	102.5- 162.5	133.1	
			Average of Peak Amounts =			0.0526			
						RPD = 7.42			
7 PCB-1248									
1	86		1.826						
1	2		2.217						
1	3		2.717						
1	4		3.298						
1	5		3.729						
2	6		2.540						
2	7		2.992						
2	8		3.742						
2	9		4.018						
2	10		4.738						
8 PCB-1254									
1	100		3.342						
1	2		3.730						
1	3		4.014						
1	4		4.202						
1	5		4.486						
2	6		4.262						
2	7		4.739						
2	8		4.986						
2	9		5.346						
2	10		5.547						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	3548214	0.0569		100.0	
1	2	4.207	4.206	0.001	6231616	0.0566	152.2- 202.2	175.6	
1	3	4.488	4.488	0.000	5911628	0.0549	146.4- 196.4	166.6	
1	4	5.189	5.190	-0.001	6994915	0.0541	180.7- 230.7	197.1	
1	5	5.475	5.473	0.002	3337163	0.0573	64.1- 114.1	94.1	
			Average of Peak Amounts =			0.0559			
2	6	4.948	4.948	0.000	3733214	0.0543		100.0	
2	7	5.179	5.178	0.001	4417877	0.0553	87.6- 147.6	118.3	
2	8	5.547	5.546	0.001	6459552	0.0547	144.7- 204.7	173.0	
2	9	6.232	6.231	0.001	8030616	0.0551	187.7- 247.7	215.1	
2	10	6.614	6.611	0.003	5529649	0.0572	115.0- 175.0	148.1	
			Average of Peak Amounts =			0.0553			
						RPD = 1.14			
9 PCB-1262									
1	100		4.207						
1	2		4.608						
1	3		4.856						
1	4		5.185						
1	5		5.559						
2	6		5.176						
2	7		5.646						
2	8		5.953						
2	9		6.230						
2	10		6.608						
11 PCB-1268									
1	100		5.515						
1	2		5.553						
1	3		5.753						
1	4		6.132						
1	5		6.428						
2	6		6.605						
2	7		6.654						
2	8		6.917						
2	9		7.233						
2	10		7.575						
$ 12 DCB Decachlorobiphenyl									
1	100	6.626	6.625	0.001	4652104	0.003484			
2	2	7.848	7.847	0.001	4889095	0.003356			
						RPD = 3.73			

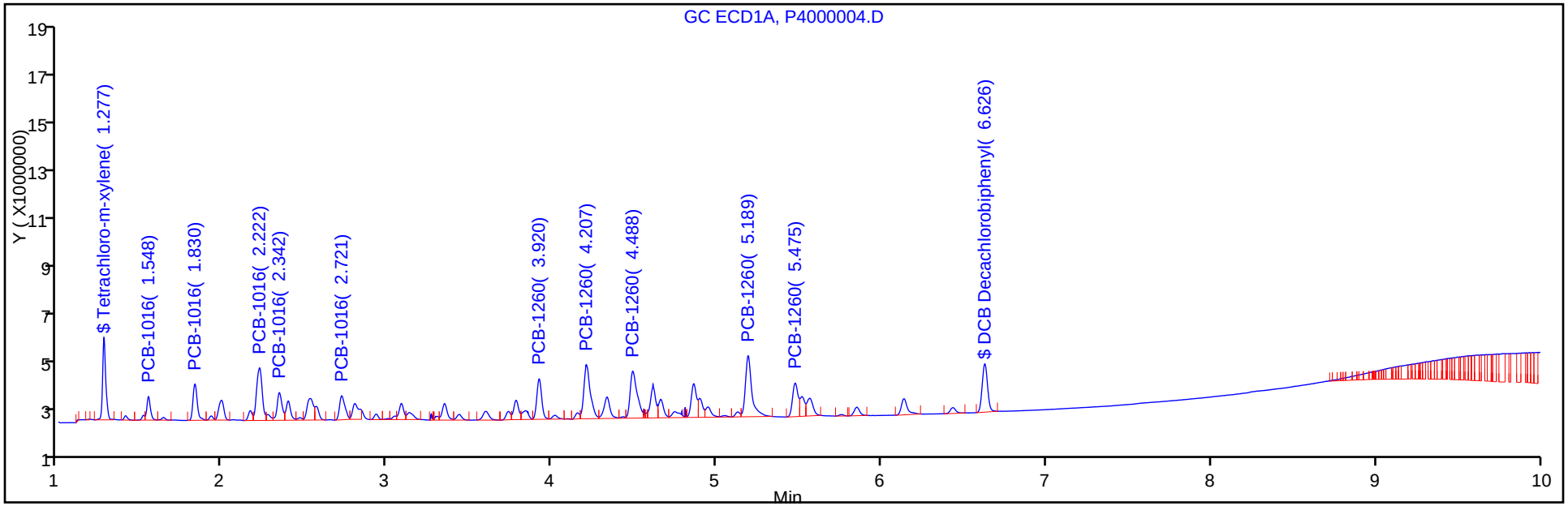
Report Date: 19-Apr-2013 13:11:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

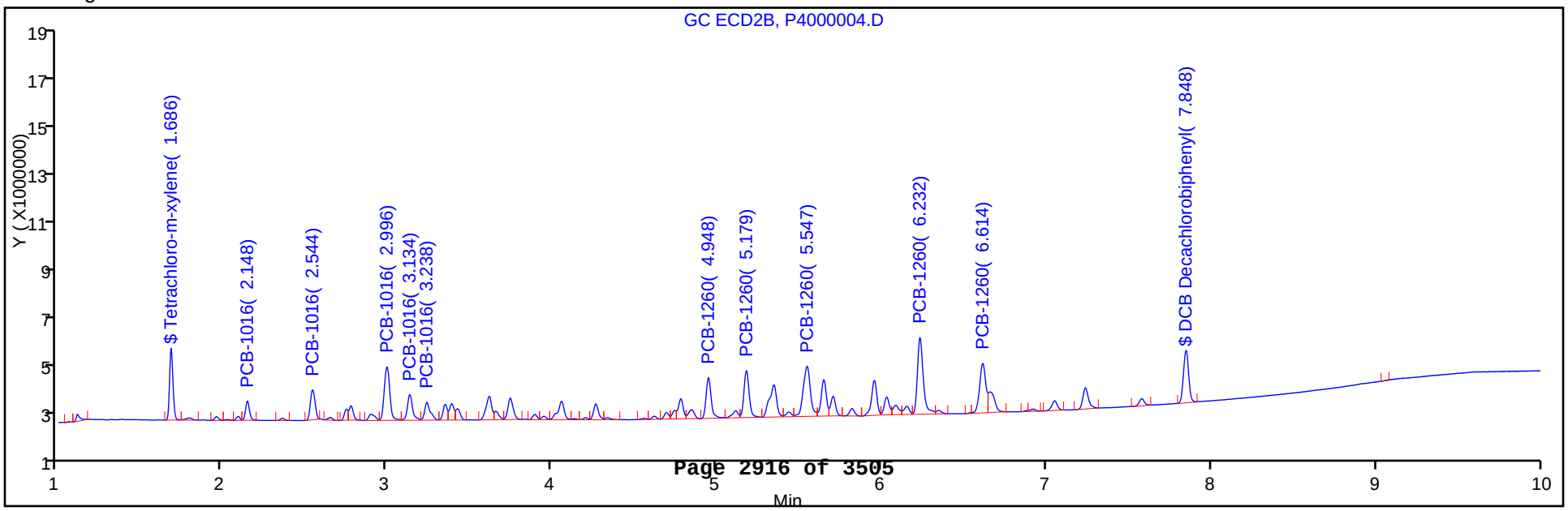
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000004.D

Injection Date:	19-Apr-2013 08:50:51	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-82656/7

Matrix: Solid Lab File ID: P4000007.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/19/2013 09:37

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 82656 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0525*		*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0536*		*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		50-150
2051-24-3	DCB Decachlorobiphenyl	143	*Q*	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000007.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 09:37:43 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019046-007
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 7
Lims Batch ID: 82656 Lims Sample ID: 7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:49 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 13:11:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	4800807	0.003032			
2	2	1.686	1.686	0.000	4498465	0.002851			
						RPD = 6.14			
3 PCB-1221									
1	2		1.407						
1	3		1.516						
1	4		1.545						
2	4		1.958						
2	5		2.089						
2	6		2.147						
4 PCB-1232									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.718						
2	6		2.147						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.719						
2	6		2.146						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						
6 PCB-1016									
1	100	1.548	1.548	0.000	1503379	0.0554		100.0	
1	2	1.830	1.830	0.000	2880599	0.0588	156.0- 206.0	191.6	
1	3	2.223	2.223	0.000	5029165	0.0538	312.4- 362.4	334.5	
1	4	2.343	2.343	0.000	2094641	0.0499	118.7- 188.7	139.3	
1	5	2.721	2.721	0.000	1896371	0.0447	125.6- 175.6	126.1	
			Average of Peak Amounts =			0.0525			
2	6	2.148	2.148	0.000	1445926	0.0564		100.0	
2	7	2.543	2.543	0.000	2803512	0.0552	169.6- 229.6	193.9	
2	8	2.995	2.995	0.000	5377197	0.0541	351.4- 411.4	371.9	
2	9	3.134	3.134	0.000	2392730	0.0544	141.3- 201.3	165.5	
2	10	3.239	3.239	0.000	1840111	0.0537	102.5- 162.5	127.3	
			Average of Peak Amounts =			0.0548			
						RPD = 4.13			
7 PCB-1248									
1	86		1.826						
1	2		2.217						
1	3		2.717						
1	4		3.298						
1	5		3.729						
2	6		2.540						
2	7		2.992						
2	8		3.742						
2	9		4.018						
2	10		4.738						
8 PCB-1254									
1	100		3.342						
1	2		3.730						
1	3		4.014						
1	4		4.202						
1	5		4.486						
2	6		4.262						
2	7		4.739						
2	8		4.986						
2	9		5.346						
2	10		5.547						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	3668150	0.0588		100.0	
1	2	4.208	4.208	0.000	6058214	0.0550	152.2- 202.2	165.2	
1	3	4.488	4.488	0.000	5561467	0.0517	146.4- 196.4	151.6	
1	4	5.190	5.190	0.000	5836488	0.0451	180.7- 230.7	159.1	
1	5	5.475	5.475	0.000	3347375	0.0575	64.1- 114.1	91.3	
			Average of Peak Amounts =			0.0536			
2	6	4.949	4.949	0.000	3776651	0.0549		100.0	
2	7	5.178	5.178	0.000	4362843	0.0547	87.6- 147.6	115.5	
2	8	5.547	5.547	0.000	6467604	0.0547	144.7- 204.7	171.3	
2	9	6.234	6.234	0.000	8206509	0.0563	187.7- 247.7	217.3	
2	10	6.613	6.613	0.000	5666942	0.0586	115.0- 175.0	150.1	
			Average of Peak Amounts =			0.0558			
						RPD = 4.08			
9 PCB-1262									
1	100		4.207						
1	2		4.608						
1	3		4.856						
1	4		5.185						
1	5		5.559						
2	6		5.176						
2	7		5.646						
2	8		5.953						
2	9		6.230						
2	10		6.608						
11 PCB-1268									
1	100		5.515						
1	2		5.553						
1	3		5.753						
1	4		6.132						
1	5		6.428						
2	6		6.605						
2	7		6.654						
2	8		6.917						
2	9		7.233						
2	10		7.575						
$ 12 DCB Decachlorobiphenyl									
1	100	6.627	6.627	0.000	4774869	0.003576			
2	2	7.849	7.849	0.000	5039675	0.003460			
						RPD = 3.30			

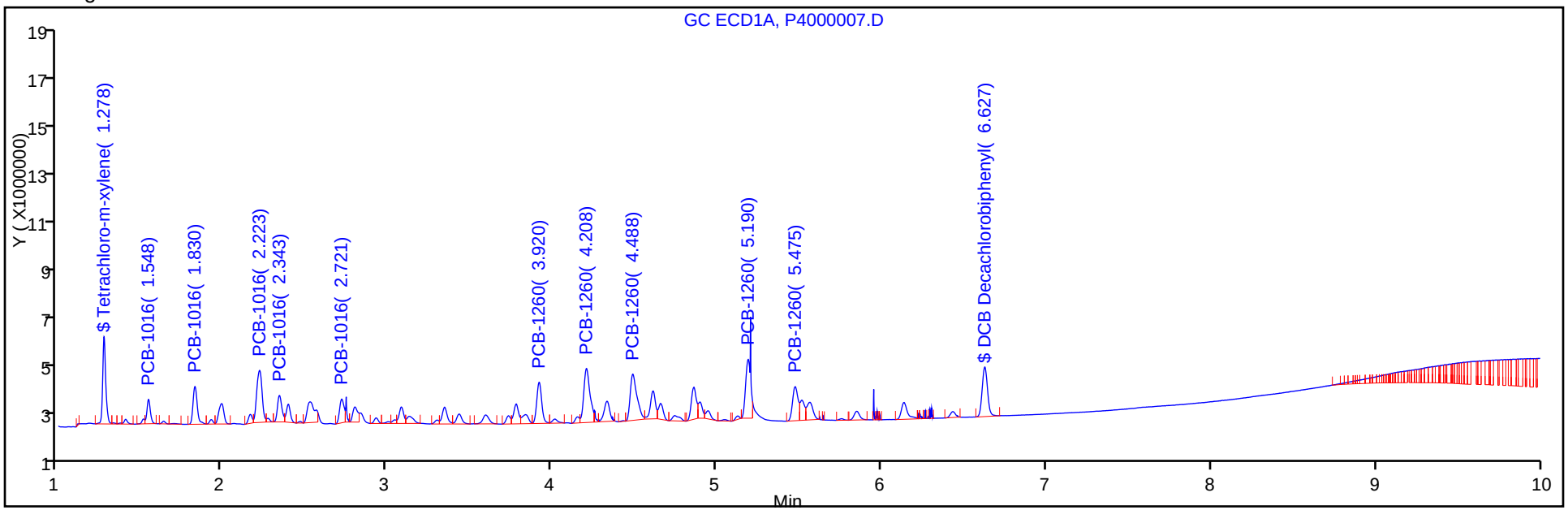
Report Date: 19-Apr-2013 13:11:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

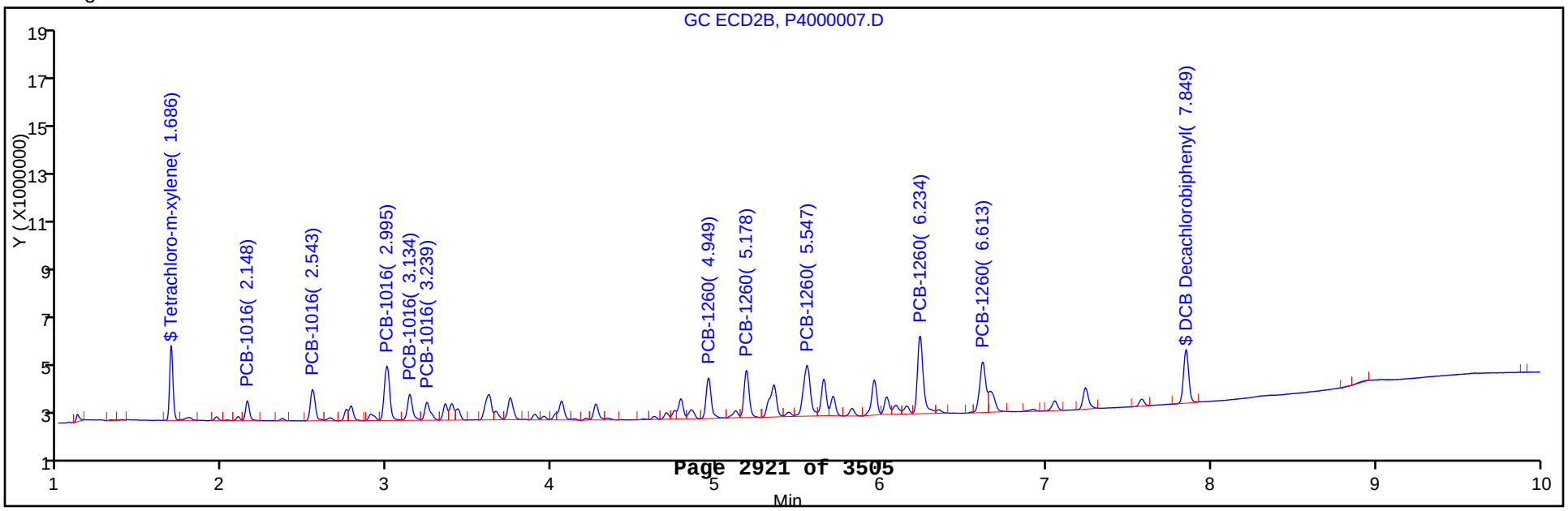
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000007.D

Injection Date:	19-Apr-2013 09:37:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-82656/7

Matrix: Solid | Lab File ID: P4000007.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/19/2013 09:37

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 82656 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0548		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0558		0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	114		50-150
2051-24-3	DCB Decachlorobiphenyl	138	Q	50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000007.D
Lims ID: MRL Client ID:
Inject. Date: 19-Apr-2013 09:37:43 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019046-007
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 7
Lims Batch ID: 82656 Lims Sample ID: 7
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\PCB4.m
Last Update: 19-Apr-2013 13:11:49 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK027

First Level Reviewer: hassl Date: 19-Apr-2013 13:11:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.278	1.278	0.000	4800807	0.003032			
2	2	1.686	1.686	0.000	4498465	0.002851			
						RPD = 6.14			
3 PCB-1221									
1	2		1.407						
1	3		1.516						
1	4		1.545						
2	4		1.958						
2	5		2.089						
2	6		2.147						
4 PCB-1232									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.718						
2	6		2.147						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
5 PCB-1242									
1	100		1.545						
1	2		1.827						
1	3		2.220						
1	4		2.340						
1	5		2.719						
2	6		2.146						
2	7		2.542						
2	8		2.994						
2	9		3.132						
2	10		3.742						
6 PCB-1016									
1	100	1.548	1.548	0.000	1503379	0.0554		100.0	
1	2	1.830	1.830	0.000	2880599	0.0588	156.0- 206.0	191.6	
1	3	2.223	2.223	0.000	5029165	0.0538	312.4- 362.4	334.5	
1	4	2.343	2.343	0.000	2094641	0.0499	118.7- 188.7	139.3	
1	5	2.721	2.721	0.000	1896371	0.0447	125.6- 175.6	126.1	
			Average of Peak Amounts =			0.0525			
2	6	2.148	2.148	0.000	1445926	0.0564		100.0	
2	7	2.543	2.543	0.000	2803512	0.0552	169.6- 229.6	193.9	
2	8	2.995	2.995	0.000	5377197	0.0541	351.4- 411.4	371.9	
2	9	3.134	3.134	0.000	2392730	0.0544	141.3- 201.3	165.5	
2	10	3.239	3.239	0.000	1840111	0.0537	102.5- 162.5	127.3	
			Average of Peak Amounts =			0.0548			
						RPD = 4.13			
7 PCB-1248									
1	86		1.826						
1	2		2.217						
1	3		2.717						
1	4		3.298						
1	5		3.729						
2	6		2.540						
2	7		2.992						
2	8		3.742						
2	9		4.018						
2	10		4.738						
8 PCB-1254									
1	100		3.342						
1	2		3.730						
1	3		4.014						
1	4		4.202						
1	5		4.486						
2	6		4.262						
2	7		4.739						
2	8		4.986						
2	9		5.346						
2	10		5.547						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									
1	100	3.920	3.920	0.000	3668150	0.0588		100.0	
1	2	4.208	4.208	0.000	6058214	0.0550	152.2- 202.2	165.2	
1	3	4.488	4.488	0.000	5561467	0.0517	146.4- 196.4	151.6	
1	4	5.190	5.190	0.000	5836488	0.0451	180.7- 230.7	159.1	
1	5	5.475	5.475	0.000	3347375	0.0575	64.1- 114.1	91.3	
			Average of Peak Amounts =			0.0536			
2	6	4.949	4.949	0.000	3776651	0.0549		100.0	
2	7	5.178	5.178	0.000	4362843	0.0547	87.6- 147.6	115.5	
2	8	5.547	5.547	0.000	6467604	0.0547	144.7- 204.7	171.3	
2	9	6.234	6.234	0.000	8206509	0.0563	187.7- 247.7	217.3	
2	10	6.613	6.613	0.000	5666942	0.0586	115.0- 175.0	150.1	
			Average of Peak Amounts =			0.0558			
						RPD = 4.08			
9 PCB-1262									
1	100		4.207						
1	2		4.608						
1	3		4.856						
1	4		5.185						
1	5		5.559						
2	6		5.176						
2	7		5.646						
2	8		5.953						
2	9		6.230						
2	10		6.608						
11 PCB-1268									
1	100		5.515						
1	2		5.553						
1	3		5.753						
1	4		6.132						
1	5		6.428						
2	6		6.605						
2	7		6.654						
2	8		6.917						
2	9		7.233						
2	10		7.575						
$ 12 DCB Decachlorobiphenyl									
1	100	6.627	6.627	0.000	4774869	0.003576			
2	2	7.849	7.849	0.000	5039675	0.003460			
						RPD = 3.30			

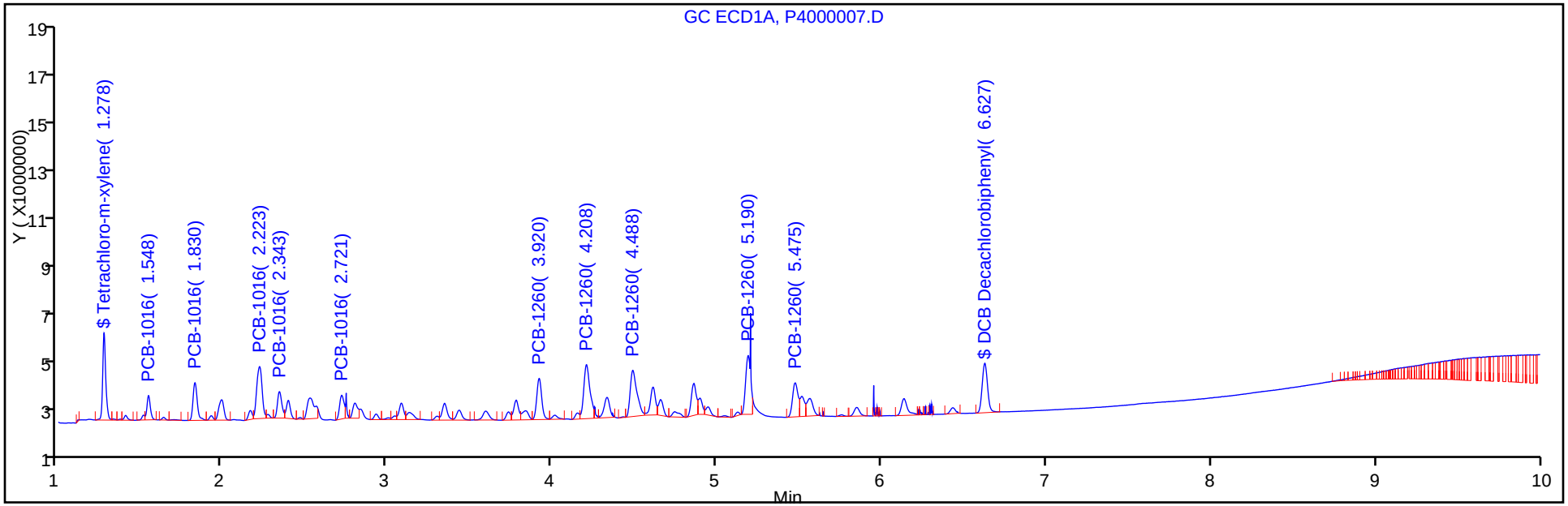
Report Date: 19-Apr-2013 13:11:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

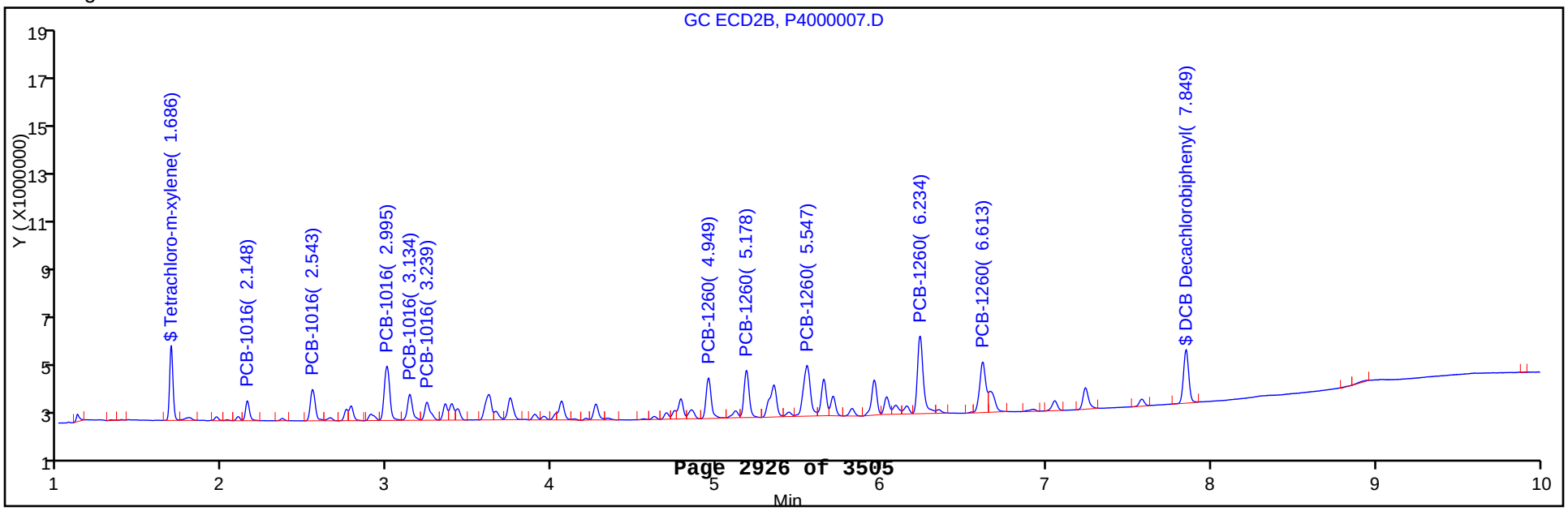
Data File: \\Ncchrom\ChromData\A2HP4\20130419-19046.b\P4000007.D

Injection Date:	19-Apr-2013 09:37:43	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	82656	Lims Sample ID:	7
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-83996/4

Matrix: Solid Lab File ID: P4000004.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/29/2013 08:34

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0432*	*J*	*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0332*	*J ^*	*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	105		50-150
2051-24-3	DCB Decachlorobiphenyl	107		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 29-Apr-2013 08:34:05 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019366-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 83996 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:20 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:54:19

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.291	1.291	0.000	4166553	0.002631			
2	2	1.702	1.700	0.002	3705226	0.002348			
						RPD = 11.36			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100	1.563	1.562	0.001	1351645	0.0498		100.0	
1	2	1.847	1.846	0.001	2492769	0.0509	156.0- 206.0	184.4	
1	3	2.242	2.241	0.001	3943005	0.0422	312.4- 362.4	291.7	
1	4	2.363	2.361	0.002	1399045	0.0333	118.7- 188.7	103.5	
1	5	2.742	2.741	0.001	1687885	0.0398	125.6- 175.6	124.9	
			Average of Peak Amounts =			0.0432			
2	6	2.166	2.165	0.001	1123810	0.0438		100.0	
2	7	2.563	2.561	0.002	2304886	0.0454	169.6- 229.6	205.1	
2	8	3.018	3.016	0.002	4244584	0.0427	351.4- 411.4	377.7	
2	9	3.156	3.155	0.001	2004687	0.0455	141.3- 201.3	178.4	
2	10	3.261	3.259	0.002	1505326	0.0439	102.5- 162.5	133.9	
			Average of Peak Amounts =			0.0443			
						RPD = 2.45			
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									M
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.943	3.941	0.002	2836995	0.0455		100.0	
1	2	4.244	4.231	0.013	4148727	0.0377	152.2- 202.2	146.2	M
1	3	4.513	4.516	-0.003	4061161	0.0377	146.4- 196.4	143.2	M
1	4	5.218	5.215	0.003	4174790	0.0323	180.7- 230.7	147.2	M
1	5	5.503	5.506	-0.003	753302	0.0129	64.1- 114.1	26.6	M
			Average of Peak Amounts =			0.0332			
2	6	4.971	4.969	0.002	2923988	0.0425		100.0	
2	7	5.203	5.201	0.002	3524137	0.0441	87.6- 147.6	120.5	
2	8	5.572	5.570	0.002	4692544	0.0397	144.7- 204.7	160.5	
2	9	6.259	6.256	0.003	5892904	0.0404	187.7- 247.7	201.5	
2	10	6.639	6.636	0.003	5293120	0.0548	115.0- 175.0	181.0	M
			Average of Peak Amounts =			0.0443			
						RPD = 28.63			
9 PCB-1262									
1	100		4.221						
1	2		4.623						
1	3		4.870						
1	4		5.198						
1	5		5.573						
2	6		5.190						
2	7		5.660						
2	8		5.968						
2	9		6.243						
2	10		6.622						
11 PCB-1268									
1	100		5.530						
1	2		5.568						
1	3		5.766						
1	4		6.144						
1	5		6.442						
2	6		6.620						
2	7		6.668						
2	8		6.931						
2	9		7.247						
2	10		7.590						
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	3565057	0.002670			
2	2	7.872	7.869	0.003	3732705	0.002563			
						RPD = 4.11			

QC Flag Legend

Review Flags
M - Manually Integrated

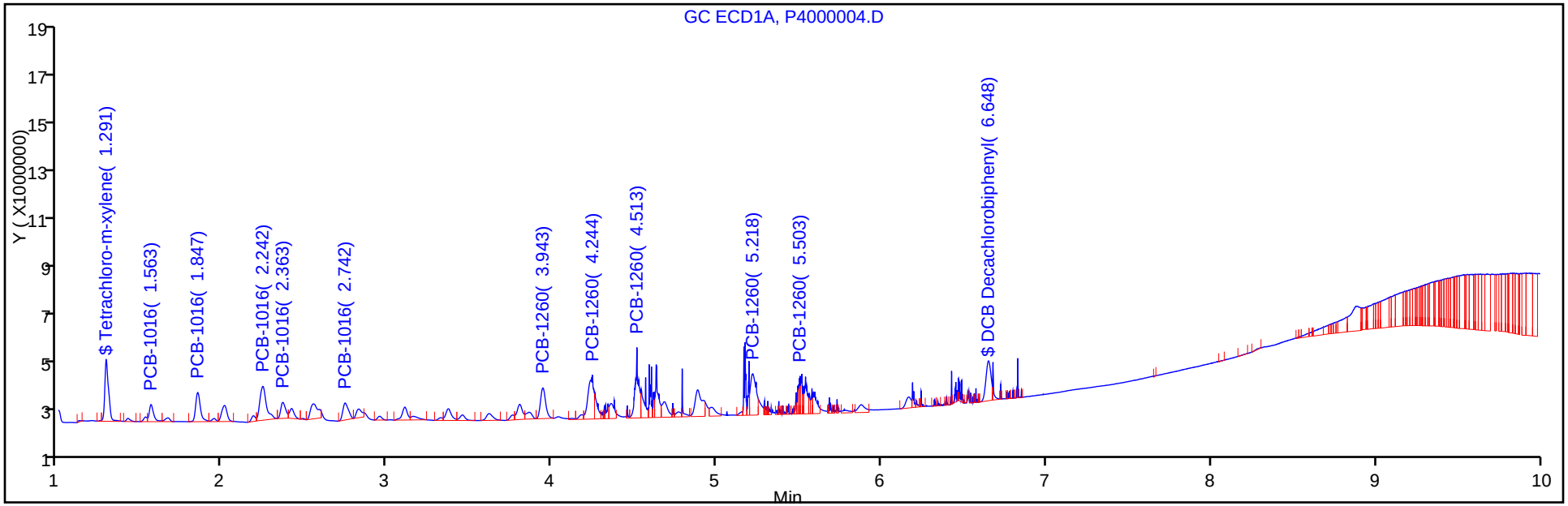
Report Date: 29-Apr-2013 15:57:22 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

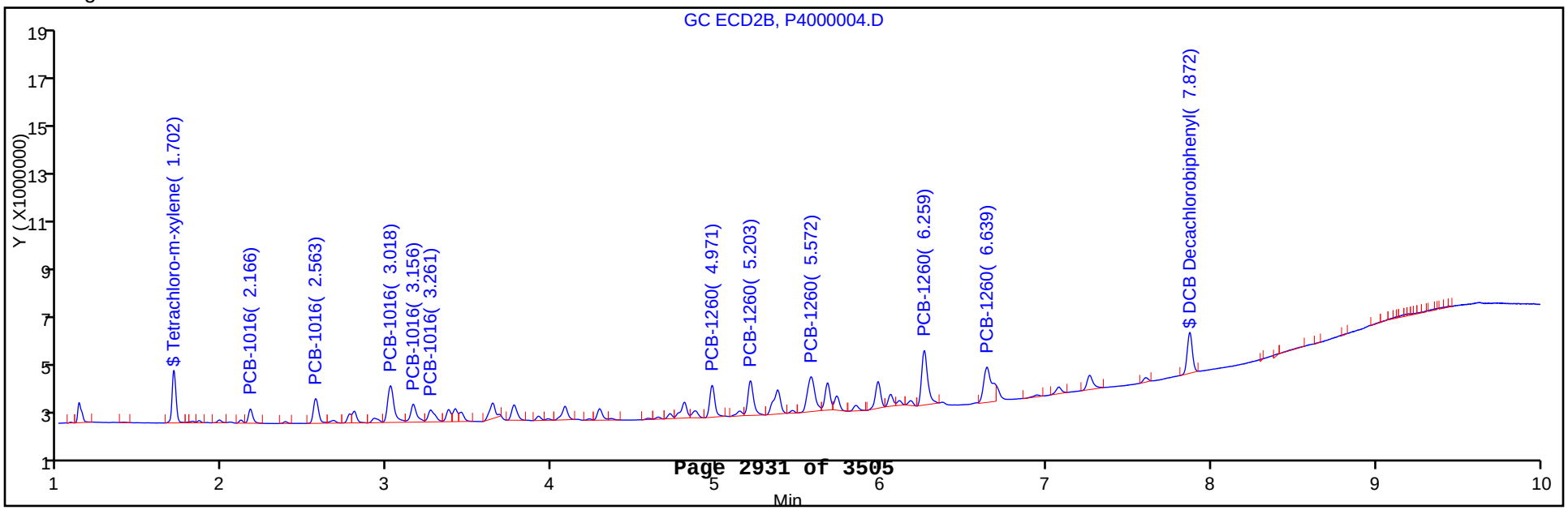
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000004.D

Injection Date:	29-Apr-2013 08:34:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



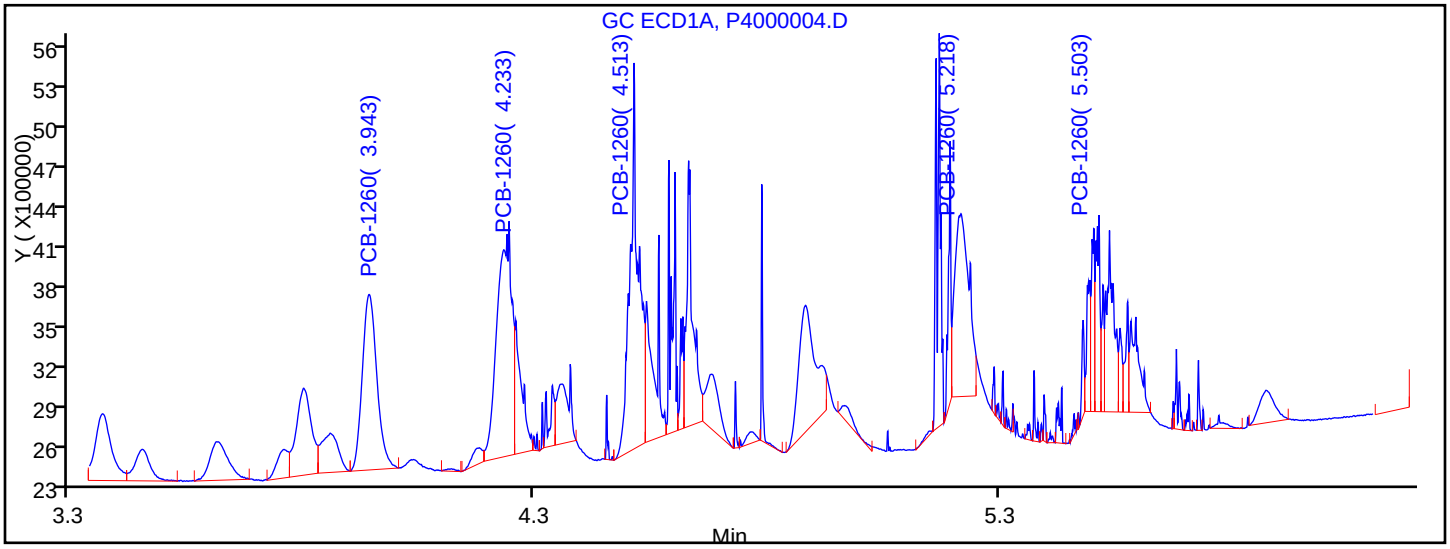
Report Date: 29-Apr-2013 15:57:22 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000004.D

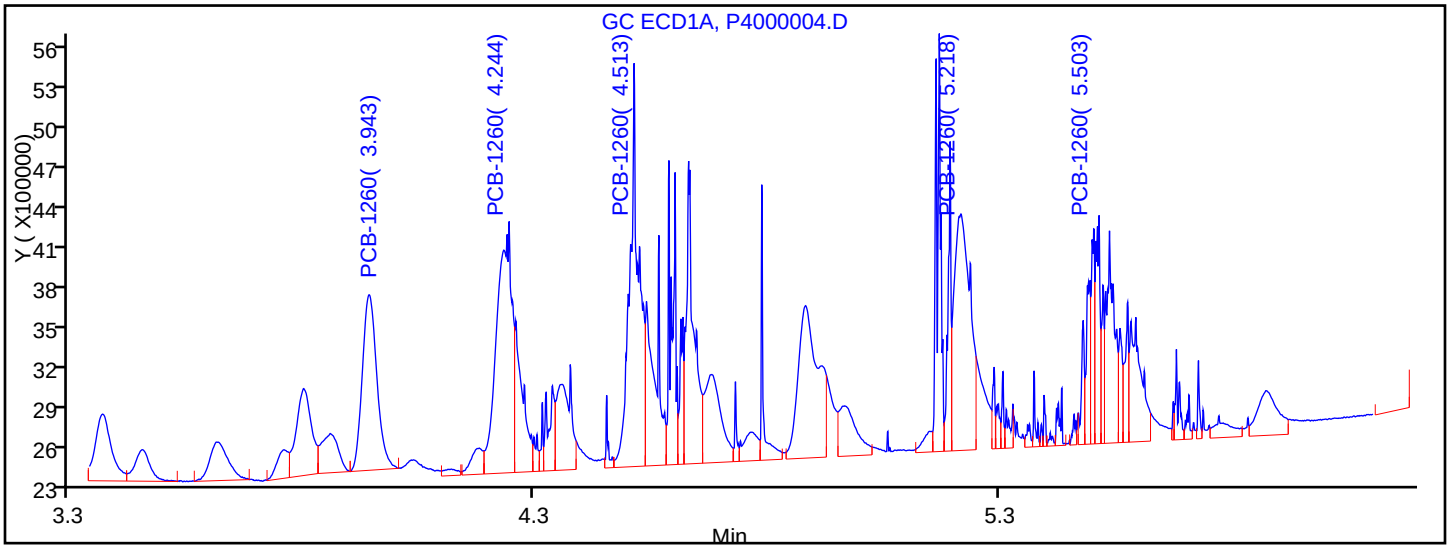
Injection Date:	29-Apr-2013 08:34:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.943	Response = 2836995	
RT = 4.233	Response = 3708705	M
RT = 4.513	Response = 3609736	M
RT = 5.218	Response = 2928899	M
RT = 5.503	Response = 622994	M



Manual Integration Results

RT = 3.943	Response = 2836995	
RT = 4.244	Response = 4148727	M
RT = 4.513	Response = 4061161	M
RT = 5.218	Response = 4174790	M
RT = 5.503	Response = 753302	M

Reviewer: hassl, 29-Apr-2013 15:54:19

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MRL 240-83996/4

Matrix: Solid | Lab File ID: P4000004.D

Analysis Method: 8082/DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/29/2013 08:34

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83996 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0443	J	0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0443	J	0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		50-150
2051-24-3	DCB Decachlorobiphenyl	103		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000004.D
Lims ID: MRL Client ID:
Inject. Date: 29-Apr-2013 08:34:05 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019366-004
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 4
Lims Batch ID: 83996 Lims Sample ID: 4
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:20 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:54:19

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.291	1.291	0.000	4166553	0.002631			
2	2	1.702	1.700	0.002	3705226	0.002348			
						RPD = 11.36			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100	1.563	1.562	0.001	1351645	0.0498		100.0	
1	2	1.847	1.846	0.001	2492769	0.0509	156.0- 206.0	184.4	
1	3	2.242	2.241	0.001	3943005	0.0422	312.4- 362.4	291.7	
1	4	2.363	2.361	0.002	1399045	0.0333	118.7- 188.7	103.5	
1	5	2.742	2.741	0.001	1687885	0.0398	125.6- 175.6	124.9	
			Average of Peak Amounts =			0.0432			
2	6	2.166	2.165	0.001	1123810	0.0438		100.0	
2	7	2.563	2.561	0.002	2304886	0.0454	169.6- 229.6	205.1	
2	8	3.018	3.016	0.002	4244584	0.0427	351.4- 411.4	377.7	
2	9	3.156	3.155	0.001	2004687	0.0455	141.3- 201.3	178.4	
2	10	3.261	3.259	0.002	1505326	0.0439	102.5- 162.5	133.9	
			Average of Peak Amounts =			0.0443			
						RPD = 2.45			
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									M
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.943	3.941	0.002	2836995	0.0455		100.0	
1	2	4.244	4.231	0.013	4148727	0.0377	152.2- 202.2	146.2	M
1	3	4.513	4.516	-0.003	4061161	0.0377	146.4- 196.4	143.2	M
1	4	5.218	5.215	0.003	4174790	0.0323	180.7- 230.7	147.2	M
1	5	5.503	5.506	-0.003	753302	0.0129	64.1- 114.1	26.6	M
			Average of Peak Amounts =			0.0332			
2	6	4.971	4.969	0.002	2923988	0.0425		100.0	
2	7	5.203	5.201	0.002	3524137	0.0441	87.6- 147.6	120.5	
2	8	5.572	5.570	0.002	4692544	0.0397	144.7- 204.7	160.5	
2	9	6.259	6.256	0.003	5892904	0.0404	187.7- 247.7	201.5	
2	10	6.639	6.636	0.003	5293120	0.0548	115.0- 175.0	181.0	M
			Average of Peak Amounts =			0.0443			
						RPD = 28.63			
9 PCB-1262									
1	100		4.221						
1	2		4.623						
1	3		4.870						
1	4		5.198						
1	5		5.573						
2	6		5.190						
2	7		5.660						
2	8		5.968						
2	9		6.243						
2	10		6.622						
11 PCB-1268									
1	100		5.530						
1	2		5.568						
1	3		5.766						
1	4		6.144						
1	5		6.442						
2	6		6.620						
2	7		6.668						
2	8		6.931						
2	9		7.247						
2	10		7.590						
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.648	0.000	3565057	0.002670			
2	2	7.872	7.869	0.003	3732705	0.002563			
						RPD = 4.11			

QC Flag Legend

Review Flags
M - Manually Integrated

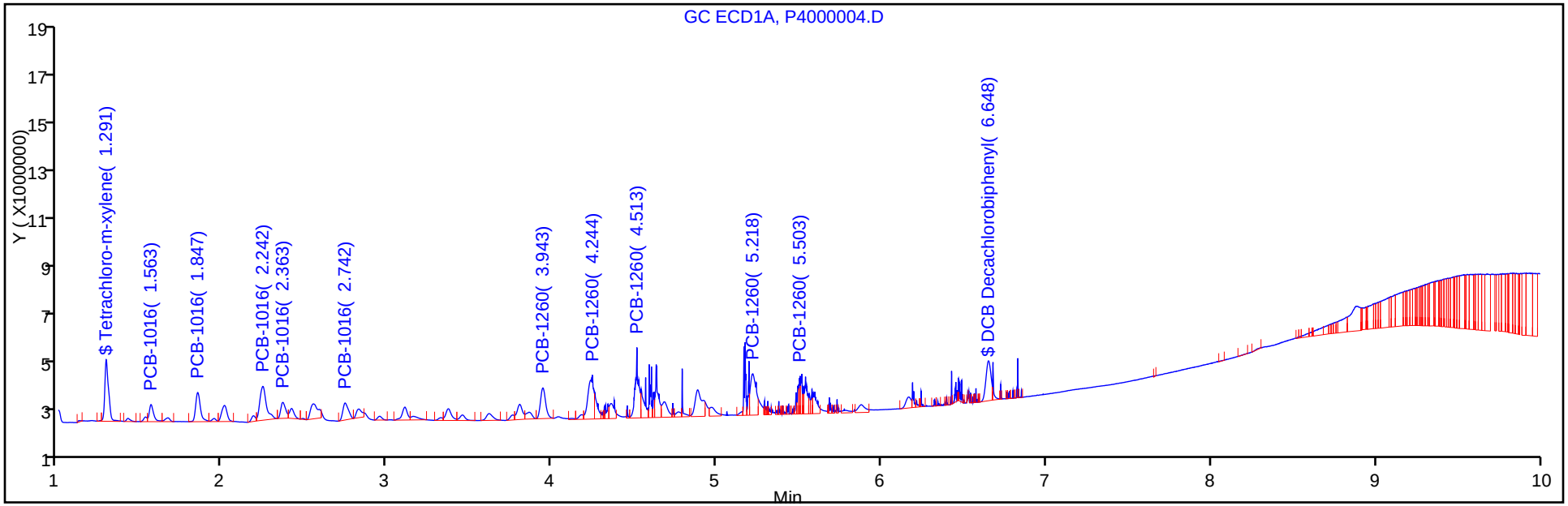
Report Date: 29-Apr-2013 15:57:22 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

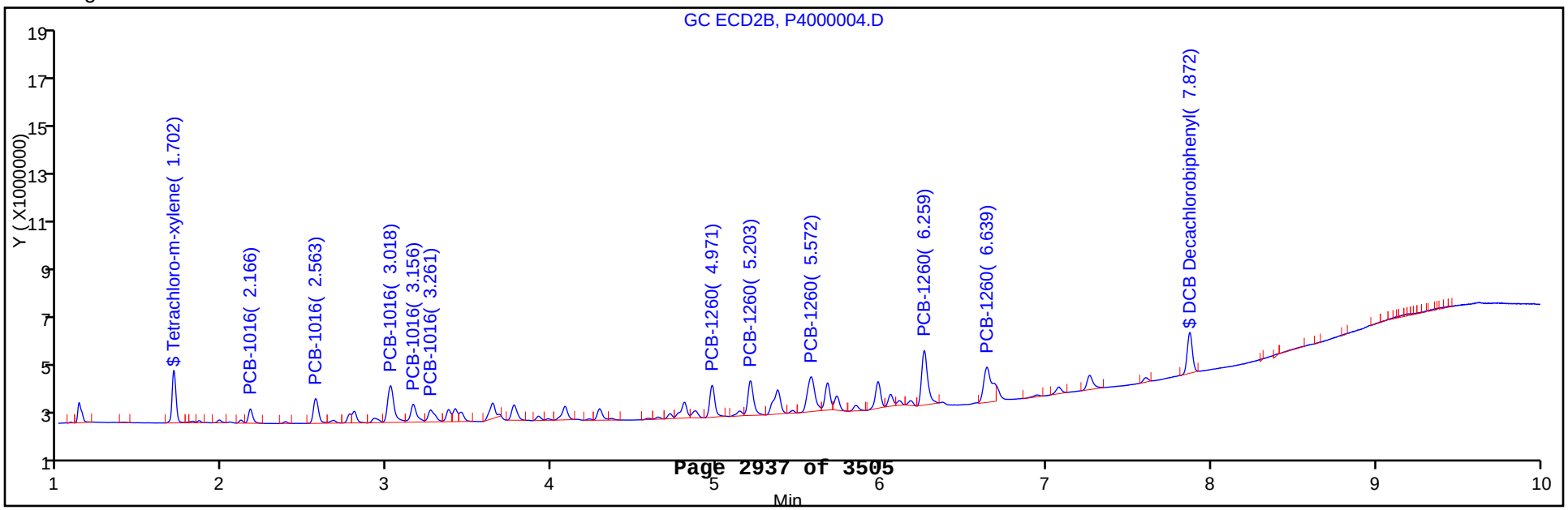
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000004.D

Injection Date:	29-Apr-2013 08:34:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



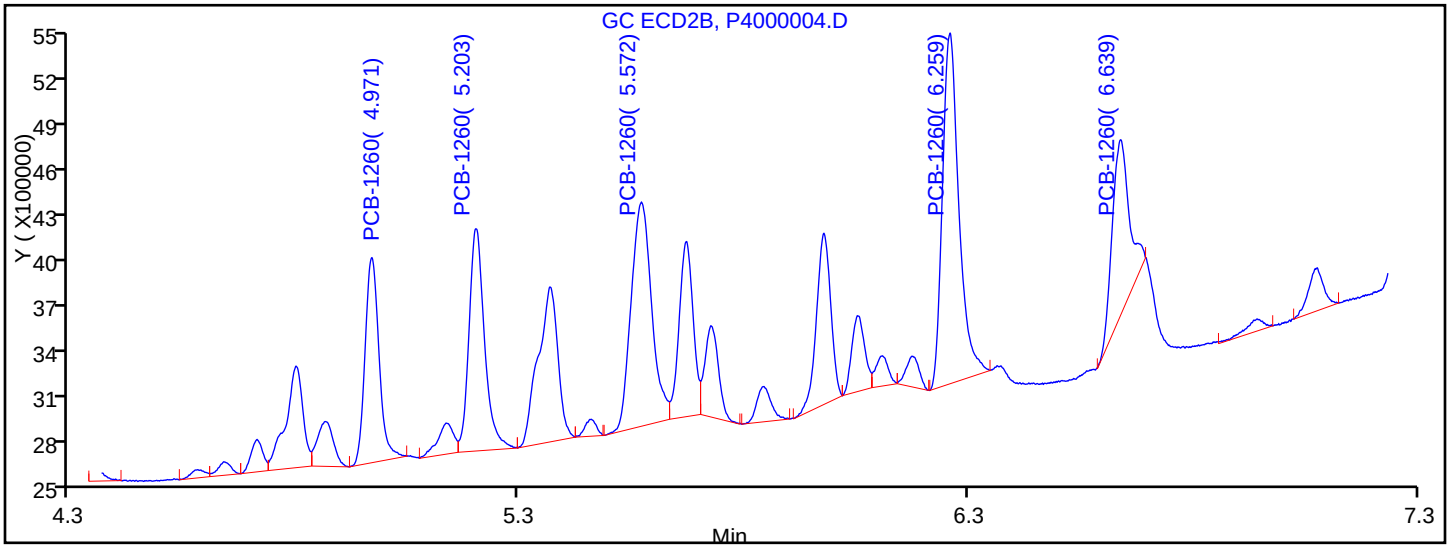
Report Date: 29-Apr-2013 15:57:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000004.D

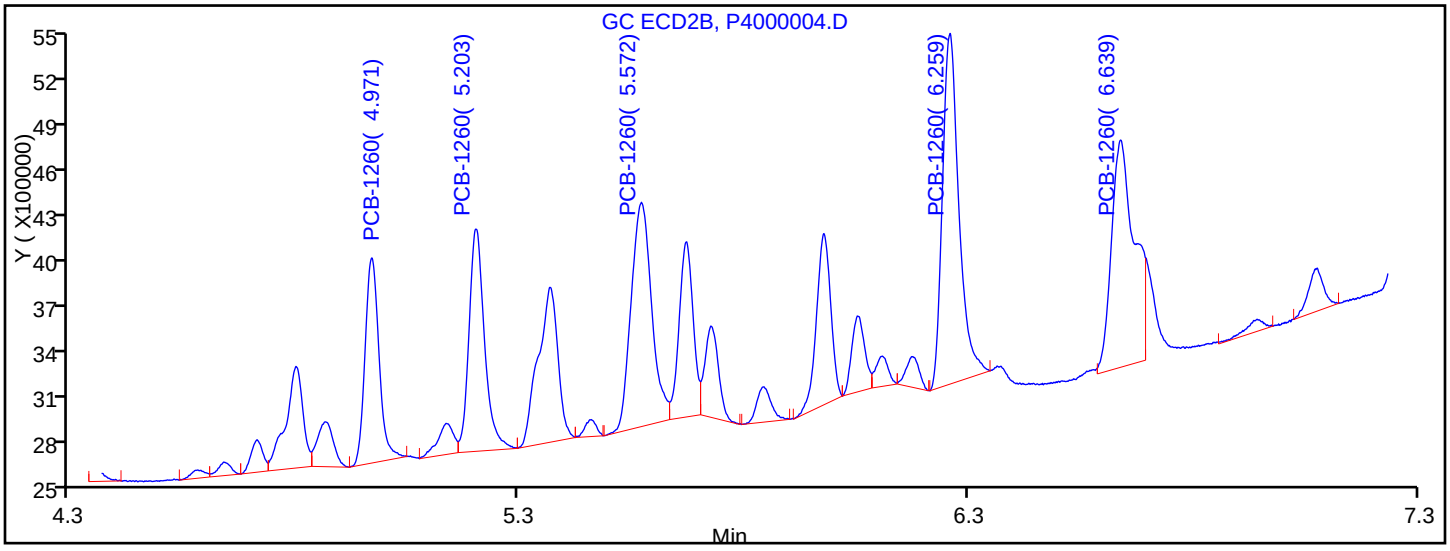
Injection Date:	29-Apr-2013 08:34:05	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	4
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.971	Response = 2923988	
RT = 5.203	Response = 3524137	
RT = 5.572	Response = 4692544	
RT = 6.259	Response = 5892904	
RT = 6.639	Response = 3035401	M



Manual Integration Results

RT = 4.971	Response = 2923988	
RT = 5.203	Response = 3524137	
RT = 5.572	Response = 4692544	
RT = 6.259	Response = 5892904	
RT = 6.639	Response = 5293120	M

Reviewer: hassl, 29-Apr-2013 15:54:19

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-83996/10

Matrix: Solid Lab File ID: P4000010.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/29/2013 10:06

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0466*	*J*	*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0458*	*J*	*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		50-150
2051-24-3	DCB Decachlorobiphenyl	122		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000010.D
Lims ID: MRL Client ID:
Inject. Date: 29-Apr-2013 10:06:34 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019366-010
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 10
Lims Batch ID: 83996 Lims Sample ID: 10
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:26 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:50:57

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.292	1.292	0.000	4134639	0.002611			
2	2	1.703	1.702	0.001	3607543	0.002286			
						RPD = 13.25			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100	1.564	1.564	0.000	1360386	0.0501		100.0	
1	2	1.848	1.847	0.001	2516584	0.0514	156.0- 206.0	185.0	
1	3	2.243	2.243	0.000	4276835	0.0458	312.4- 362.4	314.4	
1	4	2.363	2.365	-0.002	1598881	0.0381	118.7- 188.7	117.5	
1	5	2.743	2.743	0.000	2017184	0.0476	125.6- 175.6	148.3	
			Average of Peak Amounts =			0.0466			
2	6	2.167	2.166	0.001	1025340	0.0400		100.0	
2	7	2.564	2.564	0.000	2179858	0.0429	169.6- 229.6	212.6	
2	8	3.018	3.019	-0.001	4124353	0.0415	351.4- 411.4	402.2	
2	9	3.158	3.157	0.001	1848179	0.0420	141.3- 201.3	180.3	
2	10	3.262	3.261	0.001	1482815	0.0433	102.5- 162.5	144.6	
			Average of Peak Amounts =			0.0419			
						RPD = 10.52			
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.944	3.943	0.001	3080567	0.0494		100.0	
1	2	4.235	4.232	0.003	5324086	0.0483	152.2- 202.2	172.8	
1	3	4.519	4.517	0.002	4568800	0.0424	146.4- 196.4	148.3	
1	4	5.218	5.216	0.002	6059332	0.0468	180.7- 230.7	196.7	
1	5	5.508	5.505	0.003	2441543	0.0419	64.1- 114.1	79.3	M
			Average of Peak Amounts =			0.0458			
2	6	4.973	4.971	0.002	2984668	0.0434		100.0	
2	7	5.203	5.203	0.000	3223588	0.0404	87.6- 147.6	108.0	
2	8	5.575	5.570	0.005	4734445	0.0401	144.7- 204.7	158.6	
2	9	6.259	6.258	0.001	6374618	0.0437	187.7- 247.7	213.6	
2	10	6.639	6.639	0.000	2921328	0.0302	115.0- 175.0	97.9	M
			Average of Peak Amounts =			0.0396			
						RPD = 14.59			
9 PCB-1262									
1	100		4.221						
1	2		4.623						
1	3		4.870						
1	4		5.198						
1	5		5.573						
2	6		5.190						
2	7		5.660						
2	8		5.968						
2	9		6.243						
2	10		6.622						
11 PCB-1268									
1	100		5.530						
1	2		5.568						
1	3		5.766						
1	4		6.144						
1	5		6.442						
2	6		6.620						
2	7		6.668						
2	8		6.931						
2	9		7.247						
2	10		7.590						
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.649	-0.001	4056857	0.003038			
2	2	7.872	7.871	0.001	3976558	0.002730			
						RPD = 10.69			

QC Flag Legend

Review Flags
M - Manually Integrated

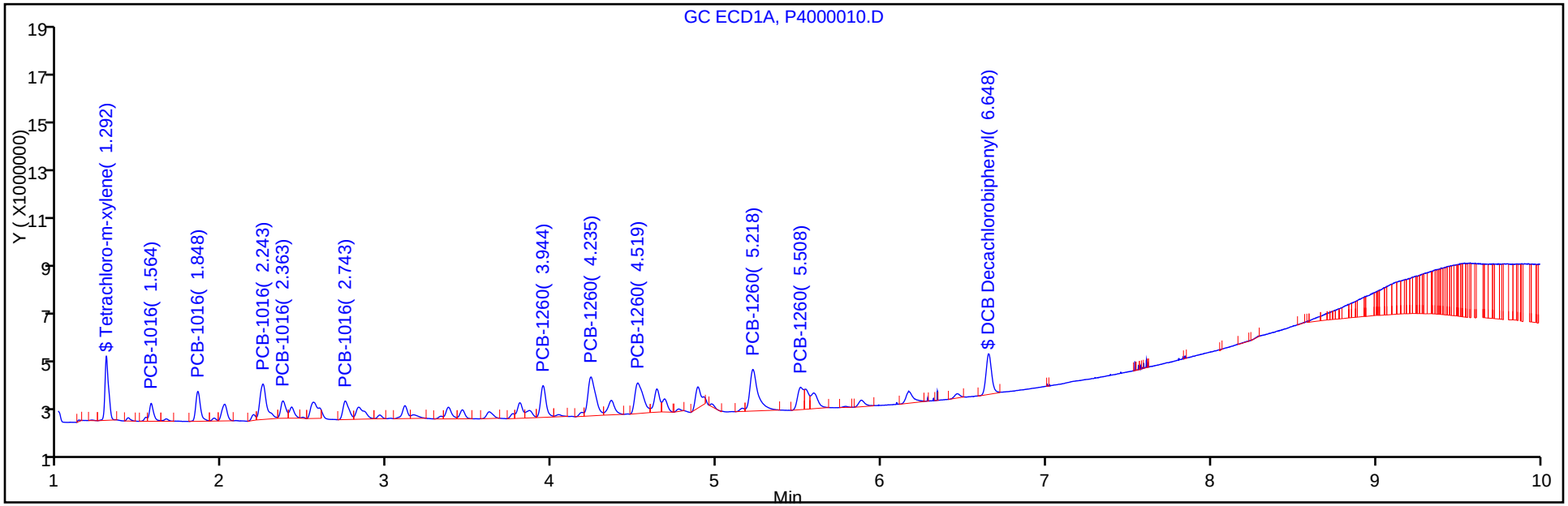
Report Date: 29-Apr-2013 15:57:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

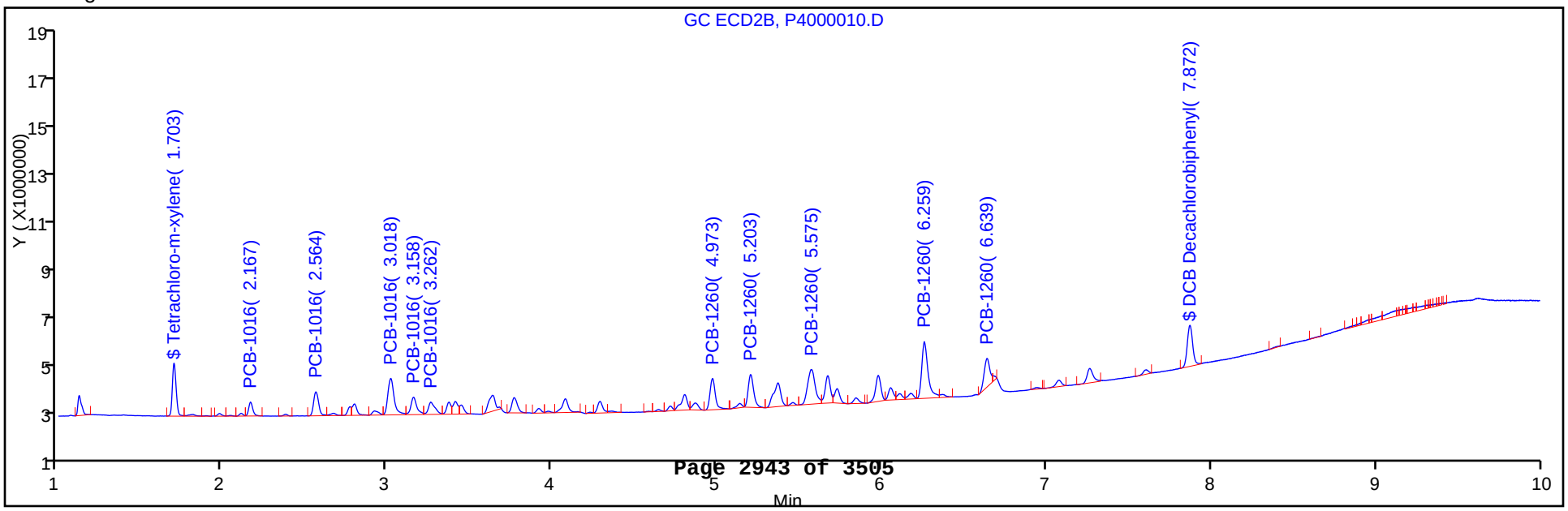
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000010.D

Injection Date:	29-Apr-2013 10:06:34	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



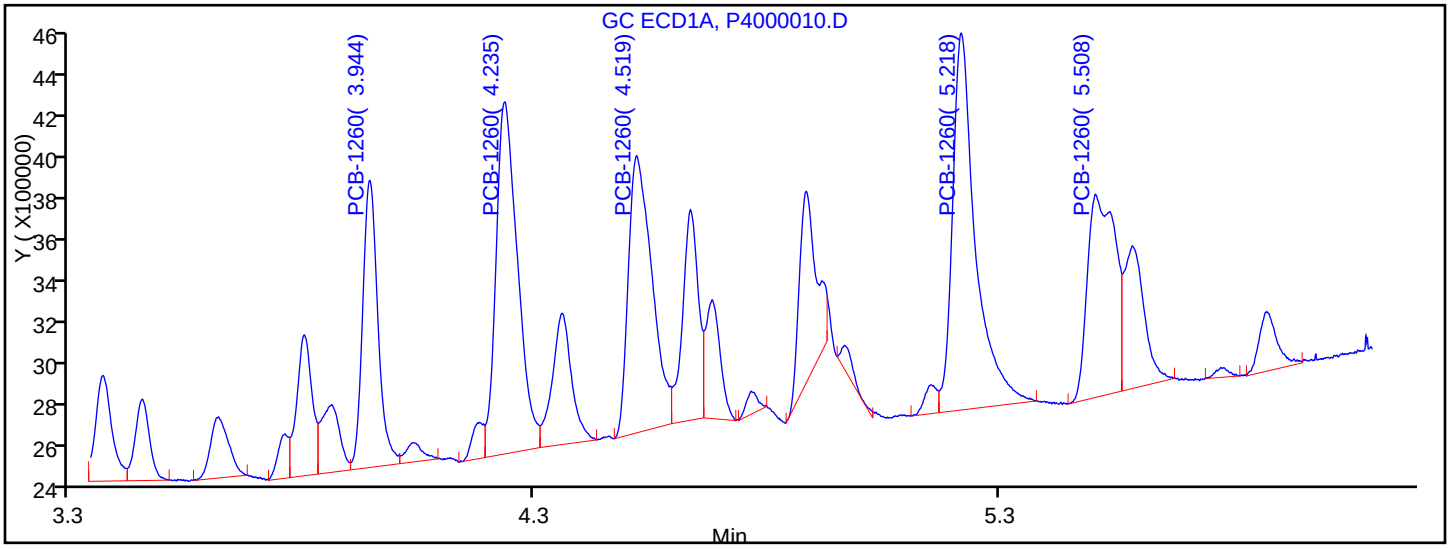
Report Date: 29-Apr-2013 15:57:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000010.D

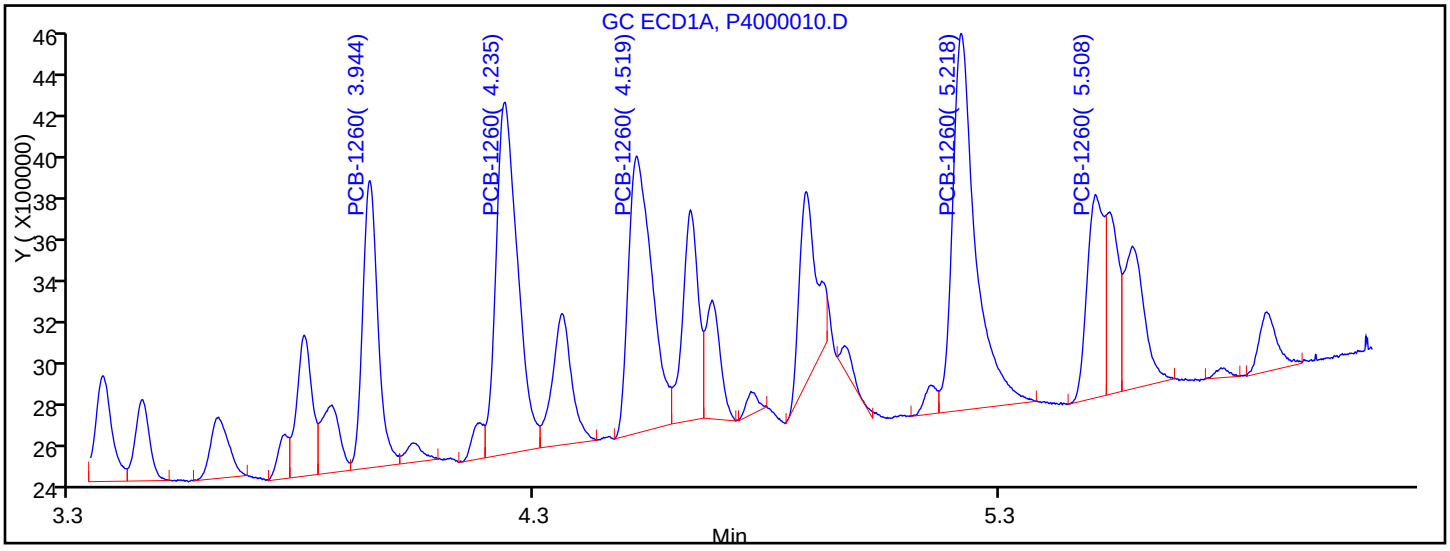
Injection Date:	29-Apr-2013 10:06:34	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.944	Response = 3080567	
RT = 4.235	Response = 5324086	
RT = 4.519	Response = 4568800	
RT = 5.218	Response = 6059332	
RT = 5.508	Response = 3923187	M



Manual Integration Results

RT = 3.944	Response = 3080567	
RT = 4.235	Response = 5324086	
RT = 4.519	Response = 4568800	
RT = 5.218	Response = 6059332	
RT = 5.508	Response = 2441543	M

Reviewer: hassl, 29-Apr-2013 15:50:57

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MRL 240-83996/10

Matrix: Solid Lab File ID: P4000010.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/29/2013 10:06

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 83996 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0419	J	0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0396	J	0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		50-150
2051-24-3	DCB Decachlorobiphenyl	109		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000010.D
Lims ID: MRL Client ID:
Inject. Date: 29-Apr-2013 10:06:34 Dil. Factor: 1.0000
Sample Type: MRL
Sample ID: 240-0019366-010
Misc. Info.:
Operator: Instrument ID: A2HP4
Injection Vol: 1.0 uL ALS Bottle#: 10
Lims Batch ID: 83996 Lims Sample ID: 10
Detector 1 : GC ECD1A
Detector 2 : GC ecd2b

Method: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\PCB4.m
Last Update: 29-Apr-2013 15:57:26 Calib Date: 15-Apr-2013 10:24:45
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP4\20130412-18824.b\P4000044.D
Limit Group: GC 8082A ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK031

First Level Reviewer: hassl Date: 29-Apr-2013 15:50:57

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
S 1 Polychlorinated biphenyls, Total									
1	100		1.000						
$ 2 Tetrachloro-m-xylene									
1	44	1.292	1.292	0.000	4134639	0.002611			
2	2	1.703	1.702	0.001	3607543	0.002286			
						RPD = 13.25			
3 PCB-1221									
1	2		1.417						
1	3		1.526						
1	4		1.556						
2	4		1.971						
2	5		2.102						
2	6		2.160						
5 PCB-1242									
1	100		1.554						
1	2		1.838						
1	3		2.232						
1	4		2.352						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.008						
2	9		3.145						
2	10		3.756						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
4 PCB-1232									
1	100		1.555						
1	2		1.837						
1	3		2.230						
1	4		2.351						
1	5		2.730						
2	6		2.157						
2	7		2.554						
2	8		3.006						
2	9		3.145						
2	10		3.755						
6 PCB-1016									
1	100	1.564	1.564	0.000	1360386	0.0501		100.0	
1	2	1.848	1.847	0.001	2516584	0.0514	156.0- 206.0	185.0	
1	3	2.243	2.243	0.000	4276835	0.0458	312.4- 362.4	314.4	
1	4	2.363	2.365	-0.002	1598881	0.0381	118.7- 188.7	117.5	
1	5	2.743	2.743	0.000	2017184	0.0476	125.6- 175.6	148.3	
			Average of Peak Amounts =			0.0466			
2	6	2.167	2.166	0.001	1025340	0.0400		100.0	
2	7	2.564	2.564	0.000	2179858	0.0429	169.6- 229.6	212.6	
2	8	3.018	3.019	-0.001	4124353	0.0415	351.4- 411.4	402.2	
2	9	3.158	3.157	0.001	1848179	0.0420	141.3- 201.3	180.3	
2	10	3.262	3.261	0.001	1482815	0.0433	102.5- 162.5	144.6	
			Average of Peak Amounts =			0.0419			
						RPD = 10.52			
7 PCB-1248									
1	86		1.838						
1	2		2.230						
1	3		2.731						
1	4		3.311						
1	5		3.742						
2	6		2.553						
2	7		3.005						
2	8		3.755						
2	9		4.031						
2	10		4.753						
8 PCB-1254									
1	100		3.356						
1	2		3.742						
1	3		4.029						
1	4		4.216						
1	5		4.499						
2	6		4.276						
2	7		4.753						
2	8		5.001						
2	9		5.360						
2	10		5.561						

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ul	Ratio Range	Ratio	Flags
10 PCB-1260									M
1	100	3.944	3.943	0.001	3080567	0.0494		100.0	
1	2	4.235	4.232	0.003	5324086	0.0483	152.2- 202.2	172.8	
1	3	4.519	4.517	0.002	4568800	0.0424	146.4- 196.4	148.3	
1	4	5.218	5.216	0.002	6059332	0.0468	180.7- 230.7	196.7	
1	5	5.508	5.505	0.003	2441543	0.0419	64.1- 114.1	79.3	M
			Average of Peak Amounts =			0.0458			
2	6	4.973	4.971	0.002	2984668	0.0434		100.0	
2	7	5.203	5.203	0.000	3223588	0.0404	87.6- 147.6	108.0	
2	8	5.575	5.570	0.005	4734445	0.0401	144.7- 204.7	158.6	
2	9	6.259	6.258	0.001	6374618	0.0437	187.7- 247.7	213.6	
2	10	6.639	6.639	0.000	2921328	0.0302	115.0- 175.0	97.9	M
			Average of Peak Amounts =			0.0396			
						RPD = 14.59			
9 PCB-1262									
1	100		4.221						
1	2		4.623						
1	3		4.870						
1	4		5.198						
1	5		5.573						
2	6		5.190						
2	7		5.660						
2	8		5.968						
2	9		6.243						
2	10		6.622						
11 PCB-1268									
1	100		5.530						
1	2		5.568						
1	3		5.766						
1	4		6.144						
1	5		6.442						
2	6		6.620						
2	7		6.668						
2	8		6.931						
2	9		7.247						
2	10		7.590						
$ 12 DCB Decachlorobiphenyl									
1	100	6.648	6.649	-0.001	4056857	0.003038			
2	2	7.872	7.871	0.001	3976558	0.002730			
						RPD = 10.69			

QC Flag Legend

Review Flags
M - Manually Integrated

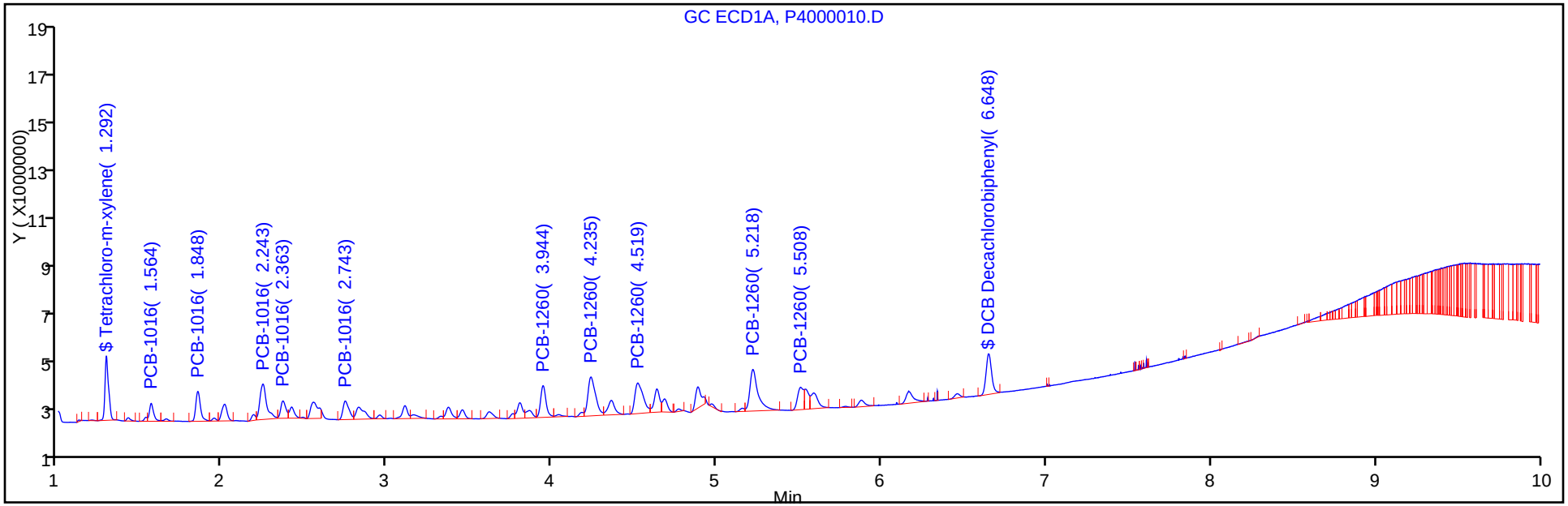
Report Date: 29-Apr-2013 15:57:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

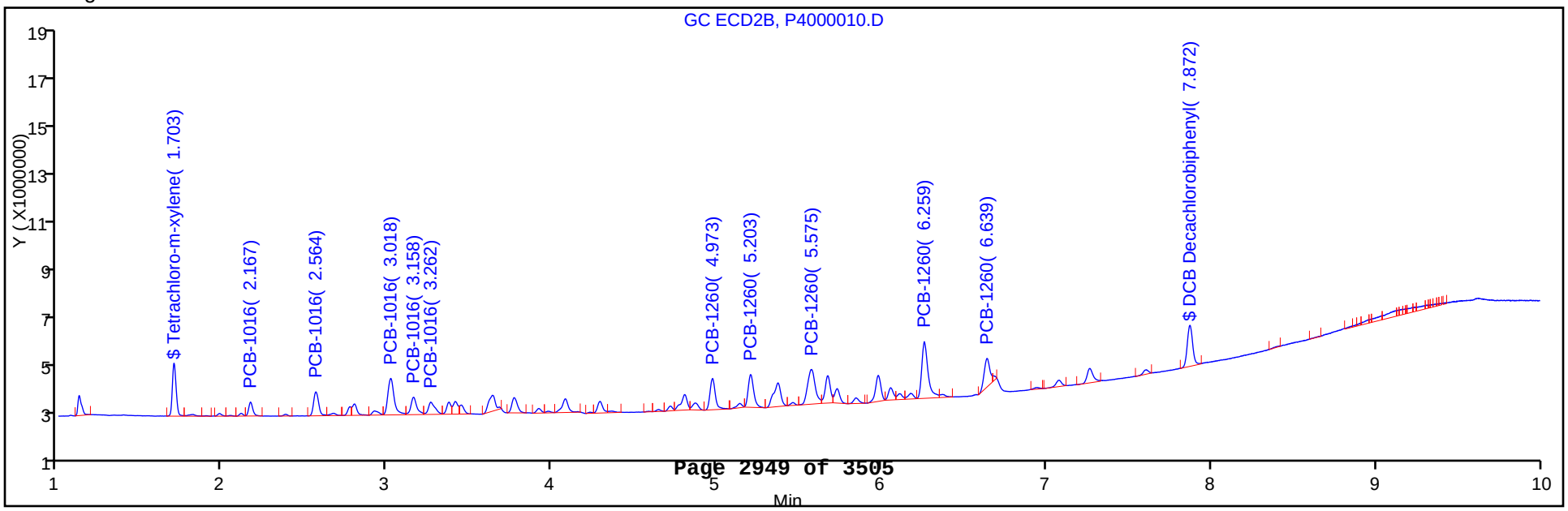
Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000010.D

Injection Date:	29-Apr-2013 10:06:34	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



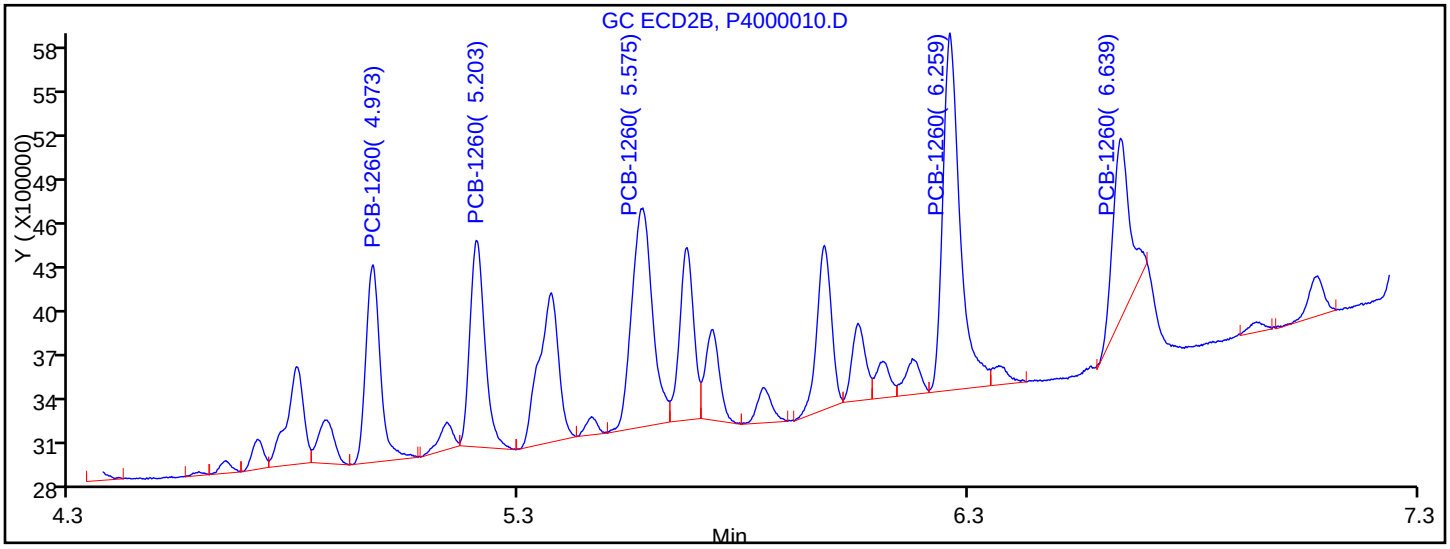
Report Date: 29-Apr-2013 15:57:30 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP4\20130429-19366.b\P4000010.D

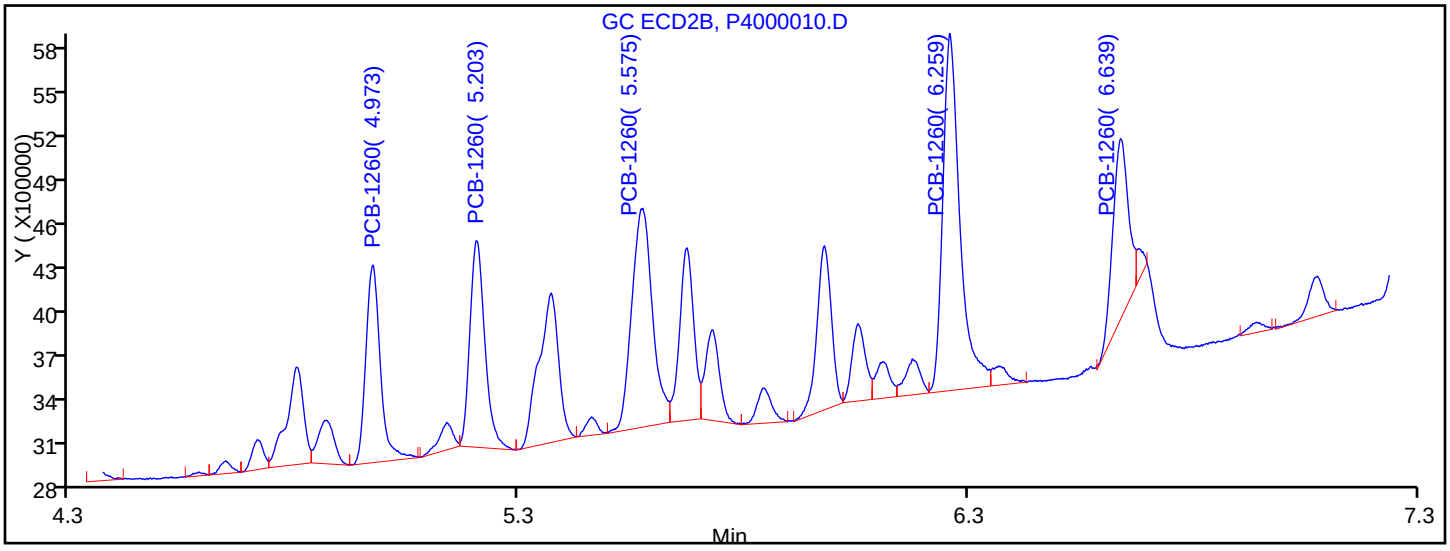
Injection Date:	29-Apr-2013 10:06:34	Limit Group:	GC 8082A ICAL
Client ID:		Instrument ID:	A2HP4
Lims Batch ID:	83996	Lims Sample ID:	10
Operator ID:		Injection Vol:	1.0 uL
Column Type:		Column Dia:	

10 PCB-1260, Detector: 2, GC ecd2b



Processing Integration Results

RT = 4.973	Response = 2984668	
RT = 5.203	Response = 3223588	
RT = 5.575	Response = 4734445	
RT = 6.259	Response = 6374618	
RT = 6.639	Response = 3141030	M



Manual Integration Results

RT = 4.973	Response = 2984668	
RT = 5.203	Response = 3223588	
RT = 5.575	Response = 4734445	
RT = 6.259	Response = 6374618	
RT = 6.639	Response = 2921328	M

Reviewer: hassl, 29-Apr-2013 15:50:57

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/14/2013 23:42

Analysis Batch Number: 81761 End Date: 04/15/2013 12:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-81761/3 IC		04/14/2013 23:42	1	P4000003.D	CLP-1 0.53(mm)
STD005 240-81761/3 IC		04/14/2013 23:42	1	P4000003.D	CLP-2 0.53(mm)
STD01 240-81761/4 IC		04/14/2013 23:57	1	P4000004.D	CLP-1 0.53(mm)
STD01 240-81761/4 IC		04/14/2013 23:57	1	P4000004.D	CLP-2 0.53(mm)
STD02 240-81761/5 IC		04/15/2013 00:13	1	P4000005.D	CLP-1 0.53(mm)
STD02 240-81761/5 IC		04/15/2013 00:13	1	P4000005.D	CLP-2 0.53(mm)
STD05 240-81761/6 IC		04/15/2013 00:29	1	P4000006.D	CLP-1 0.53(mm)
STD05 240-81761/6 IC		04/15/2013 00:29	1	P4000006.D	CLP-2 0.53(mm)
STD1 240-81761/7 IC		04/15/2013 00:44	1	P4000007.D	CLP-1 0.53(mm)
STD1 240-81761/7 IC		04/15/2013 00:44	1	P4000007.D	CLP-2 0.53(mm)
STD2 240-81761/8 IC		04/15/2013 01:00	1	P4000008.D	CLP-1 0.53(mm)
STD2 240-81761/8 IC		04/15/2013 01:00	1	P4000008.D	CLP-2 0.53(mm)
STD005 240-81761/9 IC		04/15/2013 01:16	1	P4000009.D	CLP-1 0.53(mm)
STD005 240-81761/9 IC		04/15/2013 01:16	1	P4000009.D	CLP-2 0.53(mm)
STD01 240-81761/10 IC		04/15/2013 01:31	1	P4000010.D	CLP-1 0.53(mm)
STD01 240-81761/10 IC		04/15/2013 01:31	1	P4000010.D	CLP-2 0.53(mm)
STD02 240-81761/11 IC		04/15/2013 01:47	1	P4000011.D	CLP-1 0.53(mm)
STD02 240-81761/11 IC		04/15/2013 01:47	1	P4000011.D	CLP-2 0.53(mm)
STD05 240-81761/12 IC		04/15/2013 02:03	1	P4000012.D	CLP-1 0.53(mm)
STD05 240-81761/12 IC		04/15/2013 02:03	1	P4000012.D	CLP-2 0.53(mm)
STD1 240-81761/13 IC		04/15/2013 02:19	1	P4000013.D	CLP-1 0.53(mm)
STD1 240-81761/13 IC		04/15/2013 02:19	1	P4000013.D	CLP-2 0.53(mm)
STD2 240-81761/14 IC		04/15/2013 02:34	1	P4000014.D	CLP-1 0.53(mm)
STD2 240-81761/14 IC		04/15/2013 02:34	1	P4000014.D	CLP-2 0.53(mm)
STD005 240-81761/15 IC		04/15/2013 02:50	1	P4000015.D	CLP-1 0.53(mm)
STD005 240-81761/15 IC		04/15/2013 02:50	1	P4000015.D	CLP-2 0.53(mm)
STD01 240-81761/16 IC		04/15/2013 03:06	1	P4000016.D	CLP-1 0.53(mm)
STD01 240-81761/16 IC		04/15/2013 03:06	1	P4000016.D	CLP-2 0.53(mm)
STD02 240-81761/17 IC		04/15/2013 03:21	1	P4000017.D	CLP-1 0.53(mm)
STD02 240-81761/17 IC		04/15/2013 03:21	1	P4000017.D	CLP-2 0.53(mm)
STD05 240-81761/18 IC		04/15/2013 03:37	1	P4000018.D	CLP-1 0.53(mm)
STD05 240-81761/18 IC		04/15/2013 03:37	1	P4000018.D	CLP-2 0.53(mm)
STD1 240-81761/19 IC		04/15/2013 03:53	1	P4000019.D	CLP-1 0.53(mm)
STD1 240-81761/19 IC		04/15/2013 03:53	1	P4000019.D	CLP-2 0.53(mm)
STD2 240-81761/20 IC		04/15/2013 04:08	1	P4000020.D	CLP-1 0.53(mm)
STD2 240-81761/20 IC		04/15/2013 04:08	1	P4000020.D	CLP-2 0.53(mm)
STD005 240-81761/21 IC		04/15/2013 04:24	1	P4000021.D	CLP-1 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/14/2013 23:42

Analysis Batch Number: 81761 End Date: 04/15/2013 12:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-81761/21 IC		04/15/2013 04:24	1	P4000021.D	CLP-2 0.53(mm)
STD01 240-81761/22 IC		04/15/2013 04:40	1	P4000022.D	CLP-1 0.53(mm)
STD01 240-81761/22 IC		04/15/2013 04:40	1	P4000022.D	CLP-2 0.53(mm)
STD02 240-81761/23 IC		04/15/2013 04:55	1	P4000023.D	CLP-1 0.53(mm)
STD02 240-81761/23 IC		04/15/2013 04:55	1	P4000023.D	CLP-2 0.53(mm)
STD05 240-81761/24 IC		04/15/2013 05:11	1	P4000024.D	CLP-1 0.53(mm)
STD05 240-81761/24 IC		04/15/2013 05:11	1	P4000024.D	CLP-2 0.53(mm)
STD1 240-81761/25 IC		04/15/2013 05:27	1	P4000025.D	CLP-1 0.53(mm)
STD1 240-81761/25 IC		04/15/2013 05:27	1	P4000025.D	CLP-2 0.53(mm)
STD2 240-81761/26 IC		04/15/2013 05:42	1	P4000026.D	CLP-1 0.53(mm)
STD2 240-81761/26 IC		04/15/2013 05:42	1	P4000026.D	CLP-2 0.53(mm)
STD005 240-81761/27 IC		04/15/2013 05:58	1	P4000027.D	CLP-1 0.53(mm)
STD005 240-81761/27 IC		04/15/2013 05:58	1	P4000027.D	CLP-2 0.53(mm)
STD01 240-81761/28 IC		04/15/2013 06:13	1	P4000028.D	CLP-1 0.53(mm)
STD01 240-81761/28 IC		04/15/2013 06:13	1	P4000028.D	CLP-2 0.53(mm)
STD02 240-81761/29 IC		04/15/2013 06:29	1	P4000029.D	CLP-1 0.53(mm)
STD02 240-81761/29 IC		04/15/2013 06:29	1	P4000029.D	CLP-2 0.53(mm)
STD05 240-81761/30 ICRT		04/15/2013 06:45	1	P4000030.D	CLP-1 0.53(mm)
STD05 240-81761/30 ICRT		04/15/2013 06:45	1	P4000030.D	CLP-2 0.53(mm)
STD1 240-81761/31 IC		04/15/2013 07:00	1	P4000031.D	CLP-1 0.53(mm)
STD1 240-81761/31 IC		04/15/2013 07:00	1	P4000031.D	CLP-2 0.53(mm)
STD2 240-81761/32 IC		04/15/2013 07:16	1	P4000032.D	CLP-1 0.53(mm)
STD2 240-81761/32 IC		04/15/2013 07:16	1	P4000032.D	CLP-2 0.53(mm)
STD005 240-81761/33 IC		04/15/2013 07:32	1		CLP-1 0.53(mm)
STD005 240-81761/33 IC		04/15/2013 07:32	1		CLP-2 0.53(mm)
STD01 240-81761/34 IC		04/15/2013 07:48	1		CLP-1 0.53(mm)
STD01 240-81761/34 IC		04/15/2013 07:48	1		CLP-2 0.53(mm)
STD02 240-81761/35 IC		04/15/2013 08:03	1		CLP-1 0.53(mm)
STD02 240-81761/35 IC		04/15/2013 08:03	1		CLP-2 0.53(mm)
STD05 240-81761/36 IC		04/15/2013 08:19	1		CLP-1 0.53(mm)
STD05 240-81761/36 IC		04/15/2013 08:19	1		CLP-2 0.53(mm)
STD1 240-81761/37 IC		04/15/2013 08:35	1		CLP-1 0.53(mm)
STD1 240-81761/37 IC		04/15/2013 08:35	1		CLP-2 0.53(mm)
STD2 240-81761/38 IC		04/15/2013 08:50	1		CLP-1 0.53(mm)
STD2 240-81761/38 IC		04/15/2013 08:50	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/14/2013 23:42

Analysis Batch Number: 81761 End Date: 04/15/2013 12:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-81761/39 IC		04/15/2013 09:06	1		CLP-1 0.53(mm)
STD005 240-81761/39 IC		04/15/2013 09:06	1		CLP-2 0.53(mm)
STD01 240-81761/40 IC		04/15/2013 09:22	1		CLP-1 0.53(mm)
STD01 240-81761/40 IC		04/15/2013 09:22	1		CLP-2 0.53(mm)
STD02 240-81761/41 IC		04/15/2013 09:37	1		CLP-1 0.53(mm)
STD02 240-81761/41 IC		04/15/2013 09:37	1		CLP-2 0.53(mm)
STD05 240-81761/42 IC		04/15/2013 09:53	1		CLP-1 0.53(mm)
STD05 240-81761/42 IC		04/15/2013 09:53	1		CLP-2 0.53(mm)
STD1 240-81761/43 IC		04/15/2013 10:09	1		CLP-1 0.53(mm)
STD1 240-81761/43 IC		04/15/2013 10:09	1		CLP-2 0.53(mm)
STD2 240-81761/44 IC		04/15/2013 10:24	1		CLP-1 0.53(mm)
STD2 240-81761/44 IC		04/15/2013 10:24	1		CLP-2 0.53(mm)
ICV 240-81761/45		04/15/2013 10:40	1	P4000045.D	CLP-1 0.53(mm)
ICV 240-81761/45		04/15/2013 10:40	1	P4000045.D	CLP-2 0.53(mm)
ICV 240-81761/46		04/15/2013 10:56	1	P4000046.D	CLP-1 0.53(mm)
ICV 240-81761/46		04/15/2013 10:56	1	P4000046.D	CLP-2 0.53(mm)
ICV 240-81761/47		04/15/2013 11:11	1	P4000047.D	CLP-1 0.53(mm)
ICV 240-81761/47		04/15/2013 11:11	1	P4000047.D	CLP-2 0.53(mm)
ICV 240-81761/48		04/15/2013 11:27	1	P4000048.D	CLP-1 0.53(mm)
ICV 240-81761/48		04/15/2013 11:27	1	P4000048.D	CLP-2 0.53(mm)
ICV 240-81761/49		04/15/2013 11:43	1	P4000049.D	CLP-1 0.53(mm)
ICV 240-81761/49		04/15/2013 11:43	1	P4000049.D	CLP-2 0.53(mm)
ICV 240-81761/50		04/15/2013 11:58	1	P4000050.D	CLP-1 0.53(mm)
ICV 240-81761/50		04/15/2013 11:58	1	P4000050.D	CLP-2 0.53(mm)
ICV 240-81761/51		04/15/2013 12:14	1		CLP-1 0.53(mm)
ICV 240-81761/51		04/15/2013 12:14	1		CLP-2 0.53(mm)
ICV 240-81761/52		04/15/2013 12:30	1		CLP-1 0.53(mm)
ICV 240-81761/52		04/15/2013 12:30	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/17/2013 09:56

Analysis Batch Number: 82267 End Date: 04/17/2013 15:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82267/3 CCVRT		04/17/2013 09:56	1	P4000003.D	CLP-1 0.53(mm)
CCV 240-82267/3 CCVRT		04/17/2013 09:56	1	P4000003.D	CLP-2 0.53(mm)
MRL 240-82267/4		04/17/2013 10:11	1	P4000004.D	CLP-1 0.53(mm)
MRL 240-82267/4		04/17/2013 10:11	1	P4000004.D	CLP-2 0.53(mm)
240-22663-31	068SB-0017M-0001-SO	04/17/2013 11:12	1	P4000005.D	CLP-1 0.53(mm)
240-22663-31	068SB-0017M-0001-SO	04/17/2013 11:12	1	P4000005.D	CLP-2 0.53(mm)
240-22663-32	068SB-0018M-0001-SO	04/17/2013 11:28	1	P4000006.D	CLP-1 0.53(mm)
240-22663-32	068SB-0018M-0001-SO	04/17/2013 11:28	1	P4000006.D	CLP-2 0.53(mm)
240-22663-37	068SB-0024M-0001-SO	04/17/2013 11:44	1	P4000007.D	CLP-1 0.53(mm)
240-22663-37	068SB-0024M-0001-SO	04/17/2013 11:44	1	P4000007.D	CLP-2 0.53(mm)
240-22663-38	068SB-0025M-0001-SO	04/17/2013 11:59	1	P4000008.D	CLP-1 0.53(mm)
240-22663-38	068SB-0025M-0001-SO	04/17/2013 11:59	1	P4000008.D	CLP-2 0.53(mm)
240-22663-39	068SB-0032-0001-SO	04/17/2013 12:15	1	P4000009.D	CLP-1 0.53(mm)
240-22663-39	068SB-0032-0001-SO	04/17/2013 12:15	1	P4000009.D	CLP-2 0.53(mm)
240-22663-40	068SB-0027M-0001-SO	04/17/2013 12:31	1	P4000010.D	CLP-1 0.53(mm)
240-22663-40	068SB-0027M-0001-SO	04/17/2013 12:31	1	P4000010.D	CLP-2 0.53(mm)
240-22663-41	068SB-0028M-0001-SO	04/17/2013 12:46	1	P4000011.D	CLP-1 0.53(mm)
240-22663-41	068SB-0028M-0001-SO	04/17/2013 12:46	1	P4000011.D	CLP-2 0.53(mm)
240-22663-43	068SB-0030M-0001-SO	04/17/2013 13:02	1	P4000012.D	CLP-1 0.53(mm)
240-22663-43	068SB-0030M-0001-SO	04/17/2013 13:02	1	P4000012.D	CLP-2 0.53(mm)
240-22663-44	068SB-0031M-0001-SO	04/17/2013 13:17	1	P4000013.D	CLP-1 0.53(mm)
240-22663-44	068SB-0031M-0001-SO	04/17/2013 13:17	1	P4000013.D	CLP-2 0.53(mm)
CCV 240-82267/14		04/17/2013 13:33	1	P4000014.D	CLP-1 0.53(mm)
CCV 240-82267/14		04/17/2013 13:33	1	P4000014.D	CLP-2 0.53(mm)
240-22663-33	068SB-0019M-0001-SO	04/17/2013 13:49	1	P4000015.D	CLP-1 0.53(mm)
240-22663-33	068SB-0019M-0001-SO	04/17/2013 13:49	1	P4000015.D	CLP-2 0.53(mm)
240-22663-34	068SB-0022M-0001-SO	04/17/2013 14:04	1	P4000016.D	CLP-1 0.53(mm)
240-22663-34	068SB-0022M-0001-SO	04/17/2013 14:04	1	P4000016.D	CLP-2 0.53(mm)
240-22663-35	068SB-0020M-0001-SO	04/17/2013 14:20	1	P4000017.D	CLP-1 0.53(mm)
240-22663-35	068SB-0020M-0001-SO	04/17/2013 14:20	1	P4000017.D	CLP-2 0.53(mm)
240-22663-36	068SB-0023M-0001-SO	04/17/2013 14:35	1	P4000018.D	CLP-1 0.53(mm)
240-22663-36	068SB-0023M-0001-SO	04/17/2013 14:35	1	P4000018.D	CLP-2 0.53(mm)
MB 240-81736/24-A		04/17/2013 14:51	1	P4000019.D	CLP-1 0.53(mm)
MB 240-81736/24-A		04/17/2013 14:51	1	P4000019.D	CLP-2 0.53(mm)
ZZZZZ		04/17/2013 15:07	1		CLP-1 0.53(mm)
ZZZZZ		04/17/2013 15:07	1		CLP-2 0.53(mm)
MRL 240-82267/21		04/17/2013 15:22	1	P4000021.D	CLP-1 0.53(mm)
MRL 240-82267/21		04/17/2013 15:22	1	P4000021.D	CLP-2 0.53(mm)
CCV 240-82267/23		04/17/2013 15:38	1	P4000022.D	CLP-1 0.53(mm)
CCV 240-82267/23		04/17/2013 15:38	1	P4000022.D	CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/18/2013 09:37

Analysis Batch Number: 82363 End Date: 04/18/2013 15:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82363/3 CCVRT		04/18/2013 09:37	1	P4000003.D	CLP-1 0.53(mm)
CCV 240-82363/3 CCVRT		04/18/2013 09:37	1	P4000003.D	CLP-2 0.53(mm)
MRL 240-82363/4		04/18/2013 09:52	1	P4000004.D	CLP-1 0.53(mm)
MRL 240-82363/4		04/18/2013 09:52	1	P4000004.D	CLP-2 0.53(mm)
240-22663-4	079SB-0014M-0001-SO	04/18/2013 10:08	1	P4000005.D	CLP-1 0.53(mm)
240-22663-4	079SB-0014M-0001-SO	04/18/2013 10:08	1	P4000005.D	CLP-2 0.53(mm)
240-22663-7	079SB-0017M-0001-SO	04/18/2013 10:24	1	P4000006.D	CLP-1 0.53(mm)
240-22663-7	079SB-0017M-0001-SO	04/18/2013 10:24	1	P4000006.D	CLP-2 0.53(mm)
240-22663-17	073SB-0041M-0001-SO	04/18/2013 10:39	1	P4000007.D	CLP-1 0.53(mm)
240-22663-17	073SB-0041M-0001-SO	04/18/2013 10:39	1	P4000007.D	CLP-2 0.53(mm)
240-22663-26	079SB-0026M-0001-SO	04/18/2013 10:55	1	P4000008.D	CLP-1 0.53(mm)
240-22663-26	079SB-0026M-0001-SO	04/18/2013 10:55	1	P4000008.D	CLP-2 0.53(mm)
240-22663-28	079SB-0028M-0001-SO	04/18/2013 11:11	1	P4000009.D	CLP-1 0.53(mm)
240-22663-28	079SB-0028M-0001-SO	04/18/2013 11:11	1	P4000009.D	CLP-2 0.53(mm)
ZZZZZ		04/18/2013 11:26	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 11:26	1		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 11:42	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 11:42	1		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 11:57	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 11:57	1		CLP-2 0.53(mm)
MB 240-81730/20-A		04/18/2013 12:13	1	P4000013.D	CLP-1 0.53(mm)
MB 240-81730/20-A		04/18/2013 12:13	1	P4000013.D	CLP-2 0.53(mm)
CCV 240-82363/14		04/18/2013 12:29	1	P4000014.D	CLP-1 0.53(mm)
CCV 240-82363/14		04/18/2013 12:29	1	P4000014.D	CLP-2 0.53(mm)
ZZZZZ		04/18/2013 12:44	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 12:44	1		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 13:00	10		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 13:00	10		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 13:16	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 13:16	1		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 13:31	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 13:31	1		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 14:34	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 14:34	1		CLP-2 0.53(mm)
ZZZZZ		04/18/2013 14:50	1		CLP-1 0.53(mm)
ZZZZZ		04/18/2013 14:50	1		CLP-2 0.53(mm)
LCS 240-81730/21-A		04/18/2013 15:05	1	P4000024.D	CLP-1 0.53(mm)
LCS 240-81730/21-A		04/18/2013 15:05	1	P4000024.D	CLP-2 0.53(mm)
CCV 240-82363/25		04/18/2013 15:21	1	P4000025.D	CLP-1 0.53(mm)
CCV 240-82363/25		04/18/2013 15:21	1	P4000025.D	CLP-2 0.53(mm)
MRL 240-82363/26		04/18/2013 15:37	1	P4000026.D	CLP-1 0.53(mm)
MRL 240-82363/26		04/18/2013 15:37	1	P4000026.D	CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/19/2013 08:35

Analysis Batch Number: 82656 End Date: 04/19/2013 09:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82656/3 CCVRT		04/19/2013 08:35	1	P4000003.D	CLP-1 0.53(mm)
CCV 240-82656/3 CCVRT		04/19/2013 08:35	1	P4000003.D	CLP-2 0.53(mm)
MRL 240-82656/4		04/19/2013 08:50	1	P4000004.D	CLP-1 0.53(mm)
MRL 240-82656/4		04/19/2013 08:50	1	P4000004.D	CLP-2 0.53(mm)
LCS 240-81736/23-A		04/19/2013 09:06	1	P4000005.D	CLP-1 0.53(mm)
LCS 240-81736/23-A		04/19/2013 09:06	1	P4000005.D	CLP-2 0.53(mm)
CCV 240-82656/6		04/19/2013 09:22	1	P4000006.D	CLP-1 0.53(mm)
CCV 240-82656/6		04/19/2013 09:22	1	P4000006.D	CLP-2 0.53(mm)
MRL 240-82656/7		04/19/2013 09:37	1	P4000007.D	CLP-1 0.53(mm)
MRL 240-82656/7		04/19/2013 09:37	1	P4000007.D	CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/19/2013 21:58

Analysis Batch Number: 82762 End Date: 04/20/2013 00:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-82762/3 CCVRT		04/19/2013 21:58	1	P4000003.D	CLP-1 0.53(mm)
CCV 240-82762/3 CCVRT		04/19/2013 21:58	1	P4000003.D	CLP-2 0.53(mm)
ZZZZZ		04/19/2013 22:14	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 22:14	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 22:29	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 22:29	1		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 22:45	10		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 22:45	10		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 23:01	5		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 23:01	5		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 23:16	5		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 23:16	5		CLP-2 0.53(mm)
ZZZZZ		04/19/2013 23:47	1		CLP-1 0.53(mm)
ZZZZZ		04/19/2013 23:47	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 00:03	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 00:03	1		CLP-2 0.53(mm)
ZZZZZ		04/20/2013 00:18	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 00:18	1		CLP-2 0.53(mm)
CCV 240-82762/13		04/20/2013 00:34	1	P4000013.D	CLP-1 0.53(mm)
CCV 240-82762/13		04/20/2013 00:34	1	P4000013.D	CLP-2 0.53(mm)
ZZZZZ		04/20/2013 00:50	1		CLP-1 0.53(mm)
ZZZZZ		04/20/2013 00:50	1		CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: A2HP4 Start Date: 04/29/2013 08:18

Analysis Batch Number: 83996 End Date: 04/29/2013 10:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-83996/3 CCVRT		04/29/2013 08:18	1	P4000003.D	CLP-1 0.53(mm)
CCV 240-83996/3 CCVRT		04/29/2013 08:18	1	P4000003.D	CLP-2 0.53(mm)
MRL 240-83996/4		04/29/2013 08:34	1	P4000004.D	CLP-1 0.53(mm)
MRL 240-83996/4		04/29/2013 08:34	1	P4000004.D	CLP-2 0.53(mm)
240-22663-26	079SB-0026M-0001-SO	04/29/2013 08:49	1	P4000005.D	CLP-1 0.53(mm)
240-22663-26	079SB-0026M-0001-SO	04/29/2013 08:49	1	P4000005.D	CLP-2 0.53(mm)
240-22663-28	079SB-0028M-0001-SO	04/29/2013 09:04	1	P4000006.D	CLP-1 0.53(mm)
240-22663-28	079SB-0028M-0001-SO	04/29/2013 09:04	1	P4000006.D	CLP-2 0.53(mm)
MB 240-83675/20-A		04/29/2013 09:20	1	P4000007.D	CLP-1 0.53(mm)
MB 240-83675/20-A		04/29/2013 09:20	1	P4000007.D	CLP-2 0.53(mm)
LCS 240-83675/21-A		04/29/2013 09:35	1	P4000008.D	CLP-1 0.53(mm)
LCS 240-83675/21-A		04/29/2013 09:35	1	P4000008.D	CLP-2 0.53(mm)
CCV 240-83996/9		04/29/2013 09:51	1	P4000009.D	CLP-1 0.53(mm)
CCV 240-83996/9		04/29/2013 09:51	1	P4000009.D	CLP-2 0.53(mm)
MRL 240-83996/10		04/29/2013 10:06	1	P4000010.D	CLP-1 0.53(mm)
MRL 240-83996/10		04/29/2013 10:06	1	P4000010.D	CLP-2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 81730 Batch Start Date: 04/12/13 14:25 Batch Analyst: Cerne, Amanda

Batch Method: 3540C Batch End Date: 04/13/13 06:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX10PPMSPK 00007	EX2/.2SURRW 00023	AnalysisComment	
240-22663-G-4-A	079SB-0014M-0001 -SO	3540C, 8082/DOD	T	30.09 g	10 mL		1 mL	Assoc w/ 81726	
240-22663-G-7-A	079SB-0017M-0001 -SO	3540C, 8082/DOD	T	29.71 g	10 mL		1 mL	Assoc w/ 81726	
240-22663-G-17-A	073SB-0041M-0001 -SO	3540C, 8082/DOD	T	30.46 g	10 mL		1 mL	Assoc w/ 81726	
240-22663-G-26-A	079SB-0026M-0001 -SO	3540C, 8082/DOD	T	30.04 g	10 mL		1 mL	Assoc w/ 81726	
240-22663-G-28-A	079SB-0028M-0001 -SO	3540C, 8082/DOD	T	30.15 g	10 mL		1 mL	Assoc w/ 81726	
MB 240-81730/20		3540C, 8082/DOD		30.00 g	10 mL		1 mL	Assoc w/ 81726	
LCS 240-81730/21		3540C, 8082/DOD		30.00 g	10 mL	1 mL	1 mL		

Batch Notes	
Acid used for Clean Up Reagent	924924
Balance ID	b037
Exchange Solvent Lot #	926689
Na2SO4 Lot Number	857437
Prep Solvent Lot #	928640

Basis	Basis Description
T	Total/NA

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

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 81736 Batch Start Date: 04/12/13 14:25 Batch Analyst: Cerne, Amanda

Batch Method: 3540C Batch End Date: 04/13/13 06:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX10PPMSPK 00007	EX2/.2SURRW 00023		
240-22663-C-31-A	068SB-0017M-0001-SO	3540C, 8082/DOD	T	30.42 g	10 mL		1 mL		
240-22663-C-32-A	068SB-0018M-0001-SO	3540C, 8082/DOD	T	30.29 g	10 mL		1 mL		
240-22663-C-33-A	068SB-0019M-0001-SO	3540C, 8082/DOD	T	29.59 g	10 mL		1 mL		
240-22663-C-34-A	068SB-0022M-0001-SO	3540C, 8082/DOD	T	30.36 g	10 mL		1 mL		
240-22663-C-35-A	068SB-0020M-0001-SO	3540C, 8082/DOD	T	29.73 g	10 mL		1 mL		
240-22663-C-36-A	068SB-0023M-0001-SO	3540C, 8082/DOD	T	29.89 g	10 mL		1 mL		
240-22663-C-37-A	068SB-0024M-0001-SO	3540C, 8082/DOD	T	30.05 g	10 mL		1 mL		
240-22663-C-38-A	068SB-0025M-0001-SO	3540C, 8082/DOD	T	30.07 g	10 mL		1 mL		
240-22663-C-39	068SB-0032-0001-SO	3540C, 8082/DOD	T	30.07 g	10 mL		1 mL		
240-22663-C-40-A	068SB-0027M-0001-SO	3540C, 8082/DOD	T	30.29 g	10 mL		1 mL		
240-22663-C-41-A	068SB-0028M-0001-SO	3540C, 8082/DOD	T	30.12 g	10 mL		1 mL		
240-22663-C-43-A	068SB-0030M-0001-SO	3540C, 8082/DOD	T	29.91 g	10 mL		1 mL		
240-22663-C-44-A	068SB-0031M-0001-SO	3540C, 8082/DOD	T	29.64 g	10 mL		1 mL		
LCS 240-81736/23		3540C, 8082/DOD		30 g	10 mL	1 mL	1 mL		
MB 240-81736/24		3540C, 8082/DOD		30 g	10 mL		1 mL		

Batch Notes	
Acid used for Clean Up Reagent	924924
Balance ID	b036
Person's name who did the concentration	ac/mm/cc
Exchange Solvent Lot #	926689
Na2SO4 Lot Number	857437
Prep Solvent Lot #	928640

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

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 81736 Batch Start Date: 04/12/13 14:25 Batch Analyst: Cerne, Amanda

Batch Method: 3540C Batch End Date: 04/13/13 06:25

Basis	Basis Description
T	Total/NA

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

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 83675 Batch Start Date: 04/26/13 12:30 Batch Analyst: Shabani, Jawad

Batch Method: 3540C Batch End Date: 04/27/13 04:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX10PPMSPK 00007	EX2/.2SURRW 00023		
240-22663-G-26-A	079SB-0026M-0001-SO	3540C, 8082/DOD	T	30.10 g	10 mL		1 mL		
240-22663-G-28-A	079SB-0028M-0001-SO	3540C, 8082/DOD	T	30.18 g	10 mL		1 mL		
MB 240-83675/20		3540C, 8082/DOD		30.00 g	10 mL		1 mL		
LCS 240-83675/21		3540C, 8082/DOD		30.00 g	10 mL	1 mL	1 mL		

Batch Notes	
Acid used for Clean Up Reagent	924924
Balance ID	B036
Exchange Solvent Lot #	926689
Na2SO4 Lot Number	857437
Prep Solvent Lot #	950630

Basis	Basis Description
T	Total/NA

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

Method 8330
Nitroguanidine

Nitroguanidine (HPLC) by Method 8330

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 320-0003925-018-1.d

Lab ID: LCS 320-14079/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Nitroguanidine	1.00	0.880	88	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 320-0003925-029-1.d

Lab ID: 240-22663-4 MS Client ID: 079SB-0014M-0001-SO MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Nitroguanidine	1.00	0.039 U	0.855	86	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 320-0003925-030-1.d

Lab ID: 240-22663-4 MSD Client ID: 079SB-0014M-0001-SO MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitroguanidine	0.980	0.845	86	1	20	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab File ID: 320-0003925-017-1.d Lab Sample ID: MB 320-14079/1-A

Matrix: Solid Date Extracted: 04/11/2013 10:07

Instrument ID: PDA1 Date Analyzed: 04/16/2013 17:06

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-14079/2-A	320-0003925-018-1.d	04/16/2013 17:24
079SB-0014M-0001-SO	240-22663-4	320-0003925-028-1.d	04/16/2013 20:22
079SB-0014M-0001-SO MS	240-22663-4 MS	320-0003925-029-1.d	04/16/2013 20:39
079SB-0014M-0001-SO MSD	240-22663-4 MSD	320-0003925-030-1.d	04/16/2013 20:57
079SB-0017M-0001-SO	240-22663-7	320-0003925-031-1.d	04/16/2013 21:15
073SB-0041M-0001-SO	240-22663-17	320-0003925-032-1.d	04/16/2013 21:33
079SB-0026M-0001-SO	240-22663-26	320-0003925-033-1.d	04/16/2013 21:50
079SB-0028M-0001-SO	240-22663-28	320-0003925-034-1.d	04/16/2013 22:08

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO Lab Sample ID: 240-22663-4

Matrix: Solid Lab File ID: 320-0003925-028-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 10:12

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.05(g) Date Analyzed: 04/16/2013 20:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.039	U	0.24	0.039	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-028-1.d		
Lims ID:	240-22663-F-4-D	Client ID:	079SB-0014M-0001-SO
Inject. Date:	16-Apr-2013 20:22:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003925-028 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	28
Detector:	GC 320-0003925-028-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:35:35	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:36:05

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

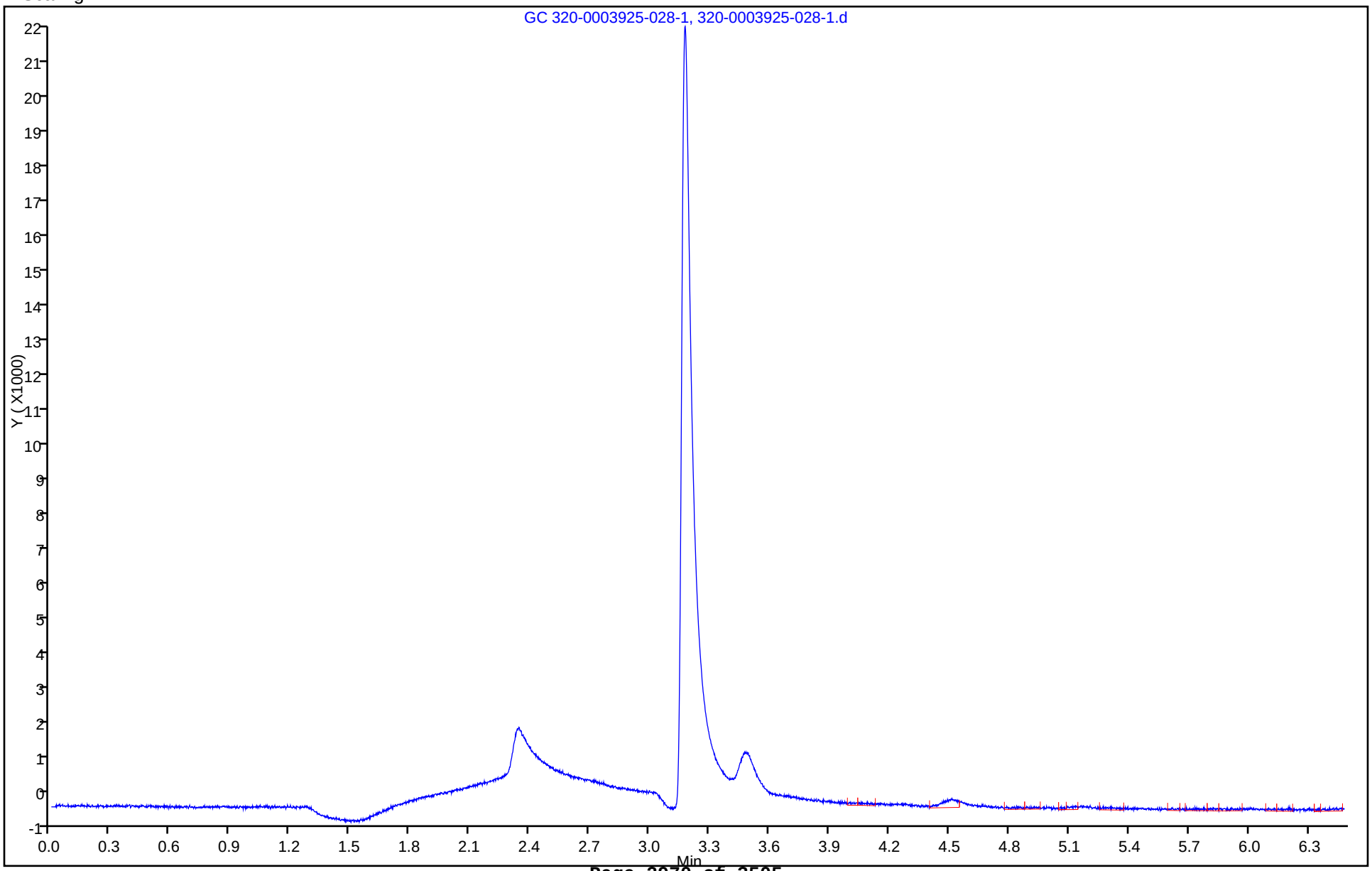
Report Date: 17-Apr-2013 09:36:05 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-028-1.d

Injection Date:	16-Apr-2013 20:22:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	079SB-0014M-0001-SO	Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	28
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0017M-0001-SO Lab Sample ID: 240-22663-7

Matrix: Solid Lab File ID: 320-0003925-031-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 09:24

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.00(g) Date Analyzed: 04/16/2013 21:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.040	U	0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-031-1.d		
Lims ID:	240-22663-F-7-B	Client ID:	079SB-0017M-0001-SO
Inject. Date:	16-Apr-2013 21:15:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003925-031 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	31
Detector:	GC 320-0003925-031-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:36:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:36:52

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

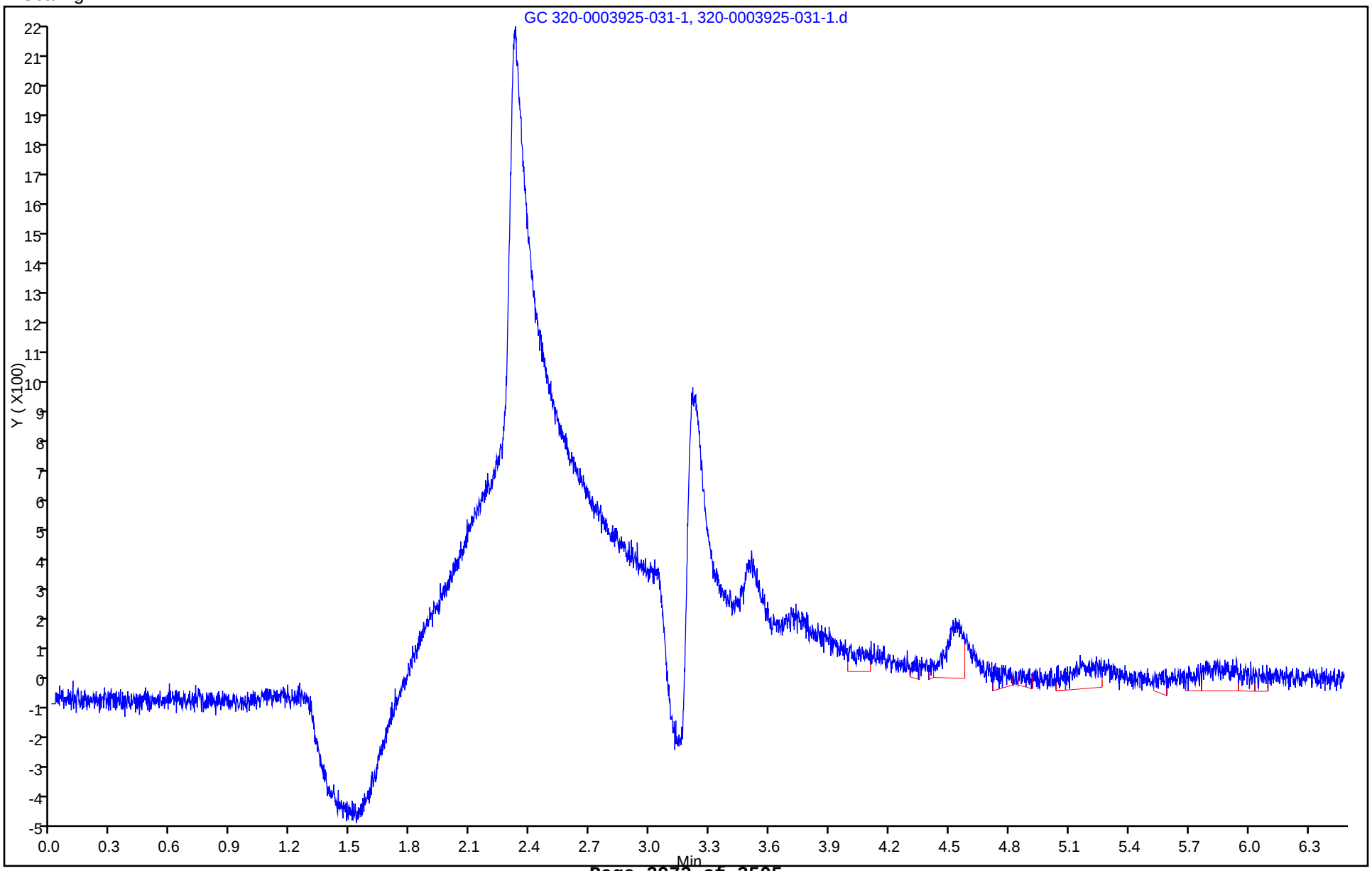
Report Date: 17-Apr-2013 09:36:52 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-031-1.d

Injection Date:	16-Apr-2013 21:15:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	079SB-0017M-0001-SO	Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	31
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 073SB-0041M-0001-SO Lab Sample ID: 240-22663-17

Matrix: Solid Lab File ID: 320-0003925-032-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 13:03

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.06(g) Date Analyzed: 04/16/2013 21:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.039	U	0.24	0.039	0.019

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-032-1.d		
Lims ID:	240-22663-F-17-B	Client ID:	073SB-0041M-0001-SO
Inject. Date:	16-Apr-2013 21:33:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003925-032 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	32
Detector:	GC 320-0003925-032-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:36:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:37:10

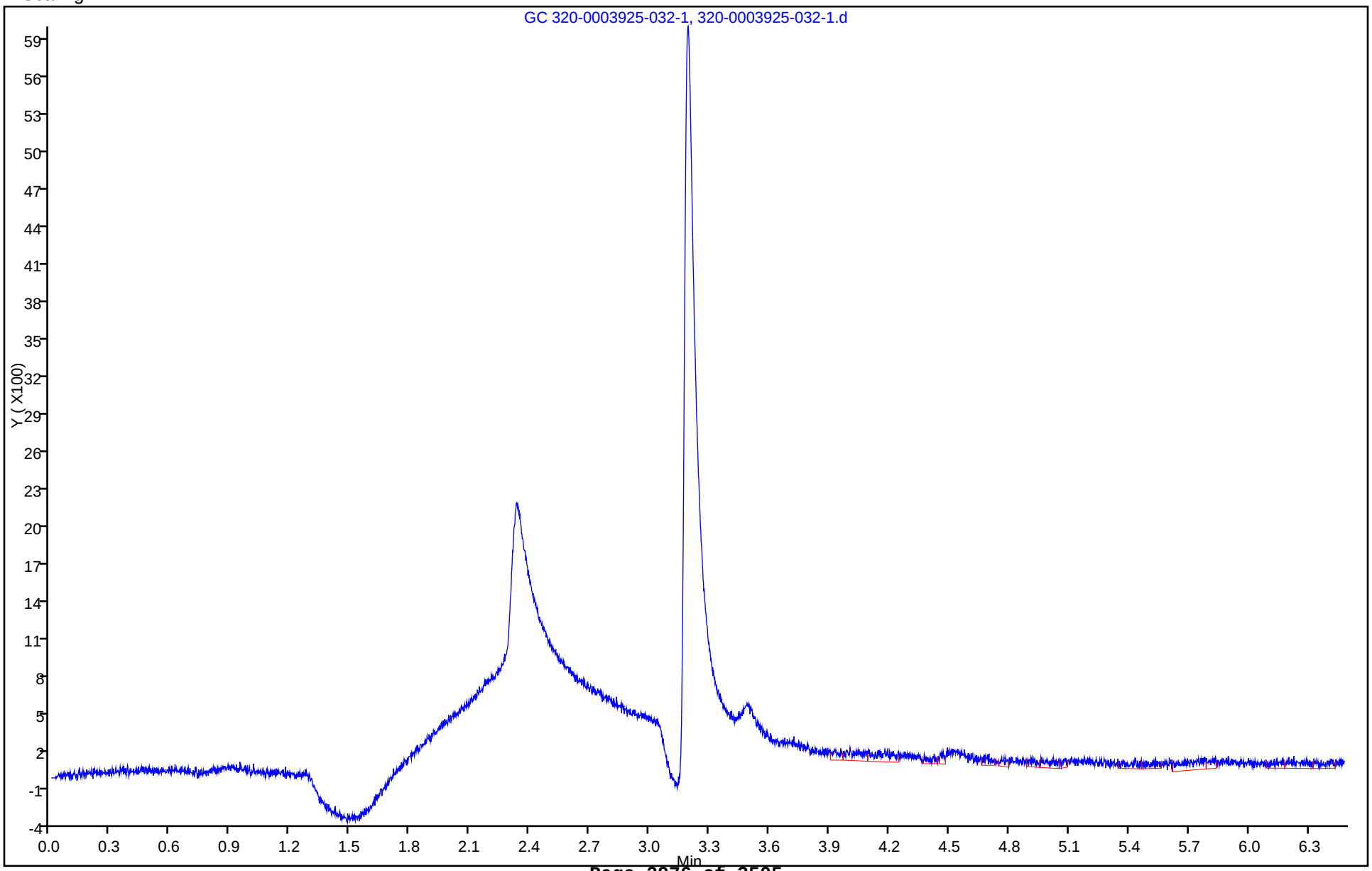
RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

Report Date: 17-Apr-2013 09:37:10 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-032-1.d		
Injection Date:	16-Apr-2013 21:33:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	073SB-0041M-0001-SO	Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	32
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0026M-0001-SO Lab Sample ID: 240-22663-26

Matrix: Solid Lab File ID: 320-0003925-033-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 10:37

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.04(g) Date Analyzed: 04/16/2013 21:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.039	U	0.25	0.039	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-033-1.d		
Lims ID:	240-22663-F-26-B	Client ID:	079SB-0026M-0001-SO
Inject. Date:	16-Apr-2013 21:50:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003925-033 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	33
Detector:	GC 320-0003925-033-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:36:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:37:18

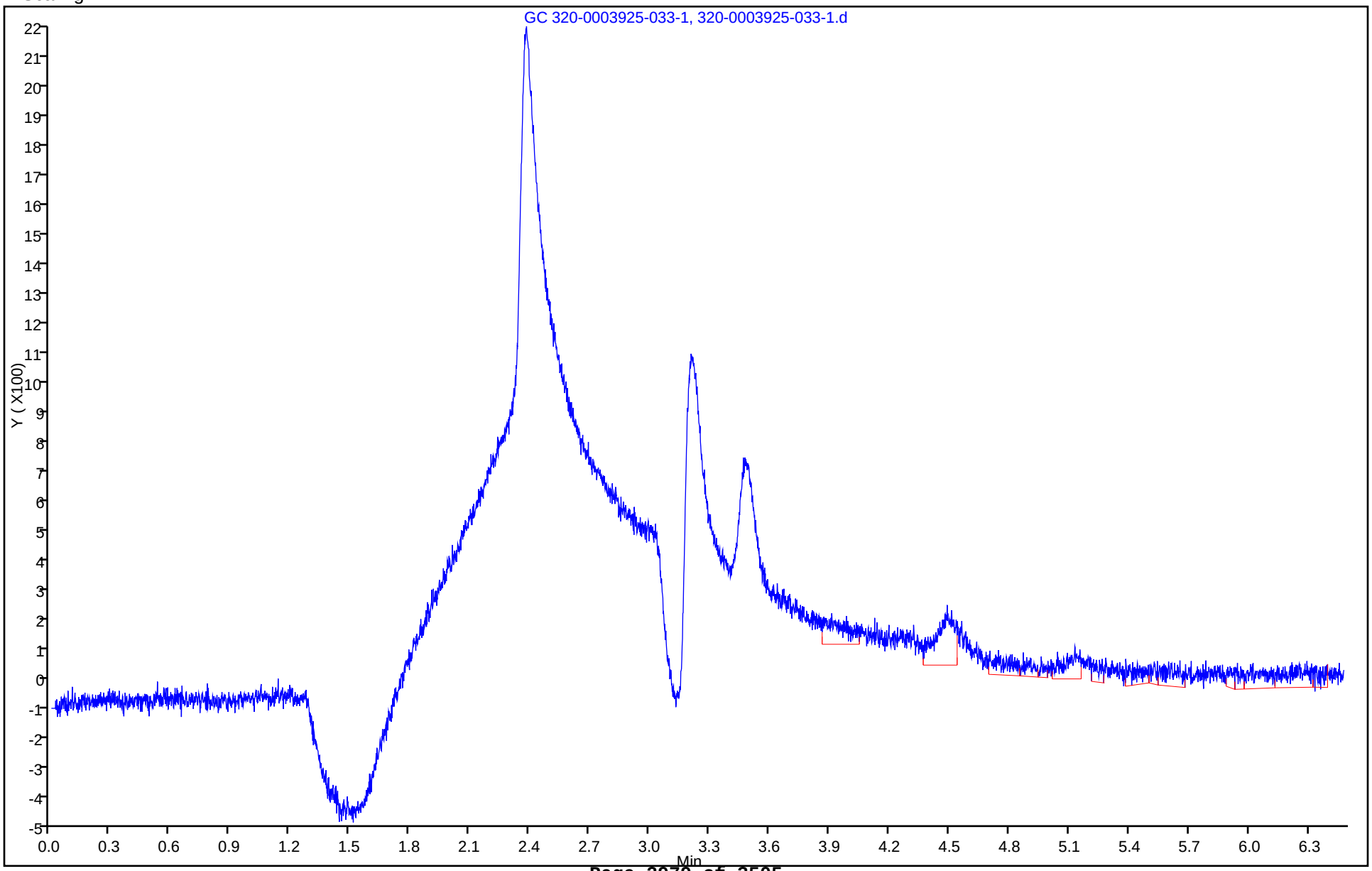
RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

Report Date: 17-Apr-2013 09:37:18 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-033-1.d		
Injection Date:	16-Apr-2013 21:50:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	079SB-0026M-0001-SO	Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	33
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO Lab Sample ID: 240-22663-28

Matrix: Solid Lab File ID: 320-0003925-034-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 10:43

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.01(g) Date Analyzed: 04/16/2013 22:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.040	U	0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-034-1.d		
Lims ID:	240-22663-F-28-B	Client ID:	079SB-0028M-0001-SO
Inject. Date:	16-Apr-2013 22:08:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0003925-034 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	34
Detector:	GC 320-0003925-034-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:36:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:37:27

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

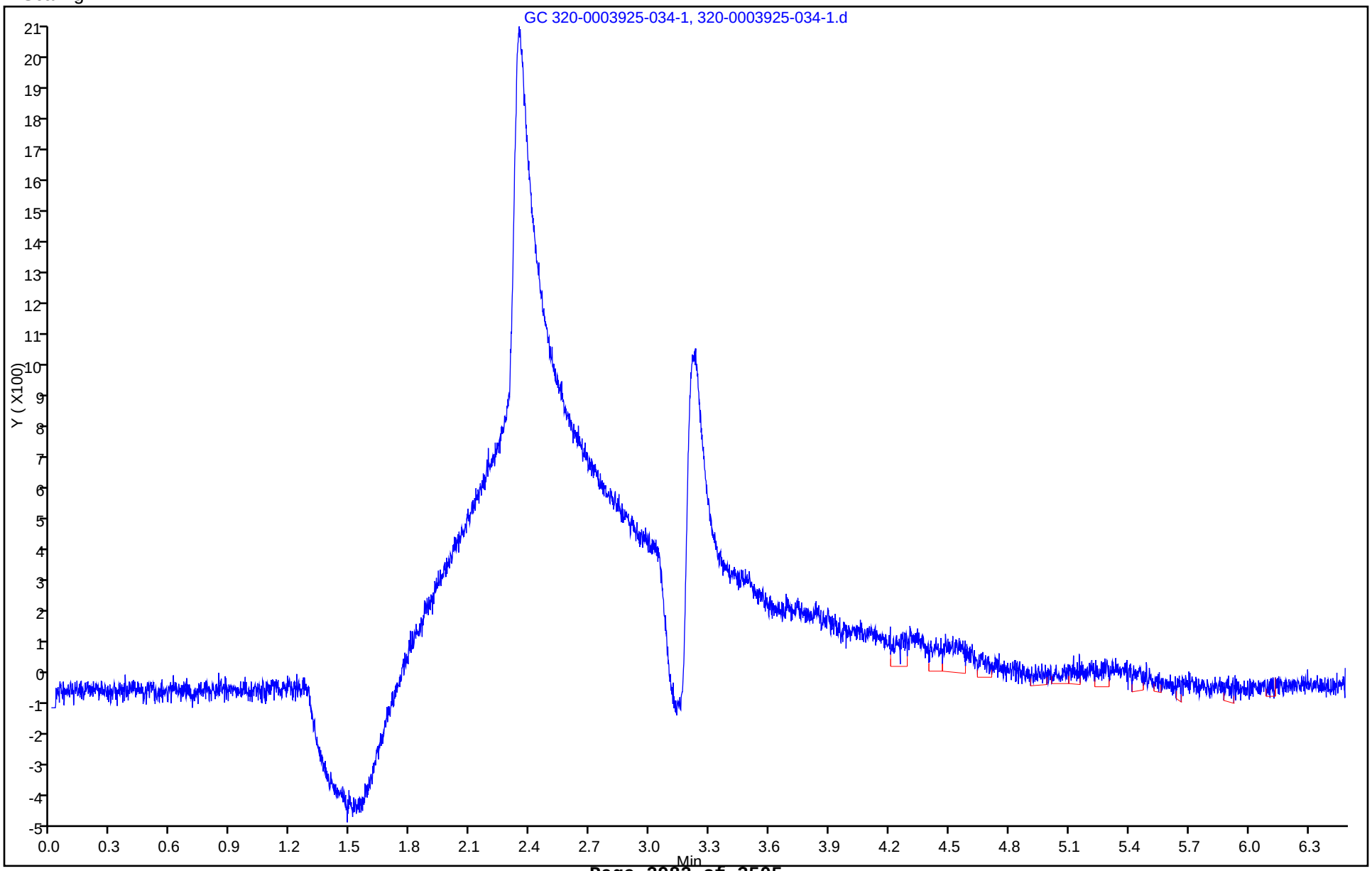
Report Date: 17-Apr-2013 09:37:27 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-034-1.d

Injection Date:	16-Apr-2013 22:08:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	34
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 13890

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 13:21 Calibration End Date: 04/09/2013 14:50 Calibration ID: 2544

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-13890/4	320-0003774-004-1.d
Level 2	STD03 320-13890/5	320-0003774-005-1.d
Level 3	STD04 320-13890/6	320-0003774-006-1.d
Level 4	STD05 320-13890/7	320-0003774-007-1.d
Level 5	STD06 320-13890/8	320-0003774-008-1.d
Level 6	STD07 320-13890/9	320-0003774-009-1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Nitroguanidine	4.195	4.205	4.185	4.187	4.192	4.173					3.942 - 4.442	4.190

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 13890

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 13:21 Calibration End Date: 04/09/2013 14:50 Calibration ID: 2544

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-13890/4	320-0003774-004-1.d
Level 2	STD03 320-13890/5	320-0003774-005-1.d
Level 3	STD04 320-13890/6	320-0003774-006-1.d
Level 4	STD05 320-13890/7	320-0003774-007-1.d
Level 5	STD06 320-13890/8	320-0003774-008-1.d
Level 6	STD07 320-13890/9	320-0003774-009-1.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Nitroguanidine	43.550 39.998	39.600 38.542	43.760	40.260	Ave		40.9516667				5.3		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 13890

SDG No.:

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/09/2013 13:21 Calibration End Date: 04/09/2013 14:50 Calibration ID: 2544

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-13890/4	320-0003774-004-1.d
Level 2	STD03 320-13890/5	320-0003774-005-1.d
Level 3	STD04 320-13890/6	320-0003774-006-1.d
Level 4	STD05 320-13890/7	320-0003774-007-1.d
Level 5	STD06 320-13890/8	320-0003774-008-1.d
Level 6	STD07 320-13890/9	320-0003774-009-1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Nitroguanidine	Ave	871 38542	1980	4376	8052	19999	20.0 1000	50.0	100	200	500

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-004-1.d		
Lims ID:	std02	Client ID:	
Inject. Date:	09-Apr-2013 13:21:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	320-0003774-004 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	4
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-004-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:49:58

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.195	4.192	0.003	871	21.3	

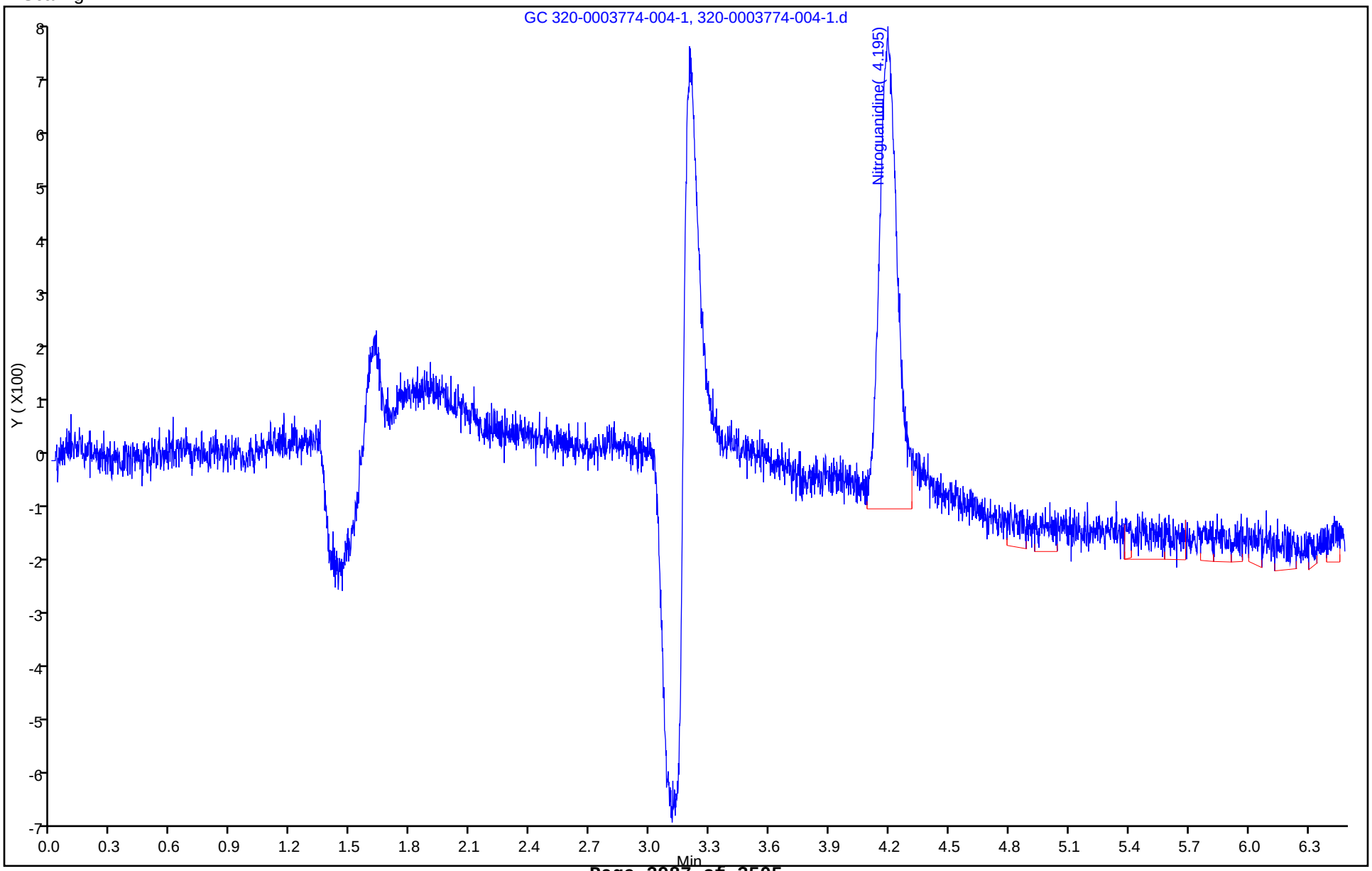
Report Date: 10-Apr-2013 10:05:30 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-004-1.d

Injection Date:	09-Apr-2013 13:21:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	4
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-005-1.d		
Lims ID:	std03	Client ID:	
Inject. Date:	09-Apr-2013 13:39:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	320-0003774-005 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	5
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-005-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:31	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		
First Level Reviewer: russellk		Date:	10-Apr-2013 09:50:02

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.205	4.192	0.013	1980	48.3	

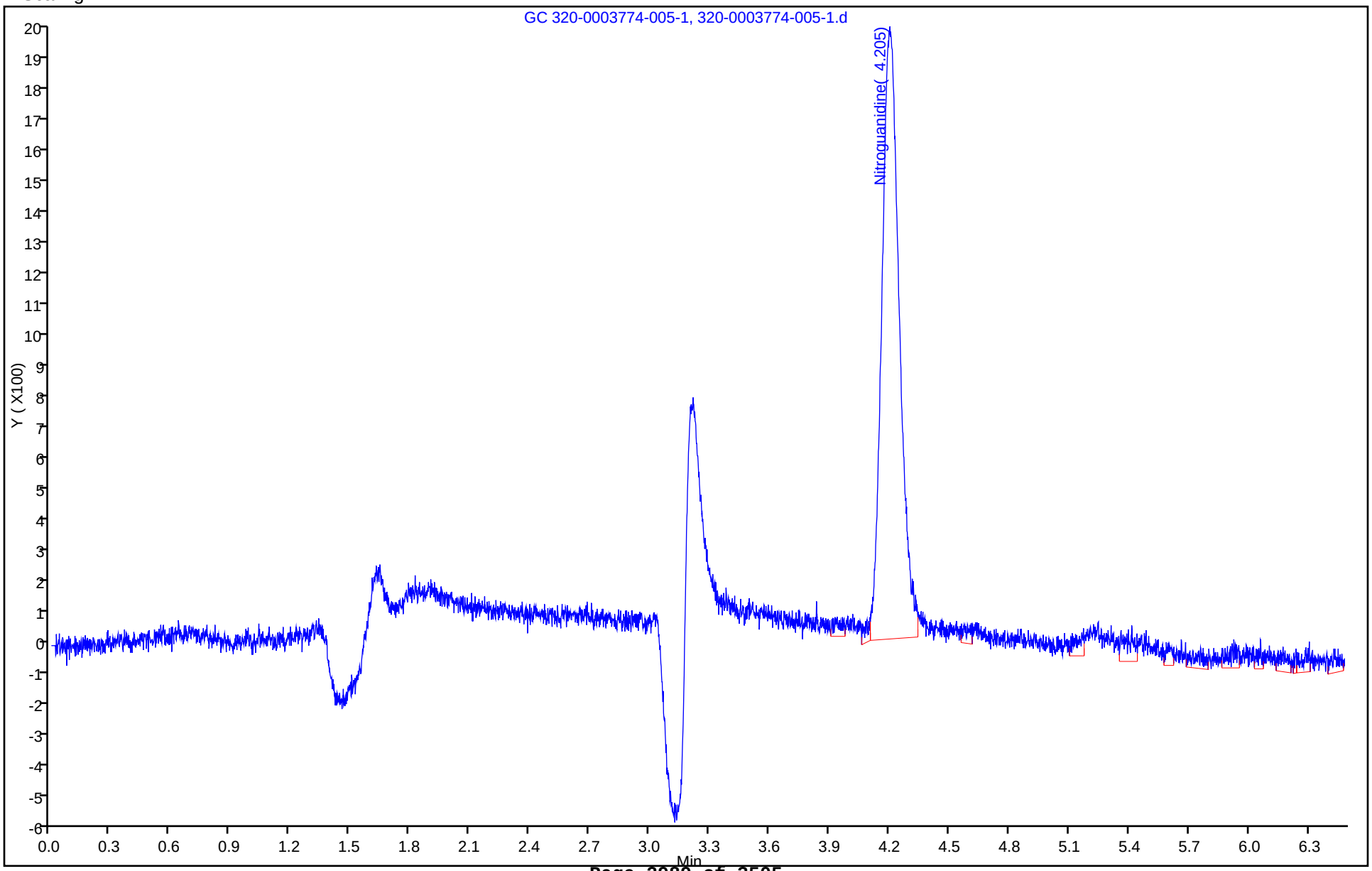
Report Date: 10-Apr-2013 10:05:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-005-1.d

Injection Date:	09-Apr-2013 13:39:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	5
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-006-1.d		
Lims ID:	std04	Client ID:	
Inject. Date:	09-Apr-2013 13:56:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	320-0003774-006 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	6
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-006-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:31	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		
First Level Reviewer: russellk		Date:	10-Apr-2013 09:50:05

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.185	4.192	-0.007	4376	106.9	

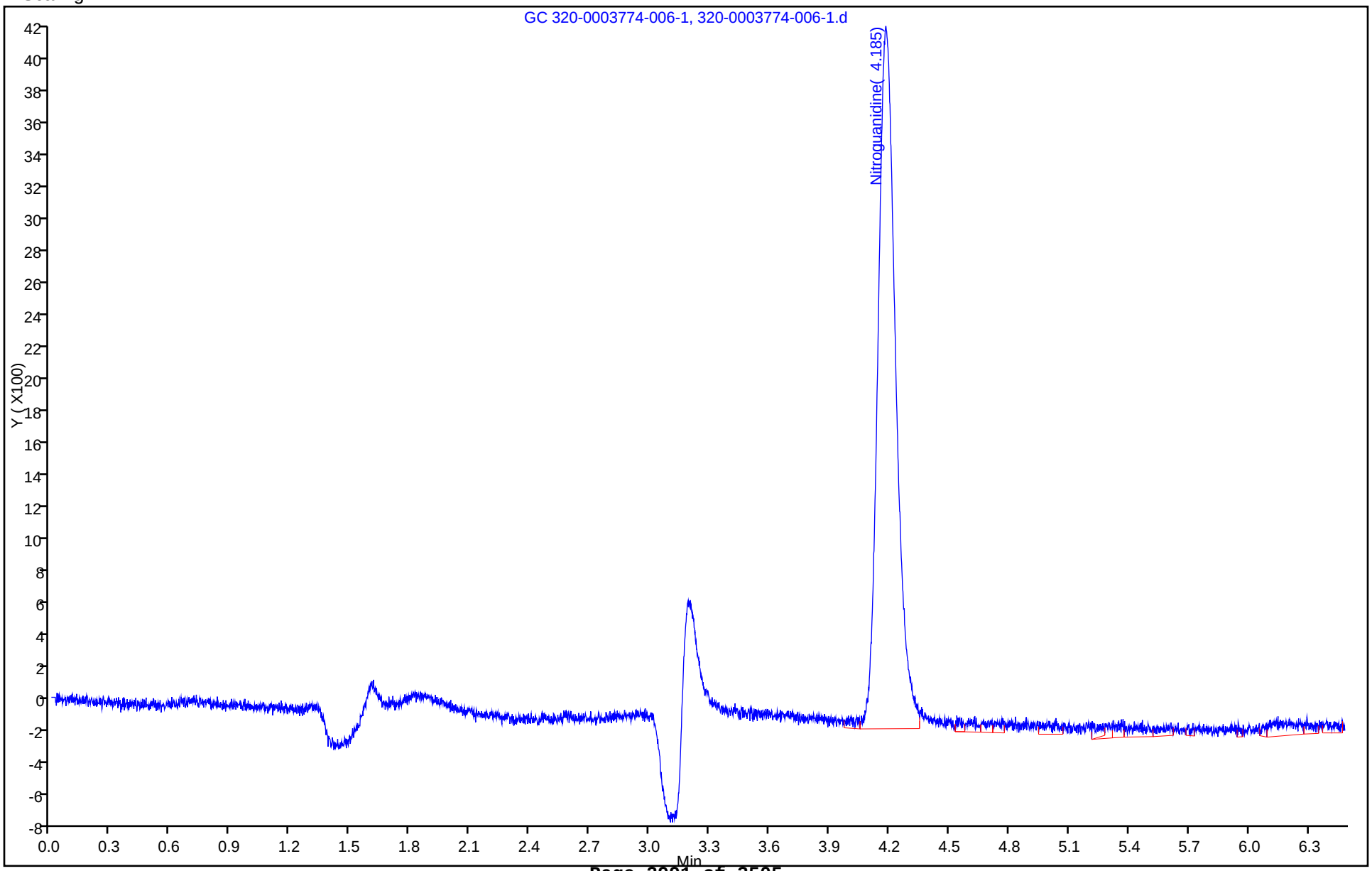
Report Date: 10-Apr-2013 10:05:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-006-1.d

Injection Date:	09-Apr-2013 13:56:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	6
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-007-1.d		
Lims ID:	std05	Client ID:	
Inject. Date:	09-Apr-2013 14:14:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	320-0003774-007 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	7
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-007-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:31	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		
First Level Reviewer: russellk		Date:	10-Apr-2013 09:50:09

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.187	4.187	0.0	8052	196.6	

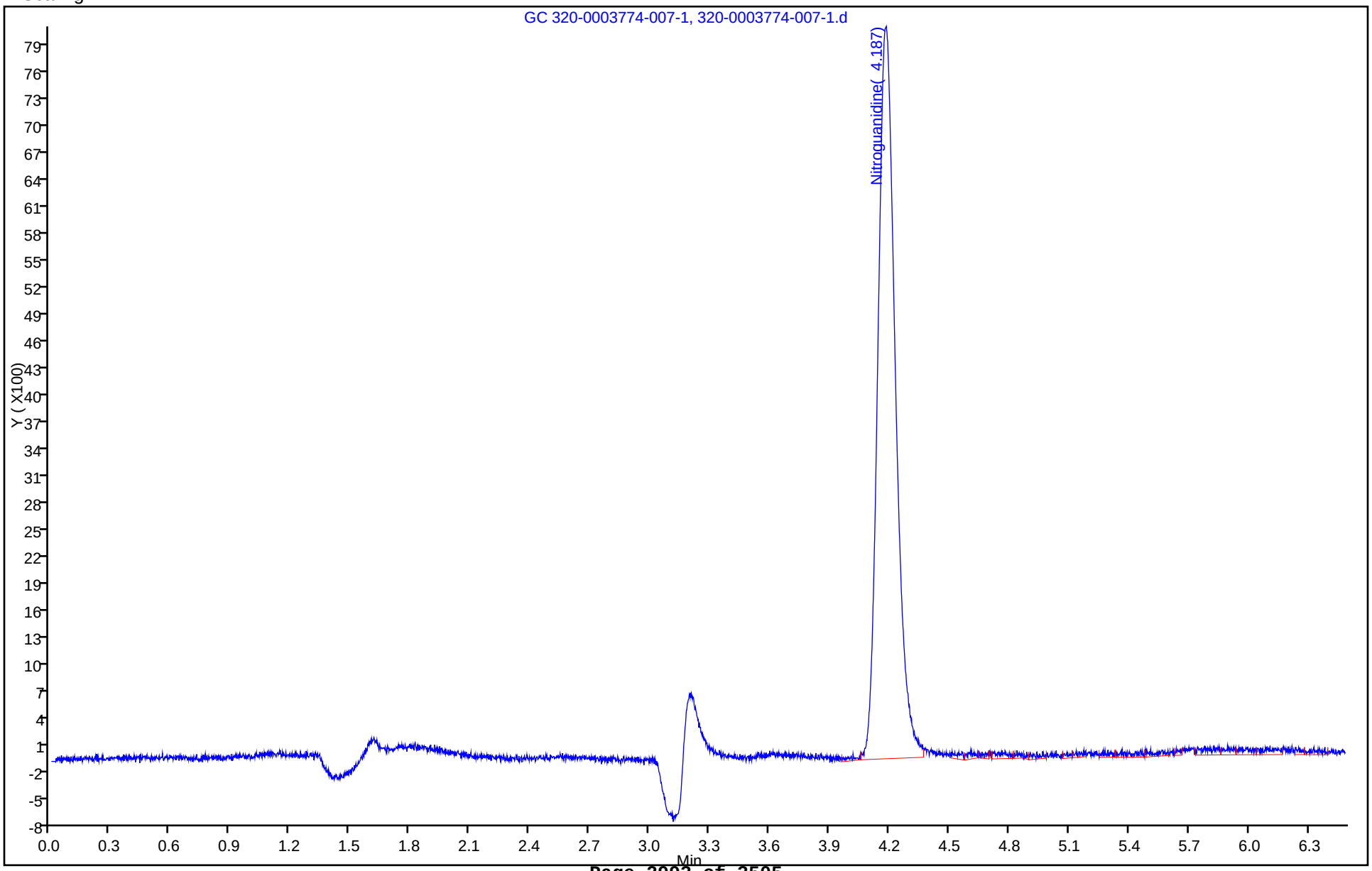
Report Date: 10-Apr-2013 10:05:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-007-1.d

Injection Date:	09-Apr-2013 14:14:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	7
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-008-1.d		
Lims ID:	std06	Client ID:	
Inject. Date:	09-Apr-2013 14:32:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	320-0003774-008 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	8
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-008-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:11

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.192	4.187	0.005	19999	488.4	

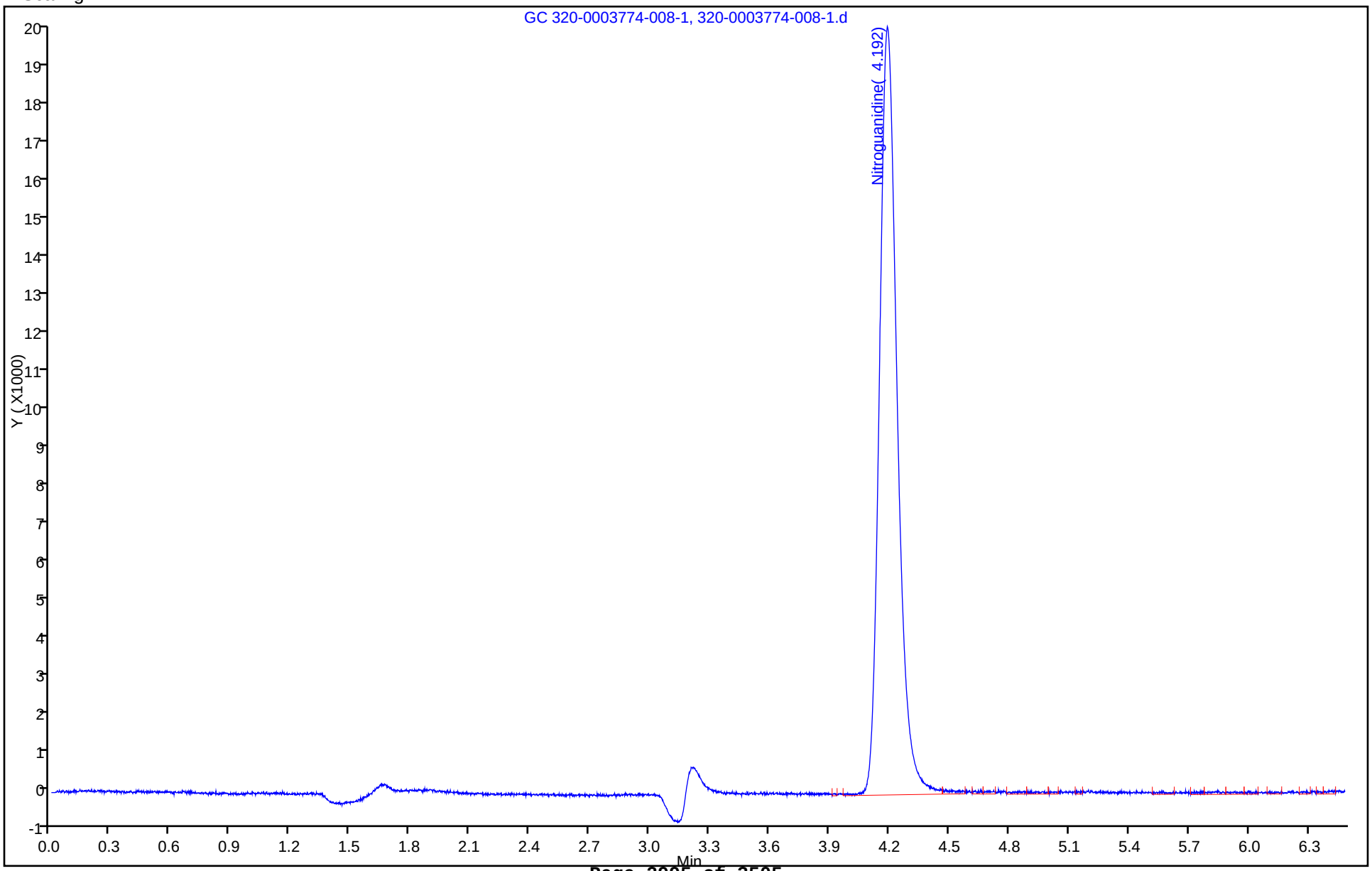
Report Date: 10-Apr-2013 10:05:32 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-008-1.d

Injection Date:	09-Apr-2013 14:32:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	8
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Lims ID:	std07	Client ID:	
Inject. Date:	09-Apr-2013 14:50:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	320-0003774-009 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	9
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003774-009-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:14

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.173	4.187	-0.014	38542	941.2	

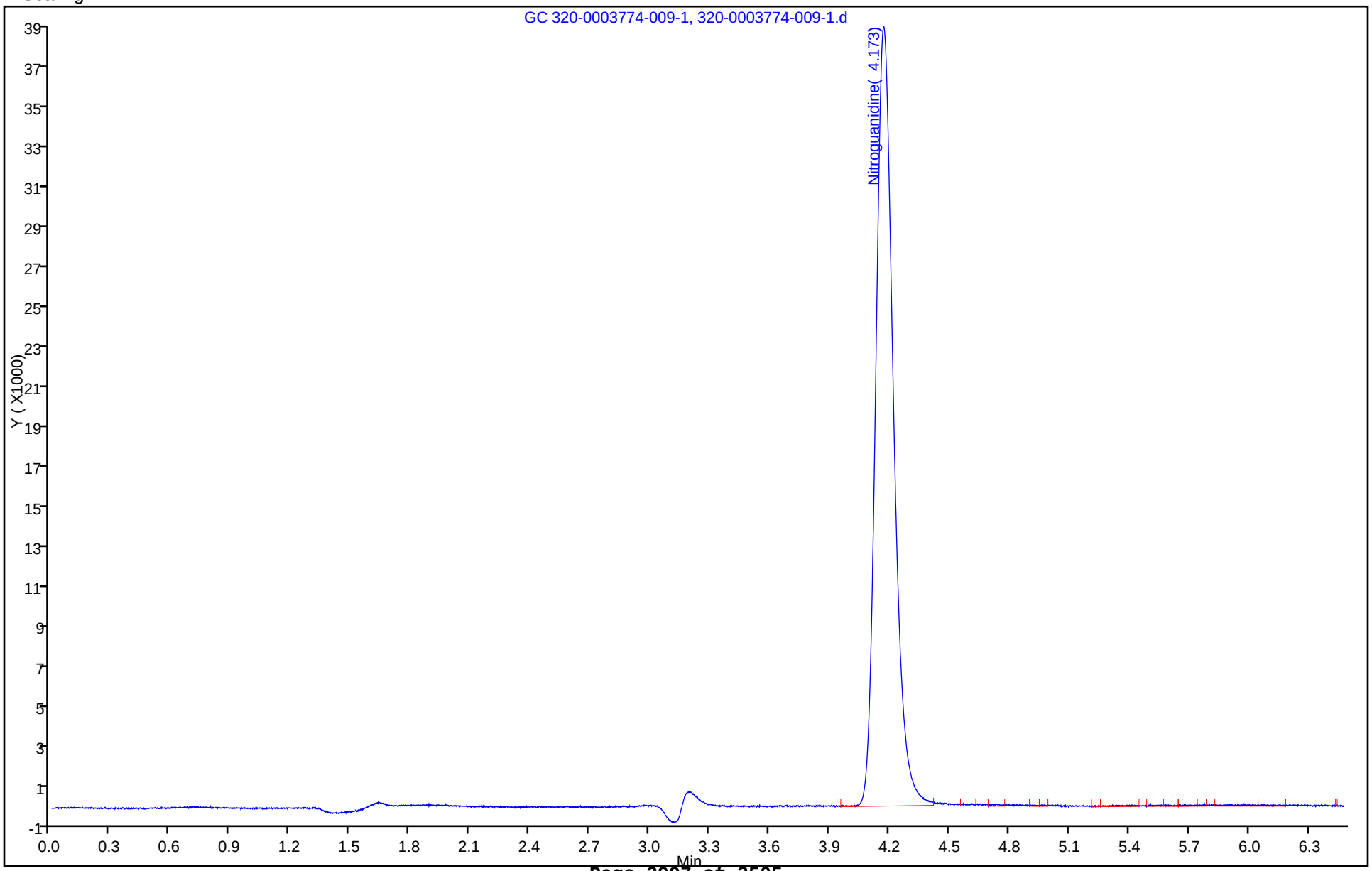
Report Date: 10-Apr-2013 10:05:32 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d

Injection Date:	09-Apr-2013 14:50:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	9
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 320-13890/11 Calibration Date: 04/09/2013 15:25

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-011-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	39.58		193	200	-3.3	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 320-13890/11 Calibration Date: 04/09/2013 15:25

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-011-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-011-1.d		
Lims ID:	icv	Client ID:	
Inject. Date:	09-Apr-2013 15:25:00	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	320-0003774-011 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	11
Sublist:			
Detector:	GC 320-0003774-011-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:50:23

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.192	4.187	0.005	7916	193.3	

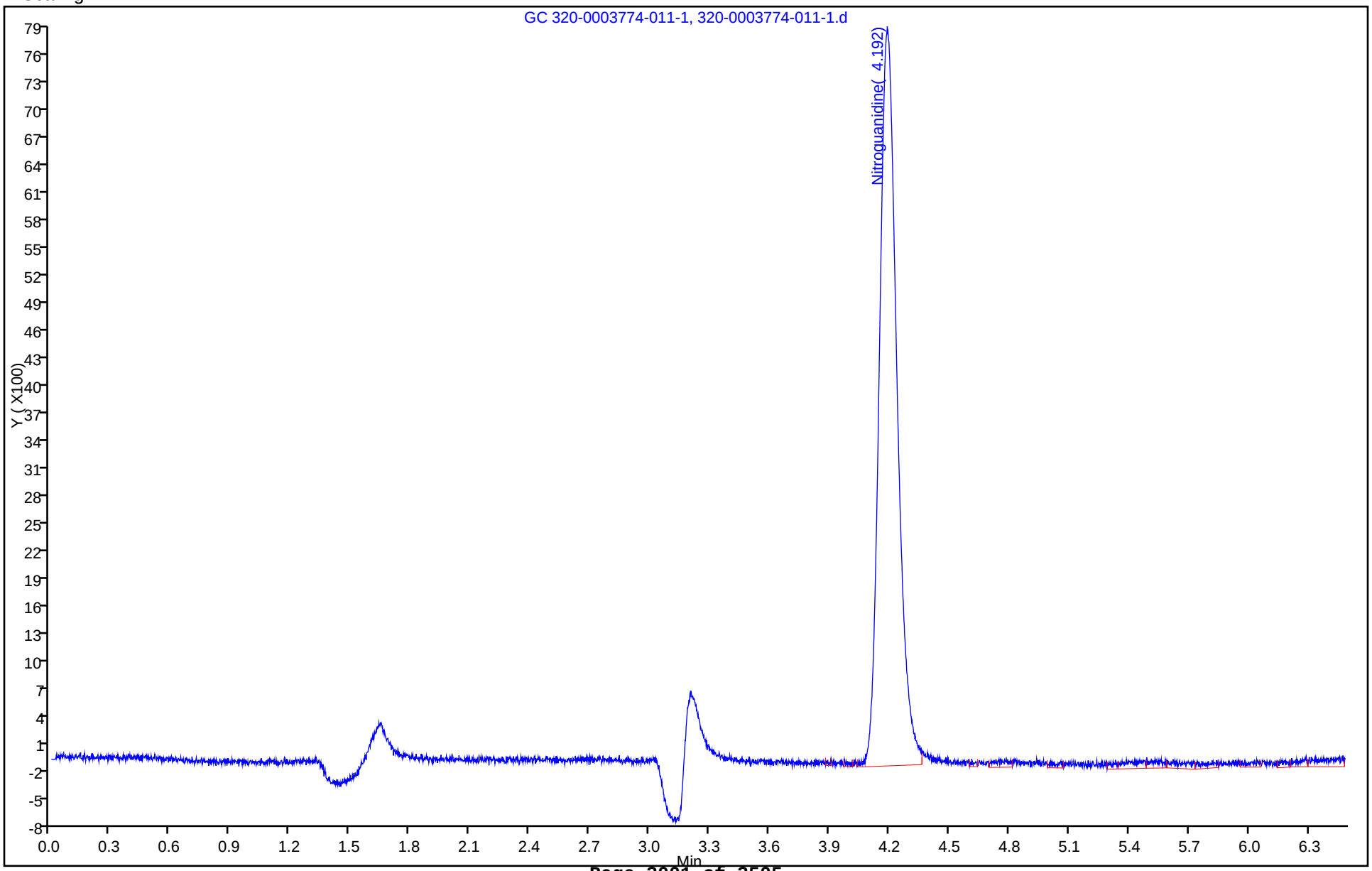
Report Date: 10-Apr-2013 10:05:33 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-011-1.d

Injection Date:	09-Apr-2013 15:25:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	11
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: LODV 320-13890/12 Calibration Date: 04/09/2013 15:43

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-012-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	63.40		7.74	5.00	54.8	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: LODV 320-13890/12 Calibration Date: 04/09/2013 15:43

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003774-012-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.19	3.94	4.44

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-012-1.d		
Lims ID:	LODV	Client ID:	
Inject. Date:	09-Apr-2013 15:43:00	Dil. Factor:	1.0000
Sample Type:	LODV		
Sample ID:	320-0003774-012 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	13890	Lims Sample ID:	12
Detector:	GC 320-0003774-012-1		
Method:	\\SACChrom\ChromData\PDA1\20130409-3774.b\NGu Primary.m		
Last Update:	10-Apr-2013 10:05:32	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK037		

First Level Reviewer: russellk Date: 10-Apr-2013 09:28:29

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					M
4.193	4.187	0.006	317	7.74	M

QC Flag Legend

Review Flags
M - Manually Integrated

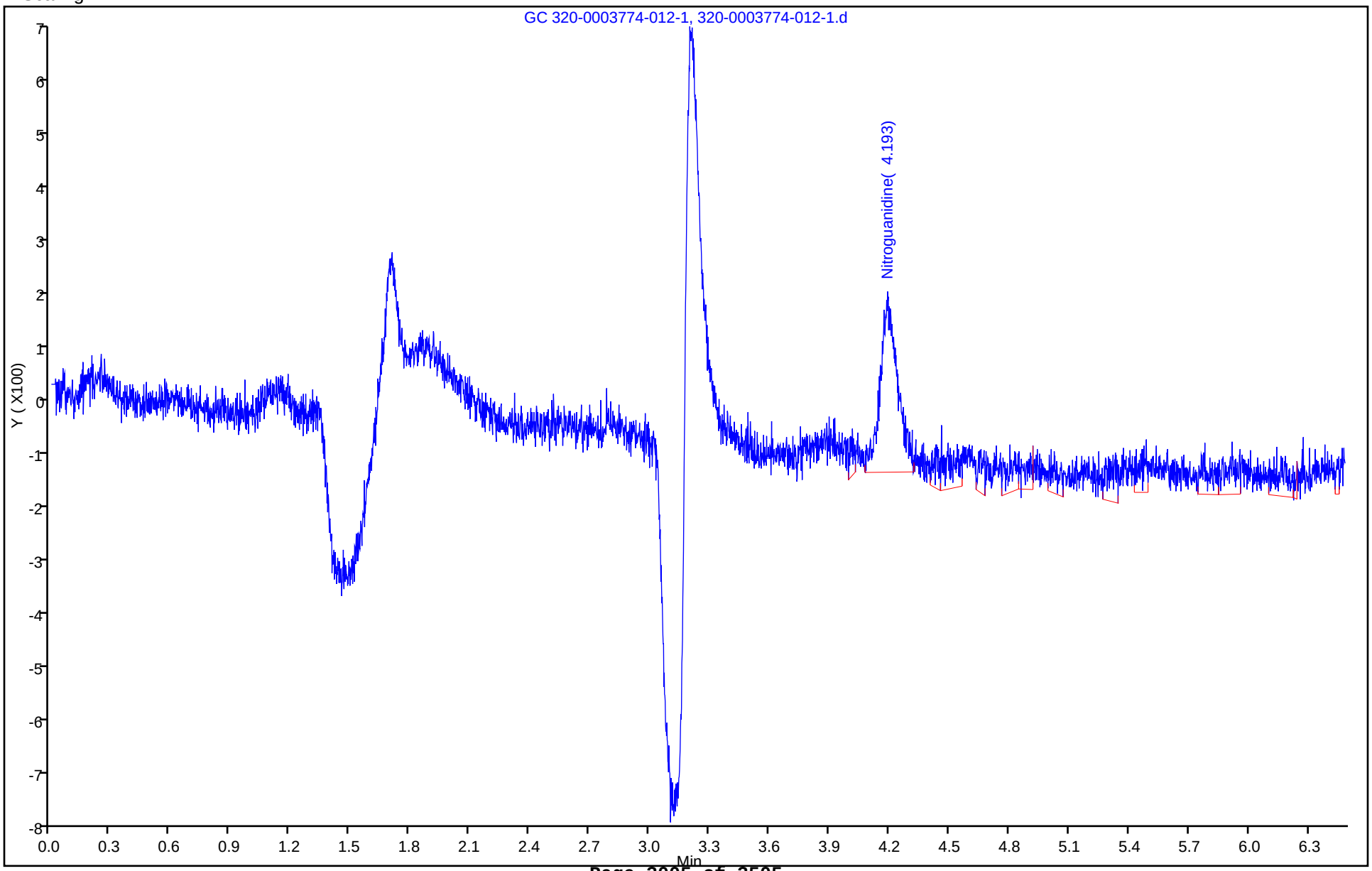
Report Date: 10-Apr-2013 10:05:33 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-012-1.d

Injection Date:	09-Apr-2013 15:43:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	12
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



Manual Integration/User Assign Peak Report

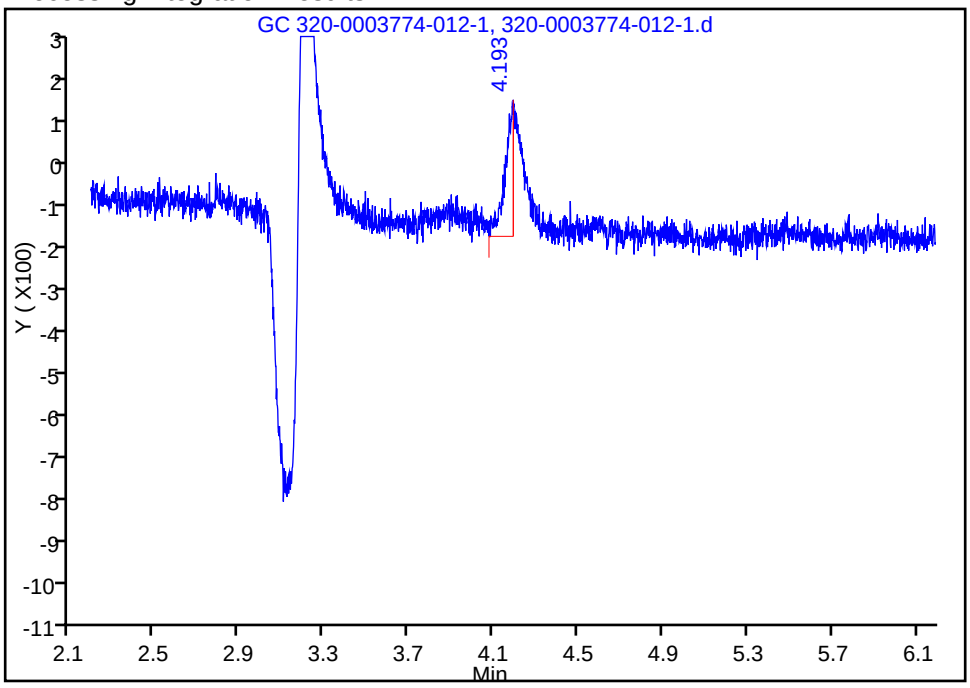
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-012-1.d		
Injection Date:	09-Apr-2013 15:43:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	13890	Lims Sample ID:	12
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

1 Nitroguanidine, Signal: 1, Type: quant, RT: 4.19

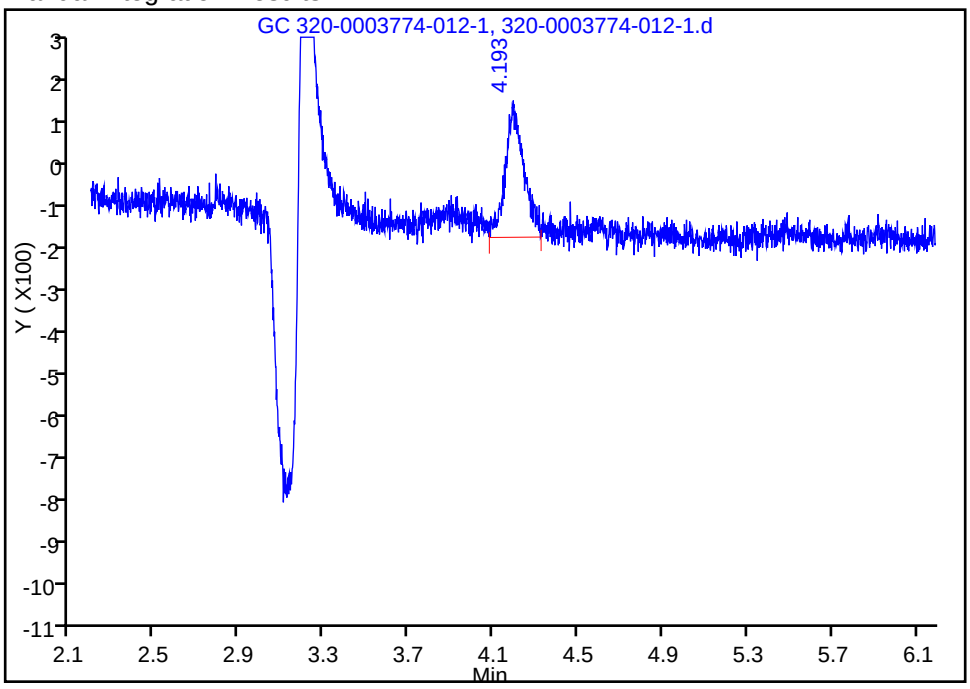
Processing Integration Results

RT: 4.19
Response: 317
Amount: 7.740833



Manual Integration Results

RT: 4.19
Response: 317
Amount: 7.740833



Reviewer: russellk, 10-Apr-2013 09:44:08
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14432/4 Calibration Date: 04/16/2013 13:16

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-004-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	42.85		20.9	20.0	4.6	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14432/4 Calibration Date: 04/16/2013 13:16

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-004-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.22	3.97	4.47

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-004-1.d		
Lims ID:	CCVL	Client ID:	
Inject. Date:	16-Apr-2013 13:16:00	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003925-004 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	4
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003925-004-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	16-Apr-2013 16:06:02	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK022		
First Level Reviewer: russellk		Date:	16-Apr-2013 13:38:13

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.223	4.223	0.0	857	20.9	

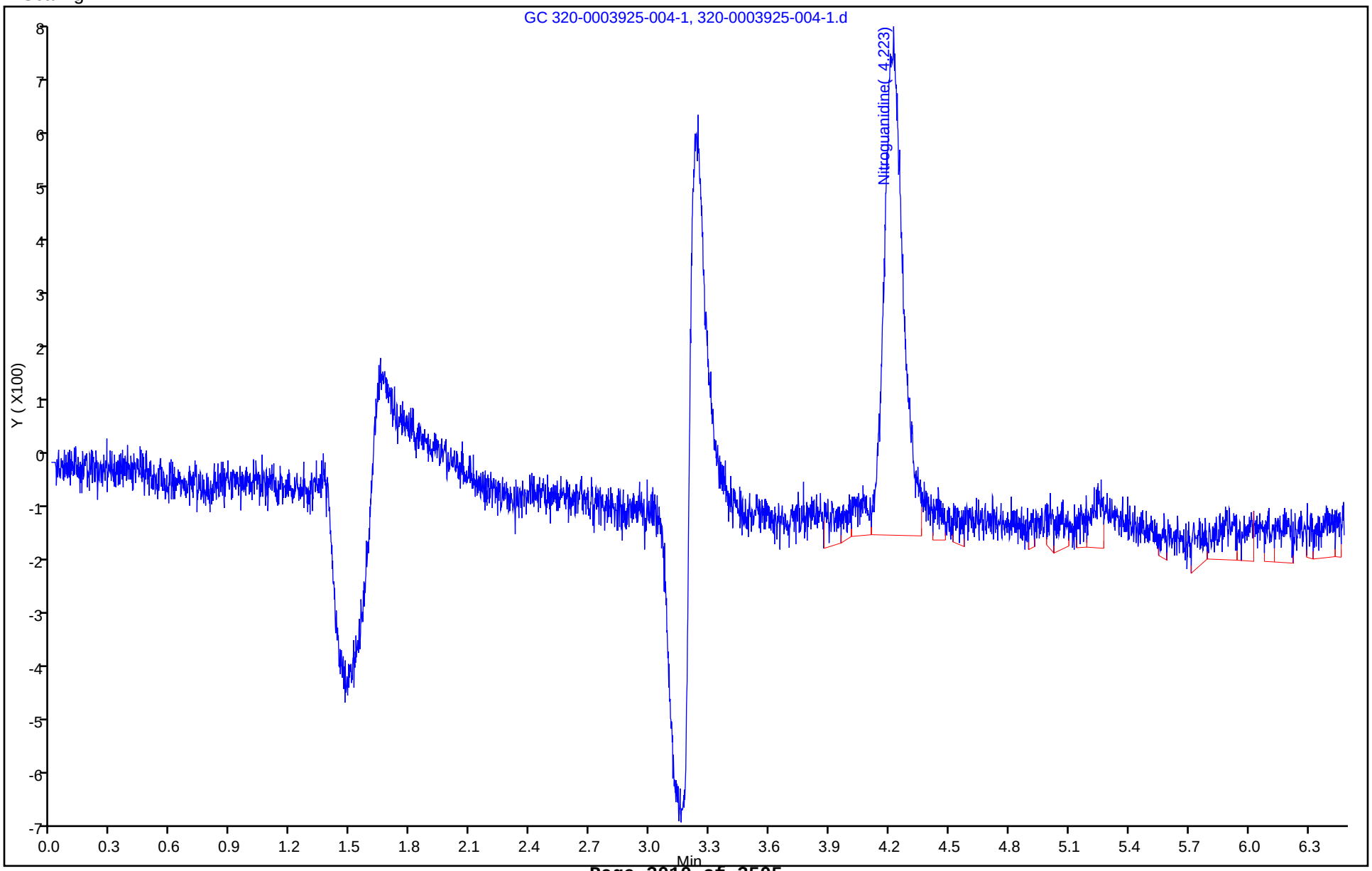
Report Date: 16-Apr-2013 16:06:03 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-004-1.d

Injection Date:	16-Apr-2013 13:16:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	4
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14432/15 Calibration Date: 04/16/2013 16:31

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-015-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	41.96		102	100	2.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14432/15 Calibration Date: 04/16/2013 16:31

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-015-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.23	3.98	4.48

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-015-1.d		
Lims ID:	CCV 04	Client ID:	
Inject. Date:	16-Apr-2013 16:31:00	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003925-015 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	15
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003925-015-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	16-Apr-2013 16:45:19	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK022		

First Level Reviewer: russellk Date: 16-Apr-2013 16:45:19

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.228	4.228	0.0	4196	102.5	

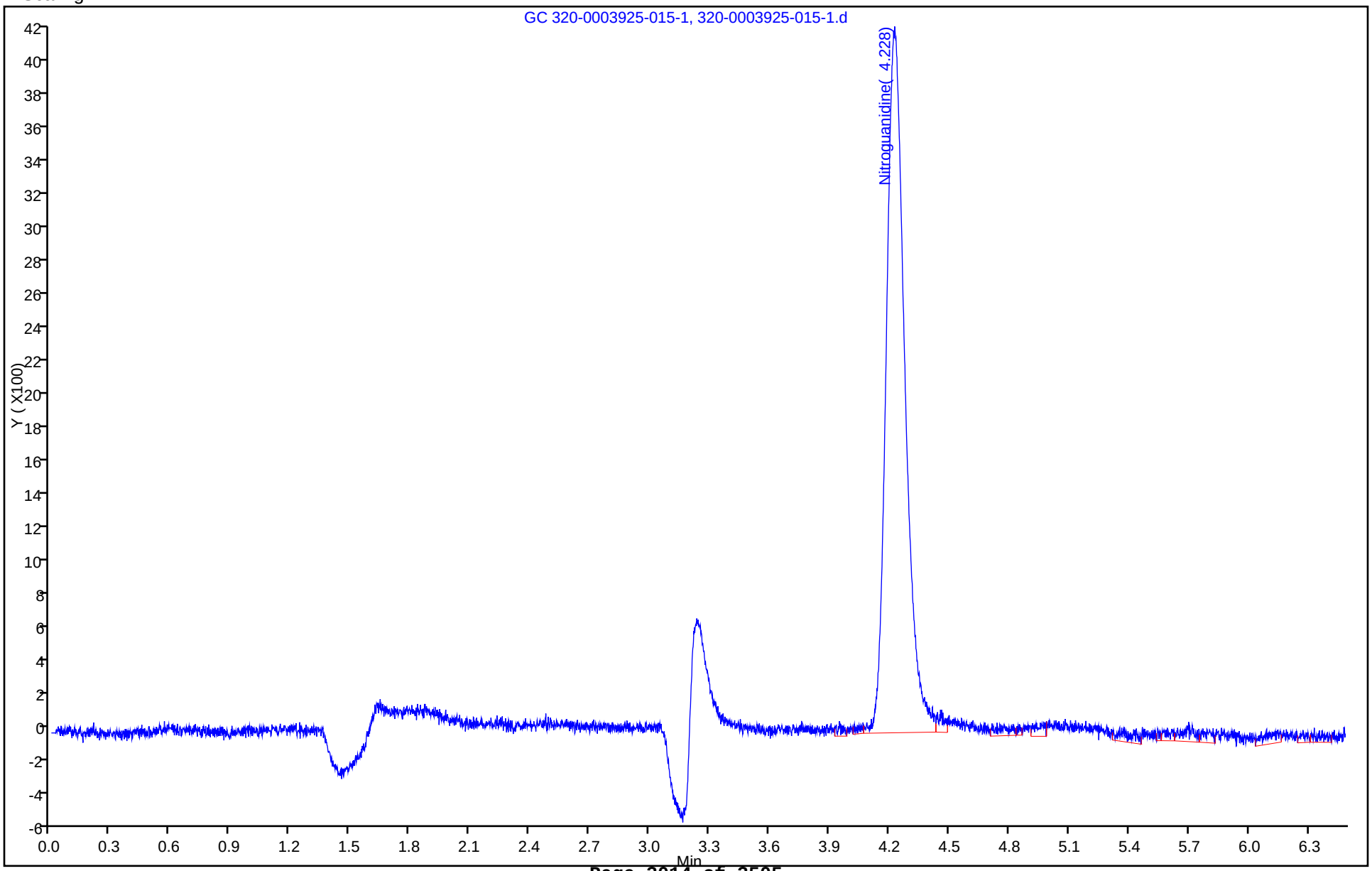
Report Date: 16-Apr-2013 16:45:19 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-015-1.d

Injection Date:	16-Apr-2013 16:31:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	15
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14432/26 Calibration Date: 04/16/2013 19:46

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-026-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	41.78		102	100	2.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14432/26 Calibration Date: 04/16/2013 19:46

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-026-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.21	3.96	4.46

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-026-1.d		
Lims ID:	CCV 04	Client ID:	
Inject. Date:	16-Apr-2013 19:46:00	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003925-026 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	26
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003925-026-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:35:35	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:35:35

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.205	4.205	0.0	4178	102.0	

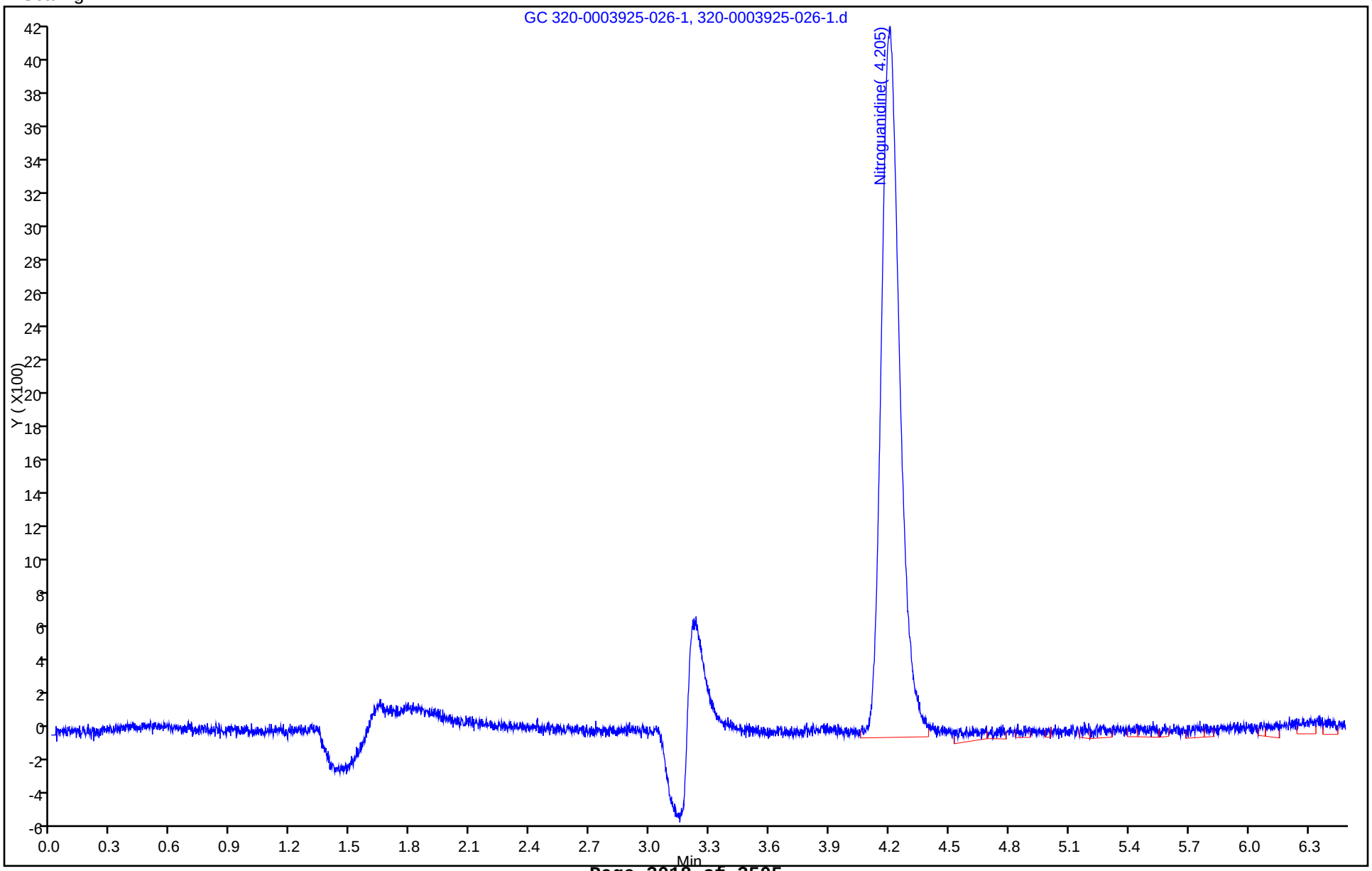
Report Date: 17-Apr-2013 09:35:35 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-026-1.d

Injection Date:	16-Apr-2013 19:46:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	26
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14432/35 Calibration Date: 04/16/2013 22:26

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-035-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	41.95		102	100	2.4	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14432/35 Calibration Date: 04/16/2013 22:26

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-035-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.22	3.97	4.47

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-035-1.d		
Lims ID:	CCV 04	Client ID:	
Inject. Date:	16-Apr-2013 22:26:00	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0003925-035 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	35
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003925-035-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:40:27	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.215	4.215	0.0	4195	102.4	

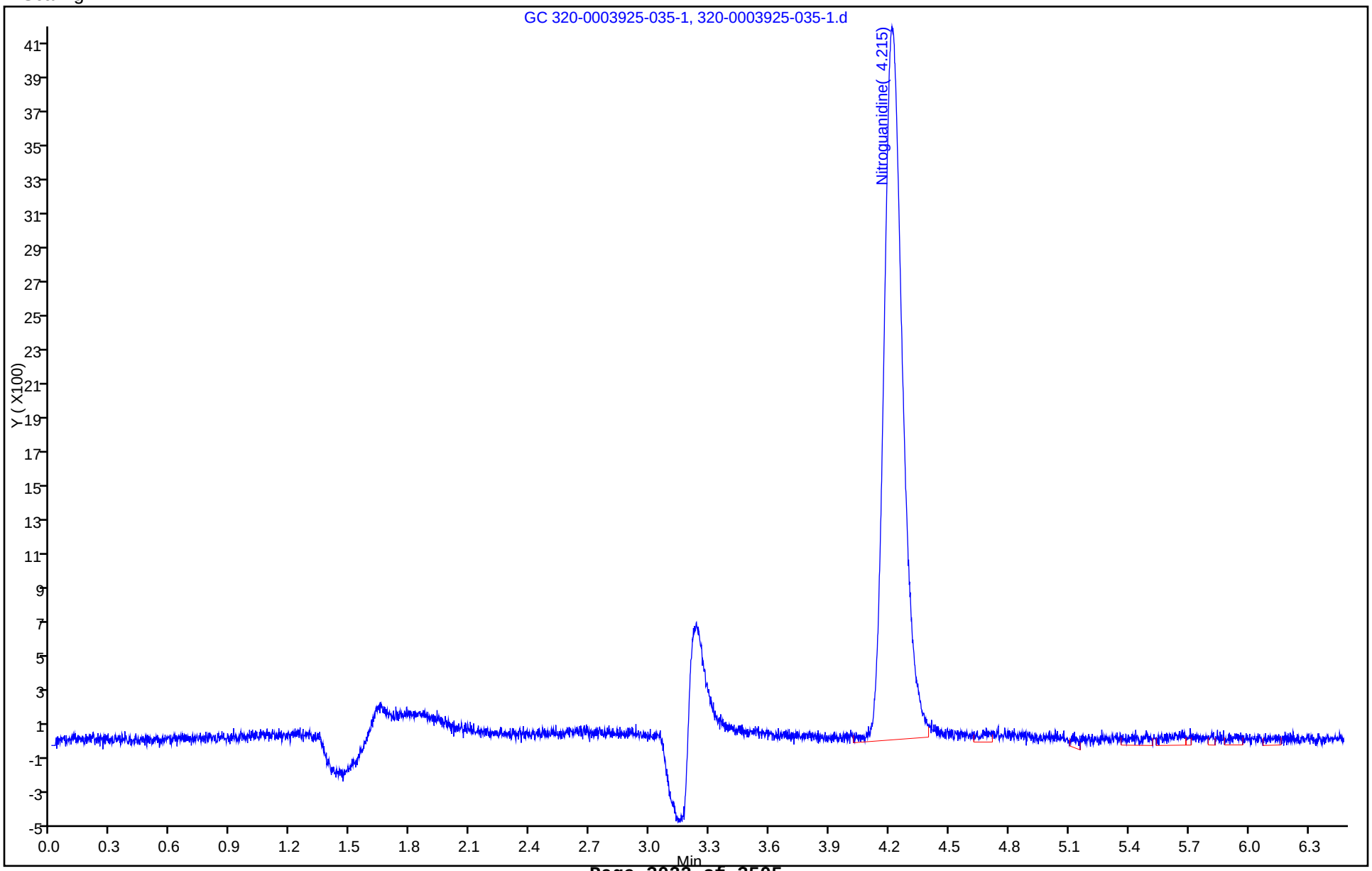
Report Date: 17-Apr-2013 09:40:27 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-035-1.d

Injection Date:	16-Apr-2013 22:26:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	35
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14432/36 Calibration Date: 04/16/2013 22:44

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-036-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	40.95	41.70		20.4	20.0	1.8	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14432/36 Calibration Date: 04/16/2013 22:44

Instrument ID: PDA1 Calib Start Date: 04/09/2013 13:21

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/09/2013 14:50

Lab File ID: 320-0003925-036-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.21	3.96	4.46

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-036-1.d		
Lims ID:	CCVL	Client ID:	
Inject. Date:	16-Apr-2013 22:44:00	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0003925-036 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	36
Sublist:	chrom-NGu Primary*sub1		
Detector:	GC 320-0003925-036-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:40:11	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		
First Level Reviewer: russellk		Date:	17-Apr-2013 09:39:13

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.208	4.208	0.0	834	20.4	

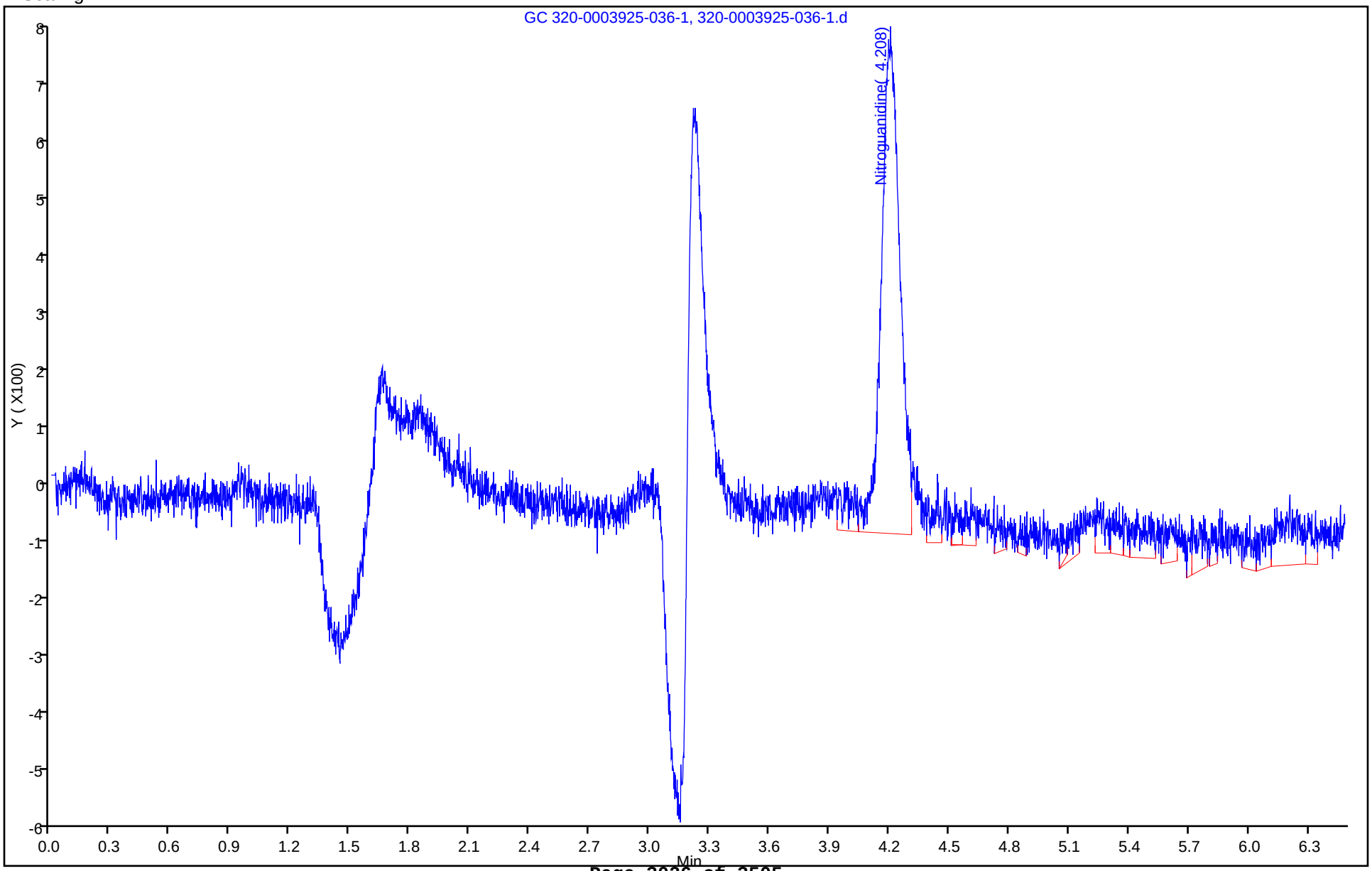
Report Date: 17-Apr-2013 09:40:12 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-036-1.d

Injection Date:	16-Apr-2013 22:44:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	36
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-14079/1-A

Matrix: Solid Lab File ID: 320-0003925-017-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.00(g) Date Analyzed: 04/16/2013 17:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.040	U	0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-017-1.d		
Lims ID:	MB 320-14079/1-A	Client ID:	
Inject. Date:	16-Apr-2013 17:06:00	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0003925-017 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	17
Detector:	GC 320-0003925-017-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:33:13	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:33:23

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags

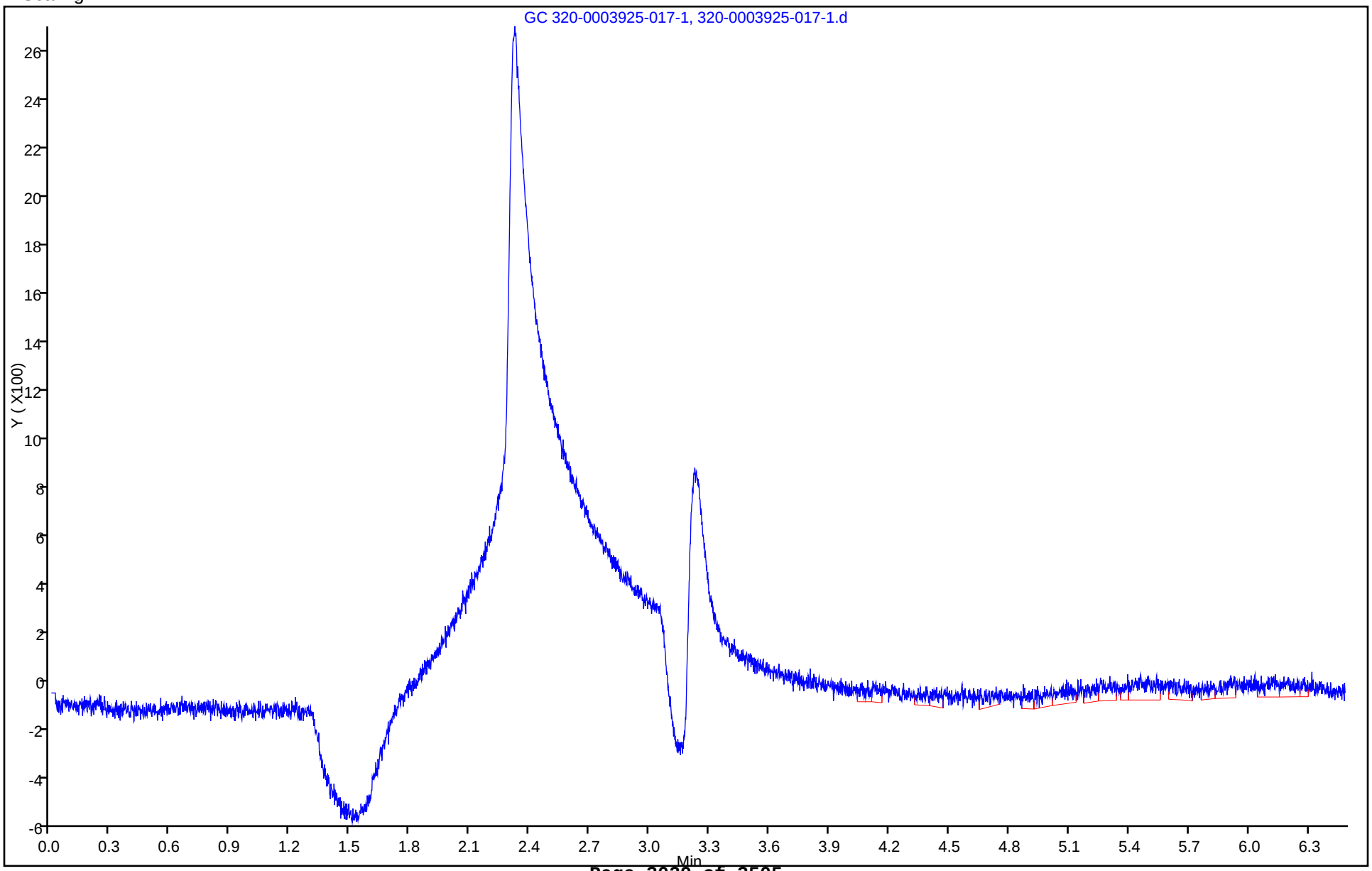
Report Date: 17-Apr-2013 09:33:23 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-017-1.d

Injection Date:	16-Apr-2013 17:06:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	17
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-14079/2-A

Matrix: Solid Lab File ID: 320-0003925-018-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.00(g) Date Analyzed: 04/16/2013 17:24

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.880		0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-018-1.d		
Lims ID:	LCS 320-14079/2-A	Client ID:	
Inject. Date:	16-Apr-2013 17:24:00	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	320-0003925-018 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	18
Detector:	GC 320-0003925-018-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:33:46	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:33:46

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.202	4.208	-0.006	7209	176.0	

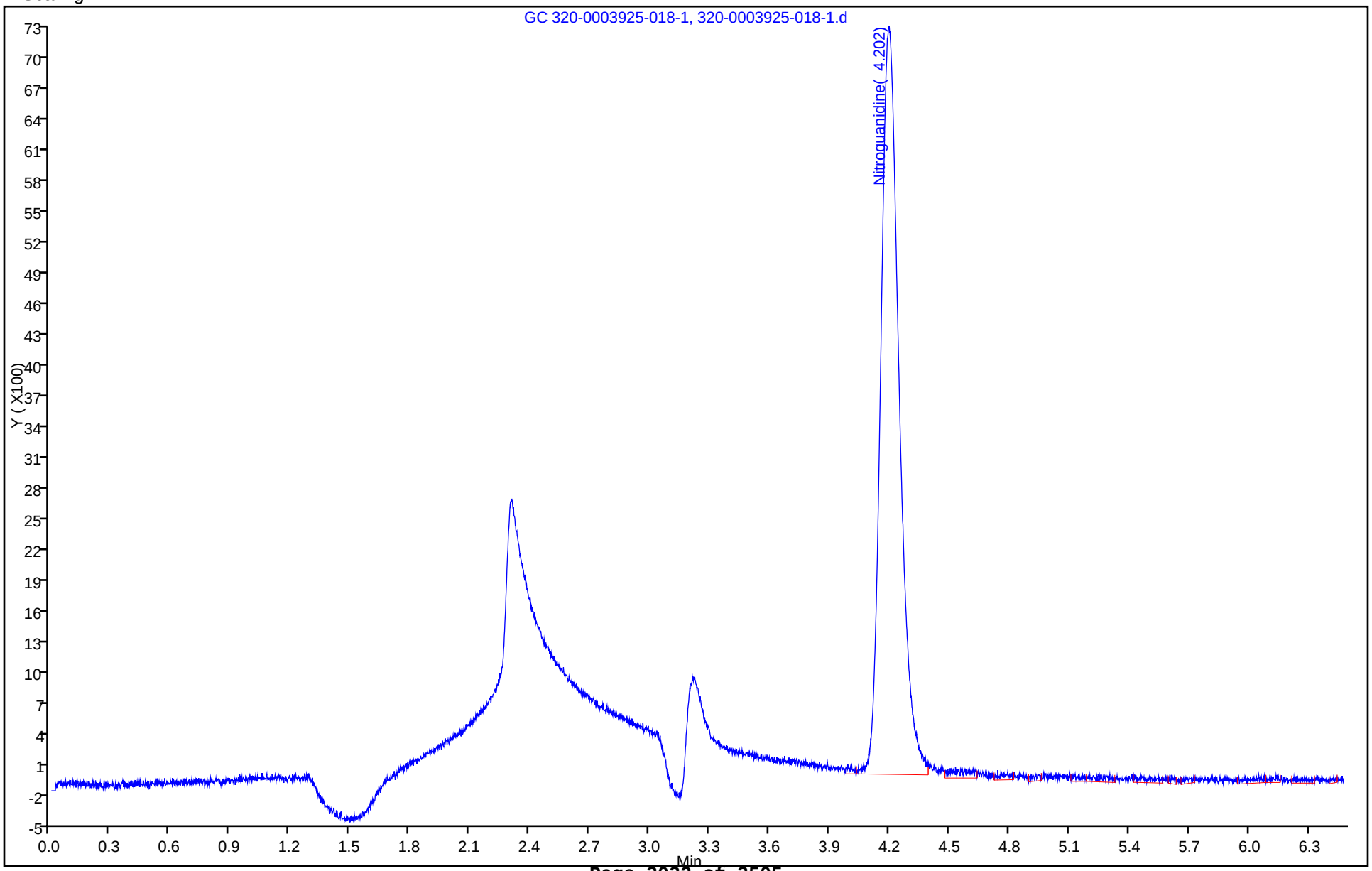
Report Date: 17-Apr-2013 09:33:46 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-018-1.d

Injection Date:	16-Apr-2013 17:24:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	18
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO MS Lab Sample ID: 240-22663-4 MS

Matrix: Solid Lab File ID: 320-0003925-029-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 10:12

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.00(g) Date Analyzed: 04/16/2013 20:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.855		0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-029-1.d		
Lims ID:	240-22663-F-4-E MS	Client ID:	
Inject. Date:	16-Apr-2013 20:39:00	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	320-0003925-029 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	29
Detector:	GC 320-0003925-029-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:36:14	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:36:14

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.185	4.205	-0.020	7004	171.0	

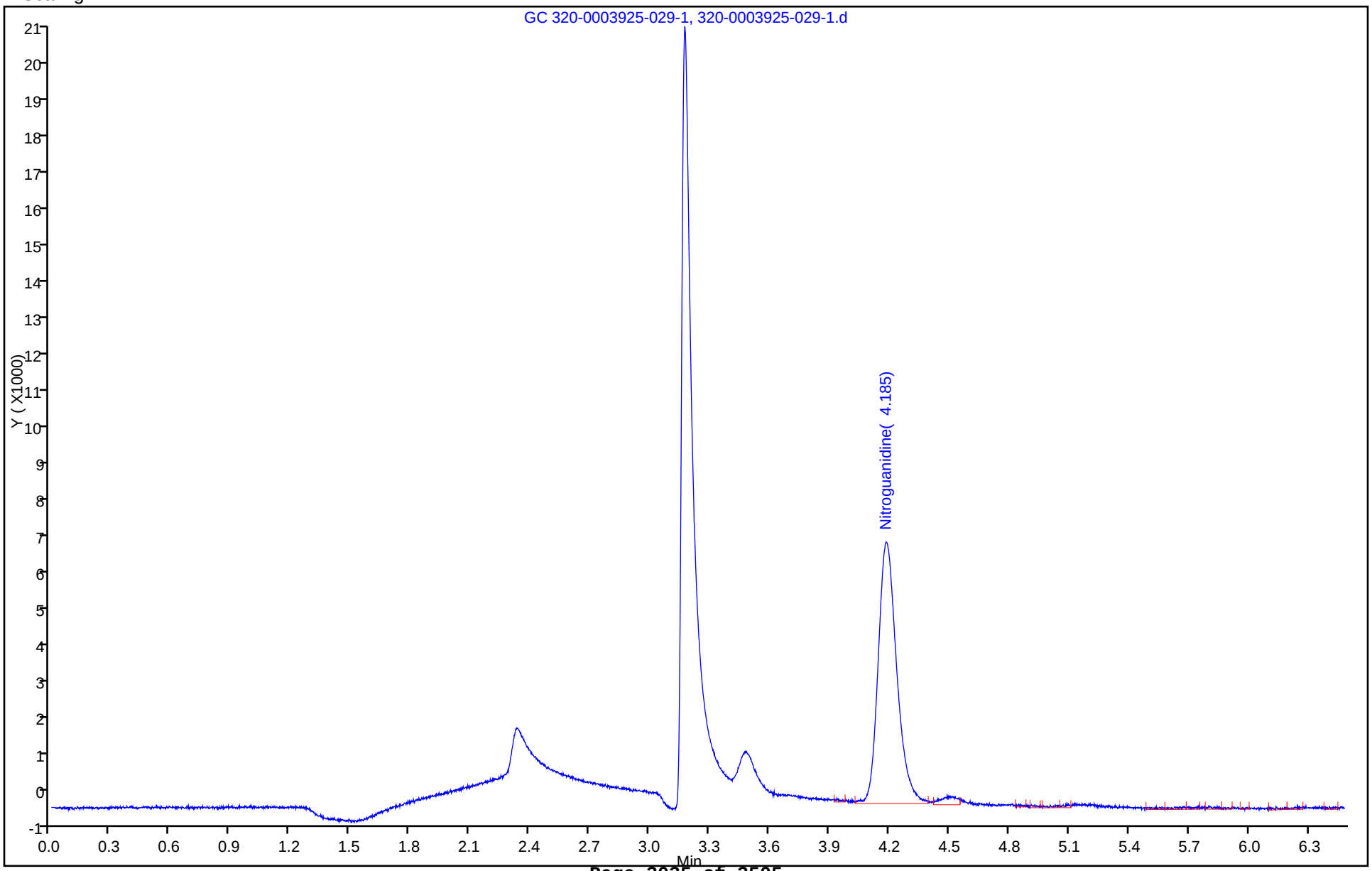
Report Date: 17-Apr-2013 09:36:14 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-029-1.d

Injection Date:	16-Apr-2013 20:39:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	29
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO MSD Lab Sample ID: 240-22663-4 MSD

Matrix: Solid Lab File ID: 320-0003925-030-1.d

Analysis Method: 8330 Modified Date Collected: 04/01/2013 10:12

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/11/2013 10:07

Sample wt/vol: 2.04(g) Date Analyzed: 04/16/2013 20:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 14432 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.845		0.25	0.039	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-030-1.d		
Lims ID:	240-22663-F-4-F MSD	Client ID:	
Inject. Date:	16-Apr-2013 20:57:00	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	320-0003925-030 Analysis		
Misc. Info.:	none PRIMER		
Operator:	KR	Instrument ID:	PDA1
Injection Vol:	50.0 ul	ALS Bottle#:	0
Lims Batch ID:	14432	Lims Sample ID:	30
Detector:	GC 320-0003925-030-1		
Method:	\\SACChrom\ChromData\PDA1\20130416-3925.b\NGu Primary.m		
Last Update:	17-Apr-2013 09:36:30	Calib Date:	09-Apr-2013 14:50:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\PDA1\20130409-3774.b\320-0003774-009-1.d		
Limit Group:	LC 8330 Ngu ICAL		
Integrator:	Falcon		
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm
Process Host:	XAWRK013		

First Level Reviewer: russellk Date: 17-Apr-2013 09:36:30

RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
1 Nitroguanidine					
4.208	4.205	0.003	7059	172.4	

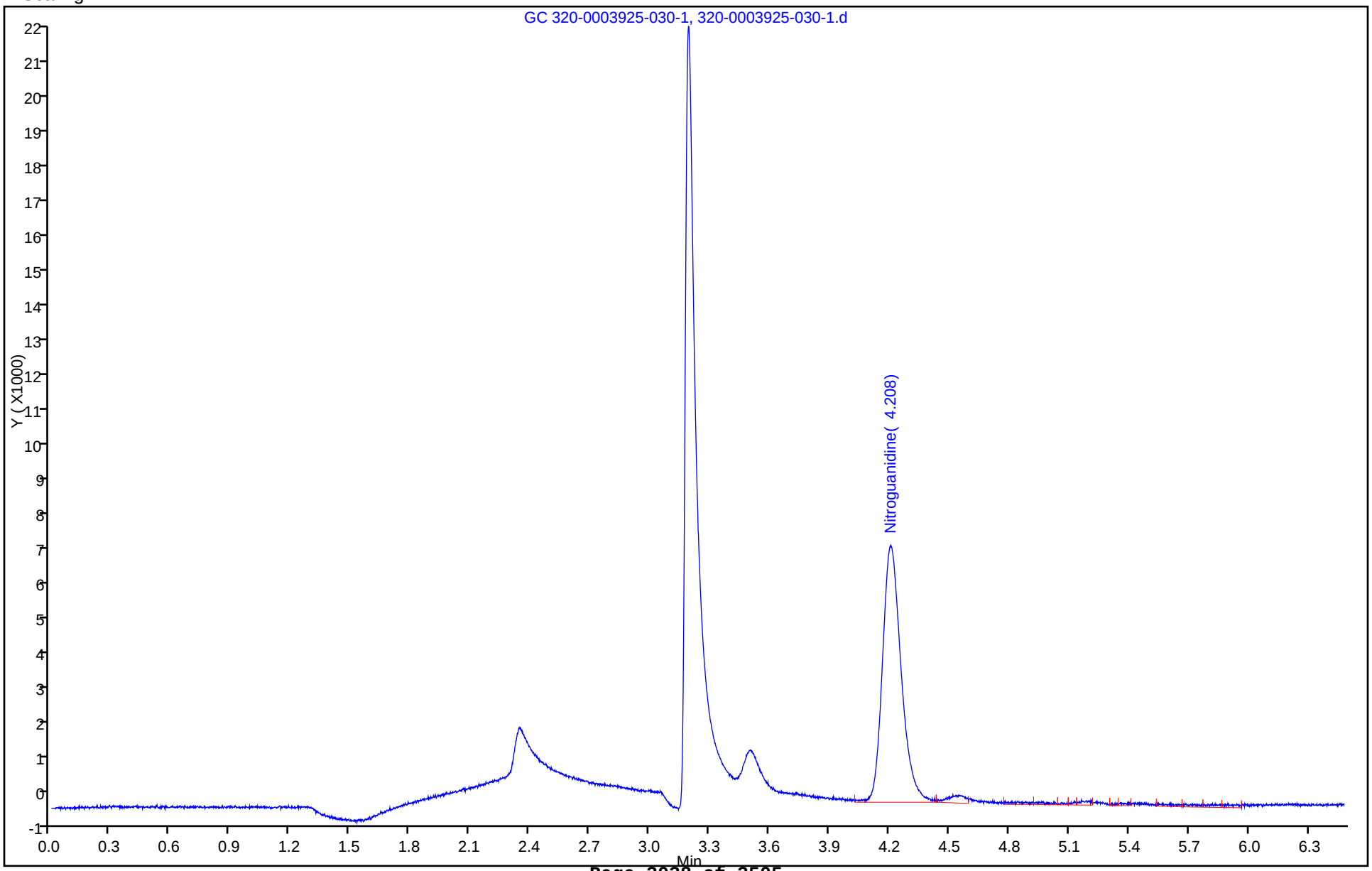
Report Date: 17-Apr-2013 09:36:30 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20130416-3925.b\320-0003925-030-1.d

Injection Date:	16-Apr-2013 20:57:00	Limit Group:	LC 8330 Ngu ICAL
Client ID:		Instrument ID:	PDA1
Lims Batch ID:	14432	Lims Sample ID:	30
Operator ID:	KR	Injection Vol:	50.0 ul
Column Type:	Luna 5u NH2 100A	Column Dia:	4.60 mm

Y Scaling:



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/09/2013 13:03

Analysis Batch Number: 13890 End Date: 04/09/2013 16:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 13:03	1		Luna NH2 4.6(mm)
STD02 320-13890/4 IC		04/09/2013 13:21	1	320-0003774-004 -1.d	Luna NH2 4.6(mm)
STD03 320-13890/5 IC		04/09/2013 13:39	1	320-0003774-005 -1.d	Luna NH2 4.6(mm)
STD04 320-13890/6 IC		04/09/2013 13:56	1	320-0003774-006 -1.d	Luna NH2 4.6(mm)
STD05 320-13890/7 IC		04/09/2013 14:14	1	320-0003774-007 -1.d	Luna NH2 4.6(mm)
STD06 320-13890/8 IC		04/09/2013 14:32	1	320-0003774-008 -1.d	Luna NH2 4.6(mm)
STD07 320-13890/9 IC		04/09/2013 14:50	1	320-0003774-009 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/09/2013 15:08	1		Luna NH2 4.6(mm)
ICV 320-13890/11		04/09/2013 15:25	1	320-0003774-011 -1.d	Luna NH2 4.6(mm)
LODV 320-13890/12		04/09/2013 15:43	1	320-0003774-012 -1.d	Luna NH2 4.6(mm)
CCVL 320-13890/13		04/09/2013 16:01	1		Luna NH2 4.6(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: PDA1 Start Date: 04/16/2013 12:58

Analysis Batch Number: 14432 End Date: 04/16/2013 22:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-14432/3 CCVRT		04/16/2013 12:58	1		Luna NH2 4.6(mm)
CCVL 320-14432/4		04/16/2013 13:16	1	320-0003925-004 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 13:33	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 13:51	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 14:09	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 14:27	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 14:44	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 15:02	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 15:20	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 15:38	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 15:55	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 16:13	1		Luna NH2 4.6(mm)
CCV 320-14432/15 CCVRT		04/16/2013 16:31	1	320-0003925-015 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 16:49	1		Luna NH2 4.6(mm)
MB 320-14079/1-A		04/16/2013 17:06	1	320-0003925-017 -1.d	Luna NH2 4.6(mm)
LCS 320-14079/2-A		04/16/2013 17:24	1	320-0003925-018 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 17:42	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 18:00	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 18:17	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 18:35	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 18:53	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 19:11	1		Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 19:28	1		Luna NH2 4.6(mm)
CCV 320-14432/26 CCVRT		04/16/2013 19:46	1	320-0003925-026 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/16/2013 20:04	1		Luna NH2 4.6(mm)
240-22663-4	079SB-0014M-0001-SO	04/16/2013 20:22	1	320-0003925-028 -1.d	Luna NH2 4.6(mm)
240-22663-4 MS	079SB-0014M-0001-SO MS	04/16/2013 20:39	1	320-0003925-029 -1.d	Luna NH2 4.6(mm)
240-22663-4 MSD	079SB-0014M-0001-SO MSD	04/16/2013 20:57	1	320-0003925-030 -1.d	Luna NH2 4.6(mm)
240-22663-7	079SB-0017M-0001-SO	04/16/2013 21:15	1	320-0003925-031 -1.d	Luna NH2 4.6(mm)
240-22663-17	073SB-0041M-0001-SO	04/16/2013 21:33	1	320-0003925-032 -1.d	Luna NH2 4.6(mm)
240-22663-26	079SB-0026M-0001-SO	04/16/2013 21:50	1	320-0003925-033 -1.d	Luna NH2 4.6(mm)
240-22663-28	079SB-0028M-0001-SO	04/16/2013 22:08	1	320-0003925-034 -1.d	Luna NH2 4.6(mm)
CCV 320-14432/35 CCVRT		04/16/2013 22:26	1	320-0003925-035 -1.d	Luna NH2 4.6(mm)
CCVL 320-14432/36		04/16/2013 22:44	1	320-0003925-036 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14079 Batch Start Date: 04/11/13 10:07 Batch Analyst: Phan, Tuan

Batch Method: Sieve/Ultrasoni Batch End Date: 04/15/13 16:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNQSP 00006			
MB 320-14079/1		Sieve/Ultrasoni, 8330 Modified		2.00 g	10 mL				
LCS 320-14079/2		Sieve/Ultrasoni, 8330 Modified		2.00 g	10 mL	40 uL			
240-22663-F-4	079SB-0014M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.05 g	10 mL				
240-22663-F-4 MS	079SB-0014M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.00 g	10 mL	40 uL			
240-22663-F-4 MSD	079SB-0014M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.04 g	10 mL	40 uL			
240-22663-F-7	079SB-0017M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.00 g	10 mL				
240-22663-F-17	073SB-0041M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.06 g	10 mL				
240-22663-F-26	079SB-0026M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.04 g	10 mL				
240-22663-F-28	079SB-0028M-0001-SO	Sieve/Ultrasoni, 8330 Modified	T	2.01 g	10 mL				

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

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14079 Batch Start Date: 04/11/13 10:07 Batch Analyst: Phan, Tuan

Batch Method: Sieve/Ultrasoni Batch End Date: 04/15/13 16:25

Batch Notes	
Balance ID	QA-070
Calcium Chloride Reagent ID	4515-027C
Date of Clean up	4-15-13
Analyst performed Clean Up	HA
Date Sample was Dried	4-10-13
Filter Lot #	R2SA72748
Filter Type	.45um MILLIPORE
Date Sample was Ground	4-11-13
Person's name who witnessed reagent drop	GB
Blank Sand Lot #	FISHER 120571
Sonication End Date	4-12-13
Sonication Start Date	4-11-13
Sonication Start Time	11:40
Sonication Stop Time	05:40
Maximum Temperature	20 Degrees C
Minimum Temperature	10 Degrees C

Basis	Basis Description
T	Total/NA

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

Method 8330B

Nitroaromatics and Nitramines (HPLC) by Method 8330B

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Synergi C18 ID: 4.6 (mm) GC Column (2): Zorbax CN 4.6 (mm)

Client Sample ID	Lab Sample ID	DNT1 #	DNT2 #
079SB-0014M-0001-SO	240-22663-4	93	
079SB-0014M-0001-SO	240-22663-4		104
079SB-0017M-0001-SO	240-22663-7	94 M	
073SB-0041M-0001-SO	240-22663-17	93	
079SB-0026M-0001-SO	240-22663-26	94	
079SB-0028M-0001-SO	240-22663-28	93	
	MB 320-14065/1-A	93	
	MB 320-14065/1-A		121 M Q
	LCS 320-14065/2-A	96	
079SB-0014M-0001-SO MS	240-22663-4 MS	97	
079SB-0014M-0001-SO MSD	240-22663-4 MSD	97	

	QC LIMITS
DNT = 3,4-Dinitrotoluene	78-118

Column to be used to flag recovery values

FORM II 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: S000015.D

Lab ID: LCS 320-14065/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.500	0.486	97	79-119	
4-Amino-2,6-dinitrotoluene	0.500	0.498	100	81-121	
1,3-Dinitrobenzene	0.500	0.499	100	81-121	
2,4-Dinitrotoluene	0.500	0.484	97	79-119	
2,6-Dinitrotoluene	0.500	0.484	97	79-119	
HMX	0.500	0.496	99	80-120	
Nitrobenzene	0.500	0.498	100	80-120	
Nitroglycerin	1.00	0.942	94	76-116	
2-Nitrotoluene	0.500	0.478	96	78-118	
3-Nitrotoluene	0.500	0.486	97	77-117	
4-Nitrotoluene	0.500	0.480	96	78-118	
PETN	1.00	0.948	95	76-116	
RDX	0.500	0.484	97	82-122	
Tetryl	0.500	0.430	86	63-120	
1,3,5-Trinitrobenzene	0.500	0.496	99	81-121	
2,4,6-Trinitrotoluene	0.500	0.438	88	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: S000026.D

Lab ID: 240-22663-4 MS Client ID: 079SB-0014M-0001-SO MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.498	0.050 U	0.484	97	79-119	
4-Amino-2,6-dinitrotoluene	0.498	0.050 U	0.499	100	81-121	
1,3-Dinitrobenzene	0.498	0.050 U	0.505	101	81-121	
2,4-Dinitrotoluene	0.498	0.050 U	0.487	98	79-119	
2,6-Dinitrotoluene	0.498	0.050 U	0.503	101	79-119	
HMX	0.498	0.050 U	0.488	98	80-120	
Nitrobenzene	0.498	0.050 U	0.506	102	80-120	
Nitroglycerin	0.995	0.25 U	0.946	95	76-116	
2-Nitrotoluene	0.498	0.050 U	0.480	96	78-118	
3-Nitrotoluene	0.498	0.050 U	0.485	98	77-117	
4-Nitrotoluene	0.498	0.050 U	0.482	97	78-118	
PETN	0.995	0.25 U	0.967	97	76-116	
RDX	0.498	0.050 U	0.448	90	82-122	
Tetryl	0.498	0.015 J	0.433	84	63-120	
1,3,5-Trinitrobenzene	0.498	0.050 U	0.506	102	81-121	
2,4,6-Trinitrotoluene	0.498	0.050 U	0.443	89	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: S000027.D

Lab ID: 240-22663-4 MSD Client ID: 079SB-0014M-0001-SO MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.499	0.486	97	0	20	79-119	
4-Amino-2,6-dinitrotoluene	0.499	0.500	100	0	20	81-121	
1,3-Dinitrobenzene	0.499	0.505	101	0	20	81-121	
2,4-Dinitrotoluene	0.499	0.489	98	0	20	79-119	
2,6-Dinitrotoluene	0.499	0.502	101	0	20	79-119	
HMX	0.499	0.491	98	1	20	80-120	
Nitrobenzene	0.499	0.504	101	0	20	80-120	
Nitroglycerin	0.997	0.919	92	3	20	76-116	
2-Nitrotoluene	0.499	0.479	96	0	20	78-118	
3-Nitrotoluene	0.499	0.490	98	1	20	77-117	
4-Nitrotoluene	0.499	0.482	97	0	20	78-118	
PETN	0.997	0.972	97	1	20	76-116	
RDX	0.499	0.449	90	0	20	82-122	
Tetryl	0.499	0.435	84	0	20	63-120	
1,3,5-Trinitrobenzene	0.499	0.507	102	0	20	81-121	
2,4,6-Trinitrotoluene	0.499	0.445	89	0	20	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: MB 320-14065/1-A

Matrix: Solid Date Extracted: 04/11/2013 08:24

Lab File ID:(1) S000014.D Lab File ID:(2) X000037.D

Date Analyzed:(1) 04/19/2013 18:45 Date Analyzed:(2) 04/25/2013 08:07

Instrument ID:(1) LC10 Instrument ID:(2) LC12

GC Column:(1) Synergi C18 ID: 4.6(mm) GC Column:(2) Zorbax CN ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 320-14065/2-A	04/19/2013 19:29	
079SB-0014M-0001-SO	240-22663-4	04/20/2013 02:45	04/25/2013 13:38
079SB-0014M-0001-SO MS	240-22663-4 MS	04/20/2013 03:29	
079SB-0014M-0001-SO MSD	240-22663-4 MSD	04/20/2013 04:13	
079SB-0017M-0001-SO	240-22663-7	04/20/2013 04:56	
073SB-0041M-0001-SO	240-22663-17	04/20/2013 05:40	
079SB-0026M-0001-SO	240-22663-26	04/20/2013 06:24	
079SB-0028M-0001-SO	240-22663-28	04/20/2013 07:07	

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Sample No.: ICRT 320-14686/7 Date Analyzed: 04/19/2013 14:23

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm)

Lab File ID (Standard): S000008.D Heated Purge: (Y/N) N

Calibration ID: 2667

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
INITIAL CALIBRATION SURROGATE				16.28		
UPPER LIMIT				16.53		
LOWER LIMIT				16.03		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 320-14686/7		04/19/2013 14:23	S000008.D	16.28		
MB 320-14065/1-A		04/19/2013 18:45	S000014.D	16.36		
LCS 320-14065/2-A		04/19/2013 19:29	S000015.D	16.37		
CCV 320-14706/11 CCVRT		04/20/2013 02:02	S000024.D	16.34		
240-22663-4	079SB-0014M-0001-SO	04/20/2013 02:45	S000025.D	16.36		
240-22663-4 MS	079SB-0014M-0001-SO MS	04/20/2013 03:29	S000026.D	16.32		
240-22663-4 MSD	079SB-0014M-0001-SO MSD	04/20/2013 04:13	S000027.D	16.33		
240-22663-7	079SB-0017M-0001-SO	04/20/2013 04:56	S000028.D	16.33		
240-22663-17	073SB-0041M-0001-SO	04/20/2013 05:40	S000029.D	16.35		
240-22663-26	079SB-0026M-0001-SO	04/20/2013 06:24	S000030.D	16.32		
240-22663-28	079SB-0028M-0001-SO	04/20/2013 07:07	S000031.D	16.31		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 320-14706/11 Date Analyzed: 04/20/2013 02:02

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm)

Lab File ID (Standard): S000024.D Heated Purge: (Y/N) N

Calibration ID: 2667

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				16.34		
UPPER LIMIT				16.52		
LOWER LIMIT				16.02		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14706/11 CCVRT		04/20/2013 02:02	S000024.D	16.34		
240-22663-4	079SB-0014M-0001-SO	04/20/2013 02:45	S000025.D	16.36		
240-22663-4 MS	079SB-0014M-0001-SO MS	04/20/2013 03:29	S000026.D	16.32		
240-22663-4 MSD	079SB-0014M-0001-SO MSD	04/20/2013 04:13	S000027.D	16.33		
240-22663-7	079SB-0017M-0001-SO	04/20/2013 04:56	S000028.D	16.33		
240-22663-17	073SB-0041M-0001-SO	04/20/2013 05:40	S000029.D	16.35		
240-22663-26	079SB-0026M-0001-SO	04/20/2013 06:24	S000030.D	16.32		
240-22663-28	079SB-0028M-0001-SO	04/20/2013 07:07	S000031.D	16.31		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 320-14998/3 Date Analyzed: 04/24/2013 23:18

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): X000029.D Heated Purge: (Y/N) N

Calibration ID: 2128

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				38.69		
UPPER LIMIT				38.94		
LOWER LIMIT				38.44		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14998/3 CCVRT		04/24/2013 23:18	X000029.D	38.69		
MB 320-14065/1-A		04/25/2013 08:07	X000037.D	38.57		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Sample No.: CCVL 320-14998/4 Date Analyzed: 04/25/2013 00:24

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): X000030.D Heated Purge: (Y/N) N

Calibration ID: 2128

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				38.62		
UPPER LIMIT				38.87		
LOWER LIMIT				38.37		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVL 320-14998/4 CCVRT		04/25/2013 00:24	X000030.D	38.62		
MB 320-14065/1-A		04/25/2013 08:07	X000037.D	38.57		
240-22663-4	079SB-0014M-0001-SO	04/25/2013 13:38	X000042.D	38.69		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Sample No.: CCV 320-14998/13 Date Analyzed: 04/25/2013 10:19

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): X000039.D Heated Purge: (Y/N) N

Calibration ID: 2128

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				38.67		
UPPER LIMIT				38.92		
LOWER LIMIT				38.42		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-14998/13 CCVRT		04/25/2013 10:19	X000039.D	38.67		
240-22663-4	079SB-0014M-0001-SO	04/25/2013 13:38	X000042.D	38.69		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Sample No.: CCVL 320-14998/36 Date Analyzed: 04/26/2013 20:29

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm)

Lab File ID (Standard): X000070.D Heated Purge: (Y/N) N

Calibration ID: 2128

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				38.85		
UPPER LIMIT				39.10		
LOWER LIMIT				38.60		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
MB 320-14065/1-A		04/25/2013 08:07	X000037.D	38.57 *		
240-22663-4	079SB-0014M-0001-SO	04/25/2013 13:38	X000042.D	38.69		
CCVL 320-14998/36 CCVRT		04/26/2013 20:29	X000070.D	38.85		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO Lab Sample ID: 240-22663-4

Matrix: Solid Lab File ID: S000025.D

Analysis Method: 8330B Date Collected: 04/01/2013 10:12

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.01(g) Date Analyzed: 04/20/2013 02:45

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	93		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000025.D		
Lims ID:	240-22663-F-4-A	Client ID:	079SB-0014M-0001-SO
Inject. Date:	20-Apr-2013 02:45:47	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0004003-012		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	31
Lims Batch ID:	14706	Lims Sample ID:	12
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:32	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 22-Apr-2013 08:12:33

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						
1	16.356	16.340	0.016	3336	58.3	
2	16.356	16.343	0.013	6354	59.3	
21 PETN						M
2	27.679	27.607	0.072	140	3.56	M

QC Flag Legend

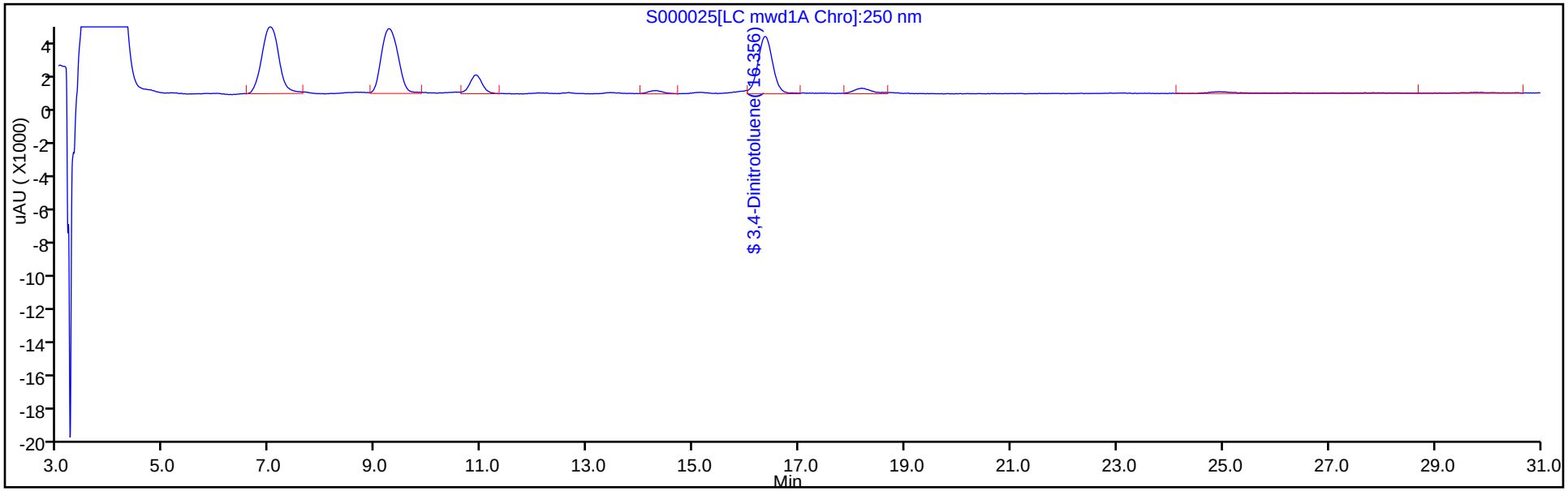
Review Flags
M - Manually Integrated

Report Date: 22-Apr-2013 09:55:39 Chrom Revision: 2.1 07-Apr-2013 20:36:54

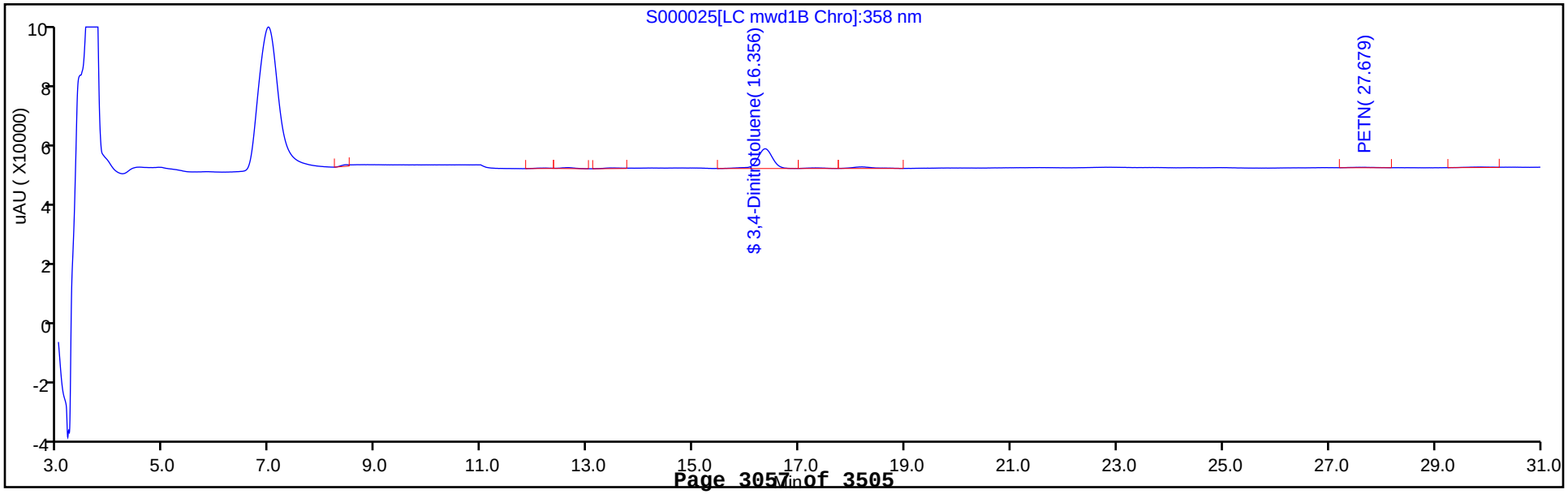
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000025.D		
Injection Date:	20-Apr-2013 02:45:47	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0014M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

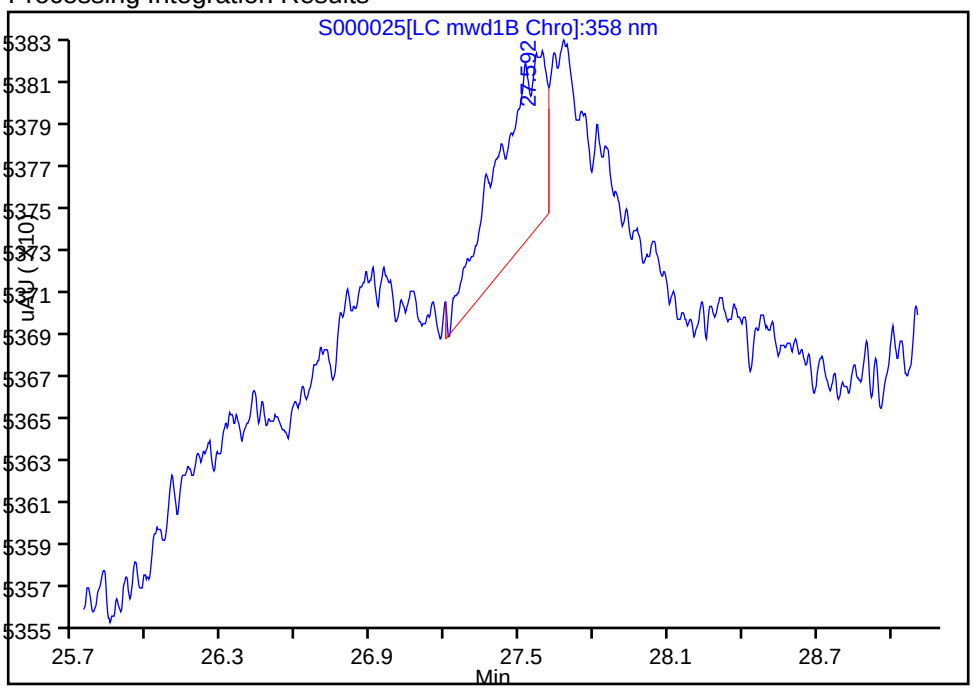
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000025.D		
Injection Date:	20-Apr-2013 02:45:47	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0014M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

21 PETN, Signal: 1, Type: quant, RT: 27.61, Det: LC mwd1B

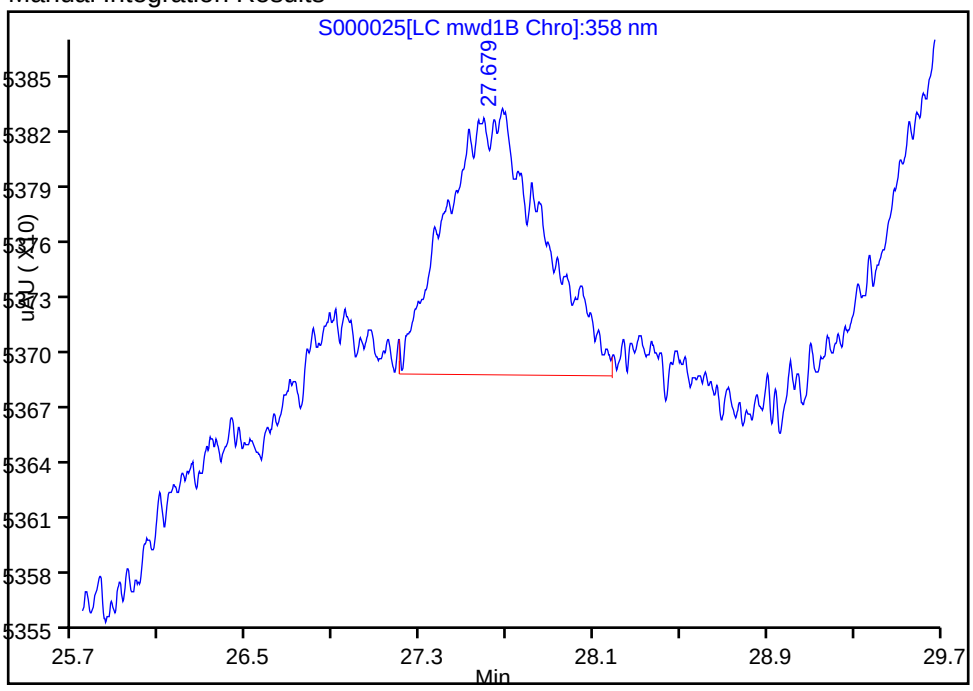
Processing Integration Results

RT: 27.59
Response: 79
Amount: 1.989881



Manual Integration Results

RT: 27.68
Response: 140
Amount: 3.557860



Reviewer: shafern, 22-Apr-2013 08:12:33
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO Lab Sample ID: 240-22663-4

Matrix: Solid Lab File ID: X000042.D

Analysis Method: 8330B Date Collected: 04/01/2013 10:12

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.01(g) Date Analyzed: 04/25/2013 13:38

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Zorbax CN ID: 4.6(mm)

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

Analysis Batch No.: 14998 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
78-11-5	PETN	0.25	U	0.50	0.25	0.025

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	104		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000042.D		
Lims ID:	240-22663-F-4-A	Client ID:	079SB-0014M-0001-SO
Inject. Date:	25-Apr-2013 13:38:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0004083-016		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	41
Lims Batch ID:	14998	Lims Sample ID:	16
Method:	\\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m		
Last Update:	26-Apr-2013 09:41:43	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK019		

First Level Reviewer: noonanr Date: 26-Apr-2013 09:41:43

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						
1	38.685	38.668	0.017	3458	64.7	
20 Tetryl						
1	46.472	46.598	-0.126	224	1.88	

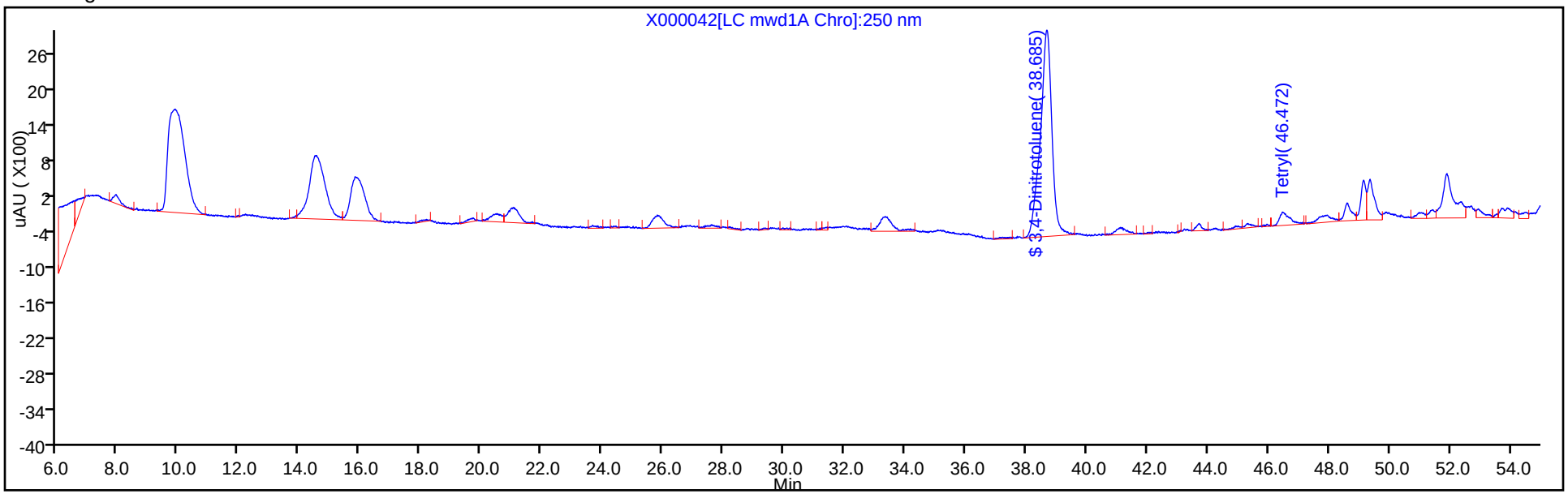
Report Date: 26-Apr-2013 09:41:44 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

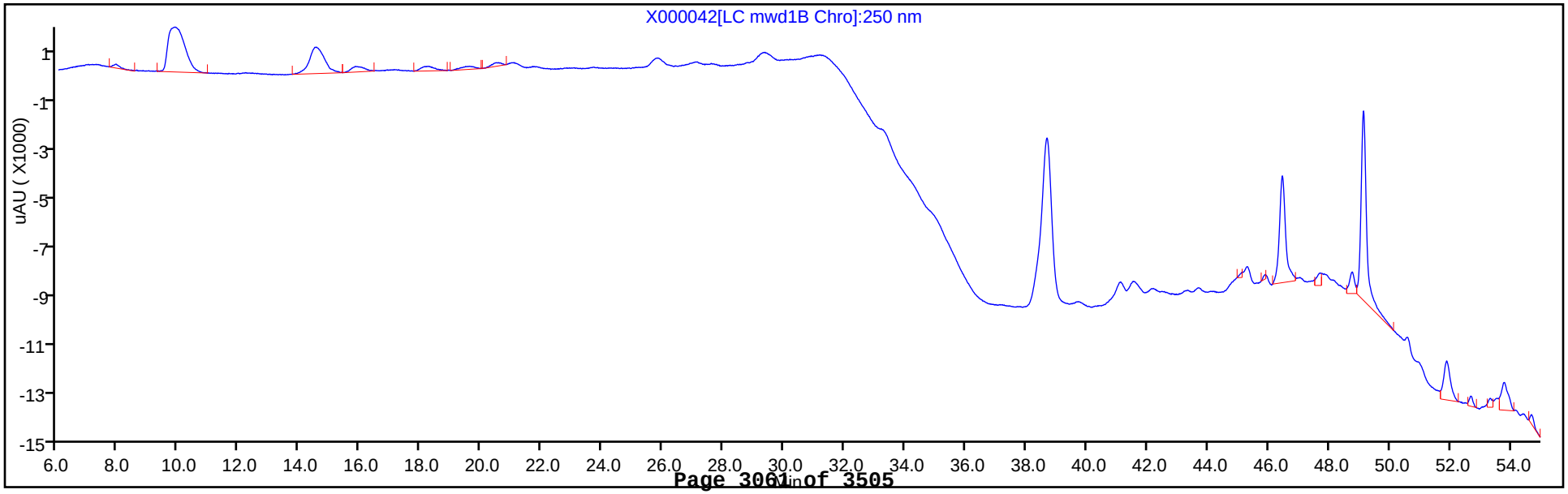
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000042.D

Injection Date:	25-Apr-2013 13:38:15	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0014M-0001-SO	Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	16
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0017M-0001-SO Lab Sample ID: 240-22663-7

Matrix: Solid Lab File ID: S000028.D

Analysis Method: 8330B Date Collected: 04/01/2013 09:24

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.02(g) Date Analyzed: 04/20/2013 04:56

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	94	M	78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000028.D		
Lims ID:	240-22663-F-7-A	Client ID:	079SB-0017M-0001-SO
Inject. Date:	20-Apr-2013 04:56:41	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0004003-015		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	34
Lims Batch ID:	14706	Lims Sample ID:	15
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:32	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 22-Apr-2013 08:15:23

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						M
1	16.330	16.340	-0.010	3369	58.9	M
2	16.327	16.343	-0.016	6562	61.2	

QC Flag Legend

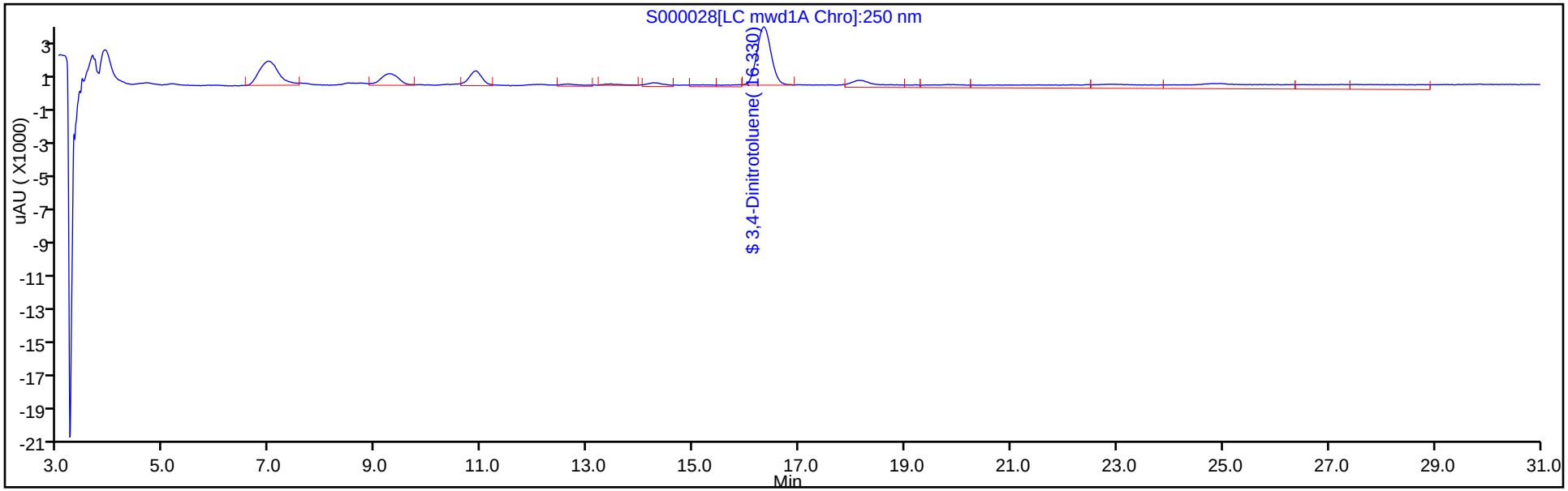
Review Flags
M - Manually Integrated

Report Date: 22-Apr-2013 09:55:37 Chrom Revision: 2.1 07-Apr-2013 20:36:54

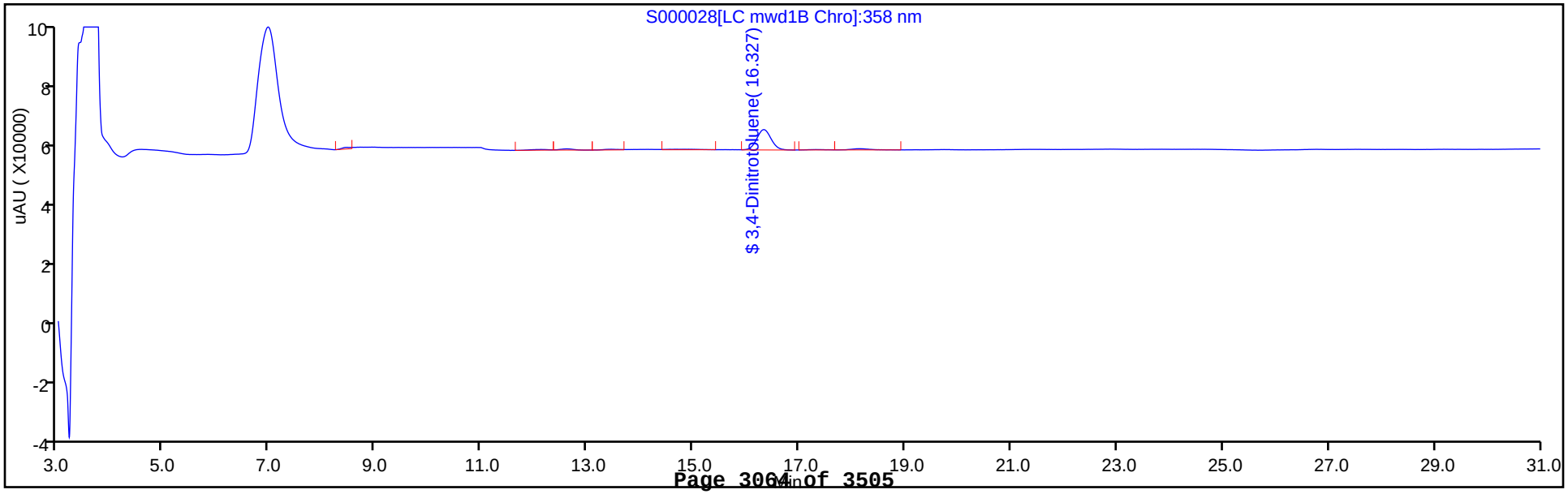
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000028.D		
Injection Date:	20-Apr-2013 04:56:41	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0017M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	15
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

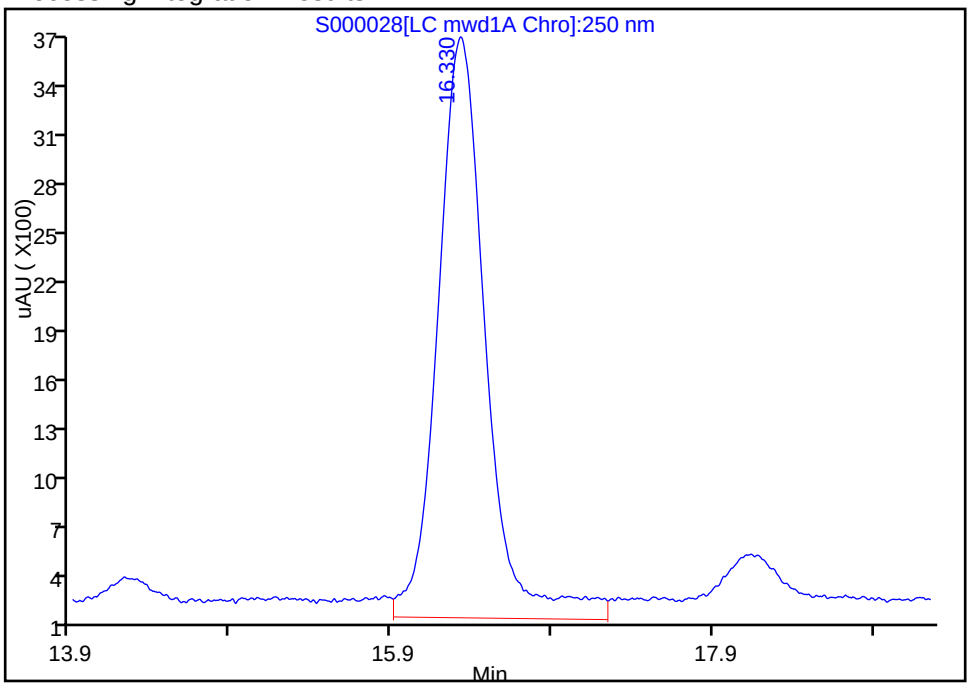
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000028.D		
Injection Date:	20-Apr-2013 04:56:41	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0017M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	15
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 1, Type: quant, RT: 16.34, Det: LC mwd1A

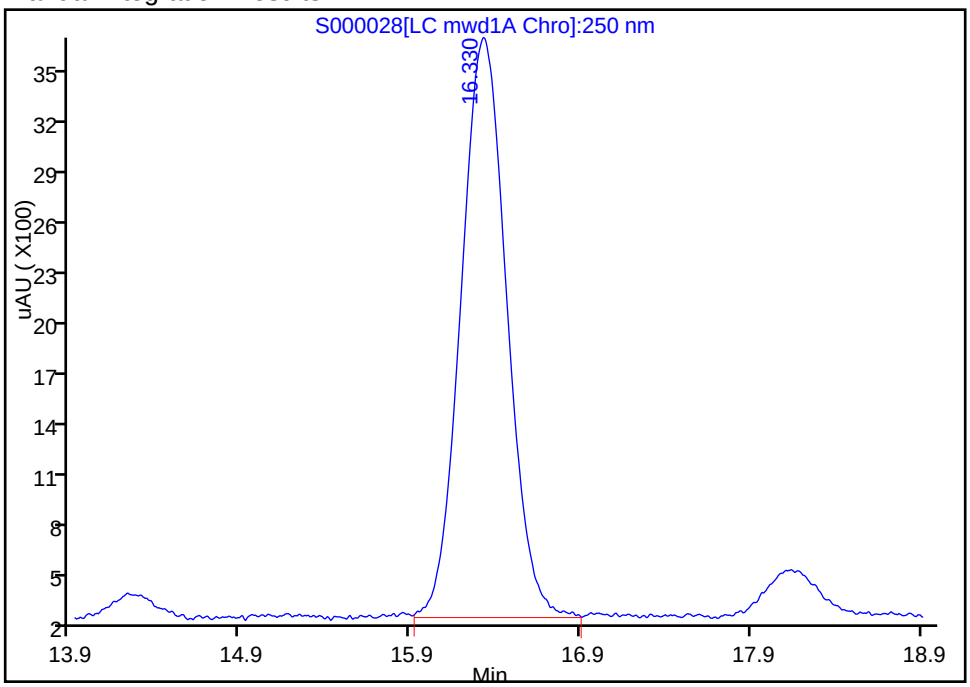
Processing Integration Results

RT: 16.33
Response: 3472
Amount: 60.432656



Manual Integration Results

RT: 16.33
Response: 3369
Amount: 58.881016



Reviewer: shafern, 22-Apr-2013 08:15:23
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-22663-1

SDG No.:

Client Sample ID: 073SB-0041M-0001-SO | Lab Sample ID: 240-22663-17

Matrix: Solid | Lab File ID: S000029.D

Analysis Method: 8330B | Date Collected: 04/01/2013 13:03

Extraction Method: 8330B | Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.02(g) | Date Analyzed: 04/20/2013 05:40

Con. Extract Vol.: 80(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	93		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000029.D		
Lims ID:	240-22663-F-17-A	Client ID:	073SB-0041M-0001-SO
Inject. Date:	20-Apr-2013 05:40:20	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0004003-016		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	35
Lims Batch ID:	14706	Lims Sample ID:	16
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:32	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 22-Apr-2013 08:15:41

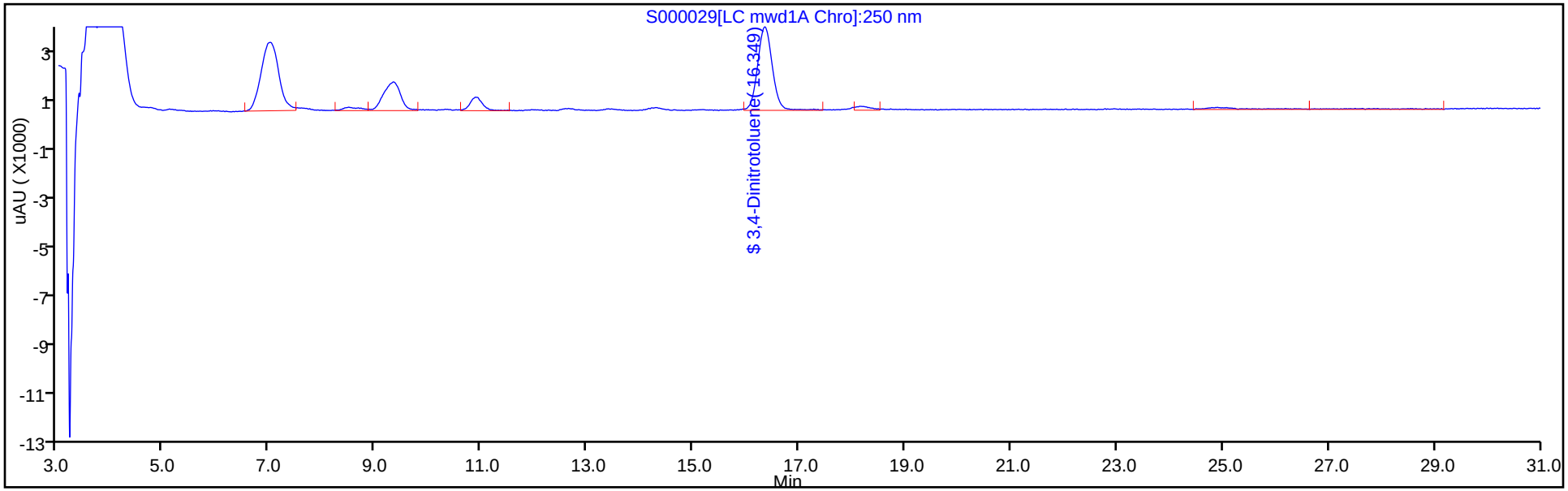
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						
1	16.349	16.340	0.009	3342	58.4	
2	16.349	16.343	0.006	6347	59.2	

Report Date: 22-Apr-2013 09:55:36 Chrom Revision: 2.1 07-Apr-2013 20:36:54

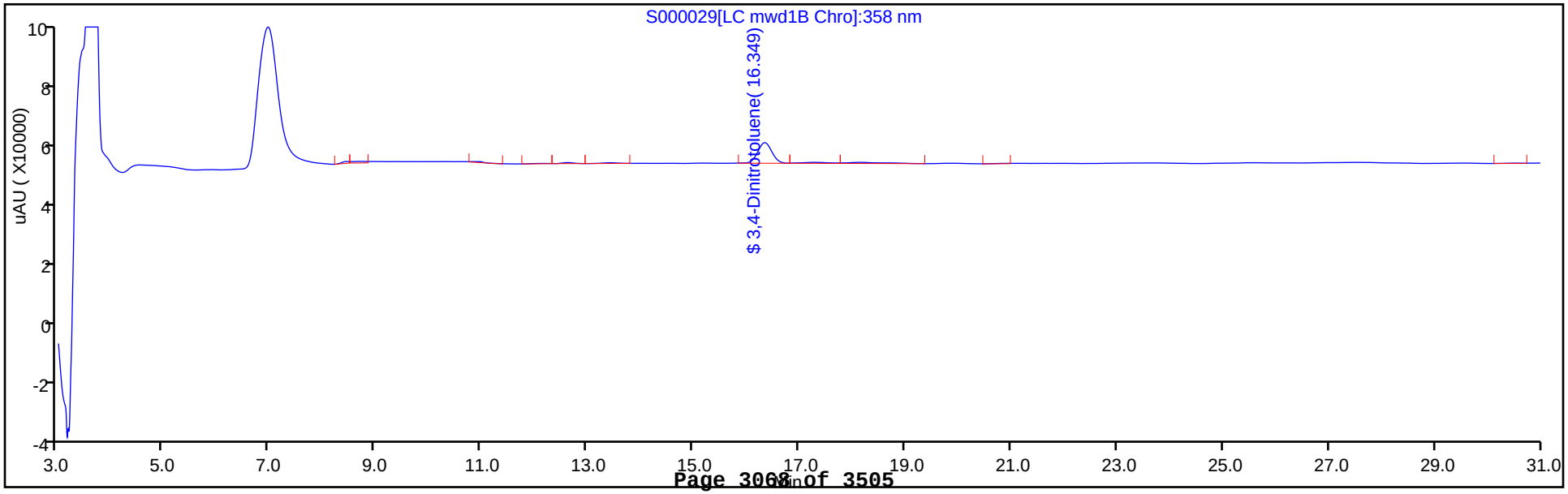
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000029.D		
Injection Date:	20-Apr-2013 05:40:20	Limit Group:	LC 8330B ICAL
Client ID:	073SB-0041M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	16
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0026M-0001-SO Lab Sample ID: 240-22663-26

Matrix: Solid Lab File ID: S000030.D

Analysis Method: 8330B Date Collected: 04/01/2013 10:37

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.04(g) Date Analyzed: 04/20/2013 06:24

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	94		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000030.D		
Lims ID:	240-22663-F-26-A	Client ID:	079SB-0026M-0001-SO
Inject. Date:	20-Apr-2013 06:24:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0004003-017		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	36
Lims Batch ID:	14706	Lims Sample ID:	17
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:32	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 22-Apr-2013 08:16:13

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						
1	16.319	16.340	-0.021	3352	58.6	
2	16.319	16.343	-0.024	6493	60.6	

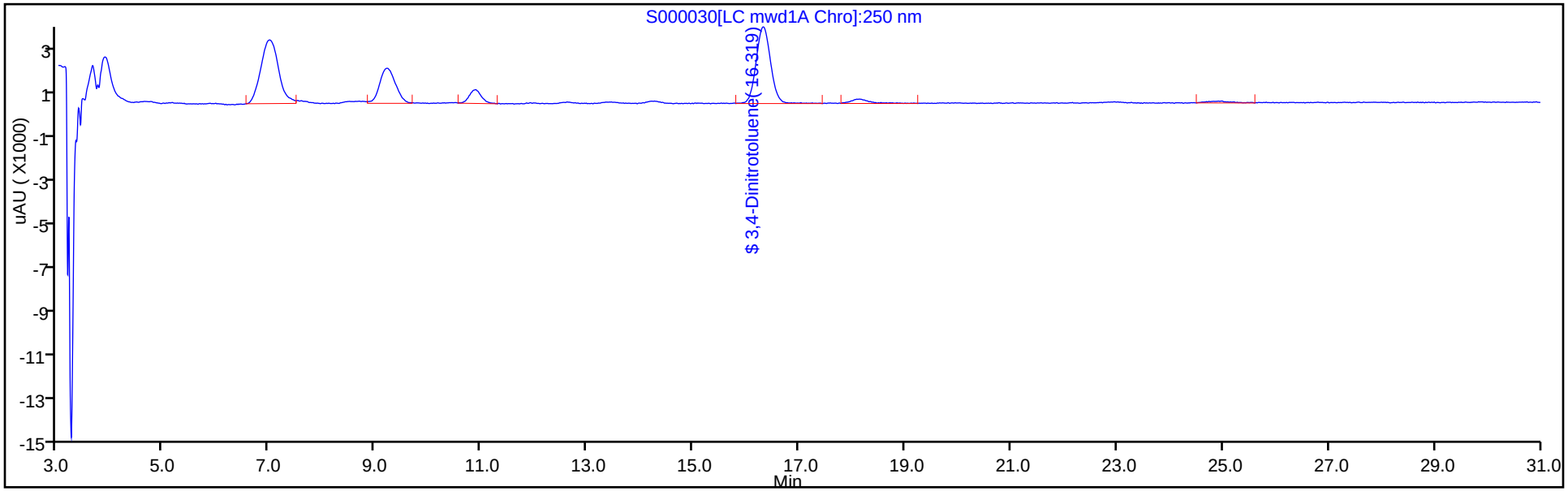
Report Date: 22-Apr-2013 09:55:36 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

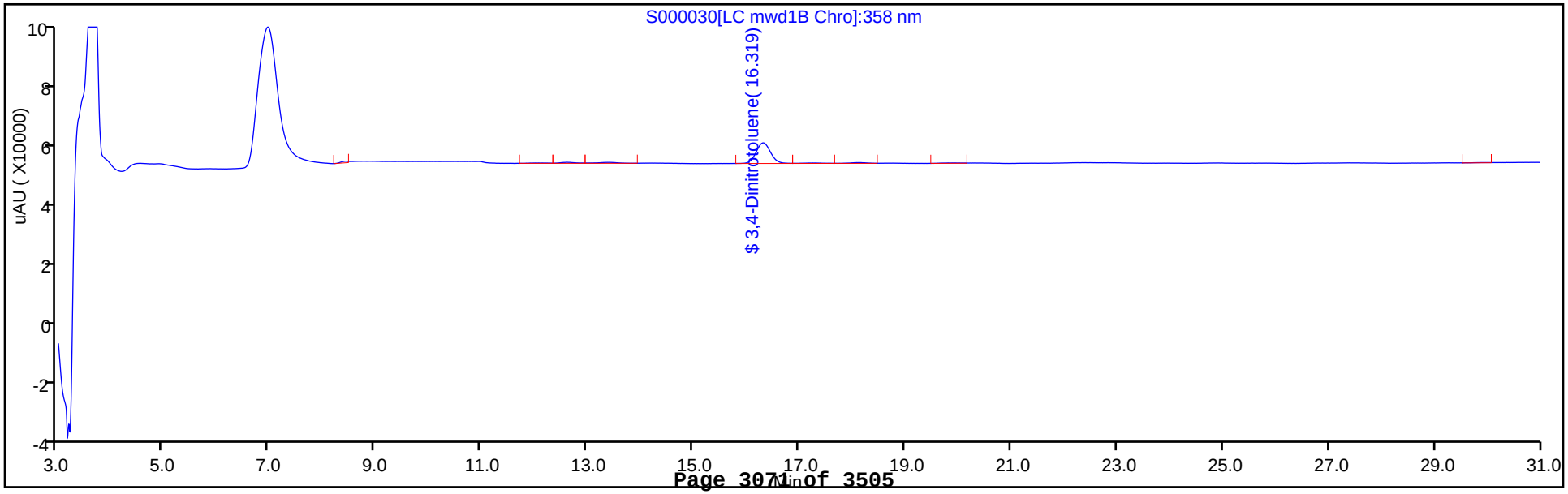
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000030.D

Injection Date:	20-Apr-2013 06:24:00	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0026M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	17
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0028M-0001-SO Lab Sample ID: 240-22663-28

Matrix: Solid Lab File ID: S000031.D

Analysis Method: 8330B Date Collected: 04/01/2013 10:43

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.04(g) Date Analyzed: 04/20/2013 07:07

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U M	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	93		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000031.D		
Lims ID:	240-22663-F-28-A	Client ID:	079SB-0028M-0001-SO
Inject. Date:	20-Apr-2013 07:07:45	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	320-0004003-018		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	37
Lims Batch ID:	14706	Lims Sample ID:	18
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:32	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 22-Apr-2013 08:17:39

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						M
1	5.175	5.183	-0.008	84	0.6696	M
$ 30 3,4-Dinitrotoluene						
1	16.311	16.340	-0.029	3330	58.2	
2	16.311	16.343	-0.032	6461	60.3	

QC Flag Legend

Review Flags
M - Manually Integrated

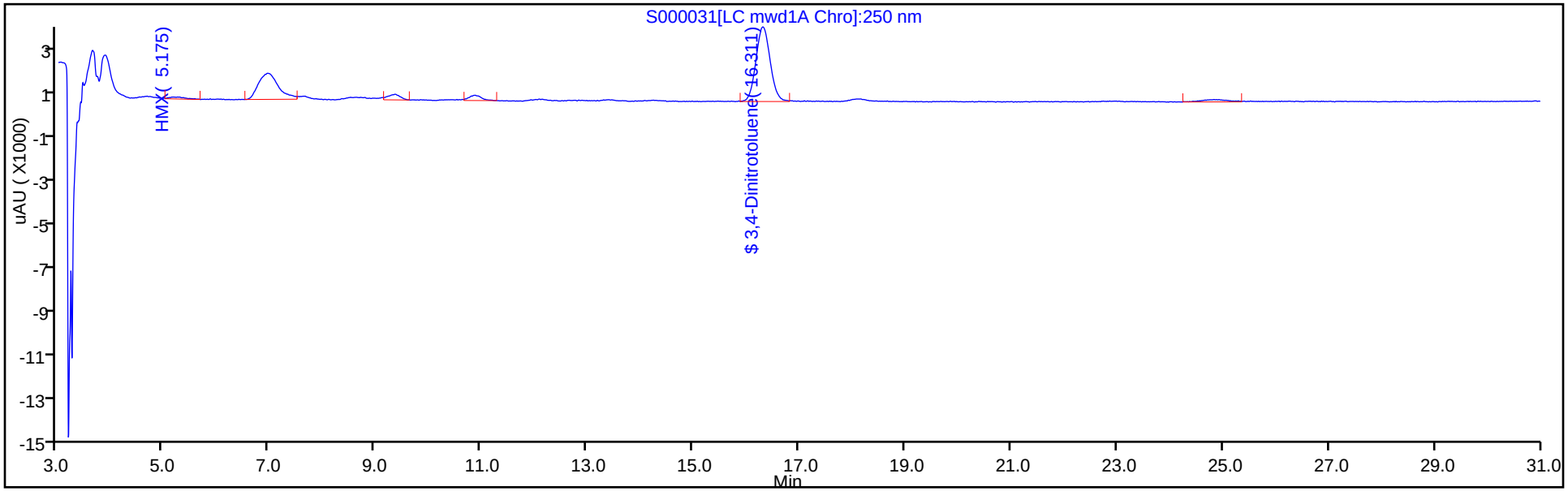
Report Date: 22-Apr-2013 09:55:35 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

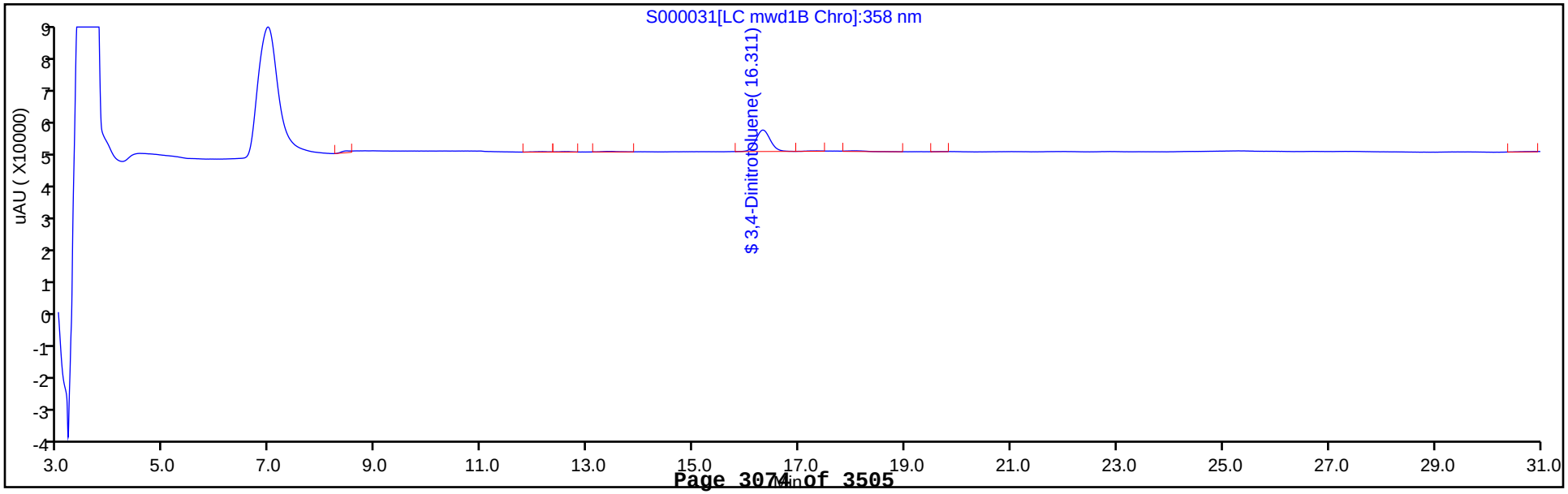
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000031.D

Injection Date:	20-Apr-2013 07:07:45	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	18
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

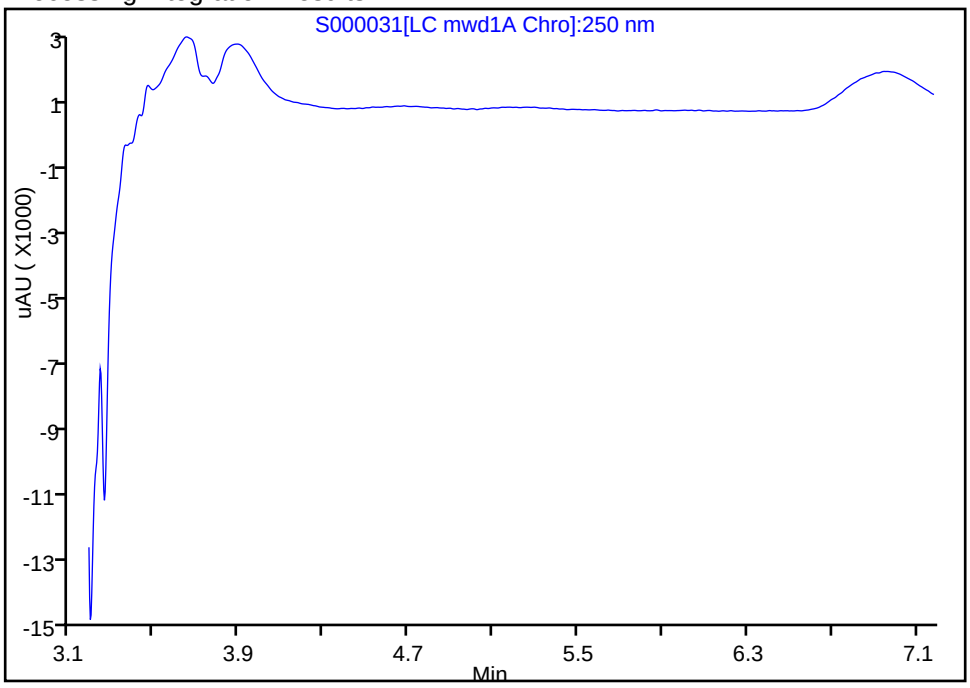
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000031.D		
Injection Date:	20-Apr-2013 07:07:45	Limit Group:	LC 8330B ICAL
Client ID:	079SB-0028M-0001-SO	Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	18
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

11 HMX, Signal: 1, Type: quant, RT: 5.18, Det: LC mwd1A

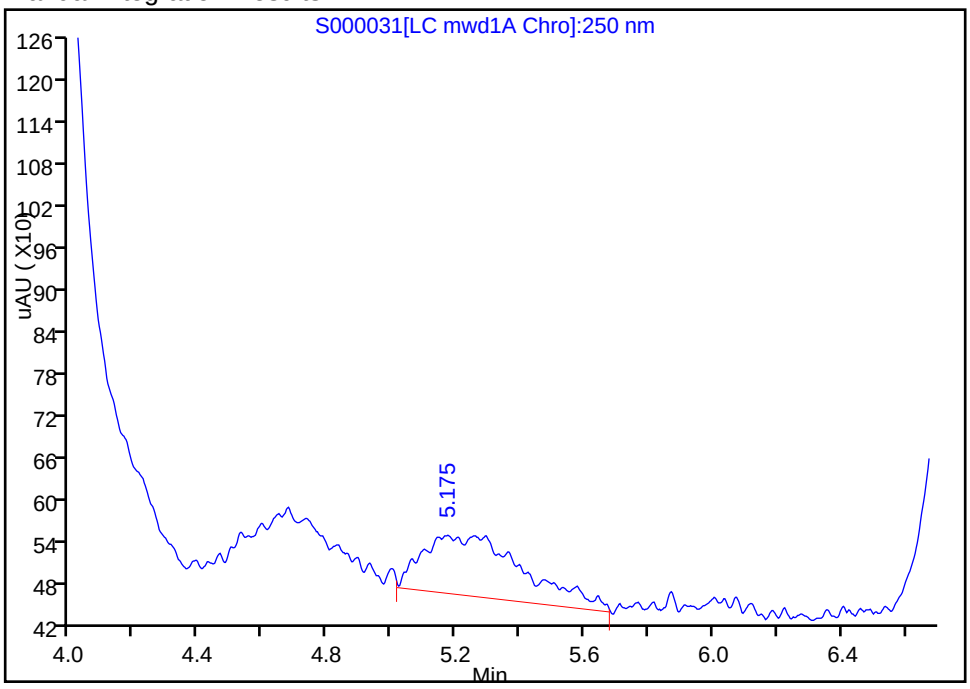
Processing Integration Results

Not Detected
Expected RT: 5.18



Manual Integration Results

RT: 5.17
Response: 84
Amount: 0.669564



Reviewer: shafern, 22-Apr-2013 08:17:39
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Peak not integrated

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 14686

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:45 Calibration End Date: 04/19/2013 15:51 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-14686/2	S000003.D
Level 2	STD02 320-14686/3	S000004.D
Level 3	STD03 320-14686/4	S000005.D
Level 4	STD04 320-14686/5	S000006.D
Level 5	STD05 320-14686/6	S000007.D
Level 6	ICRT 320-14686/7	S000008.D
Level 7	STD07 320-14686/8	S000009.D
Level 8	STD08 320-14686/9	S000010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
HMX	5.180	5.177	5.181	5.177	5.177	5.176	5.172	5.157			4.927 - 5.427	5.175
RDX	7.403	7.400	7.395	7.397	7.397	7.393	7.389	7.354			7.147 - 7.647	7.391
Ethylene glycol dinitrate	8.060	8.064	8.055	8.060	8.061	8.059	8.055	8.030			7.811 - 8.311	8.056
Picric acid	+++++	8.494	8.481	8.480	8.471	8.433	8.402	8.317			8.221 - 8.721	8.440
1,3,5-Trinitrobenzene	9.646	9.644	9.645	9.640	9.644	9.643	9.642	9.614			9.394 - 9.894	9.640
1,3-Dinitrobenzene	12.223	12.214	12.208	12.207	12.211	12.206	12.209	12.164			11.961 - 12.461	12.205
3,5-Dinitroaniline	12.933	12.950	12.931	12.934	12.941	12.933	12.939	12.887			12.691 - 13.191	12.931
Tetryl	13.233	13.230	13.211	13.217	13.221	13.223	13.229	13.191			12.971 - 13.471	13.219
Nitrobenzene	13.887	13.897	13.871	13.880	13.884	13.886	13.885	13.841			13.634 - 14.134	13.879
Nitroglycerin	14.423	14.430	14.415	14.410	14.418	14.423	14.429	14.394			14.168 - 14.668	14.418
2,4,6-Trinitrotoluene	15.280	15.287	15.291	15.284	15.291	15.293	15.302	15.271			15.041 - 15.541	15.287
4-Amino-2,6-dinitrotoluene	15.850	15.850	15.838	15.834	15.838	15.839	15.852	15.797			15.588 - 16.088	15.837
2-Amino-4,6-dinitrotoluene	16.800	16.817	16.791	16.794	16.801	16.799	16.815	16.761			16.551 - 17.051	16.797
2,6-Dinitrotoluene	18.317	18.304	18.305	18.290	18.308	18.309	18.329	18.281			18.058 - 18.558	18.305
2,4-Dinitrotoluene	18.933	18.947	18.941	18.934	18.948	18.949	18.972	18.921			18.698 - 19.198	18.943
2-Nitrotoluene	22.110	22.157	22.171	22.137	22.151	22.163	22.179	22.141			21.901 - 22.401	22.151
4-Nitrotoluene	23.757	23.737	23.768	23.760	23.768	23.783	23.802	23.771			23.518 - 24.018	23.768
3-Nitrotoluene	25.583	25.587	25.541	25.564	25.564	25.583	25.605	25.581			25.314 - 25.814	25.576
PETN	27.533	27.490	27.475	27.477	27.491	27.509	27.542	27.541			27.241 - 27.741	27.507
3,4-Dinitrotoluene	16.247	16.284	16.275	16.267	16.271	16.279	16.282	16.231			16.021 - 16.521	16.267

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 14686

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:45 Calibration End Date: 04/19/2013 15:51 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-14686/2	S000003.D
Level 2	STD02 320-14686/3	S000004.D
Level 3	STD03 320-14686/4	S000005.D
Level 4	STD04 320-14686/5	S000006.D
Level 5	STD05 320-14686/6	S000007.D
Level 6	ICRT 320-14686/7	S000008.D
Level 7	STD07 320-14686/8	S000009.D
Level 8	STD08 320-14686/9	S000010.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	126.20 126.94	133.90 126.34	129.40 123.13	127.44 110.29	Ave		125.454750				5.5		20.0			
RDX	114.20 88.680	105.20 86.205	95.900 80.180	91.100 66.491	Ave		90.9945000				16.0		20.0			
Ethylene glycol dinitrate	115.00 111.75	119.90 113.80	112.40 108.37	110.18 92.745	Ave		110.517500				7.2		20.0			
Picric acid	+++++ 107.67	172.80 130.31	145.98 121.10	142.38 105.54	Ave		132.254000				18.0		20.0			
1,3,5-Trinitrobenzene	168.20 165.60	176.00 163.97	169.10 157.89	166.78 140.81	Ave		163.543750				6.4		20.0			
1,3-Dinitrobenzene	167.20 164.82	176.20 162.71	168.65 155.44	166.62 136.28	Ave		162.240750				7.4		20.0			
3,5-Dinitroaniline	107.00 105.01	113.00 103.79	107.65 99.322	106.54 86.750	Ave		103.632750				7.6		20.0			
Tetryl	95.400 93.960	100.70 93.875	95.000 93.632	94.300 90.160	Ave		94.6283750				3.1		20.0			
Nitrobenzene	75.400 72.540	76.400 71.455	73.200 68.382	73.540 60.068	Ave		71.3731250				7.3		20.0			
Nitroglycerin	78.800 67.560	76.800 67.230	78.850 65.164	68.060 60.020	Ave		70.3105000				9.9		20.0			
2,4,6-Trinitrotoluene	97.000 95.170	102.60 95.040	97.000 93.406	95.380 87.568	Ave		95.3955000				4.4		20.0			
4-Amino-2,6-dinitrotoluene	81.800 78.520	84.300 78.110	80.050 76.008	78.900 69.235	Ave		78.3653750				5.7		20.0			
2-Amino-4,6-dinitrotoluene	87.400 84.320	90.900 83.815	85.950 81.216	85.080 73.519	Ave		84.0250000				6.1		20.0			
2,6-Dinitrotoluene	61.000 59.670	65.200 59.535	61.350 58.016	60.100 53.808	Ave		59.8348750				5.4		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 14686

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:45 Calibration End Date: 04/19/2013 15:51 Calibration ID: 2667

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4-Dinitrotoluene	100.20 98.960	106.80 98.490	100.85 96.230	99.640 89.180	Ave		98.7937500				5.0		20.0			
2-Nitrotoluene	44.800 42.090	46.600 41.655	42.850 40.988	42.560 38.030	Ave		42.4466250				6.0		20.0			
4-Nitrotoluene	55.000 52.890	57.300 52.470	54.000 51.724	52.980 48.433	Ave		53.0996250				4.8		20.0			
3-Nitrotoluene	51.800 52.100	55.700 51.825	53.200 51.110	52.260 48.102	Ave		52.0121250				4.1		20.0			
PETN	50.800 36.890	45.800 36.275	38.600 35.954	34.820 35.657	Ave		39.3495000				15.0		20.0			
3,4-Dinitrotoluene	60.600 55.570	59.100 54.940	56.450 55.837	59.720 55.520	Ave		57.2170833				3.9		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 14686

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:45 Calibration End Date: 04/19/2013 15:51 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-14686/2	S000003.D
Level 2	STD02 320-14686/3	S000004.D
Level 3	STD03 320-14686/4	S000005.D
Level 4	STD04 320-14686/5	S000006.D
Level 5	STD05 320-14686/6	S000007.D
Level 6	ICRT 320-14686/7	S000008.D
Level 7	STD07 320-14686/8	S000009.D
Level 8	STD08 320-14686/9	S000010.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
HMX	Ave	631 25267	1339 61566	2588 110291	6372	12694	5.00 200	10.0 500	20.0 1000	50.0	100
RDX	Ave	571 17241	1052 40090	1918 66491	4555	8868	5.00 200	10.0 500	20.0 1000	50.0	100
Ethylene glycol dinitrate	Ave	575 22759	1199 54185	2248 92745	5509	11175	5.00 200	10.0 500	20.0 1000	50.0	100
Picric acid	Ave	+++++ 65156	3456 121095	7299 211078	14238	26918	+++++ 500	20.0 1000	50.0 2000	100	250
1,3,5-Trinitrobenzene	Ave	841 32794	1760 78943	3382 140814	8339	16560	5.00 200	10.0 500	20.0 1000	50.0	100
1,3-Dinitrobenzene	Ave	836 32542	1762 77722	3373 136282	8331	16482	5.00 200	10.0 500	20.0 1000	50.0	100
3,5-Dinitroaniline	Ave	535 20758	1130 49661	2153 86750	5327	10501	5.00 200	10.0 500	20.0 1000	50.0	100
Tetryl	Ave	477 18775	1007 46816	1900 90160	4715	9396	5.00 200	10.0 500	20.0 1000	50.0	100
Nitrobenzene	Ave	377 14291	764 34191	1464 60068	3677	7254	5.00 200	10.0 500	20.0 1000	50.0	100
Nitroglycerin	Ave	394 13446	768 32582	1577 60020	3403	6756	5.00 200	10.0 500	20.0 1000	50.0	100
2,4,6-Trinitrotoluene	Ave	485 19008	1026 46703	1940 87568	4769	9517	5.00 200	10.0 500	20.0 1000	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	409 15622	843 38004	1601 69235	3945	7852	5.00 200	10.0 500	20.0 1000	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	437 16763	909 40608	1719 73519	4254	8432	5.00 200	10.0 500	20.0 1000	50.0	100
2,6-Dinitrotoluene	Ave	305 11907	652 29008	1227 53808	3005	5967	5.00 200	10.0 500	20.0 1000	50.0	100
2,4-Dinitrotoluene	Ave	501 19698	1068 48115	2017 89180	4982	9896	5.00 200	10.0 500	20.0 1000	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 14686

SDG No.:

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/19/2013 10:45 Calibration End Date: 04/19/2013 15:51 Calibration ID: 2667

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Nitrotoluene	Ave	224 8331	466 20494	857 38030	2128	4209	5.00 200	10.0 500	20.0 1000	50.0	100
4-Nitrotoluene	Ave	275 10494	573 25862	1080 48433	2649	5289	5.00 200	10.0 500	20.0 1000	50.0	100
3-Nitrotoluene	Ave	259 10365	557 25555	1064 48102	2613	5210	5.00 200	10.0 500	20.0 1000	50.0	100
PETN	Ave	254 7255	458 17977	772 35657	1741	3689	5.00 200	10.0 500	20.0 1000	50.0	100
3,4-Dinitrotoluene	Ave	303 10988	591 16751	1129 27760	2986	5557	5.00 200	10.0 300	20.0 500	50.0	100

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000003.D
Lims ID: STD01 Client ID:
Inject. Date: 19-Apr-2013 10:45:31 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: 320-0003998-002
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 11
Lims Batch ID: 14686 Lims Sample ID: 2
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m
Last Update: 22-Apr-2013 09:45:24 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 19-Apr-2013 11:37:41

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.180	5.177	0.003	631	5.03	
19 RDX						
1	7.403	7.397	0.006	571	6.28	
3 Ethylene glycol dinitrate						
2	8.060	8.061	-0.001	575	5.20	
10 2,4,6-Trinitrophenol						
2	8.500	8.471	0.029	2007	15.2	
1	8.506	8.471	0.035	1156	12.5	
27 1,3,5-Trinitrobenzene						
1	9.646	9.644	0.002	841	5.14	
24 1,3-Dinitrobenzene						
1	12.223	12.211	0.012	836	5.15	
9 3,5-Dinitroaniline						
1	12.933	12.941	-0.008	535	5.16	
20 Tetryl						
1	13.233	13.221	0.012	477	5.04	
5 Nitrobenzene						
1	13.887	13.884	0.003	377	5.28	
7 Nitroglycerin						
2	14.423	14.418	0.005	394	5.60	
25 2,4,6-Trinitrotoluene						
1	15.280	15.291	-0.011	485	5.08	
26 4-Amino-2,6-dinitrotoluene						
1	15.850	15.838	0.012	409	5.22	
$ 30 3,4-Dinitrotoluene						
1	16.247	16.271	-0.024	303	5.30	
2	16.270	16.274	-0.004	555	5.18	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						M
1	16.800	16.801	-0.001	437	5.20	M
12 2,6-Dinitrotoluene						
1	18.317	18.308	0.009	305	5.10	
23 2,4-Dinitrotoluene						
1	18.933	18.948	-0.015	501	5.07	
16 o-Nitrotoluene						M
1	22.110	22.151	-0.041	224	5.28	M
15 p-Nitrotoluene						
1	23.757	23.768	-0.011	275	5.18	
8 m-Nitrotoluene						M
1	25.583	25.564	0.019	259	4.98	M
21 PETN						
2	27.533	27.491	0.042	254	6.45	

QC Flag Legend

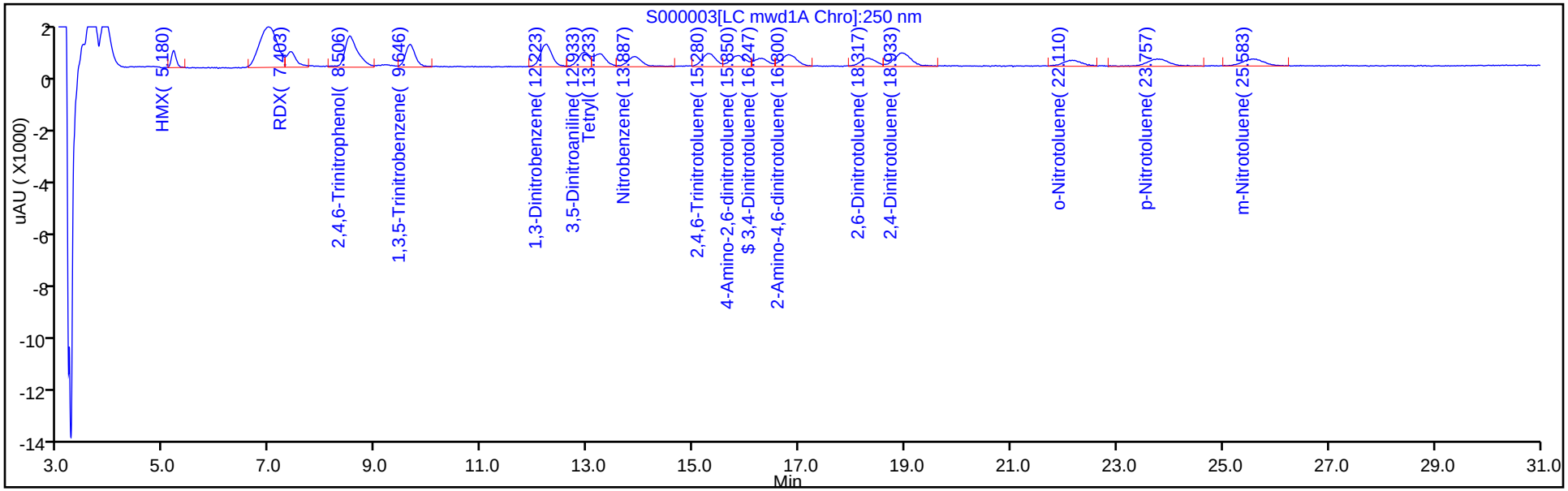
Review Flags
M - Manually Integrated

Report Date: 22-Apr-2013 09:45:25 Chrom Revision: 2.1 07-Apr-2013 20:36:54

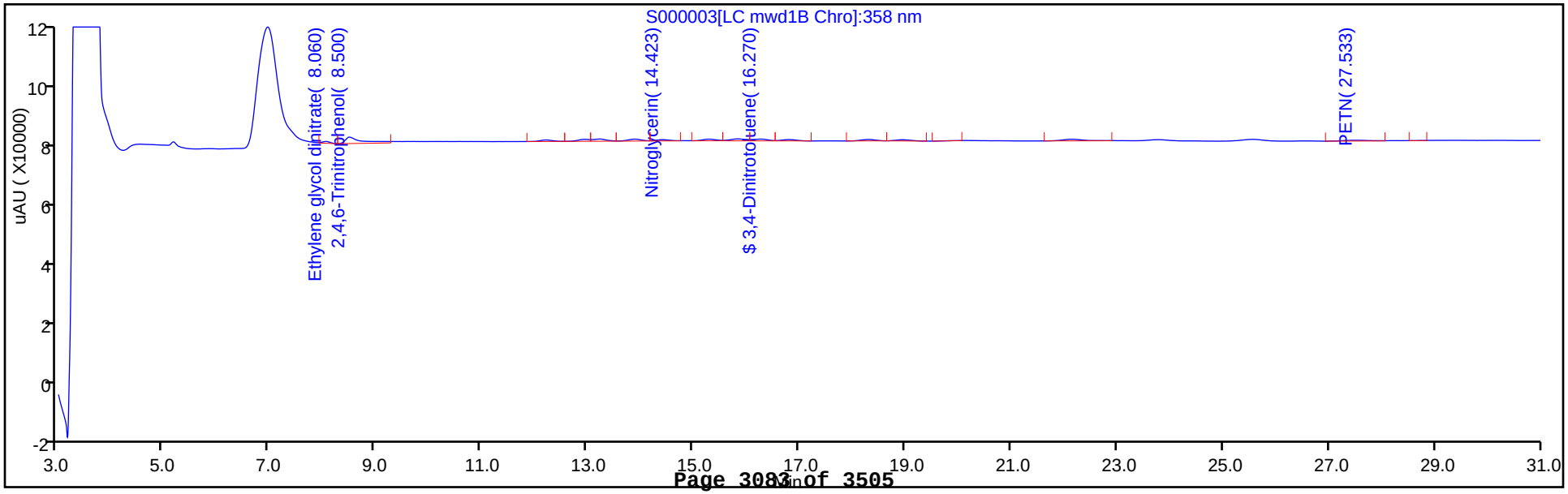
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000003.D		
Injection Date:	19-Apr-2013 10:45:31	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

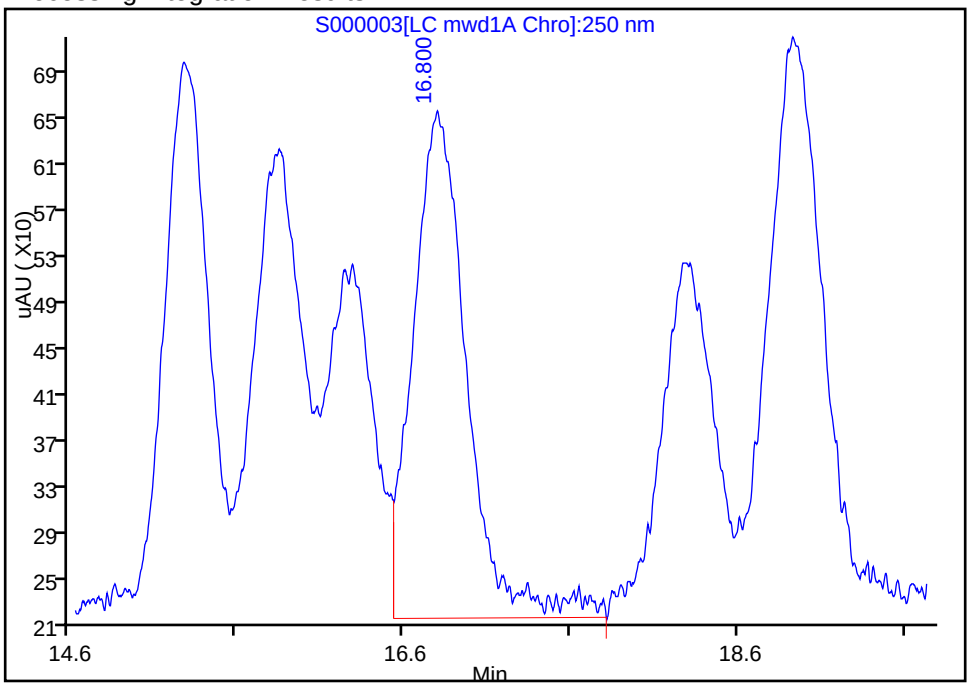
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000003.D		
Injection Date:	19-Apr-2013 10:45:31	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

6 2-Amino-4,6-dinitrotoluene, Signal: 1, Type: quant, RT: 16.80, Det: LC mwd1A

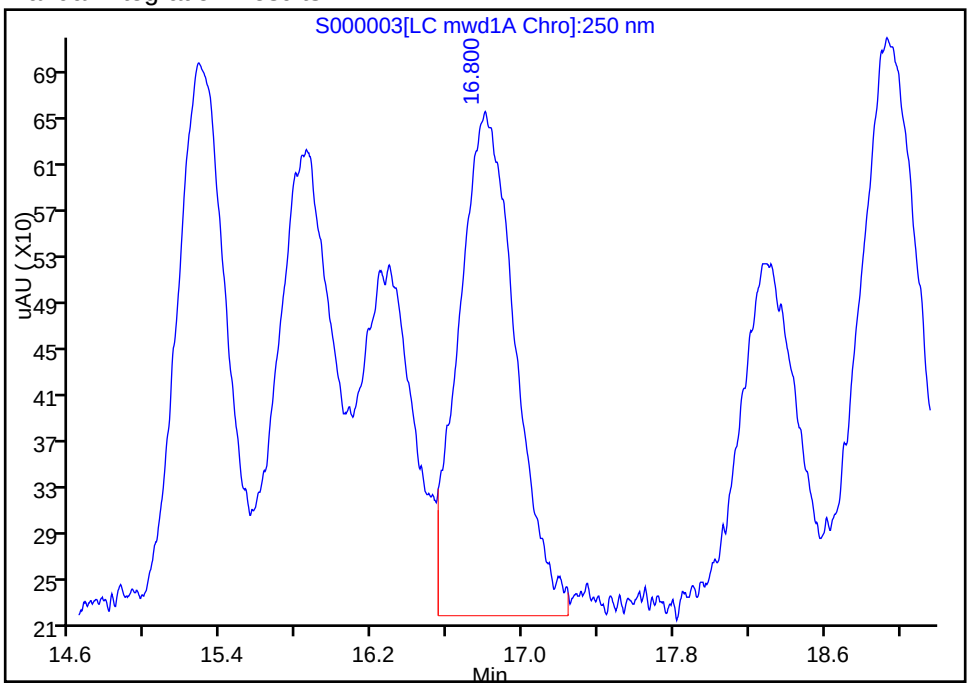
Processing Integration Results

RT: 16.80
Response: 440
Amount: 5.000000



Manual Integration Results

RT: 16.80
Response: 437
Amount: 5.200833



Reviewer: shafern, 19-Apr-2013 11:37:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

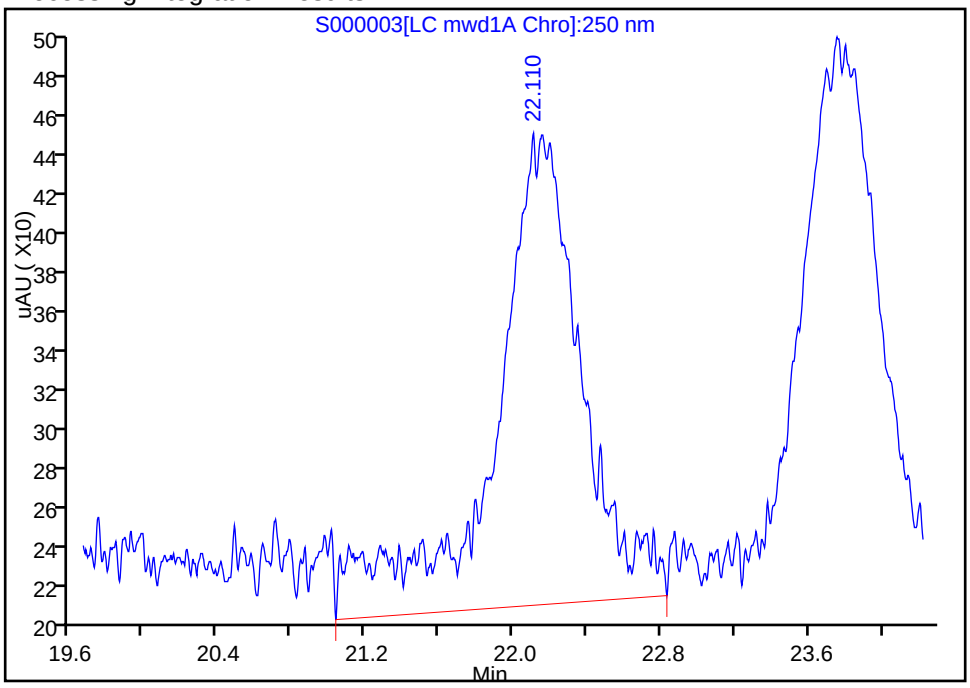
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000003.D		
Injection Date:	19-Apr-2013 10:45:31	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

16 o-Nitrotoluene, Signal: 1, Type: quant, RT: 22.15, Det: LC mwd1A

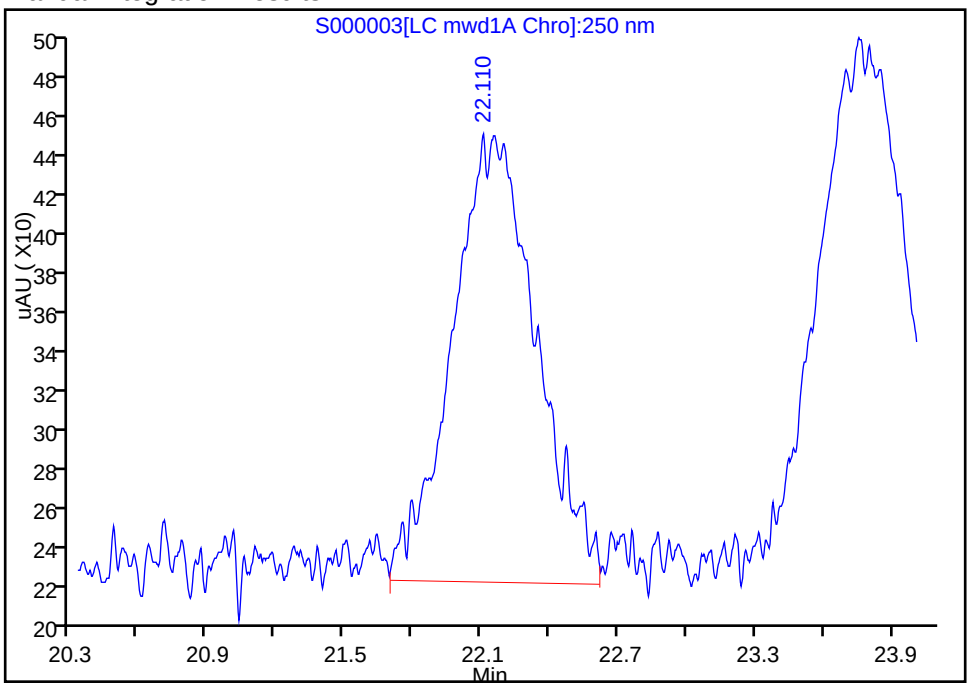
Processing Integration Results

RT: 22.11
Response: 236
Amount: 5.000000



Manual Integration Results

RT: 22.11
Response: 224
Amount: 5.277216



Reviewer: shafern, 19-Apr-2013 11:37:41
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

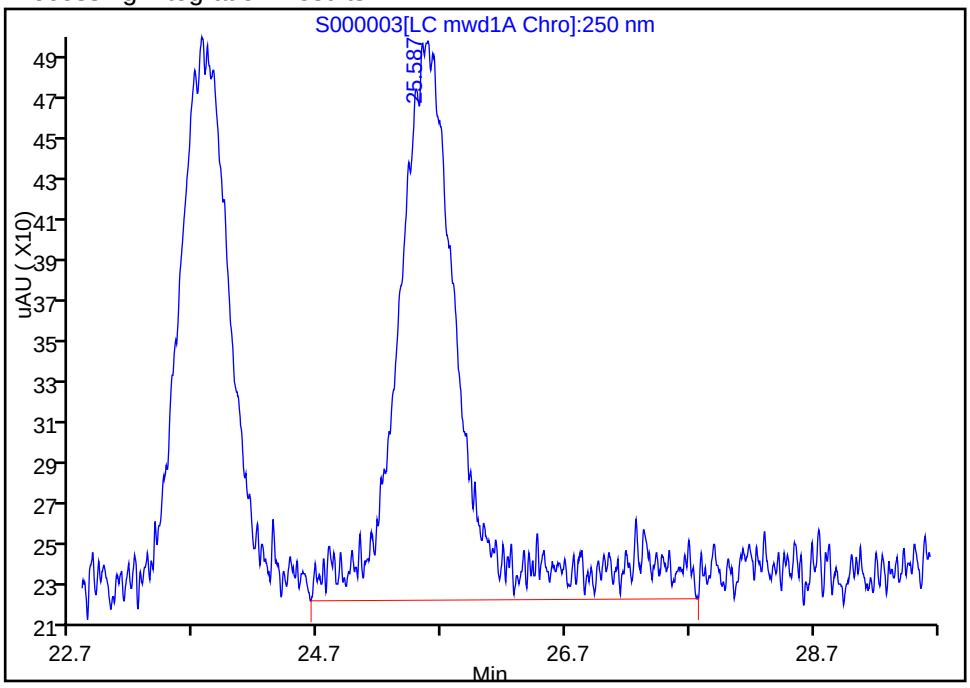
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000003.D		
Injection Date:	19-Apr-2013 10:45:31	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

8 m-Nitrotoluene, Signal: 1, Type: quant, RT: 25.56, Det: LC mwd1A

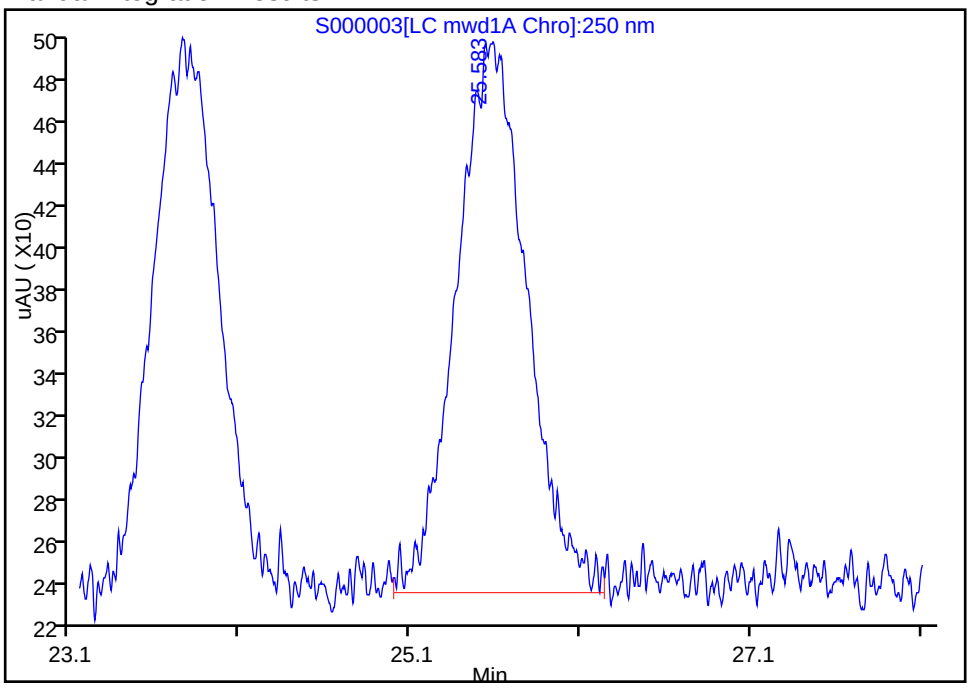
Processing Integration Results

RT: 25.59
Response: 268
Amount: 5.000000



Manual Integration Results

RT: 25.58
Response: 259
Amount: 4.979608



Reviewer: shafern, 19-Apr-2013 11:37:41
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000004.D
Lims ID: STD02 Client ID:
Inject. Date: 19-Apr-2013 11:29:07 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 320-0003998-003
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 12
Lims Batch ID: 14686 Lims Sample ID: 3
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m
Last Update: 22-Apr-2013 09:45:25 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 19-Apr-2013 13:16:16

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.177	5.177	0.0	1339	10.7	
19 RDX						
1	7.400	7.397	0.003	1052	11.6	
3 Ethylene glycol dinitrate						
2	8.064	8.061	0.003	1199	10.8	
10 2,4,6-Trinitrophenol						M
2	8.494	8.471	0.023	3456	26.1	M
1	8.504	8.471	0.033	2167	23.5	
27 1,3,5-Trinitrobenzene						
1	9.644	9.644	0.0	1760	10.8	
24 1,3-Dinitrobenzene						
1	12.214	12.211	0.003	1762	10.9	
9 3,5-Dinitroaniline						
1	12.950	12.941	0.009	1130	10.9	
20 Tetryl						
1	13.230	13.221	0.009	1007	10.6	
5 Nitrobenzene						
1	13.897	13.884	0.013	764	10.7	
7 Nitroglycerin						
2	14.430	14.418	0.012	768	10.9	
25 2,4,6-Trinitrotoluene						
1	15.287	15.291	-0.004	1026	10.8	
26 4-Amino-2,6-dinitrotoluene						
1	15.850	15.838	0.012	843	10.8	
$ 30 3,4-Dinitrotoluene						
1	16.284	16.271	0.013	591	10.3	
2	16.287	16.274	0.013	1055	9.85	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.817	16.801	0.016	909	10.8	
12 2,6-Dinitrotoluene						
1	18.304	18.308	-0.004	652	10.9	
23 2,4-Dinitrotoluene						
1	18.947	18.948	-0.001	1068	10.8	
16 o-Nitrotoluene						
1	22.157	22.151	0.006	466	11.0	
15 p-Nitrotoluene						
1	23.737	23.768	-0.031	573	10.8	
8 m-Nitrotoluene						
1	25.587	25.564	0.023	557	10.7	
21 PETN						
2	27.490	27.491	-0.001	458	11.6	

QC Flag Legend

Review Flags
M - Manually Integrated

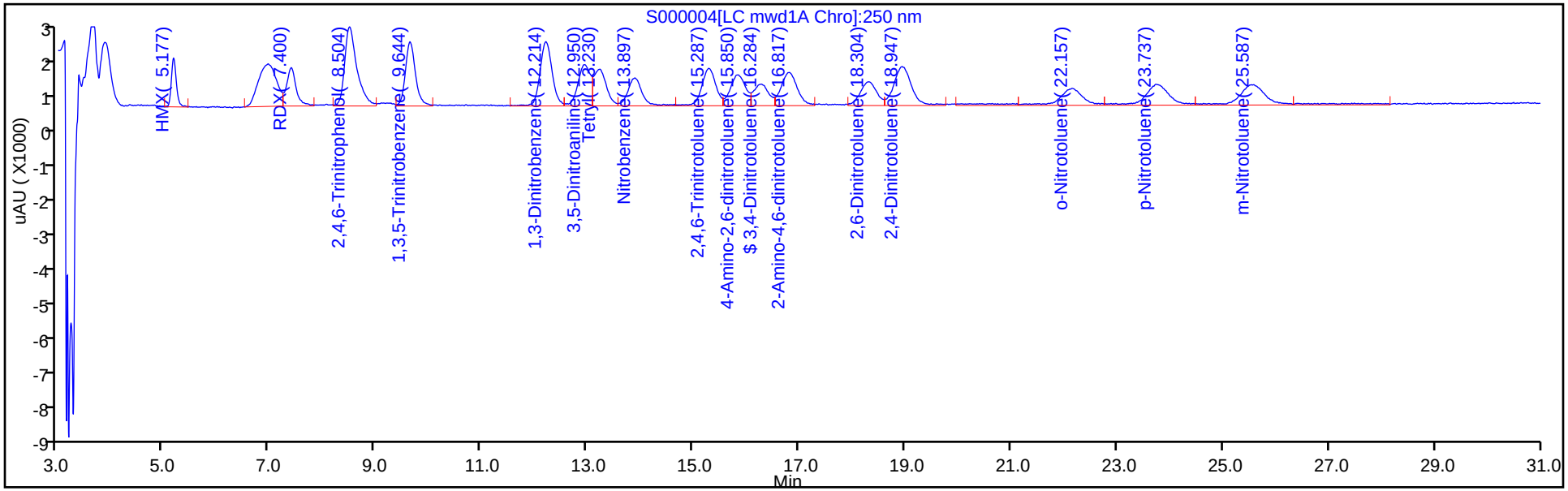
Report Date: 22-Apr-2013 09:45:26 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

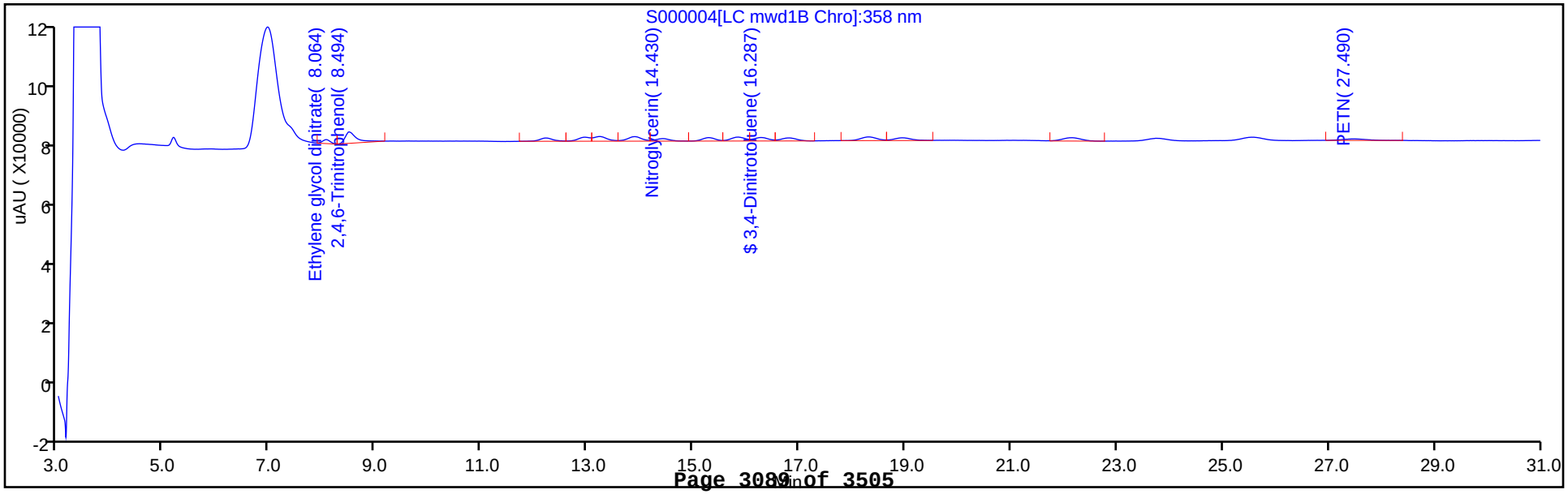
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000004.D

Injection Date:	19-Apr-2013 11:29:07	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

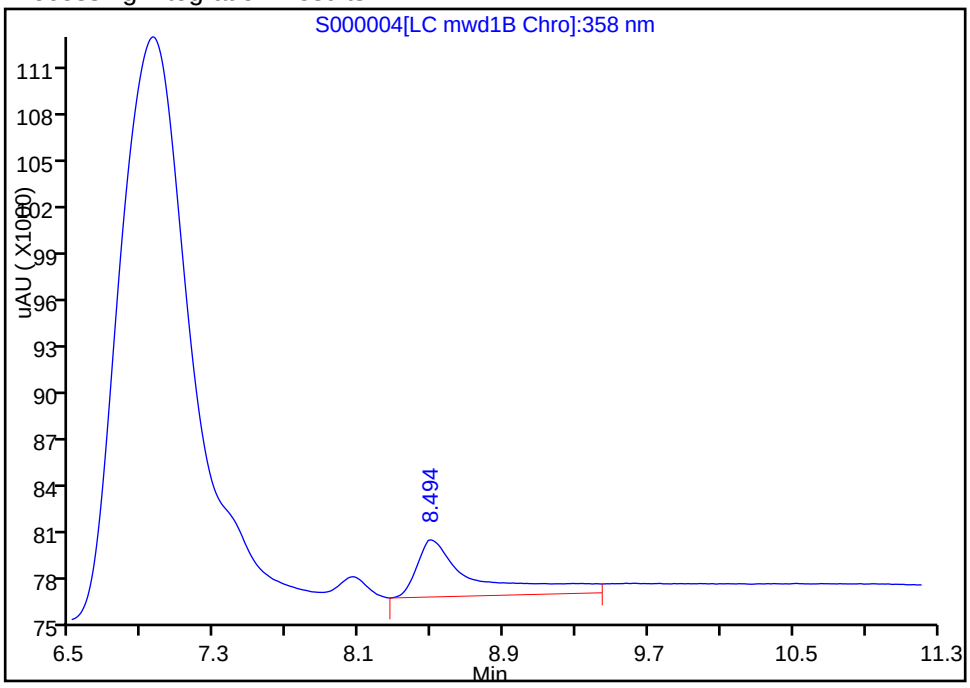
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000004.D		
Injection Date:	19-Apr-2013 11:29:07	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 8.47, Det: LC mwd1B

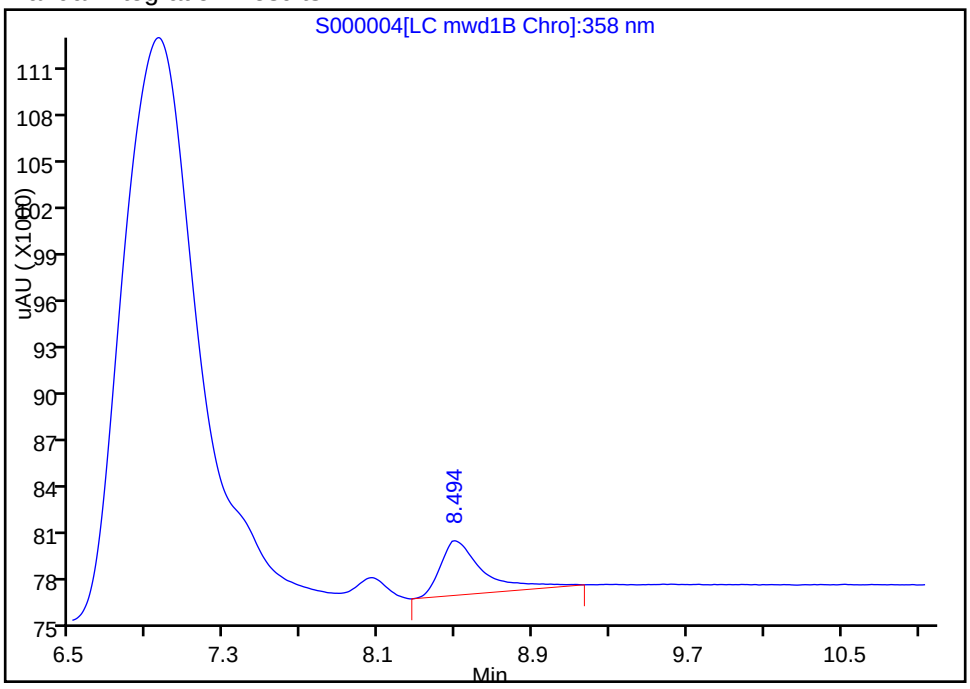
Processing Integration Results

RT: 8.49
Response: 3616
Amount: 18.956750



Manual Integration Results

RT: 8.49
Response: 3456
Amount: 26.131535



Reviewer: shafern, 19-Apr-2013 13:16:16
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000005.D		
Lims ID:	STD03	Client ID:	
Inject. Date:	19-Apr-2013 12:12:47	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	320-0003998-004		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	13
Lims Batch ID:	14686	Lims Sample ID:	4
Sublist:	chrom-8330_LC10*sub1		
Method:	\\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:45:26	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 19-Apr-2013 15:25:33

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.181	5.177	0.004	2588	20.6	
19 RDX						
1	7.395	7.397	-0.002	1918	21.1	
3 Ethylene glycol dinitrate						
2	8.055	8.061	-0.006	2248	20.3	
10 2,4,6-Trinitrophenol						M
2	8.481	8.471	0.010	7299	55.2	M
1	8.485	8.471	0.014	4857	52.7	
27 1,3,5-Trinitrobenzene						
1	9.645	9.644	0.001	3382	20.7	
24 1,3-Dinitrobenzene						
1	12.208	12.211	-0.003	3373	20.8	
9 3,5-Dinitroaniline						
1	12.931	12.941	-0.010	2153	20.8	
20 Tetryl						
1	13.211	13.221	-0.010	1900	20.1	
5 Nitrobenzene						
1	13.871	13.884	-0.013	1464	20.5	
7 Nitroglycerin						
2	14.415	14.418	-0.003	1577	22.4	
25 2,4,6-Trinitrotoluene						
1	15.291	15.291	0.0	1940	20.3	
26 4-Amino-2,6-dinitrotoluene						
1	15.838	15.838	0.0	1601	20.4	
$ 30 3,4-Dinitrotoluene						
1	16.275	16.271	0.004	1129	19.7	
2	16.275	16.274	0.001	2197	20.5	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.791	16.801	-0.010	1719	20.5	
12 2,6-Dinitrotoluene						
1	18.305	18.308	-0.003	1227	20.5	
23 2,4-Dinitrotoluene						
1	18.941	18.948	-0.007	2017	20.4	
16 o-Nitrotoluene						
1	22.171	22.151	0.020	857	20.2	
15 p-Nitrotoluene						
1	23.768	23.768	0.0	1080	20.3	
8 m-Nitrotoluene						
1	25.541	25.564	-0.023	1064	20.5	
21 PETN						
2	27.475	27.491	-0.016	772	19.6	

QC Flag Legend

Review Flags
M - Manually Integrated

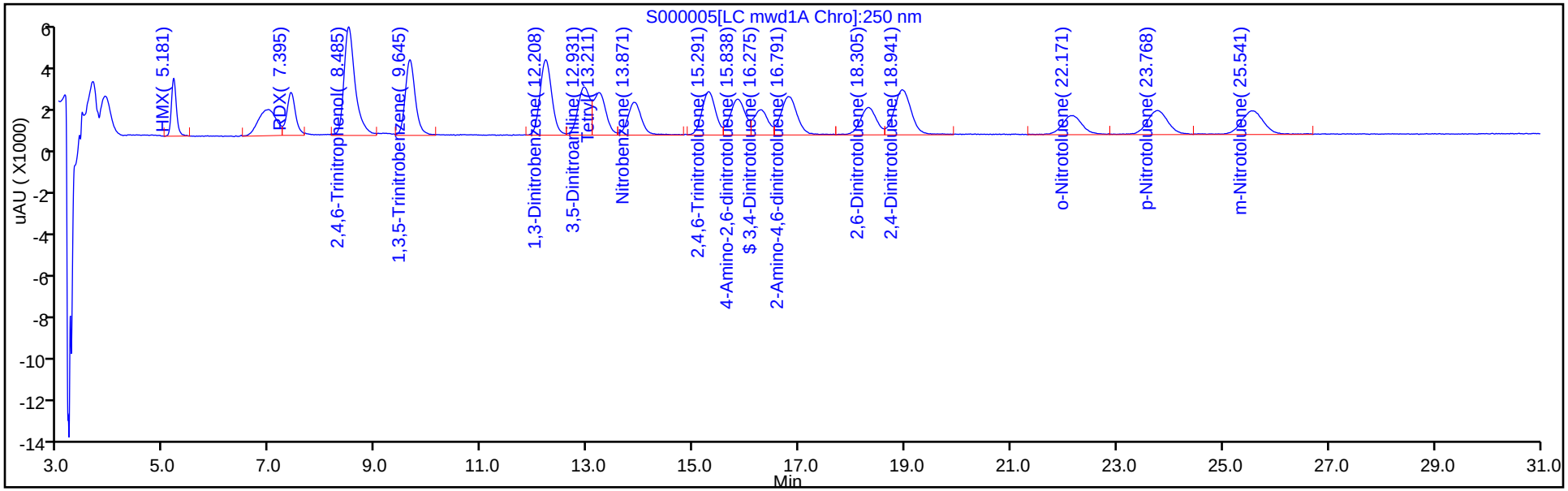
Report Date: 22-Apr-2013 09:45:27 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

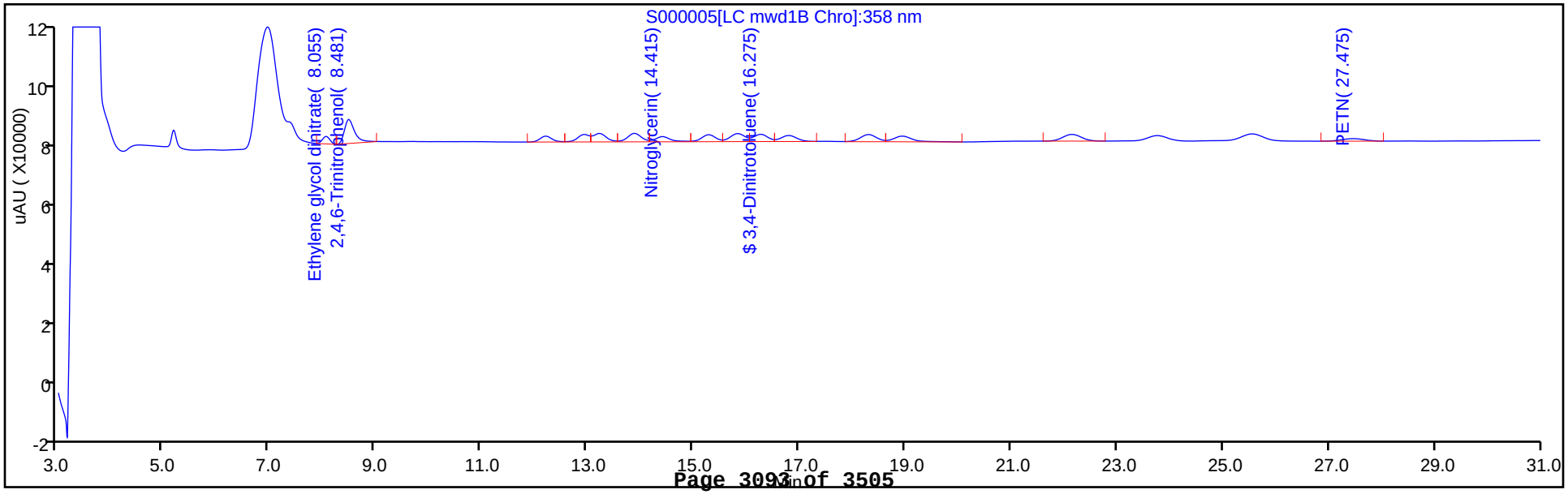
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000005.D

Injection Date:	19-Apr-2013 12:12:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

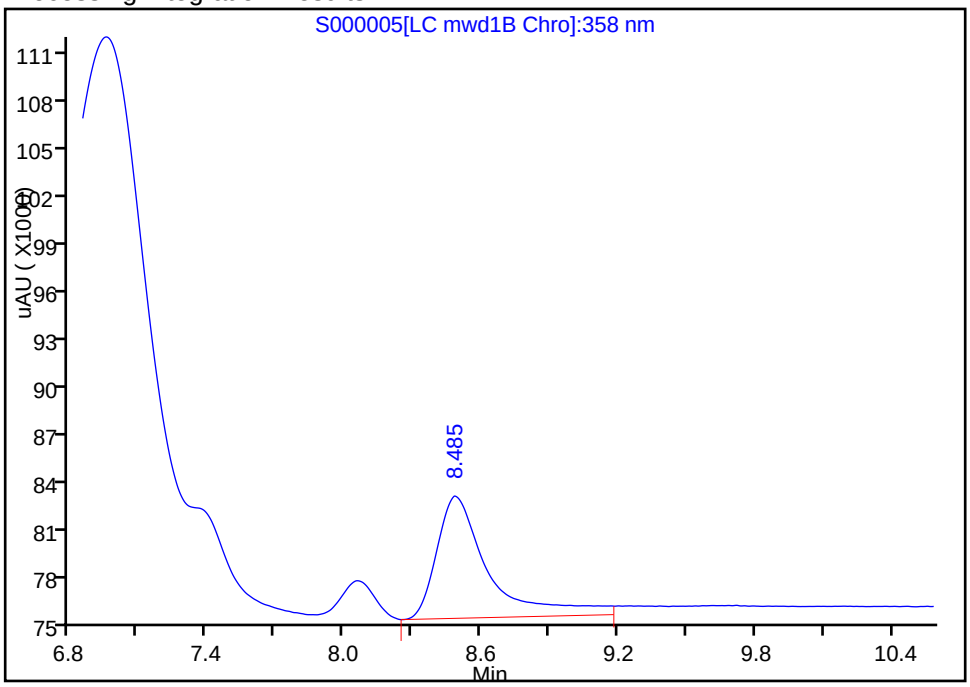
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000005.D		
Injection Date:	19-Apr-2013 12:12:47	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 8.47, Det: LC mwd1B

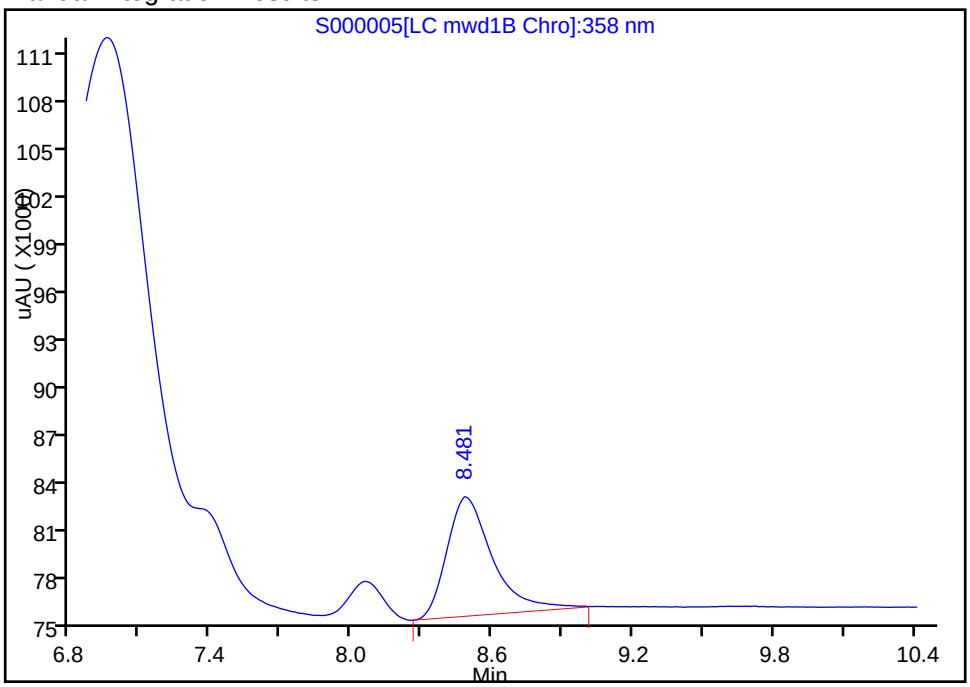
Processing Integration Results

RT: 8.48
Response: 7465
Amount: 42.836649



Manual Integration Results

RT: 8.48
Response: 7299
Amount: 55.189257



Reviewer: shafern, 19-Apr-2013 15:25:33
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000006.D
Lims ID: STD04 Client ID:
Inject. Date: 19-Apr-2013 12:56:26 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: 320-0003998-005
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 14
Lims Batch ID: 14686 Lims Sample ID: 5
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m
Last Update: 22-Apr-2013 09:45:27 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 19-Apr-2013 15:26:29

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.177	5.177	0.0	6372	50.8	
19 RDX						
1	7.397	7.397	0.0	4555	50.1	
3 Ethylene glycol dinitrate						
2	8.060	8.061	-0.001	5509	49.8	
10 2,4,6-Trinitrophenol						M
2	8.480	8.471	0.009	14238	107.7	M
1	8.477	8.471	0.006	9778	106.1	
27 1,3,5-Trinitrobenzene						
1	9.640	9.644	-0.004	8339	51.0	
24 1,3-Dinitrobenzene						
1	12.207	12.211	-0.004	8331	51.3	
9 3,5-Dinitroaniline						
1	12.934	12.941	-0.007	5327	51.4	
20 Tetryl						
1	13.217	13.221	-0.004	4715	49.8	
5 Nitrobenzene						
1	13.880	13.884	-0.004	3677	51.5	
7 Nitroglycerin						
2	14.410	14.418	-0.008	3403	48.4	
25 2,4,6-Trinitrotoluene						
1	15.284	15.291	-0.007	4769	50.0	
26 4-Amino-2,6-dinitrotoluene						
1	15.834	15.838	-0.004	3945	50.3	
$ 30 3,4-Dinitrotoluene						
1	16.267	16.271	-0.004	2986	52.2	
2	16.267	16.274	-0.007	5656	52.8	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.794	16.801	-0.007	4254	50.6	
12 2,6-Dinitrotoluene						
1	18.290	18.308	-0.018	3005	50.2	
23 2,4-Dinitrotoluene						
1	18.934	18.948	-0.014	4982	50.4	
16 o-Nitrotoluene						
1	22.137	22.151	-0.014	2128	50.1	
15 p-Nitrotoluene						
1	23.760	23.768	-0.008	2649	49.9	
8 m-Nitrotoluene						M
1	25.564	25.564	0.0	2613	50.2	M
21 PETN						
2	27.477	27.491	-0.014	1741	44.2	

QC Flag Legend

Review Flags
M - Manually Integrated

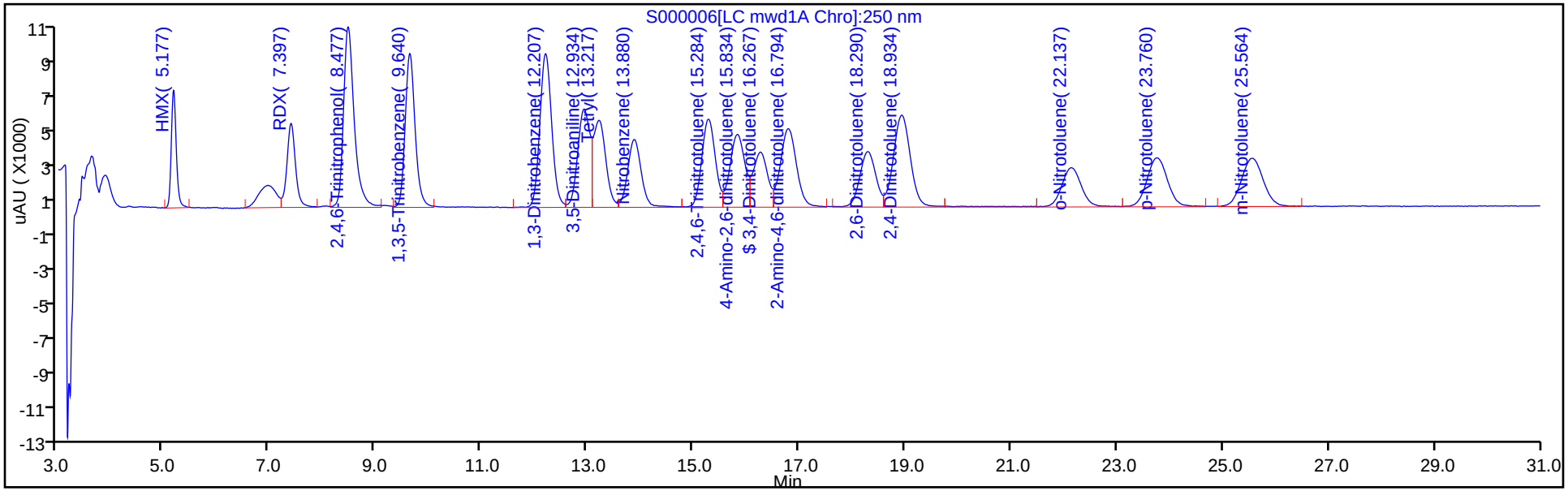
Report Date: 22-Apr-2013 09:45:28 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

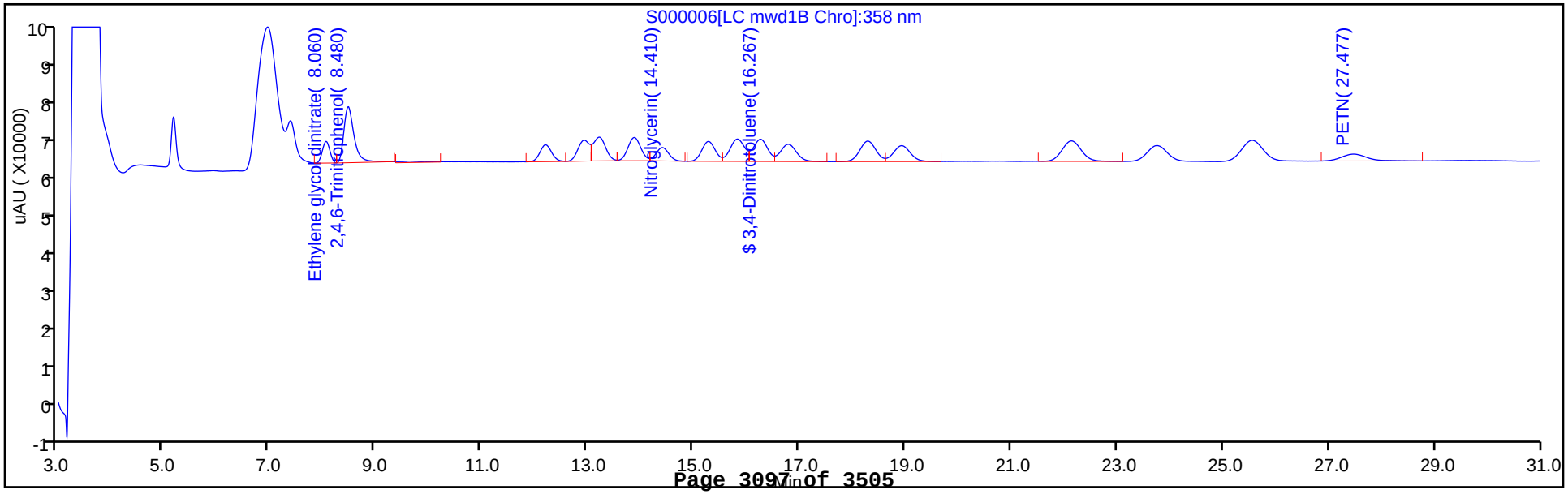
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000006.D

Injection Date:	19-Apr-2013 12:56:26	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

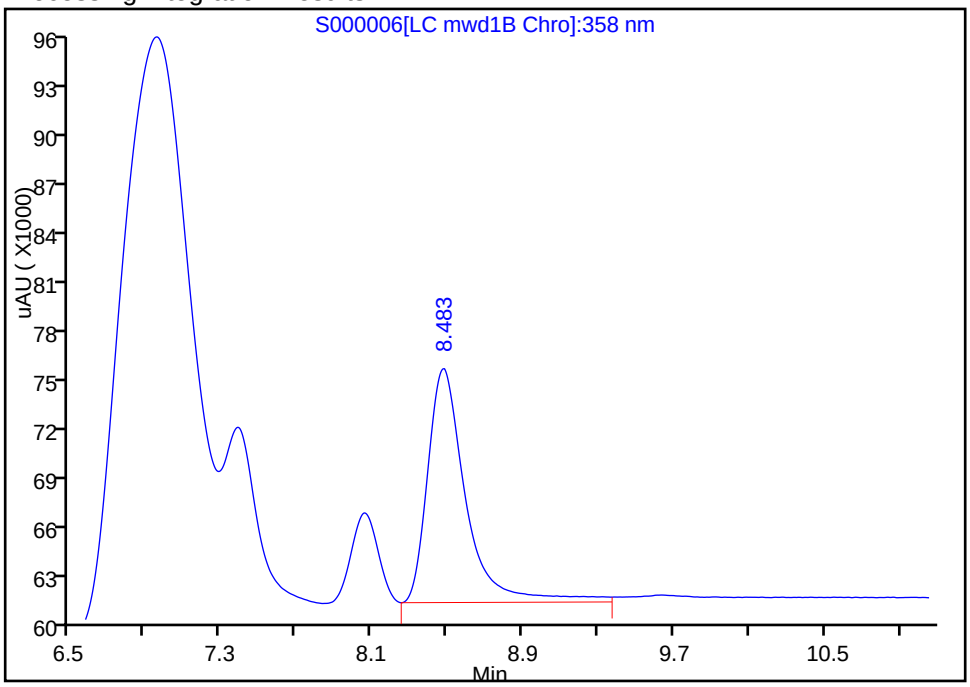
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000006.D		
Injection Date:	19-Apr-2013 12:56:26	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 8.47, Det: LC mwd1B

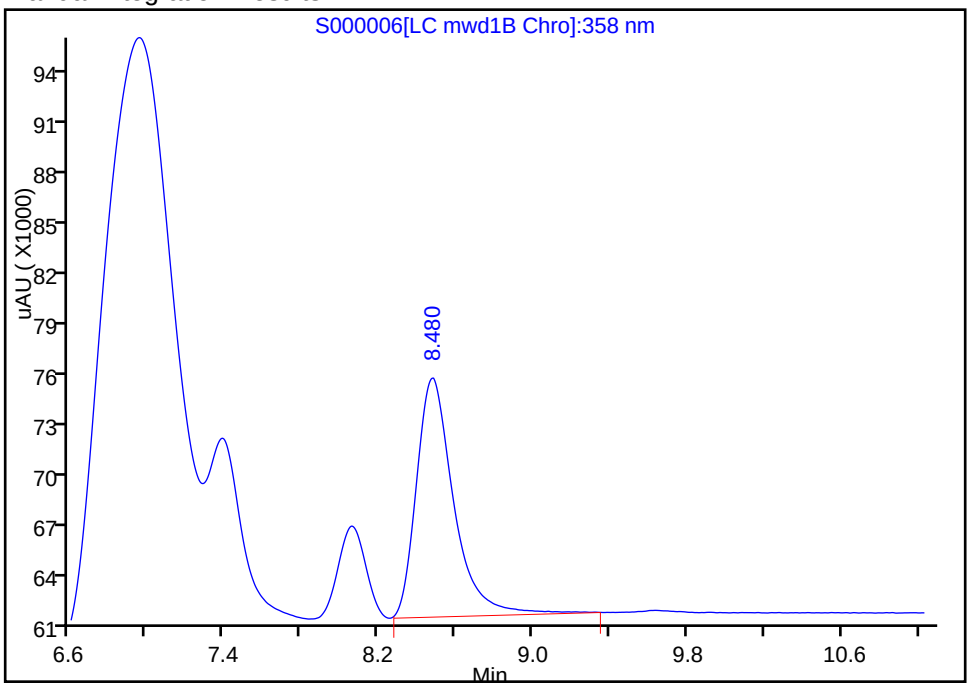
Processing Integration Results

RT: 8.48
Response: 14294
Amount: 86.313819



Manual Integration Results

RT: 8.48
Response: 14238
Amount: 107.6565



Reviewer: shafern, 19-Apr-2013 15:26:29
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

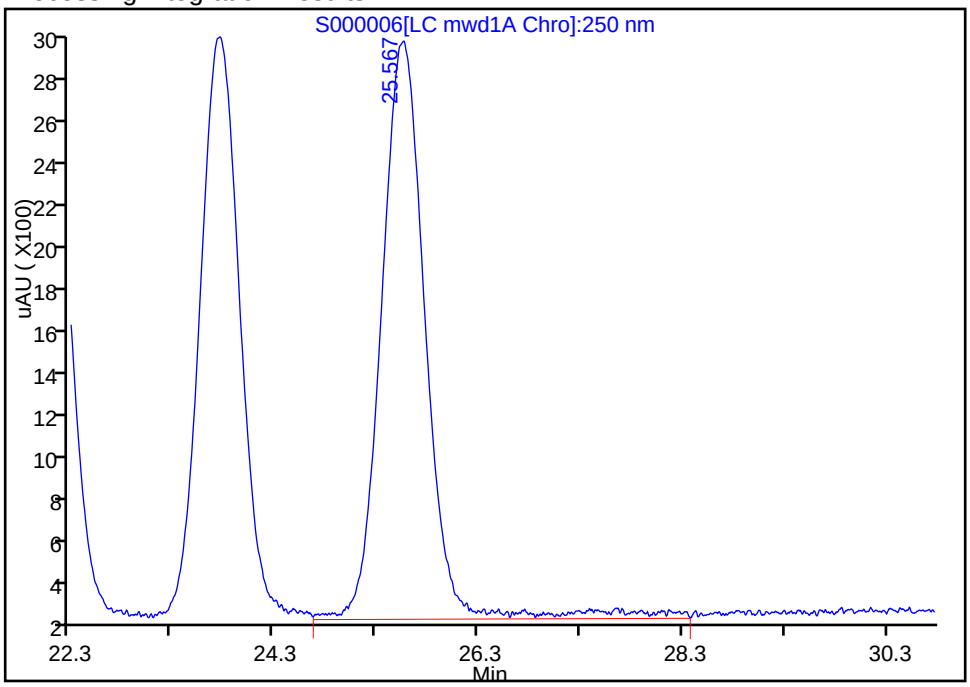
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000006.D		
Injection Date:	19-Apr-2013 12:56:26	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

8 m-Nitrotoluene, Signal: 1, Type: quant, RT: 25.56, Det: LC mwd1A

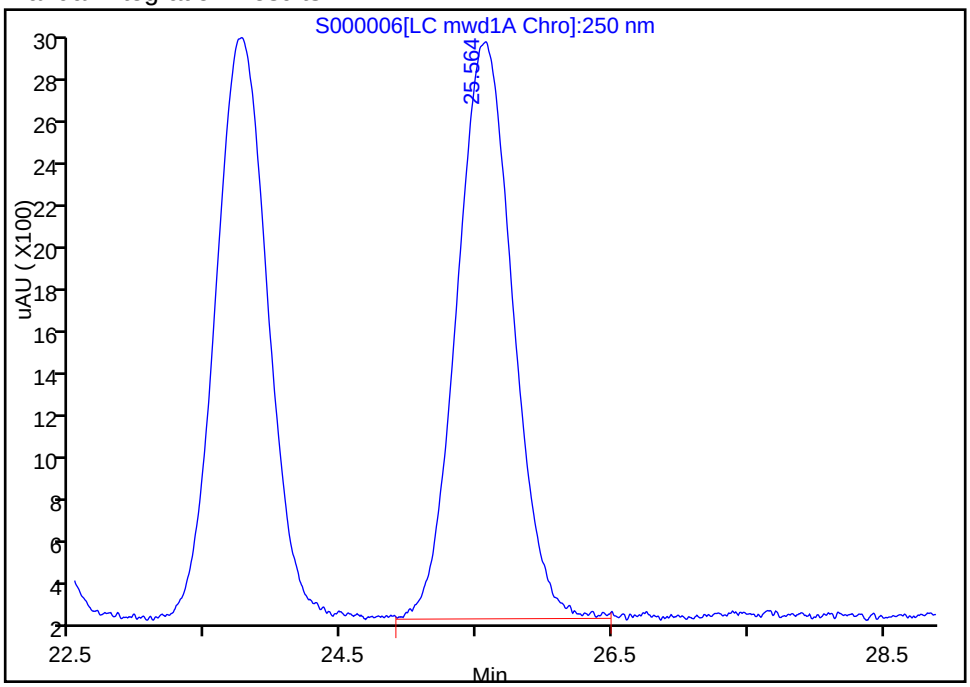
Processing Integration Results

RT: 25.57
Response: 2626
Amount: 49.263671



Manual Integration Results

RT: 25.56
Response: 2613
Amount: 50.238286



Reviewer: shafern, 19-Apr-2013 15:26:29
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000007.D		
Lims ID:	STD05	Client ID:	
Inject. Date:	19-Apr-2013 13:40:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	320-0003998-006		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	15
Lims Batch ID:	14686	Lims Sample ID:	6
Sublist:	chrom-8330_LC10*sub1		
Method:	\\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:45:28	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.177	5.177	0.0	12694	101.2	
19 RDX						
1	7.397	7.397	0.0	8868	97.5	
3 Ethylene glycol dinitrate						
2	8.061	8.061	0.0	11175	101.1	
10 2,4,6-Trinitrophenol						
2	8.471	8.471	0.0	26918	203.5	
1	8.471	8.471	0.0	18680	202.8	
27 1,3,5-Trinitrobenzene						
1	9.644	9.644	0.0	16560	101.3	
24 1,3-Dinitrobenzene						
1	12.211	12.211	0.0	16482	101.6	
9 3,5-Dinitroaniline						
1	12.941	12.941	0.0	10501	101.3	
20 Tetryl						
1	13.221	13.221	0.0	9396	99.3	
5 Nitrobenzene						
1	13.884	13.884	0.0	7254	101.6	
7 Nitroglycerin						
2	14.418	14.418	0.0	6756	96.1	
25 2,4,6-Trinitrotoluene						
1	15.291	15.291	0.0	9517	99.8	
26 4-Amino-2,6-dinitrotoluene						
1	15.838	15.838	0.0	7852	100.2	
$ 30 3,4-Dinitrotoluene						
1	16.271	16.271	0.0	5557	97.1	
2	16.274	16.274	0.0	10567	98.6	
6 2-Amino-4,6-dinitrotoluene						
1	16.801	16.801	0.0	8432	100.4	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
12 2,6-Dinitrotoluene						
1	18.308	18.308	0.0	5967	99.7	
23 2,4-Dinitrotoluene						
1	18.948	18.948	0.0	9896	100.2	
16 o-Nitrotoluene						
1	22.151	22.151	0.0	4209	99.2	
15 p-Nitrotoluene						
1	23.768	23.768	0.0	5289	99.6	
8 m-Nitrotoluene						
1	25.564	25.564	0.0	5210	100.2	
21 PETN						
2	27.491	27.491	0.0	3689	93.7	

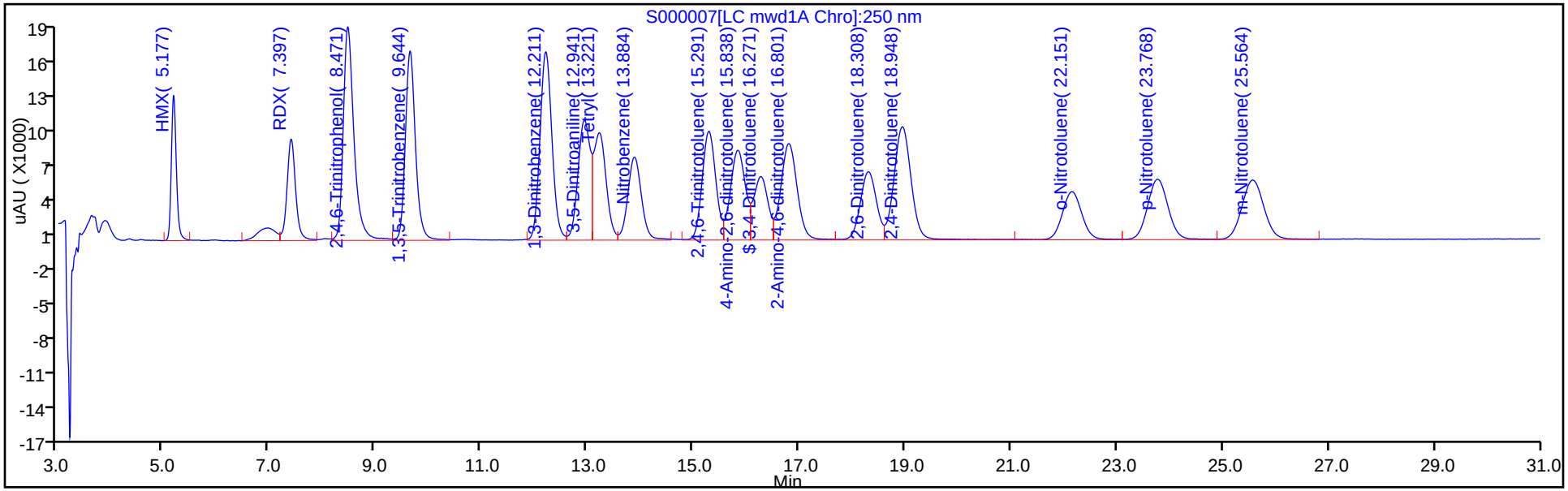
Report Date: 22-Apr-2013 09:45:28 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

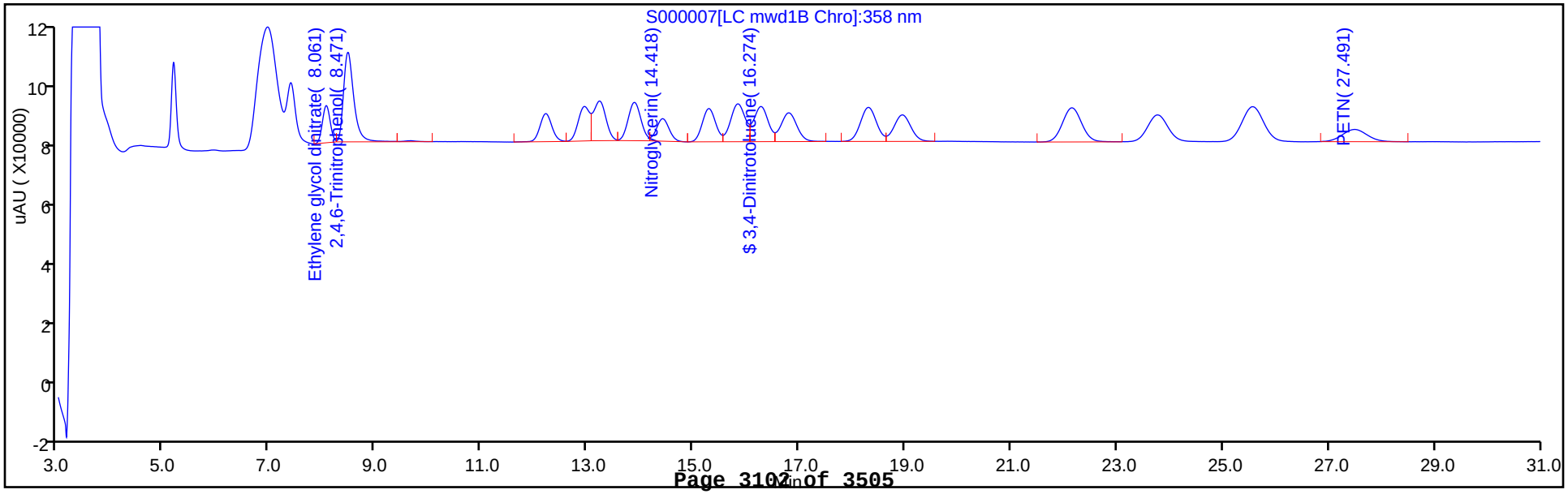
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000007.D

Injection Date:	19-Apr-2013 13:40:02	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	6
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000008.D		
Lims ID:	STD06	Client ID:	
Inject. Date:	19-Apr-2013 14:23:40	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	320-0003998-007		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	16
Lims Batch ID:	14686	Lims Sample ID:	7
Sublist:	chrom-8330_LC10*sub1		
Method:	\\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:45:29	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 19-Apr-2013 15:27:19

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.176	5.177	-0.001	25267	201.4	
19 RDX						
1	7.393	7.397	-0.004	17241	189.5	
3 Ethylene glycol dinitrate						
2	8.059	8.061	-0.002	22759	205.9	
10 2,4,6-Trinitrophenol						M
2	8.433	8.471	-0.038	65156	492.7	M
1	8.433	8.471	-0.038	44678	485.0	
27 1,3,5-Trinitrobenzene						
1	9.643	9.644	-0.001	32794	200.5	
24 1,3-Dinitrobenzene						
1	12.206	12.211	-0.005	32542	200.6	
9 3,5-Dinitroaniline						
1	12.933	12.941	-0.008	20758	200.3	
20 Tetryl						
1	13.223	13.221	0.002	18775	198.4	
5 Nitrobenzene						
1	13.886	13.884	0.002	14291	200.2	
7 Nitroglycerin						
2	14.423	14.418	0.005	13446	191.2	
25 2,4,6-Trinitrotoluene						
1	15.293	15.291	0.002	19008	199.3	
26 4-Amino-2,6-dinitrotoluene						
1	15.839	15.838	0.001	15622	199.3	
$ 30 3,4-Dinitrotoluene						
1	16.279	16.271	0.008	10988	192.0	
2	16.279	16.274	0.005	20909	195.1	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.799	16.801	-0.002	16763	199.5	
12 2,6-Dinitrotoluene						
1	18.309	18.308	0.001	11907	199.0	
23 2,4-Dinitrotoluene						
1	18.949	18.948	0.001	19698	199.4	
16 o-Nitrotoluene						
1	22.163	22.151	0.012	8331	196.3	
15 p-Nitrotoluene						
1	23.783	23.768	0.015	10494	197.6	
8 m-Nitrotoluene						
1	25.583	25.564	0.019	10365	199.3	
21 PETN						
2	27.509	27.491	0.018	7255	184.4	

QC Flag Legend

Review Flags
M - Manually Integrated

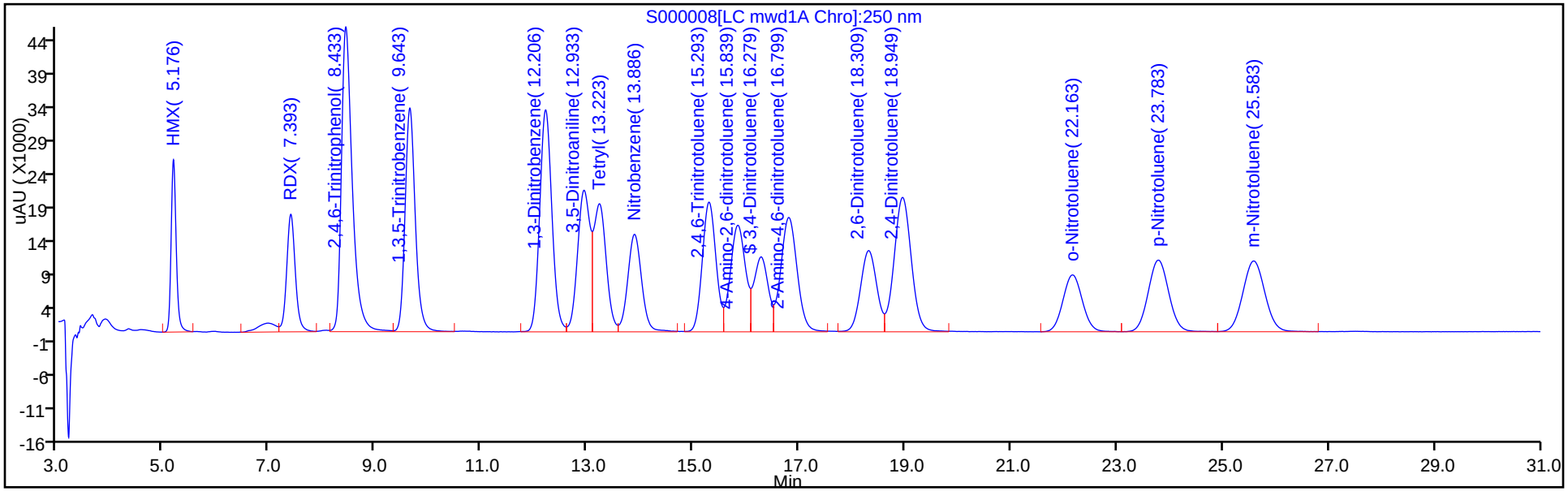
Report Date: 22-Apr-2013 09:45:29 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

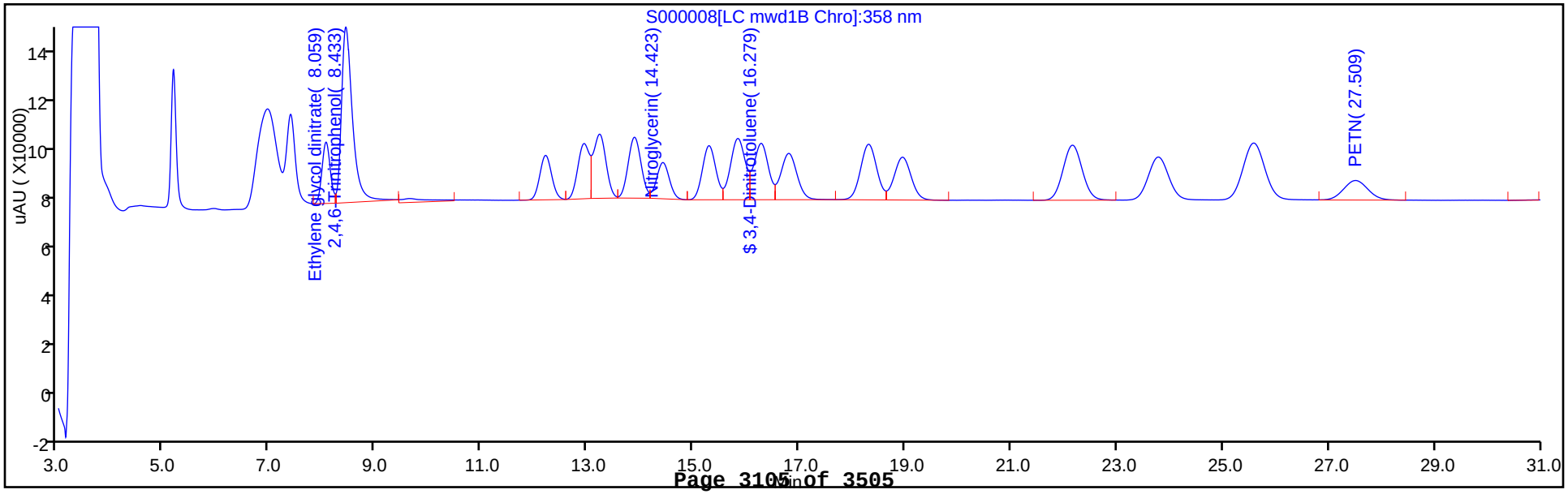
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000008.D

Injection Date:	19-Apr-2013 14:23:40	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

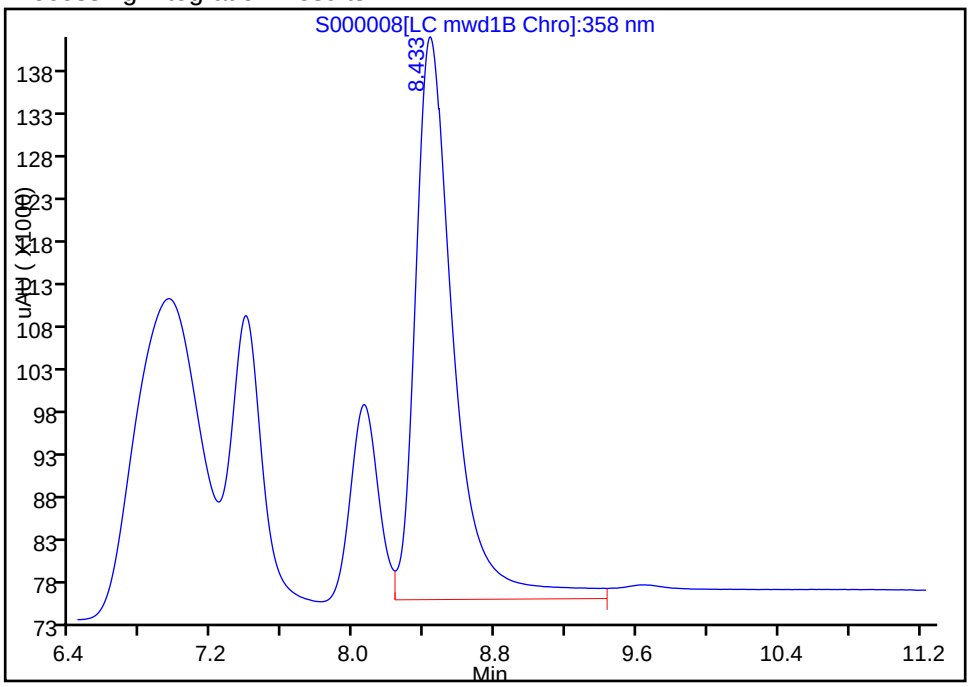
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000008.D		
Injection Date:	19-Apr-2013 14:23:40	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 8.47, Det: LC mwd1B

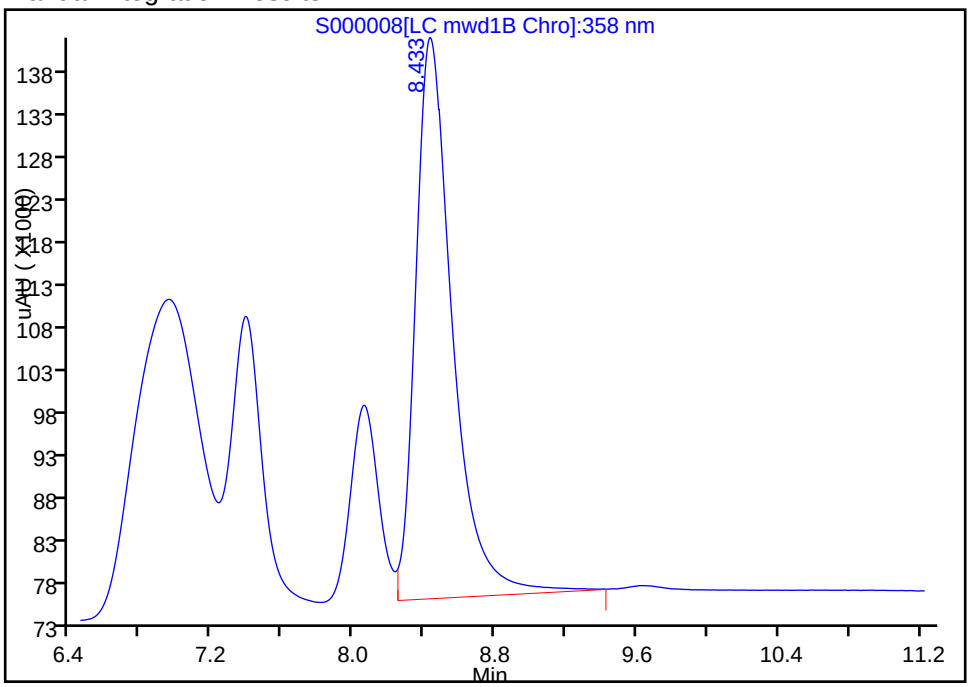
Processing Integration Results

RT: 8.43
Response: 65336
Amount: 412.1979



Manual Integration Results

RT: 8.43
Response: 65156
Amount: 492.6581



Reviewer: shafern, 19-Apr-2013 15:27:19
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000009.D
Lims ID: STD07 Client ID:
Inject. Date: 19-Apr-2013 15:07:19 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: 320-0003998-008
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 17
Lims Batch ID: 14686 Lims Sample ID: 8
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m
Last Update: 22-Apr-2013 09:45:30 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 19-Apr-2013 16:36:11

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.172	5.177	-0.005	61566	490.7	
19 RDX						
1	7.389	7.397	-0.008	40090	440.6	
3 Ethylene glycol dinitrate						
2	8.055	8.061	-0.006	54185	490.3	
10 2,4,6-Trinitrophenol						M
2	8.402	8.471	-0.069	121095	915.6	M
1	8.402	8.471	-0.069	82784	898.6	
27 1,3,5-Trinitrobenzene						
1	9.642	9.644	-0.002	78943	482.7	
24 1,3-Dinitrobenzene						
1	12.209	12.211	-0.002	77722	479.1	
9 3,5-Dinitroaniline						
1	12.939	12.941	-0.002	49661	479.2	
20 Tetryl						
1	13.229	13.221	0.008	46816	494.7	
5 Nitrobenzene						
1	13.885	13.884	0.001	34191	479.0	
7 Nitroglycerin						
2	14.429	14.418	0.011	32582	463.4	
25 2,4,6-Trinitrotoluene						
1	15.302	15.291	0.011	46703	489.6	
26 4-Amino-2,6-dinitrotoluene						
1	15.852	15.838	0.014	38004	485.0	
$ 30 3,4-Dinitrotoluene						
1	16.282	16.271	0.011	16751	292.8	
2	16.285	16.274	0.011	31557	294.5	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.815	16.801	0.014	40608	483.3	
12 2,6-Dinitrotoluene						
1	18.329	18.308	0.021	29008	484.8	
23 2,4-Dinitrotoluene						
1	18.972	18.948	0.024	48115	487.0	
16 o-Nitrotoluene						
1	22.179	22.151	0.028	20494	482.8	
15 p-Nitrotoluene						
1	23.802	23.768	0.034	25862	487.0	
8 m-Nitrotoluene						
1	25.605	25.564	0.041	25555	491.3	
21 PETN						
2	27.542	27.491	0.051	17977	456.9	

QC Flag Legend

Review Flags
M - Manually Integrated

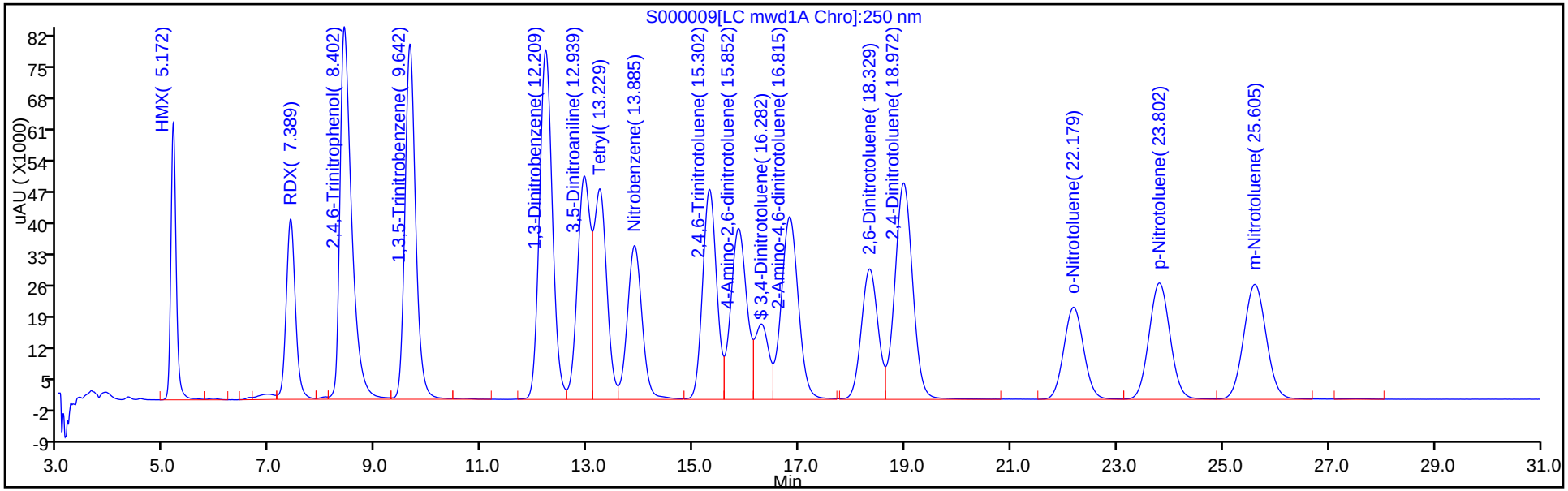
Report Date: 22-Apr-2013 09:45:30 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

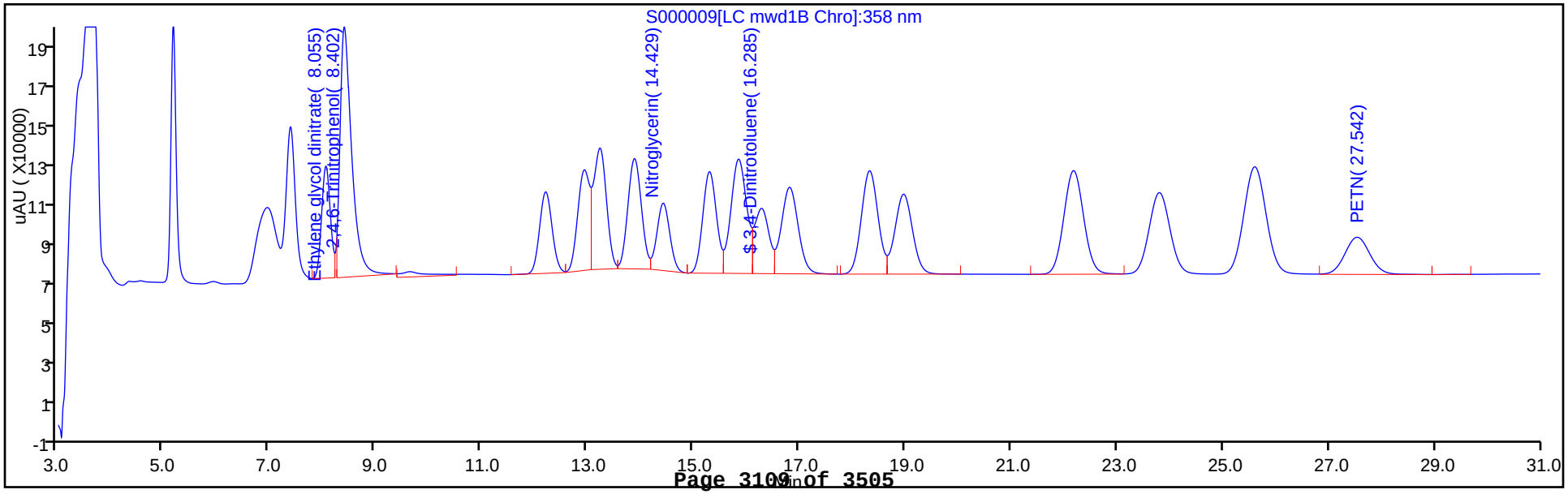
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000009.D

Injection Date:	19-Apr-2013 15:07:19	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	8
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

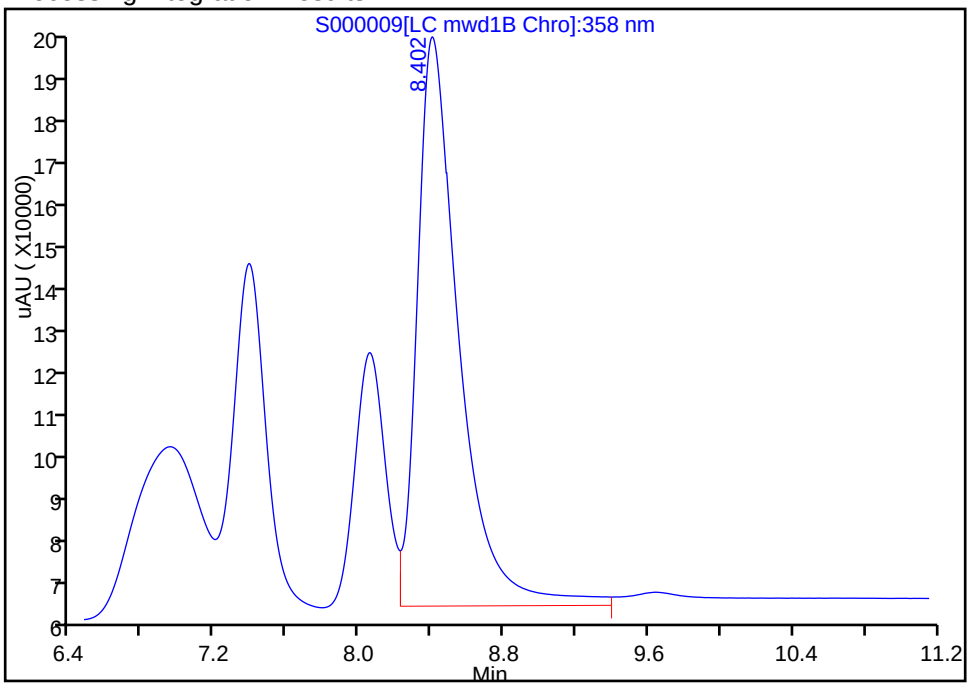
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000009.D		
Injection Date:	19-Apr-2013 15:07:19	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	8
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

10 2,4,6-Trinitrophenol, Signal: 1, Type: quant, RT: 8.47, Det: LC mwd1B

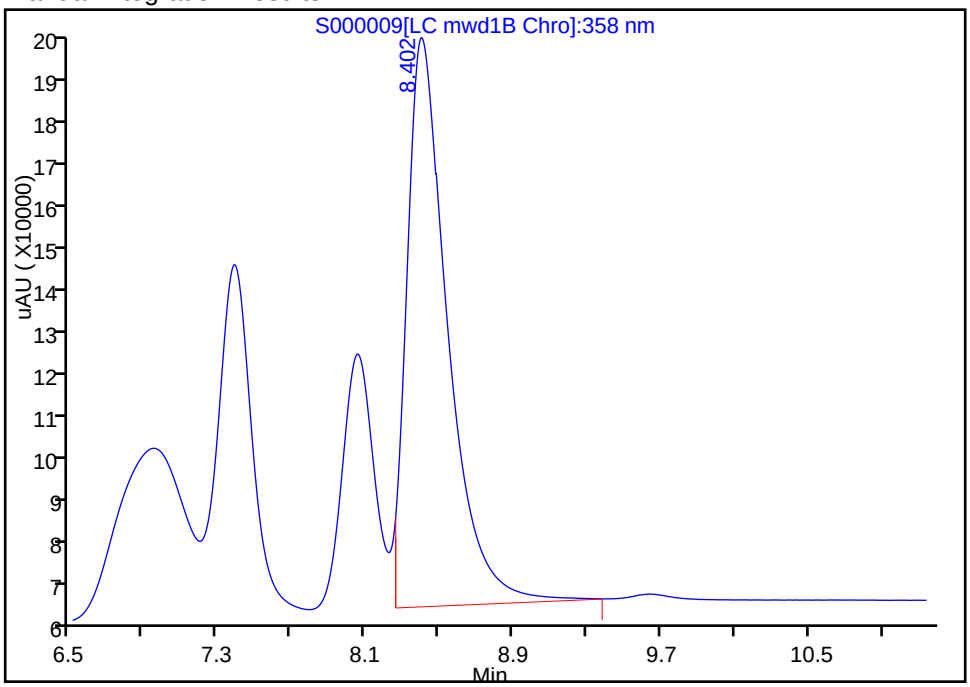
Processing Integration Results

RT: 8.40
Response: 121334
Amount: 972.5626



Manual Integration Results

RT: 8.40
Response: 121095
Amount: 915.6245



Reviewer: shafern, 19-Apr-2013 16:36:11
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Lims ID: STD08 Client ID:
Inject. Date: 19-Apr-2013 15:51:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: 320-0003998-009
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 18
Lims Batch ID: 14686 Lims Sample ID: 9
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m
Last Update: 22-Apr-2013 09:45:31 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 22-Apr-2013 09:44:45

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.157	5.177	-0.020	110291	879.1	
19 RDX						
1	7.354	7.397	-0.043	66491	730.7	
3 Ethylene glycol dinitrate						
2	8.030	8.061	-0.031	92745	839.2	
10 2,4,6-Trinitrophenol						
2	8.317	8.471	-0.154	211078	1596.0	
1	8.317	8.471	-0.154	142605	1547.9	
27 1,3,5-Trinitrobenzene						
1	9.614	9.644	-0.030	140814	861.0	
24 1,3-Dinitrobenzene						
1	12.164	12.211	-0.047	136282	840.0	
9 3,5-Dinitroaniline						
1	12.887	12.941	-0.054	86750	837.1	
20 Tetryl						
1	13.191	13.221	-0.030	90160	952.8	
5 Nitrobenzene						
1	13.841	13.884	-0.043	60068	841.6	
7 Nitroglycerin						
2	14.394	14.418	-0.024	60020	853.6	
25 2,4,6-Trinitrotoluene						
1	15.271	15.291	-0.020	87568	917.9	
26 4-Amino-2,6-dinitrotoluene						
1	15.797	15.838	-0.041	69235	883.5	
$ 30 3,4-Dinitrotoluene						
1	16.231	16.271	-0.040	27760	485.2	
2	16.237	16.274	-0.037	51173	477.6	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.761	16.801	-0.040	73519	875.0	
12 2,6-Dinitrotoluene						
1	18.281	18.308	-0.027	53808	899.3	
23 2,4-Dinitrotoluene						
1	18.921	18.948	-0.027	89180	902.7	
16 o-Nitrotoluene						
1	22.141	22.151	-0.010	38030	895.9	
15 p-Nitrotoluene						
1	23.771	23.768	0.003	48433	912.1	
8 m-Nitrotoluene						
1	25.581	25.564	0.017	48102	924.8	
21 PETN						
2	27.541	27.491	0.050	35657	906.2	

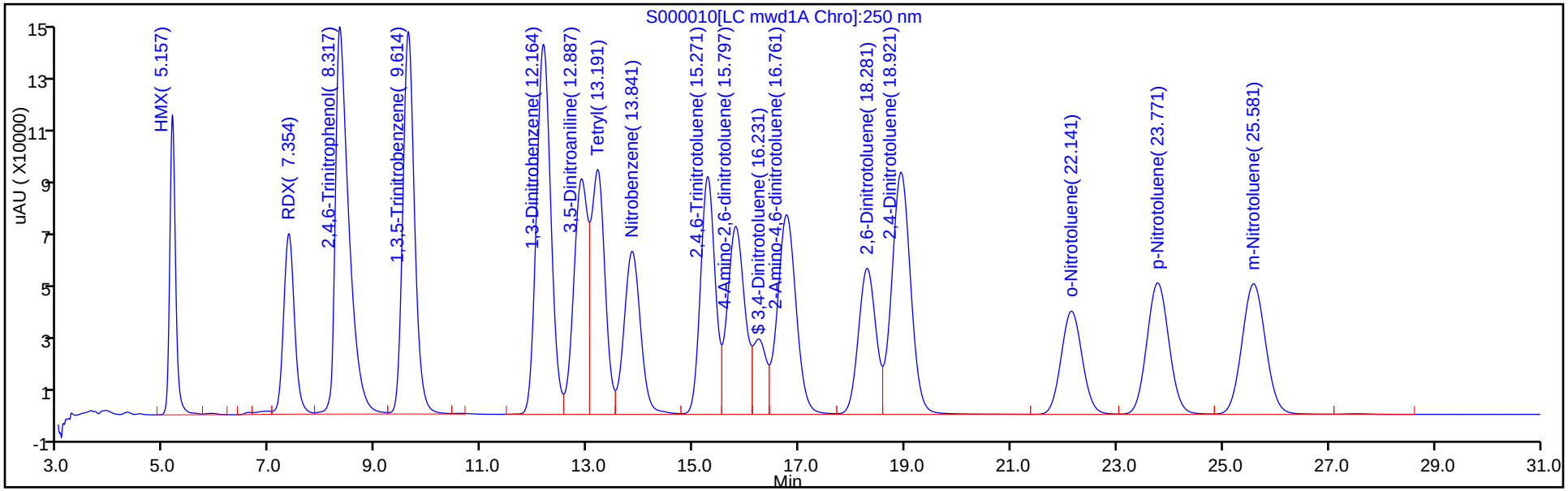
Report Date: 22-Apr-2013 09:45:31 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

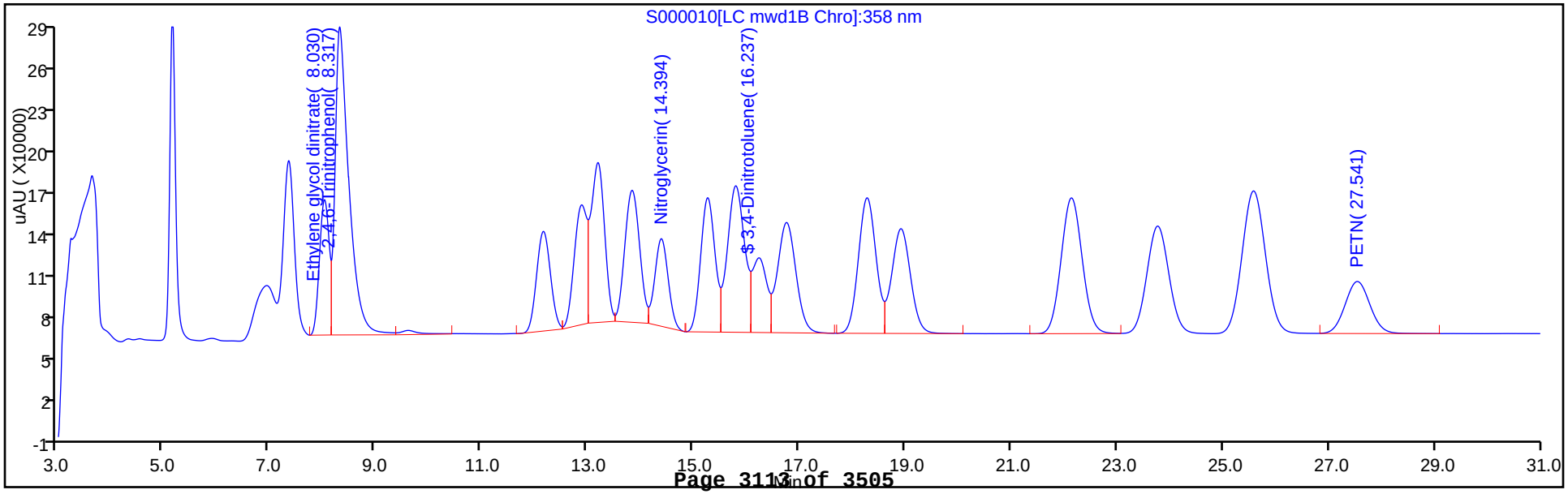
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D

Injection Date:	19-Apr-2013 15:51:00	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	9
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-10422/2	M000003.D
Level 2	STD02 320-10422/3	M000004.D
Level 3	STD03 320-10422/4	M000005.D
Level 4	STD04 320-10422/5	M000006.D
Level 5	STD05 320-10422/6	M000007.D
Level 6	STD06 320-10422/7	M000008.D
Level 7	STD07 320-10422/8	M000009.D
Level 8	STD08 320-10422/9	M000010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Nitrobenzene	22.647	22.792	22.724	22.701	22.719	22.685	22.683	22.568			22.469 - 22.969	22.690
Ethylene glycol dinitrate			23.951	23.961	23.972	23.939	23.960	23.865			23.722 - 24.222	23.941
1,3-Dinitrobenzene	25.801	25.899	25.831	25.814	25.819	25.792	25.813	25.688			25.569 - 26.069	25.807
1,3,5-Trinitrobenzene	28.744	28.849	28.761	28.751	28.749	28.735	28.773	28.668			28.499 - 28.999	28.754
2-Nitrotoluene	29.854	29.992	29.921	29.887	29.882	29.862	29.913	29.735			29.632 - 30.132	29.881
4-Nitrotoluene	29.854	29.992	29.921	29.887	29.882	29.862	29.913	29.735			29.632 - 30.132	29.881
3-Nitrotoluene	30.464	30.599	30.514	30.491	30.496	30.475	30.523	30.328			30.246 - 30.746	30.486
3,5-Dinitroaniline	31.874	32.025	31.918	31.881	31.889	31.872	31.940	31.755			31.639 - 32.139	31.894
RDX	32.451	32.639	32.521	32.497	32.489	32.469	32.540	32.298			32.239 - 32.739	32.488
2,4-Dinitrotoluene	33.711	33.875	33.758	33.734	33.726	33.715	33.780	33.595			33.476 - 33.976	33.737
2,6-Dinitrotoluene	34.721	34.859	34.768	34.741	34.739	34.725	34.796	34.605			34.489 - 34.989	34.744
2-Amino-4,6-dinitrotoluene	36.767	36.972	36.844	36.807	36.802	36.782	36.886	36.671			36.552 - 37.052	36.816
4-Amino-2,6-dinitrotoluene	37.384	37.515	37.418	37.394	37.376	37.362	37.456	37.255			37.126 - 37.626	37.395
2,4,6-Trinitrotoluene	41.221	41.309	41.224	41.207	41.196	41.189	41.263	41.145			40.946 - 41.446	41.219
HMX	42.604	42.739	42.648	42.614	42.609	42.595	42.690	42.541			42.359 - 42.859	42.630
Nitroglycerin			45.151	45.127	45.139	45.115	45.223	45.088			44.889 - 45.389	45.141
Tetryl	46.727	46.829	46.744	46.711	46.719	46.695	46.816	46.668			46.469 - 46.969	46.739
PETN			53.101	53.074	53.082	53.039	53.166	53.048			52.832 - 53.332	53.085
3,4-Dinitrotoluene	39.014	39.169	39.041	39.004	38.999	38.979	39.073	38.891			38.749 - 39.249	39.021

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-10422/2	M000003.D
Level 2	STD02 320-10422/3	M000004.D
Level 3	STD03 320-10422/4	M000005.D
Level 4	STD04 320-10422/5	M000006.D
Level 5	STD05 320-10422/6	M000007.D
Level 6	STD06 320-10422/7	M000008.D
Level 7	STD07 320-10422/8	M000009.D
Level 8	STD08 320-10422/9	M000010.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Nitrobenzene	51.000 51.610	51.800 49.560	49.600 45.418	49.780 37.954	Ave		48.3402500				9.6		20.0			
Ethylene glycol dinitrate	 22.300	 22.135	24.000 21.404	22.960 18.459	Ave		21.8763333				8.6		20.0			
1,3-Dinitrobenzene	112.80 111.57	111.60 107.36	108.80 101.91	106.94 87.481	Ave		106.057000				7.8		20.0			
1,3,5-Trinitrobenzene	87.200 83.750	86.300 81.460	83.750 80.706	81.120 72.832	Ave		82.1397500				5.4		20.0			
2-Nitrotoluene	69.800 66.450	66.600 64.130	65.200 60.696	61.820 53.073	Ave		63.4711250				8.0		20.0			
4-Nitrotoluene	69.800 66.450	66.600 64.130	65.200 60.696	61.820 53.073	Ave		63.4711250				8.0		20.0			
3-Nitrotoluene	48.600 43.300	45.100 41.840	44.050 40.234	40.780 35.115	Ave		42.3773750				9.4		20.0			
3,5-Dinitroaniline	93.600 84.090	89.200 81.130	85.500 77.098	80.740 67.286	Ave		82.3305000				9.7		20.0			
RDX	59.600 48.330	54.000 46.555	51.400 45.108	47.540 39.765	Ave		49.0372500				12.0		20.0			
2,4-Dinitrotoluene	89.600 92.530	91.800 89.960	90.950 86.594	88.020 77.286	Ave		88.3425000				5.5		20.0			
2,6-Dinitrotoluene	55.000 54.920	56.600 53.555	55.400 52.806	53.420 47.331	Ave		53.6290000				5.3		20.0			
2-Amino-4,6-dinitrotoluene	69.800 78.190	78.200 76.745	75.750 75.752	75.660 65.117	Ave		74.4017500				6.2		20.0			
4-Amino-2,6-dinitrotoluene	70.600 73.020	72.200 72.060	70.750 70.936	70.380 62.561	Ave		70.3133750				4.6		20.0			
2,4,6-Trinitrotoluene	86.400 96.600	90.300 95.185	85.250 85.510	84.240 79.866	Ave		87.9188750				6.5		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	65.600 66.080	66.700 65.275	67.050 65.788	65.060 60.901	Ave		65.3067500				2.9		20.0			
Nitroglycerin	 87.830	 89.345	91.650 94.326	94.100 91.734	Ave		91.4975000				2.8		20.0			
Tetryl	115.60 135.04	115.70 133.31	113.25 114.99	112.12 111.50	Ave		118.937750				8.0		20.0			
PETN	 141.91	 142.71	146.35 151.90	148.06 149.64	Ave		146.761000				2.7		20.0			
3,4-Dinitrotoluene	56.000 53.590	55.900 53.170	53.100 53.943	53.400 48.234	Ave		53.4171667				4.5		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-10422/2	M000003.D
Level 2	STD02 320-10422/3	M000004.D
Level 3	STD03 320-10422/4	M000005.D
Level 4	STD04 320-10422/5	M000006.D
Level 5	STD05 320-10422/6	M000007.D
Level 6	STD06 320-10422/7	M000008.D
Level 7	STD07 320-10422/8	M000009.D
Level 8	STD08 320-10422/9	M000010.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Nitrobenzene	Ave	255 9912	518 22709	992 37954	2489	5161	5.00 200	10.0 500	20.0 1000	50.0	100
Ethylene glycol dinitrate	Ave	 4427	 10702	480 18459	1148	2230	 200	 500	20.0 1000	50.0	100
1,3-Dinitrobenzene	Ave	564 21471	1116 50955	2176 87481	5347	11157	5.00 200	10.0 500	20.0 1000	50.0	100
1,3,5-Trinitrobenzene	Ave	436 16292	863 40353	1675 72832	4056	8375	5.00 200	10.0 500	20.0 1000	50.0	100
2-Nitrotoluene	Ave	349 12826	666 30348	1304 53073	3091	6645	5.00 200	10.0 500	20.0 1000	50.0	100
4-Nitrotoluene	Ave	349 12826	666 30348	1304 53073	3091	6645	5.00 200	10.0 500	20.0 1000	50.0	100
3-Nitrotoluene	Ave	243 8368	451 20117	881 35115	2039	4330	5.00 200	10.0 500	20.0 1000	50.0	100
3,5-Dinitroaniline	Ave	468 16226	892 38549	1710 67286	4037	8409	5.00 200	10.0 500	20.0 1000	50.0	100
RDX	Ave	298 9311	540 22554	1028 39765	2377	4833	5.00 200	10.0 500	20.0 1000	50.0	100
2,4-Dinitrotoluene	Ave	448 17992	918 43297	1819 77286	4401	9253	5.00 200	10.0 500	20.0 1000	50.0	100
2,6-Dinitrotoluene	Ave	275 10711	566 26403	1108 47331	2671	5492	5.00 200	10.0 500	20.0 1000	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	349 15349	782 37876	1515 65117	3783	7819	5.00 200	10.0 500	20.0 1000	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	353 14412	722 35468	1415 62561	3519	7302	5.00 200	10.0 500	20.0 1000	50.0	100
2,4,6-Trinitrotoluene	Ave	432 19037	903 42755	1705 79866	4212	9660	5.00 200	10.0 500	20.0 1000	50.0	100
HMX	Ave	328 13055	667 32894	1341 60901	3253	6608	5.00 200	10.0 500	20.0 1000	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1 Analy Batch No.: 10422

SDG No.:

Instrument ID: LC12 GC Column: Zorbax CN ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 17:16 Calibration End Date: 02/14/2013 00:54 Calibration ID: 2128

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Nitroglycerin	Ave	17869	47163	1833 91734	4705	8783	200	500	20.0 1000	50.0	100
Tetryl	Ave	578 26661	1157 57496	2265 111495	5606	13504	5.00 200	10.0 500	20.0 1000	50.0	100
PETN	Ave	28542	75949	2927 149638	7403	14191	200	500	20.0 1000	50.0	100
3,4-Dinitrotoluene	Ave	280 10634	559 16183	1062 24117	2670	5359	5.00 200	10.0 300	20.0 500	50.0	100

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000003.D		
Lims ID:	STD01	Client ID:	
Inject. Date:	13-Feb-2013 17:16:36	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	320-0002792-002		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	11
Lims Batch ID:	10422	Lims Sample ID:	2
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:13	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:29:01

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.647	22.719	-0.072	255	5.28	
3 Ethylene glycol dinitrate						
2	23.981	23.972	0.009	122	5.58	
24 1,3-Dinitrobenzene						
1	25.801	25.819	-0.018	564	5.32	
27 1,3,5-Trinitrobenzene						
1	28.744	28.749	-0.005	436	5.31	
16 o-Nitrotoluene						
1	29.854	29.882	-0.028	349	5.50	
15 p-Nitrotoluene						
1	29.854	29.882	-0.028	349	5.50	
8 m-Nitrotoluene						
1	30.464	30.496	-0.032	243	5.73	
9 3,5-Dinitroaniline						
1	31.874	31.889	-0.015	468	5.68	
19 RDX						
1	32.451	32.489	-0.038	298	6.08	
23 2,4-Dinitrotoluene						
1	33.711	33.726	-0.015	448	5.07	
12 2,6-Dinitrotoluene						
1	34.721	34.739	-0.018	275	5.13	
6 2-Amino-4,6-dinitrotoluene						
1	36.767	36.802	-0.035	349	4.69	
26 4-Amino-2,6-dinitrotoluene						
1	37.384	37.376	0.008	353	5.02	
$ 30 3,4-Dinitrotoluene						
1	39.014	38.999	0.015	280	5.24	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.221	41.196	0.025	432	4.91	
11 HMX						
1	42.604	42.609	-0.005	328	5.02	
7 Nitroglycerin						
2	45.137	45.139	-0.002	244	2.67	
20 Tetryl						
1	46.727	46.719	0.008	578	4.86	
21 PETN						
2	53.067	53.082	-0.015	744	5.07	

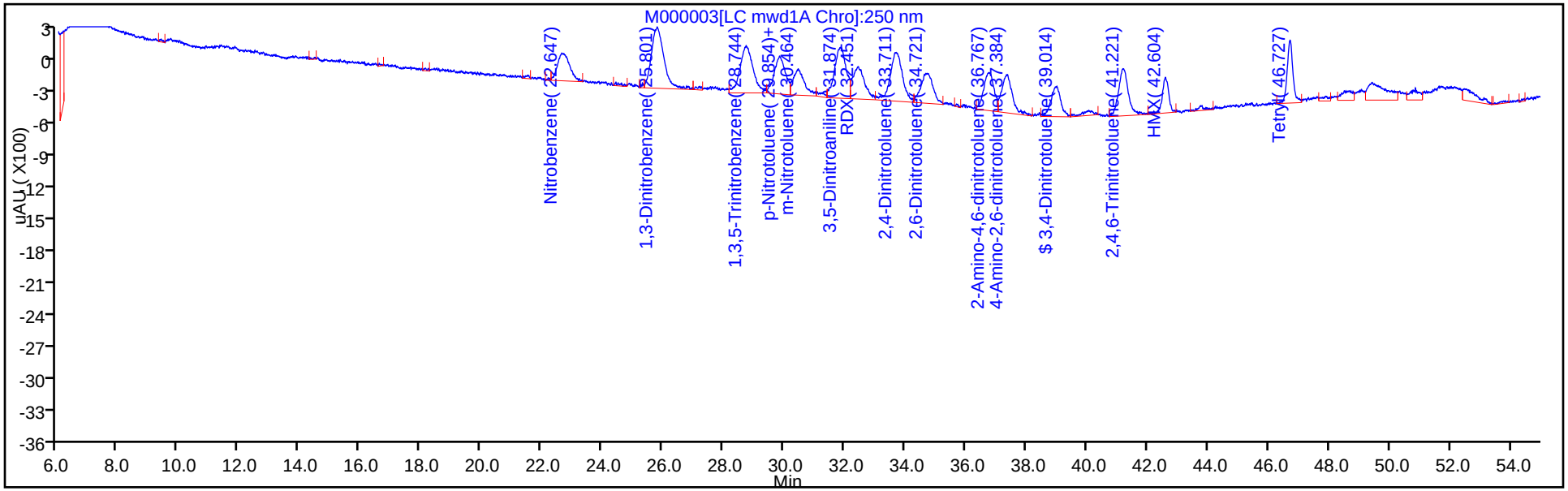
Report Date: 14-Feb-2013 07:52:14 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

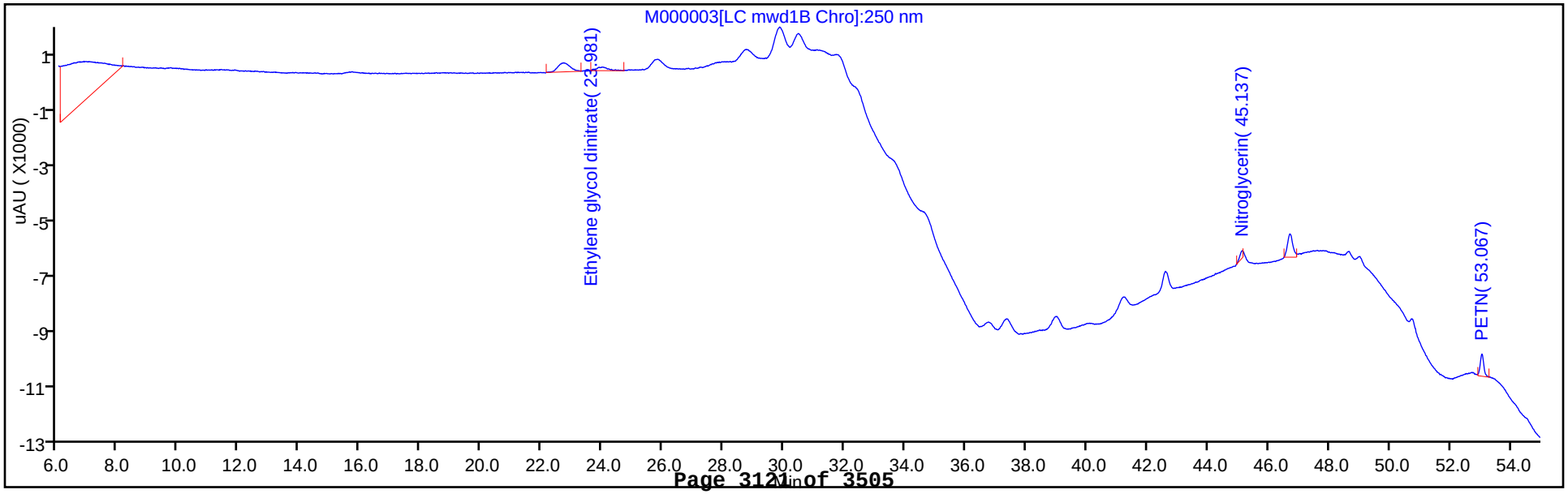
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000003.D

Injection Date:	13-Feb-2013 17:16:36	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000004.D		
Lims ID:	STD02	Client ID:	
Inject. Date:	13-Feb-2013 18:22:04	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	320-0002792-003		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	12
Lims Batch ID:	10422	Lims Sample ID:	3
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:14	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:42:54

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.792	22.719	0.073	518	10.7	
3 Ethylene glycol dinitrate						
2	24.042	23.972	0.070	246	11.2	
24 1,3-Dinitrobenzene						
1	25.899	25.819	0.080	1116	10.5	
27 1,3,5-Trinitrobenzene						
1	28.849	28.749	0.100	863	10.5	
16 o-Nitrotoluene						
1	29.992	29.882	0.110	666	10.5	
15 p-Nitrotoluene						
1	29.992	29.882	0.110	666	10.5	
8 m-Nitrotoluene						
1	30.599	30.496	0.103	451	10.6	
9 3,5-Dinitroaniline						
1	32.025	31.889	0.136	892	10.8	
19 RDX						
1	32.639	32.489	0.150	540	11.0	
23 2,4-Dinitrotoluene						
1	33.875	33.726	0.149	918	10.4	
12 2,6-Dinitrotoluene						
1	34.859	34.739	0.120	566	10.6	
6 2-Amino-4,6-dinitrotoluene						
1	36.972	36.802	0.170	782	10.5	
26 4-Amino-2,6-dinitrotoluene						
1	37.515	37.376	0.139	722	10.3	
$ 30 3,4-Dinitrotoluene						
1	39.169	38.999	0.170	559	10.5	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.309	41.196	0.113	903	10.3	
11 HMX						
1	42.739	42.609	0.130	667	10.2	
7 Nitroglycerin						
2	45.239	45.139	0.100	540	5.90	
20 Tetryl						
1	46.829	46.719	0.110	1157	9.73	
21 PETN						
2	53.155	53.082	0.073	1475	10.1	

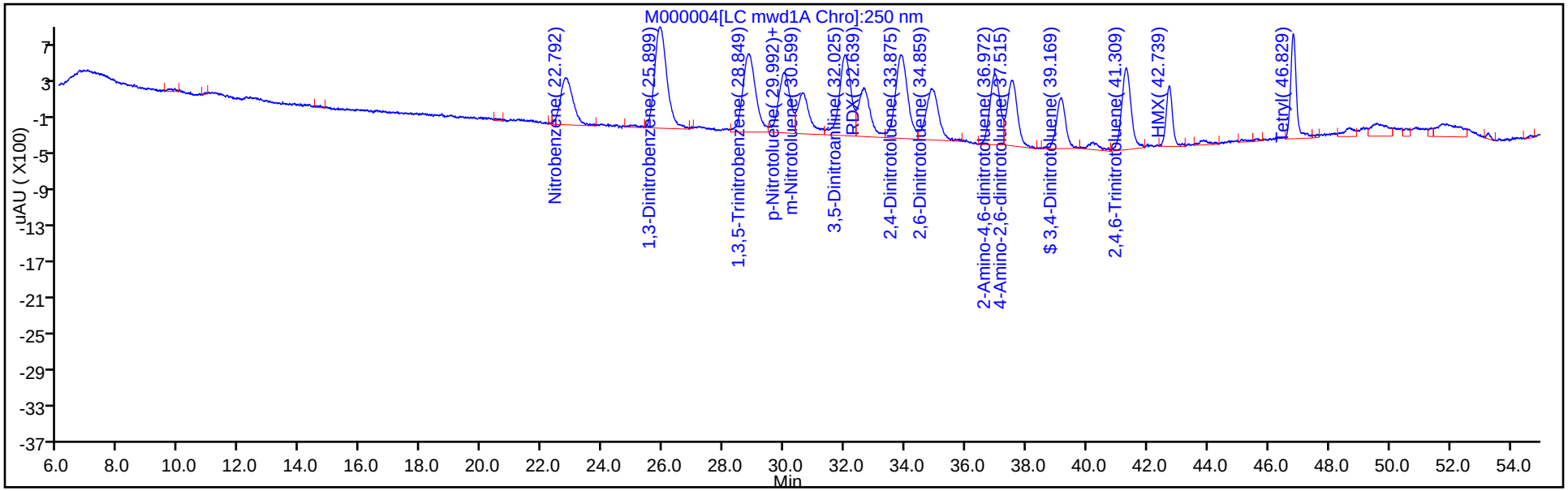
Report Date: 14-Feb-2013 07:52:15 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

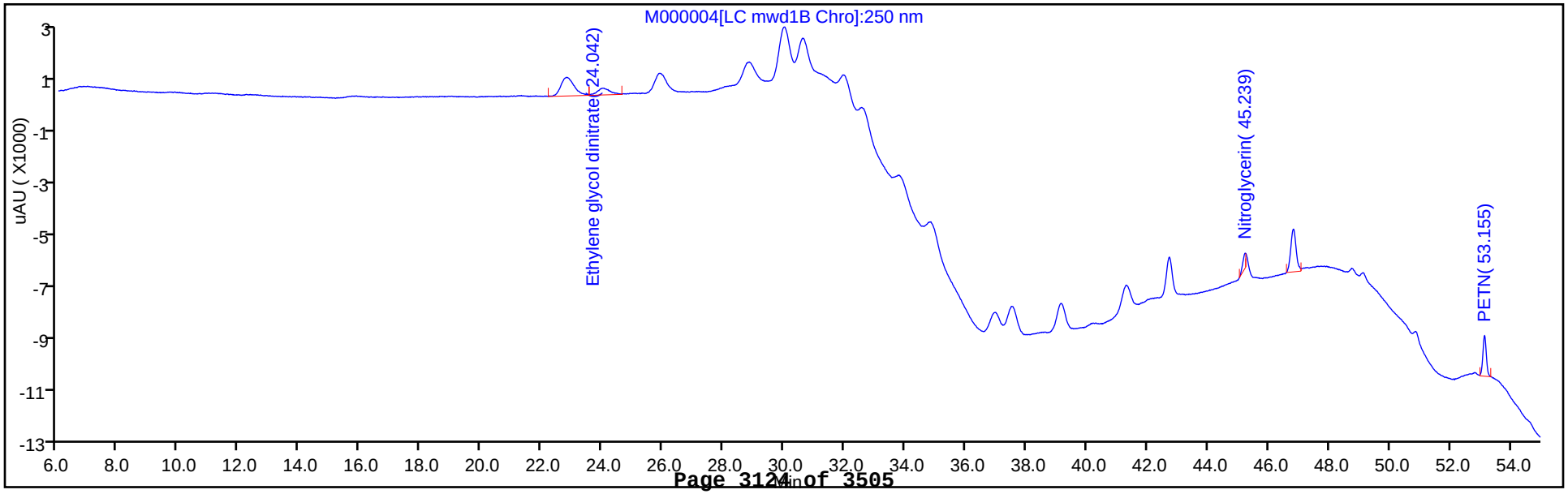
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000004.D

Injection Date:	13-Feb-2013 18:22:04	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000005.D		
Lims ID:	STD03	Client ID:	
Inject. Date:	13-Feb-2013 19:27:28	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	320-0002792-004		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	13
Lims Batch ID:	10422	Lims Sample ID:	4
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:15	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:42:59

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.724	22.719	0.005	992	20.5	
3 Ethylene glycol dinitrate						
2	23.951	23.972	-0.021	480	21.9	
24 1,3-Dinitrobenzene						
1	25.831	25.819	0.012	2176	20.5	
27 1,3,5-Trinitrobenzene						
1	28.761	28.749	0.012	1675	20.4	
16 o-Nitrotoluene						
1	29.921	29.882	0.039	1304	20.5	
15 p-Nitrotoluene						
1	29.921	29.882	0.039	1304	20.5	
8 m-Nitrotoluene						
1	30.514	30.496	0.018	881	20.8	
9 3,5-Dinitroaniline						
1	31.918	31.889	0.029	1710	20.8	
19 RDX						
1	32.521	32.489	0.032	1028	21.0	
23 2,4-Dinitrotoluene						
1	33.758	33.726	0.032	1819	20.6	
12 2,6-Dinitrotoluene						
1	34.768	34.739	0.029	1108	20.7	
6 2-Amino-4,6-dinitrotoluene						
1	36.844	36.802	0.042	1515	20.4	
26 4-Amino-2,6-dinitrotoluene						
1	37.418	37.376	0.042	1415	20.1	
$ 30 3,4-Dinitrotoluene						
1	39.041	38.999	0.042	1062	19.9	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.224	41.196	0.028	1705	19.4	
11 HMX						
1	42.648	42.609	0.039	1341	20.5	
7 Nitroglycerin						
2	45.151	45.139	0.012	1833	20.0	
20 Tetryl						
1	46.744	46.719	0.025	2265	19.0	
21 PETN						
2	53.101	53.082	0.019	2927	19.9	

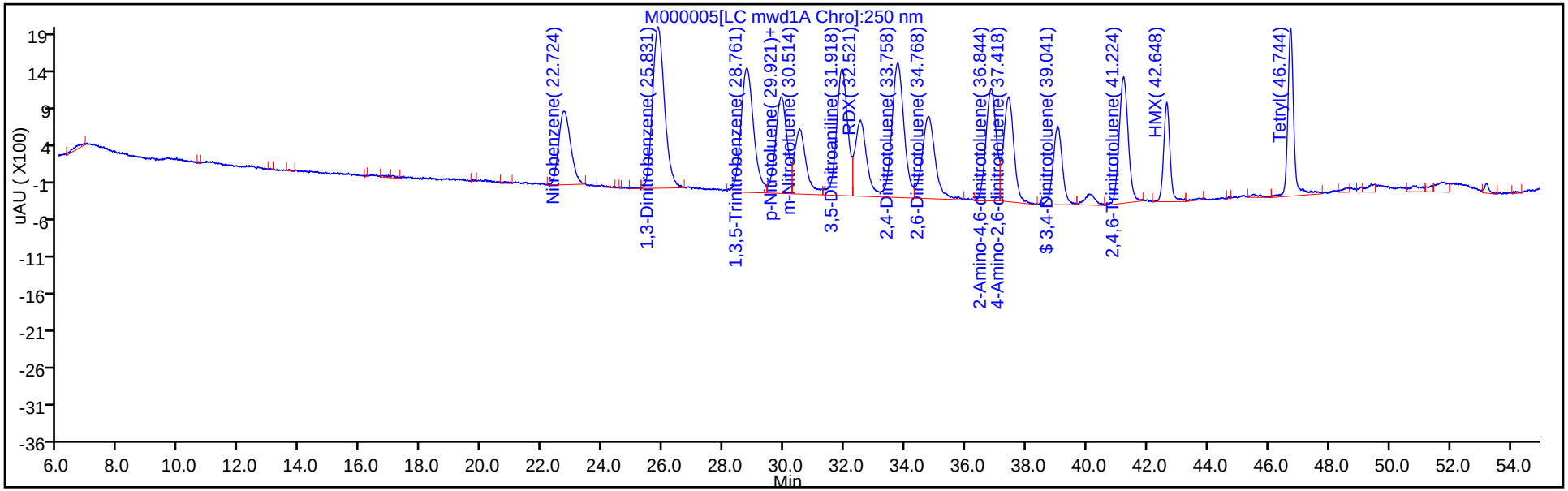
Report Date: 14-Feb-2013 07:52:16 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

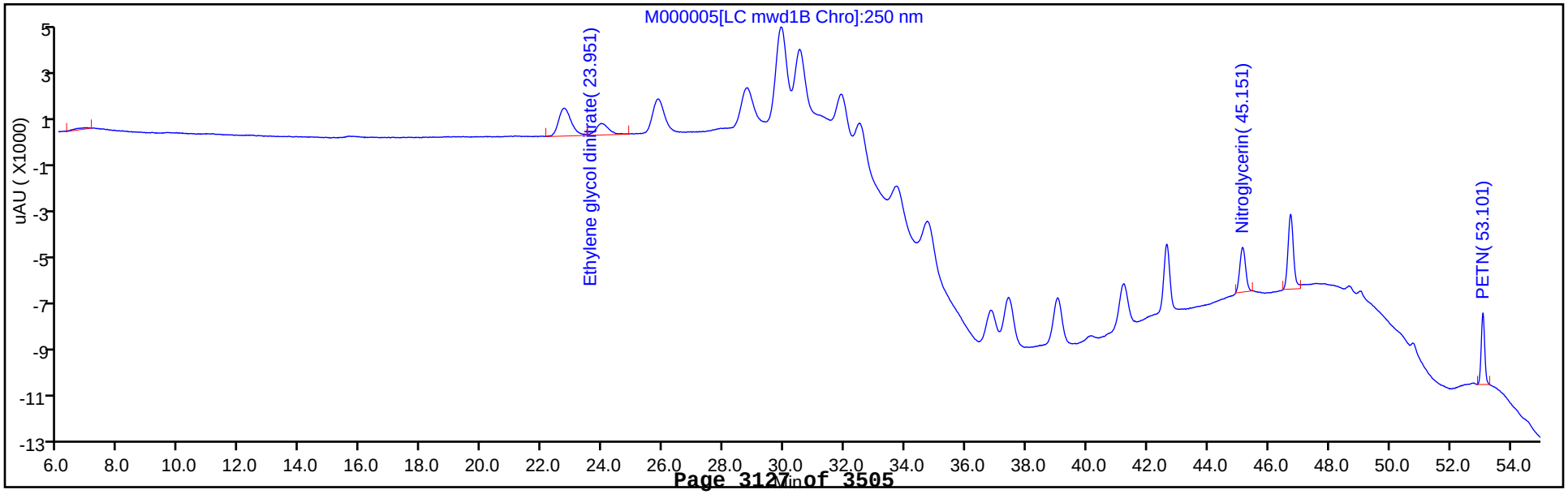
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000005.D

Injection Date:	13-Feb-2013 19:27:28	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000006.D		
Lims ID:	STD04	Client ID:	
Inject. Date:	13-Feb-2013 20:32:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	320-0002792-005		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	14
Lims Batch ID:	10422	Lims Sample ID:	5
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:16	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:45:51

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.701	22.719	-0.018	2489	51.5	
3 Ethylene glycol dinitrate						
2	23.961	23.972	-0.011	1148	52.5	
24 1,3-Dinitrobenzene						
1	25.814	25.819	-0.005	5347	50.4	
27 1,3,5-Trinitrobenzene						
1	28.751	28.749	0.002	4056	49.4	
16 o-Nitrotoluene						
1	29.887	29.882	0.005	3091	48.7	
15 p-Nitrotoluene						
1	29.887	29.882	0.005	3091	48.7	
8 m-Nitrotoluene						
1	30.491	30.496	-0.005	2039	48.1	
9 3,5-Dinitroaniline						
1	31.881	31.889	-0.008	4037	49.0	
19 RDX						
1	32.497	32.489	0.008	2377	48.5	
23 2,4-Dinitrotoluene						
1	33.734	33.726	0.008	4401	49.8	
12 2,6-Dinitrotoluene						
1	34.741	34.739	0.002	2671	49.8	
6 2-Amino-4,6-dinitrotoluene						
1	36.807	36.802	0.005	3783	50.8	
26 4-Amino-2,6-dinitrotoluene						
1	37.394	37.376	0.018	3519	50.0	
$ 30 3,4-Dinitrotoluene						
1	39.004	38.999	0.005	2670	50.0	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.207	41.196	0.011	4212	47.9	
11 HMX						
1	42.614	42.609	0.005	3253	49.8	
7 Nitroglycerin						
2	45.127	45.139	-0.012	4705	51.4	
20 Tetryl						
1	46.711	46.719	-0.008	5606	47.1	
21 PETN						
2	53.074	53.082	-0.008	7403	50.4	

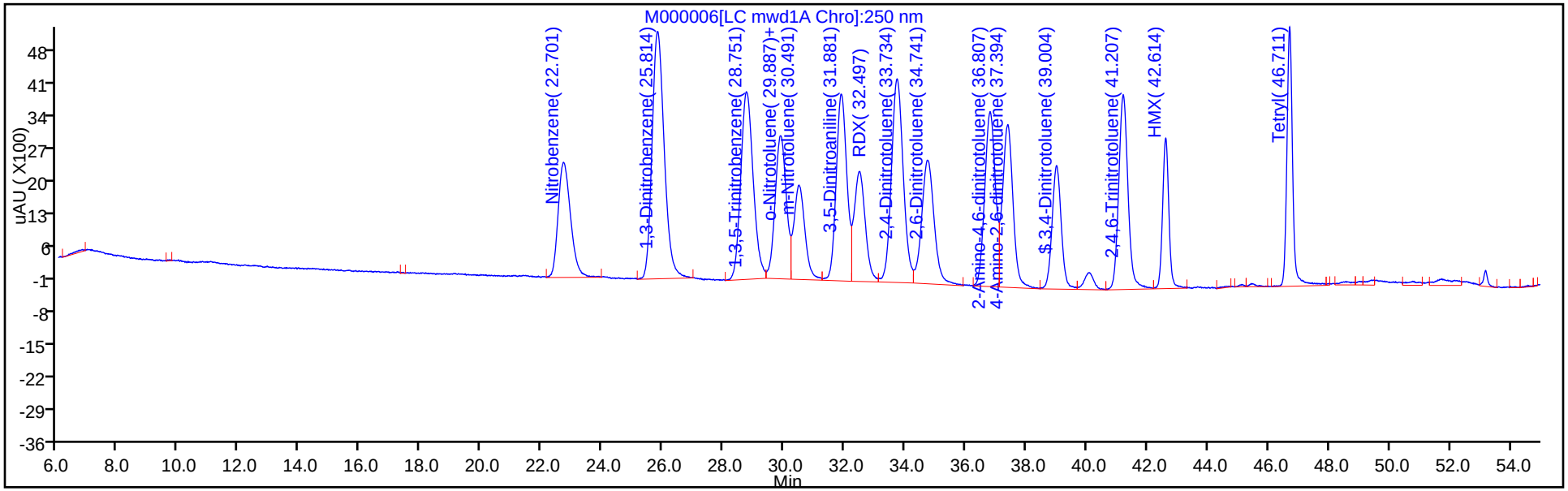
Report Date: 14-Feb-2013 07:52:16 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

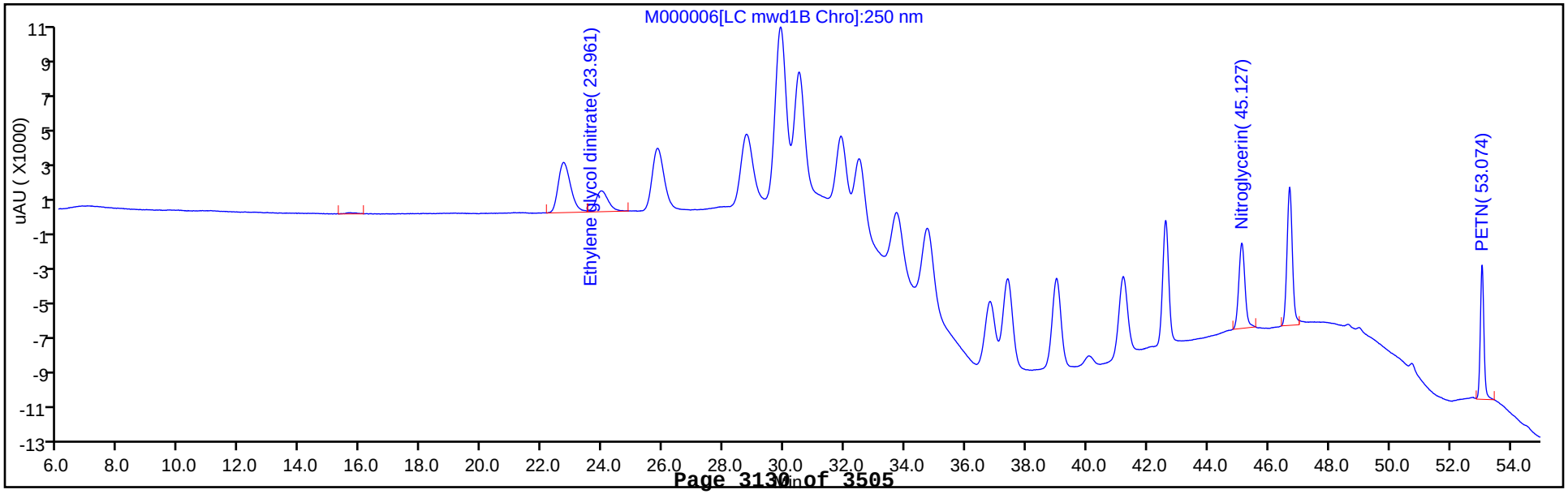
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000006.D

Injection Date:	13-Feb-2013 20:32:51	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	5
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000007.D		
Lims ID:	STD05	Client ID:	
Inject. Date:	13-Feb-2013 21:38:19	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	320-0002792-006		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	15
Lims Batch ID:	10422	Lims Sample ID:	6
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:17	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:47:34

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.719	22.719	0.0	5161	106.8	
3 Ethylene glycol dinitrate						
2	23.972	23.972	0.0	2230	101.9	
24 1,3-Dinitrobenzene						
1	25.819	25.819	0.0	11157	105.2	
27 1,3,5-Trinitrobenzene						
1	28.749	28.749	0.0	8375	102.0	
16 o-Nitrotoluene						
1	29.882	29.882	0.0	6645	104.7	
15 p-Nitrotoluene						
1	29.882	29.882	0.0	6645	104.7	
8 m-Nitrotoluene						
1	30.496	30.496	0.0	4330	102.2	
9 3,5-Dinitroaniline						
1	31.889	31.889	0.0	8409	102.1	
19 RDX						
1	32.489	32.489	0.0	4833	98.6	
23 2,4-Dinitrotoluene						
1	33.726	33.726	0.0	9253	104.7	
12 2,6-Dinitrotoluene						
1	34.739	34.739	0.0	5492	102.4	
6 2-Amino-4,6-dinitrotoluene						
1	36.802	36.802	0.0	7819	105.1	
26 4-Amino-2,6-dinitrotoluene						
1	37.376	37.376	0.0	7302	103.8	
$ 30 3,4-Dinitrotoluene						
1	38.999	38.999	0.0	5359	100.3	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.196	41.196	0.0	9660	109.9	
11 HMX						
1	42.609	42.609	0.0	6608	101.2	
7 Nitroglycerin						
2	45.139	45.139	0.0	8783	96.0	
20 Tetryl						
1	46.719	46.719	0.0	13504	113.5	
21 PETN						
2	53.082	53.082	0.0	14191	96.7	

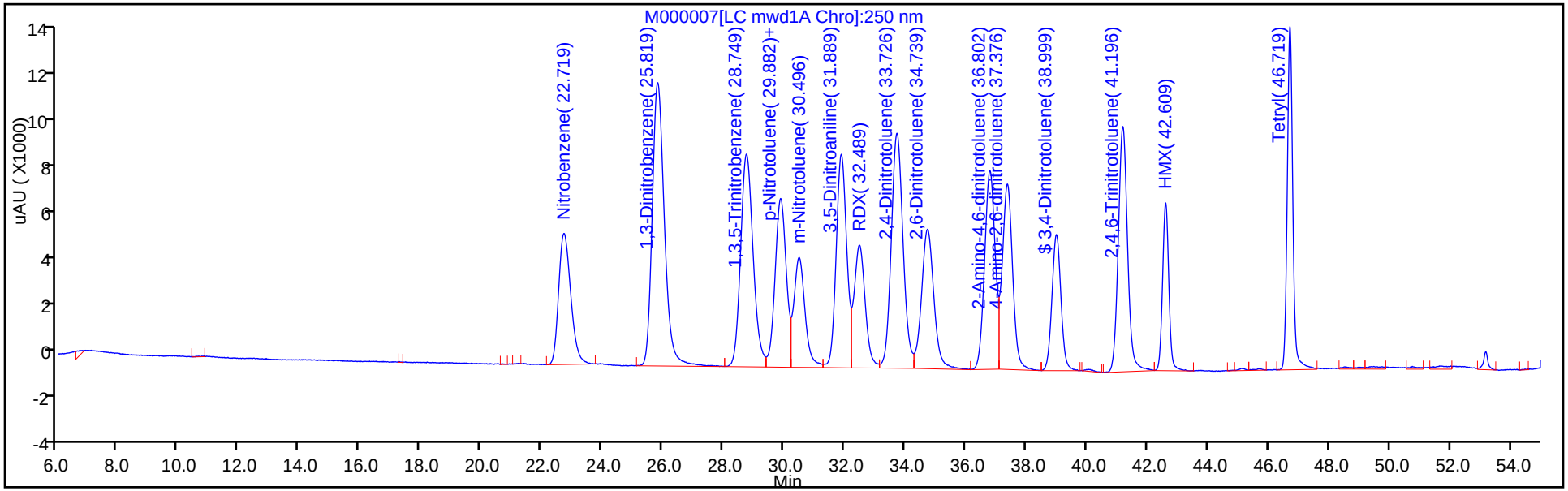
Report Date: 14-Feb-2013 07:52:17 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

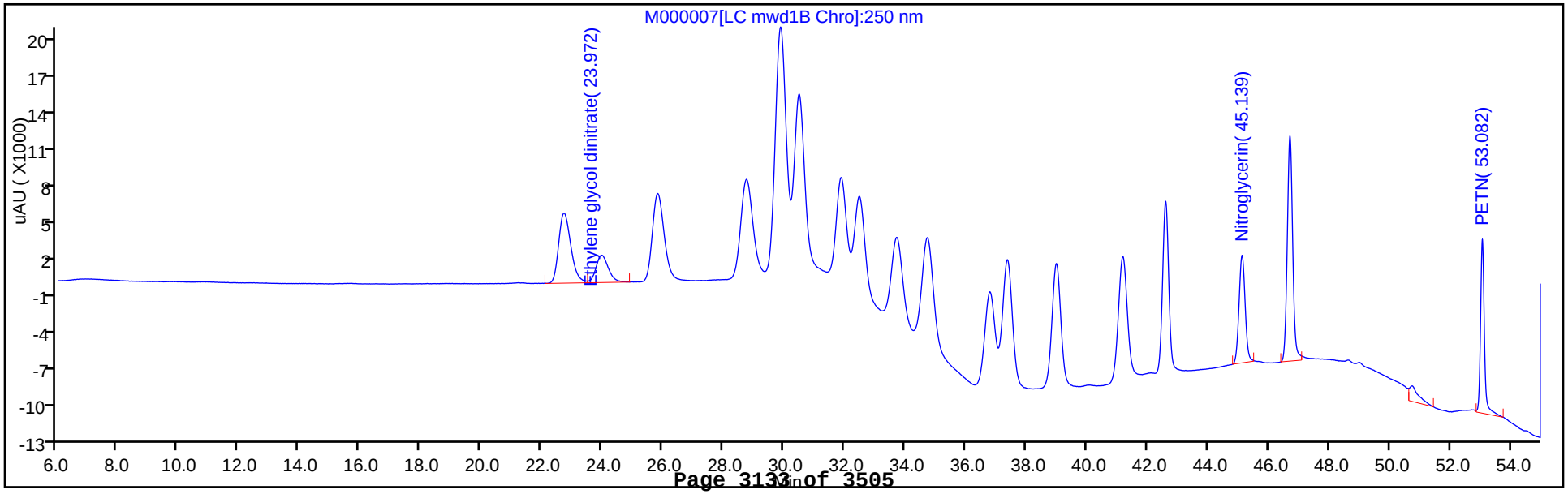
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000007.D

Injection Date:	13-Feb-2013 21:38:19	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	6
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000008.D		
Lims ID:	STD06	Client ID:	
Inject. Date:	13-Feb-2013 22:43:44	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	320-0002792-007		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	16
Lims Batch ID:	10422	Lims Sample ID:	7
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:18	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:47:55

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.685	22.719	-0.034	9912	205.0	
3 Ethylene glycol dinitrate						
2	23.939	23.972	-0.033	4427	202.4	
24 1,3-Dinitrobenzene						
1	25.792	25.819	-0.027	21471	202.4	
27 1,3,5-Trinitrobenzene						
1	28.735	28.749	-0.014	16292	198.3	
16 o-Nitrotoluene						
1	29.862	29.882	-0.020	12826	202.1	
15 p-Nitrotoluene						
1	29.862	29.882	-0.020	12826	202.1	
8 m-Nitrotoluene						
1	30.475	30.496	-0.021	8368	197.5	
9 3,5-Dinitroaniline						
1	31.872	31.889	-0.017	16226	197.1	
19 RDX						
1	32.469	32.489	-0.020	9311	189.9	
23 2,4-Dinitrotoluene						
1	33.715	33.726	-0.011	17992	203.7	
12 2,6-Dinitrotoluene						
1	34.725	34.739	-0.014	10711	199.7	
6 2-Amino-4,6-dinitrotoluene						
1	36.782	36.802	-0.020	15349	206.3	
26 4-Amino-2,6-dinitrotoluene						
1	37.362	37.376	-0.014	14412	205.0	
$ 30 3,4-Dinitrotoluene						
1	38.979	38.999	-0.020	10634	199.1	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.189	41.196	-0.007	19037	216.5	
11 HMX						
1	42.595	42.609	-0.014	13055	199.9	
7 Nitroglycerin						
2	45.115	45.139	-0.024	17869	195.3	
20 Tetryl						
1	46.695	46.719	-0.024	26661	224.2	
21 PETN						
2	53.039	53.082	-0.043	28542	194.5	

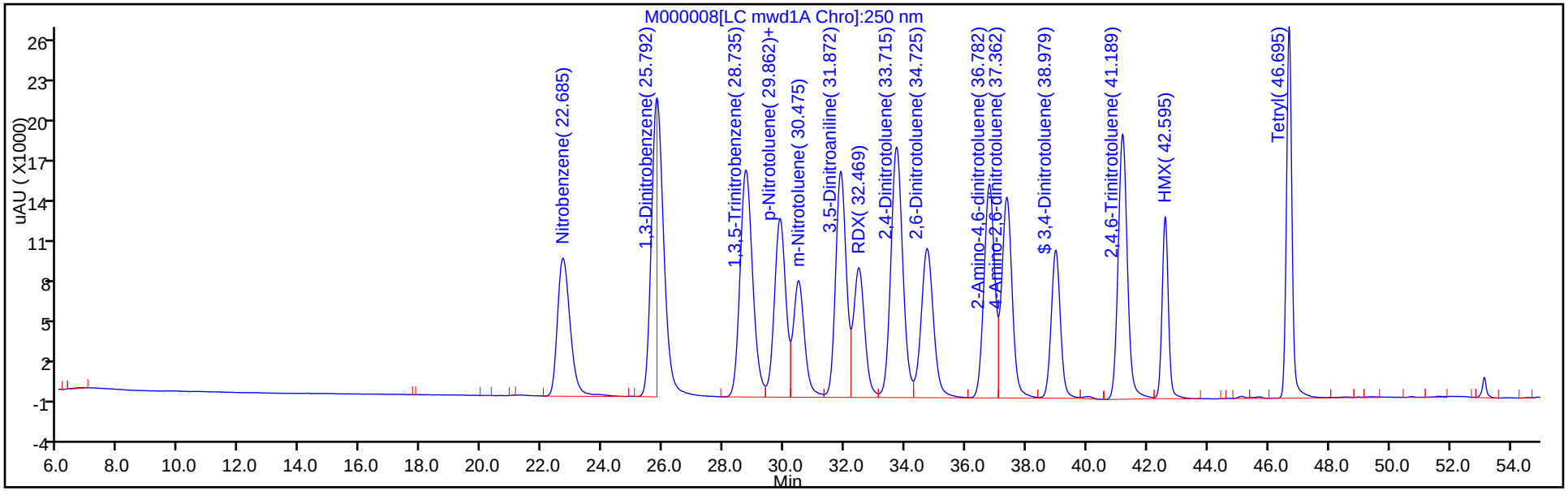
Report Date: 14-Feb-2013 07:52:18 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

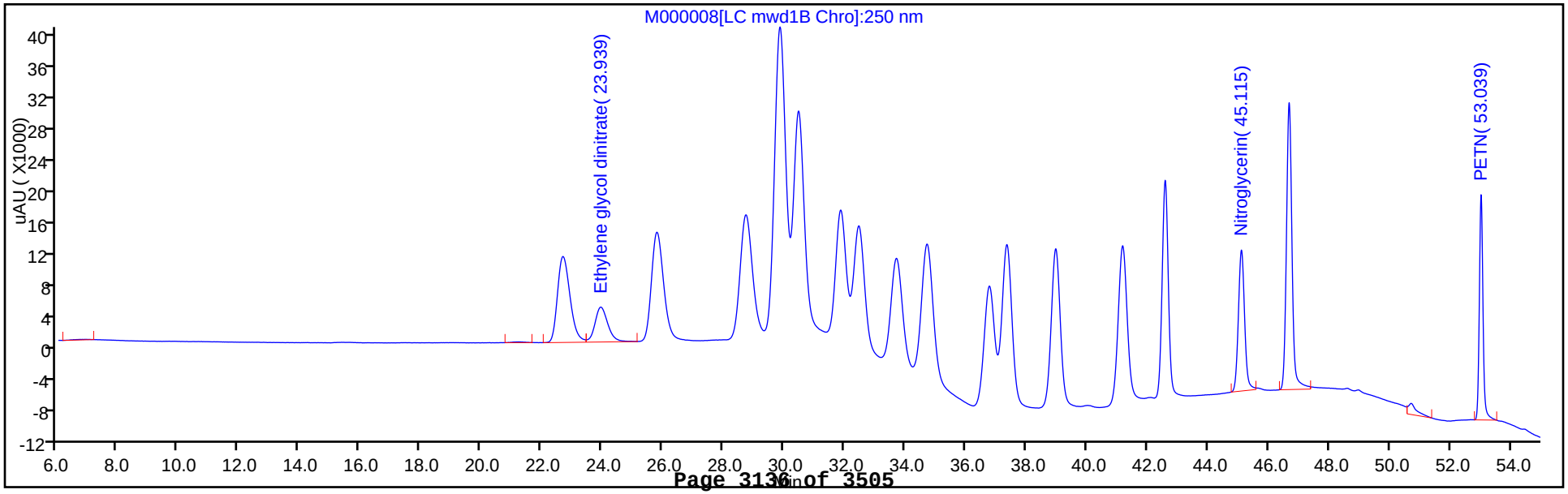
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000008.D

Injection Date:	13-Feb-2013 22:43:44	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	7
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000009.D		
Lims ID:	STD07	Client ID:	
Inject. Date:	13-Feb-2013 23:49:07	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	320-0002792-008		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	17
Lims Batch ID:	10422	Lims Sample ID:	8
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:19	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:47:59

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.683	22.719	-0.036	22709	469.8	
3 Ethylene glycol dinitrate						
2	23.960	23.972	-0.012	10702	489.2	
24 1,3-Dinitrobenzene						
1	25.813	25.819	-0.006	50955	480.4	
27 1,3,5-Trinitrobenzene						
1	28.773	28.749	0.024	40353	491.3	
16 o-Nitrotoluene						
1	29.913	29.882	0.031	30348	478.1	
15 p-Nitrotoluene						
1	29.913	29.882	0.031	30348	478.1	
8 m-Nitrotoluene						
1	30.523	30.496	0.027	20117	474.7	
9 3,5-Dinitroaniline						
1	31.940	31.889	0.051	38549	468.2	
19 RDX						
1	32.540	32.489	0.051	22554	459.9	
23 2,4-Dinitrotoluene						
1	33.780	33.726	0.054	43297	490.1	
12 2,6-Dinitrotoluene						
1	34.796	34.739	0.057	26403	492.3	
6 2-Amino-4,6-dinitrotoluene						
1	36.886	36.802	0.084	37876	509.1	
26 4-Amino-2,6-dinitrotoluene						
1	37.456	37.376	0.080	35468	504.4	
$ 30 3,4-Dinitrotoluene						
1	39.073	38.999	0.074	16183	303.0	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.263	41.196	0.067	42755	486.3	
11 HMX						
1	42.690	42.609	0.081	32894	503.7	
7 Nitroglycerin						
2	45.223	45.139	0.084	47163	515.5	
20 Tetryl						
1	46.816	46.719	0.097	57496	483.4	
21 PETN						
2	53.166	53.082	0.084	75949	517.5	

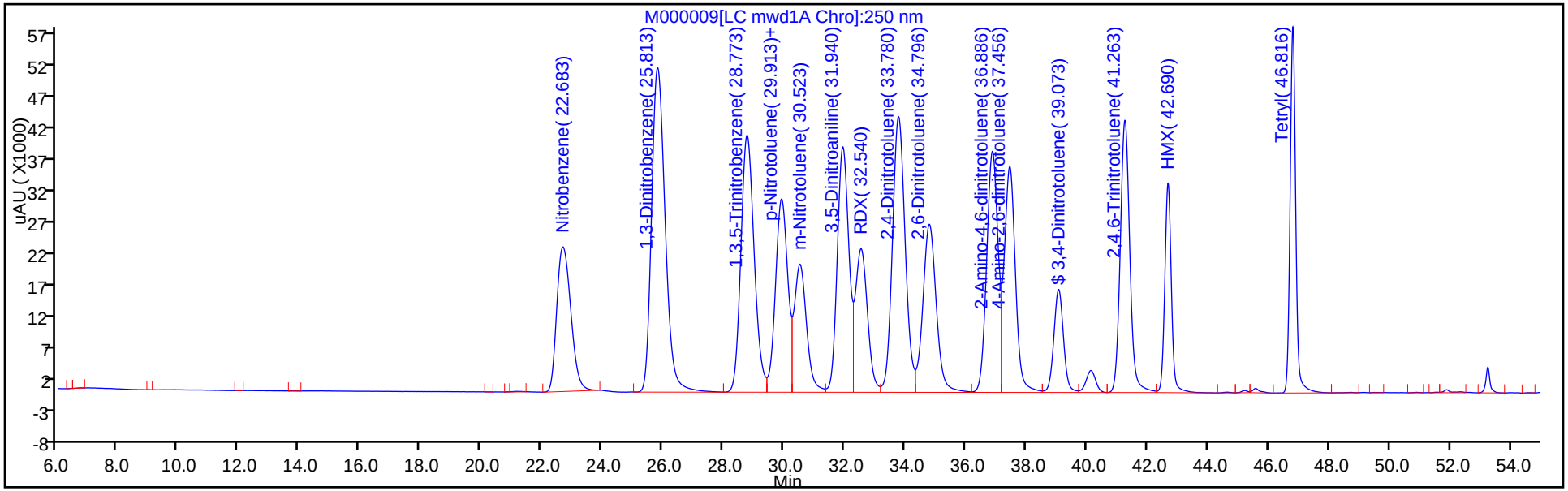
Report Date: 14-Feb-2013 07:52:19 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

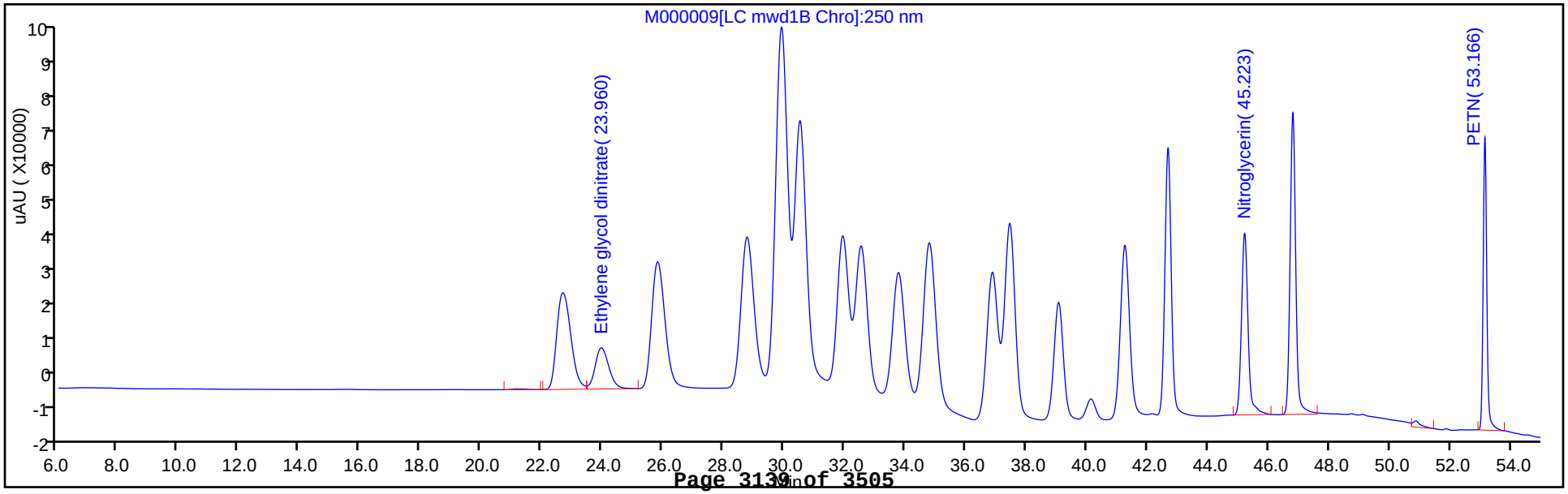
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000009.D

Injection Date:	13-Feb-2013 23:49:07	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	8
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Lims ID:	STD08	Client ID:	
Inject. Date:	14-Feb-2013 00:54:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	320-0002792-009		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	18
Lims Batch ID:	10422	Lims Sample ID:	9
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m		
Last Update:	14-Feb-2013 07:52:20	Calib Date:	14-Feb-2013 00:54:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 14-Feb-2013 07:50:54

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.568	22.719	-0.151	37954	785.1	
3 Ethylene glycol dinitrate						
2	23.865	23.972	-0.107	18459	843.8	
24 1,3-Dinitrobenzene						
1	25.688	25.819	-0.131	87481	824.8	
27 1,3,5-Trinitrobenzene						
1	28.668	28.749	-0.081	72832	886.7	
16 o-Nitrotoluene						
1	29.735	29.882	-0.147	53073	836.2	
15 p-Nitrotoluene						
1	29.735	29.882	-0.147	53073	836.2	
8 m-Nitrotoluene						
1	30.328	30.496	-0.168	35115	828.6	
9 3,5-Dinitroaniline						
1	31.755	31.889	-0.134	67286	817.3	
19 RDX						
1	32.298	32.489	-0.191	39765	810.9	
23 2,4-Dinitrotoluene						
1	33.595	33.726	-0.131	77286	874.8	
12 2,6-Dinitrotoluene						
1	34.605	34.739	-0.134	47331	882.6	
6 2-Amino-4,6-dinitrotoluene						
1	36.671	36.802	-0.131	65117	875.2	
26 4-Amino-2,6-dinitrotoluene						
1	37.255	37.376	-0.121	62561	889.7	
$ 30 3,4-Dinitrotoluene						
1	38.891	38.999	-0.108	24117	451.5	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.145	41.196	-0.051	79866	908.4	
11 HMX						
1	42.541	42.609	-0.068	60901	932.5	
7 Nitroglycerin						
2	45.088	45.139	-0.051	91734	1002.6	
20 Tetryl						
1	46.668	46.719	-0.051	111495	937.4	
21 PETN						
2	53.048	53.082	-0.034	149638	1019.6	

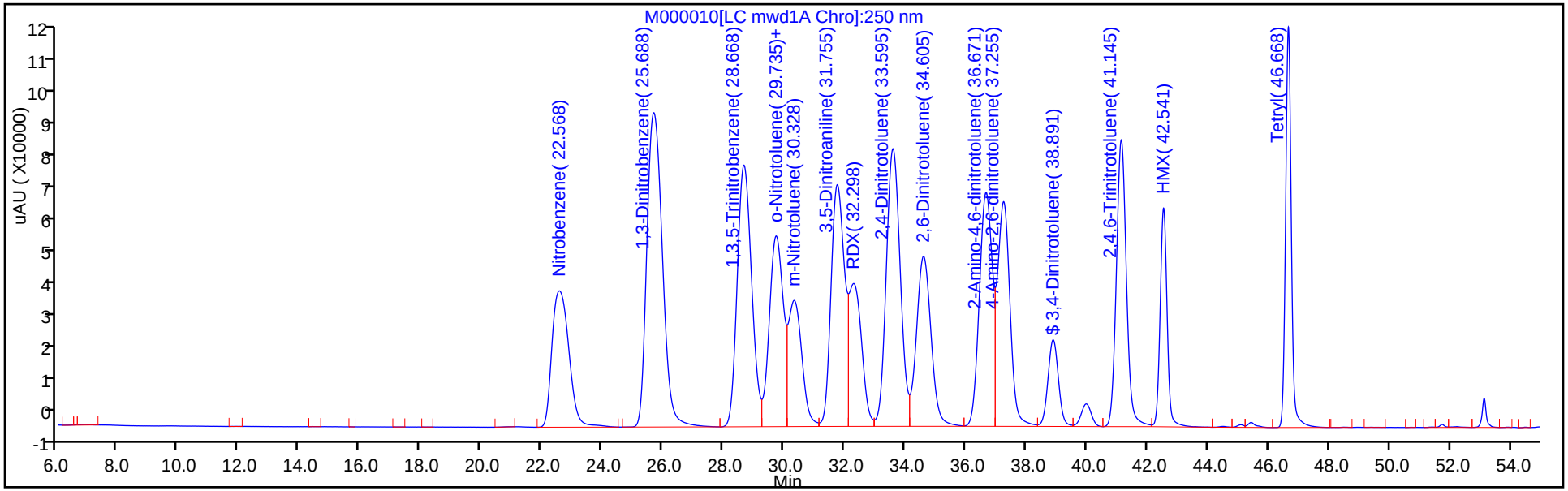
Report Date: 14-Feb-2013 07:52:20 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

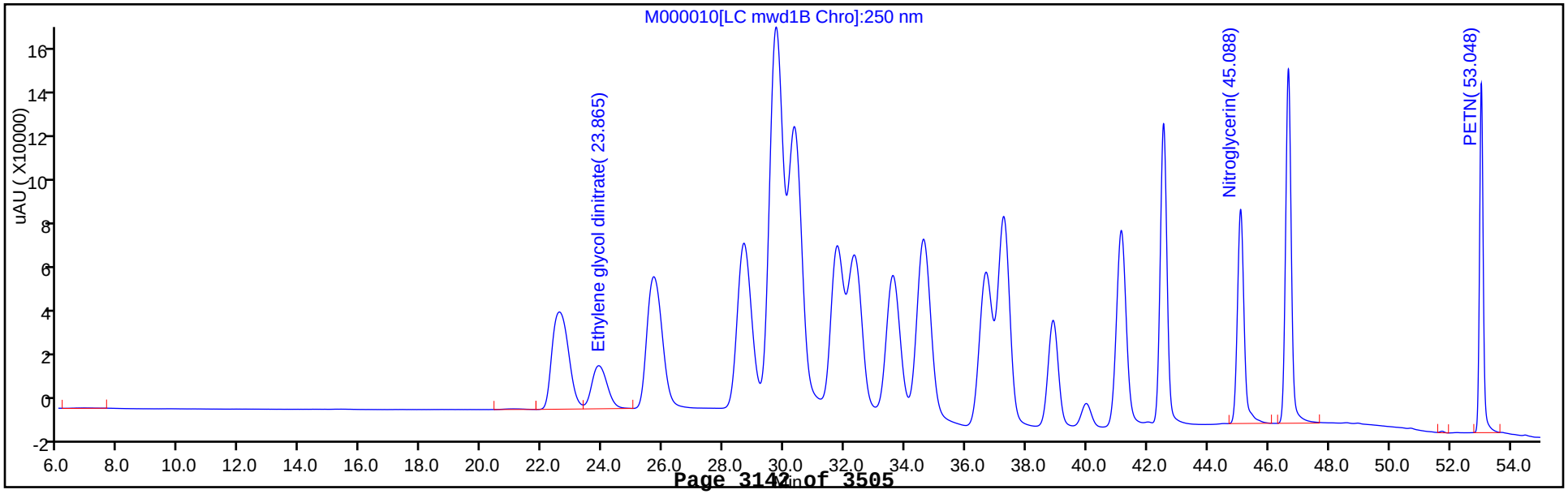
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D

Injection Date:	14-Feb-2013 00:54:32	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	9
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 320-14686/11 Calibration Date: 04/19/2013 17:18

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000012.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	125.5	127.8		510	500	1.9	20.0
RDX	Ave	90.99	86.18		474	500	-5.3	20.0
Ethylene glycol dinitrate	Ave	110.5	110.3		499	500	-0.2	20.0
Picric acid	Ave	132.3	118.8		898	1000	-10.2	20.0
1,3,5-Trinitrobenzene	Ave	163.5	160.0		489	500	-2.2	20.0
1,3-Dinitrobenzene	Ave	162.2	156.0		481	500	-3.8	20.0
3,5-Dinitroaniline	Ave	103.6	106.1		512	500	2.4	20.0
Tetryl	Ave	94.63	101.1		534	500	6.9	20.0
Nitrobenzene	Ave	71.37	71.57		501	500	0.3	20.0
Nitroglycerin	Ave	70.31	72.89		518	500	3.7	20.0
2,4,6-Trinitrotoluene	Ave	95.40	97.48		511	500	2.2	20.0
4-Amino-2,6-dinitrotoluene	Ave	78.37	74.63		476	500	-4.8	20.0
2-Amino-4,6-dinitrotoluene	Ave	84.03	82.50		491	500	-1.8	20.0
2,6-Dinitrotoluene	Ave	59.83	59.43		497	500	-0.7	20.0
2,4-Dinitrotoluene	Ave	98.79	96.58		489	500	-2.2	20.0
2-Nitrotoluene	Ave	42.45	41.54		489	500	-2.1	20.0
4-Nitrotoluene	Ave	53.10	50.53		476	500	-4.8	20.0
3-Nitrotoluene	Ave	52.01	50.02		481	500	-3.8	20.0
PETN	Ave	39.35	39.63		504	500	0.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 320-14686/11 Calibration Date: 04/19/2013 17:18

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000012.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.41	7.15	7.65
Ethylene glycol dinitrate	8.08	7.81	8.31
Picric acid	8.42	8.22	8.72
1,3,5-Trinitrobenzene	9.66	9.39	9.89
1,3-Dinitrobenzene	12.24	11.96	12.46
3,5-Dinitroaniline	12.98	12.69	13.19
Tetryl	13.27	12.97	13.47
Nitrobenzene	13.93	13.63	14.13
Nitroglycerin	14.47	14.17	14.67
2,4,6-Trinitrotoluene	15.34	15.04	15.54
4-Amino-2,6-dinitrotoluene	15.90	15.59	16.09
2-Amino-4,6-dinitrotoluene	16.87	16.55	17.05
2,6-Dinitrotoluene	18.38	18.06	18.56
2,4-Dinitrotoluene	19.02	18.70	19.20
2-Nitrotoluene	22.24	21.90	22.40
4-Nitrotoluene	23.87	23.52	24.02
3-Nitrotoluene	25.68	25.31	25.81
PETN	27.61	27.24	27.74

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000012.D
Lims ID: ICV Client ID:
Inject. Date: 19-Apr-2013 17:18:19 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 320-0003998-011
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 20
Lims Batch ID: 14686 Lims Sample ID: 11
Sublist:

Method: \\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m
Last Update: 23-Apr-2013 12:51:40 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK035

First Level Reviewer: shafern Date: 22-Apr-2013 09:40:12

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.178	5.177	0.001	63923	509.5	
19 RDX						
1	7.411	7.397	0.014	43089	473.5	
3 Ethylene glycol dinitrate						
2	8.078	8.061	0.017	55155	499.1	
10 2,4,6-Trinitrophenol						
2	8.424	8.471	-0.047	118777	898.1	
1	8.424	8.471	-0.047	81268	882.1	
27 1,3,5-Trinitrobenzene						
1	9.661	9.644	0.017	79976	489.0	
24 1,3-Dinitrobenzene						
1	12.241	12.211	0.030	78004	480.8	
9 3,5-Dinitroaniline						
1	12.978	12.941	0.037	53040	511.8	
20 Tetryl						
1	13.265	13.221	0.044	50558	534.3	
5 Nitrobenzene						
1	13.928	13.884	0.044	35787	501.4	
7 Nitroglycerin						
2	14.468	14.418	0.050	36447	518.4	
25 2,4,6-Trinitrotoluene						
1	15.338	15.291	0.047	48742	510.9	
26 4-Amino-2,6-dinitrotoluene						
1	15.895	15.838	0.057	37317	476.2	
6 2-Amino-4,6-dinitrotoluene						
1	16.865	16.801	0.064	41248	490.9	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
12 2,6-Dinitrotoluene						
1	18.375	18.308	0.067	29716	496.6	
23 2,4-Dinitrotoluene						
1	19.018	18.948	0.070	48292	488.8	
16 o-Nitrotoluene						
1	22.241	22.151	0.090	20772	489.4	
15 p-Nitrotoluene						
1	23.868	23.768	0.100	25267	475.8	
8 m-Nitrotoluene						
1	25.678	25.564	0.114	25008	480.8	
21 PETN						
2	27.608	27.491	0.117	19815	503.6	

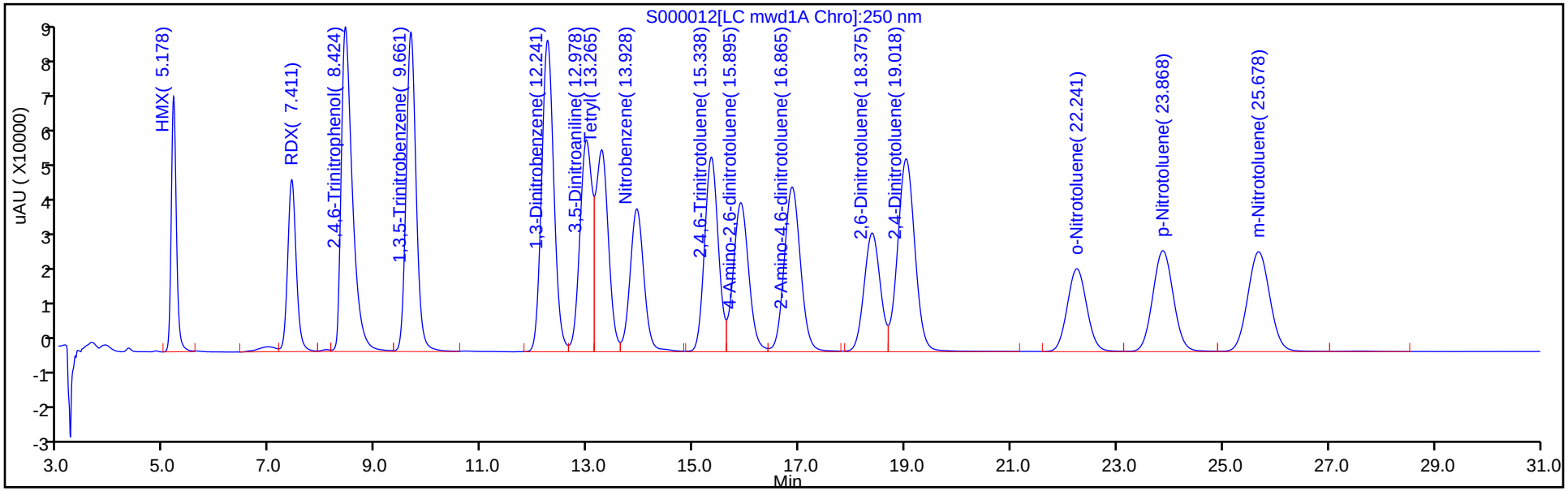
Report Date: 23-Apr-2013 12:51:44 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

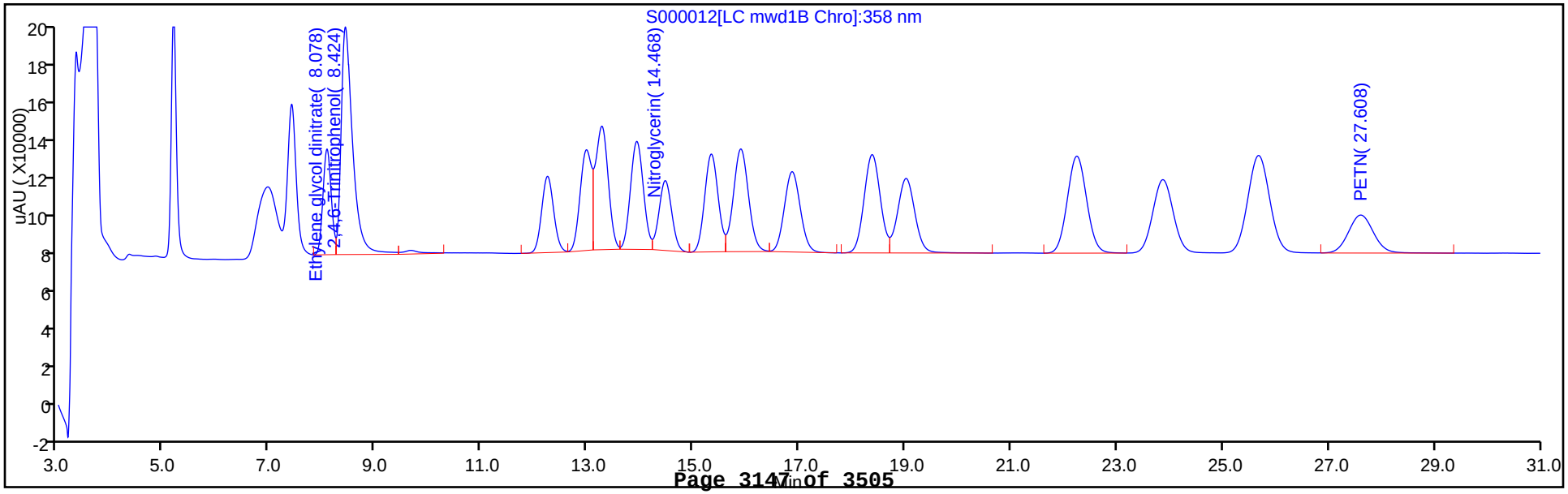
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000012.D

Injection Date:	19-Apr-2013 17:18:19	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: LODV 320-14686/12 Calibration Date: 04/19/2013 18:02

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	125.5	179.6		7.16	5.00	43.2	
RDX	Ave	90.99	149.8		8.23	5.00	64.6	
1,3,5-Trinitrobenzene	Ave	163.5	236.8		7.24	5.00	44.8	
1,3-Dinitrobenzene	Ave	162.2	235.2		7.25	5.00	45.0	
3,5-Dinitroaniline	Ave	103.6	152.4		7.35	5.00	47.1	
Tetryl	Ave	94.63	133.0		7.03	5.00	40.5	
Nitrobenzene	Ave	71.37	102.4		7.17	5.00	43.5	
Nitroglycerin	Ave	70.31	73.80		21.0	20.0	5.0	
2,4,6-Trinitrotoluene	Ave	95.40	135.6		7.11	5.00	42.1	
4-Amino-2,6-dinitrotoluene	Ave	78.37	115.4		7.36	5.00	47.3	
2-Amino-4,6-dinitrotoluene	Ave	84.03	121.0		7.20	5.00	44.0	
2,6-Dinitrotoluene	Ave	59.83	89.60		7.49	5.00	49.7	
2,4-Dinitrotoluene	Ave	98.79	144.4		7.31	5.00	46.2	
2-Nitrotoluene	Ave	42.45	60.60		7.14	5.00	42.8	
4-Nitrotoluene	Ave	53.10	76.20		7.18	5.00	43.5	
3-Nitrotoluene	Ave	52.01	77.80		7.48	5.00	49.6	
PETN	Ave	39.35	43.10		21.9	20.0	9.5	
3,4-Dinitrotoluene	Ave	57.22	56.50		19.7	20.0	-1.3	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: LODV 320-14686/12 Calibration Date: 04/19/2013 18:02

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.41	7.15	7.65
1,3,5-Trinitrobenzene	9.67	9.39	9.89
1,3-Dinitrobenzene	12.23	11.96	12.46
3,5-Dinitroaniline	12.98	12.69	13.19
Tetryl	13.26	12.97	13.47
Nitrobenzene	13.93	13.63	14.13
Nitroglycerin	14.45	14.17	14.67
2,4,6-Trinitrotoluene	15.32	15.04	15.54
4-Amino-2,6-dinitrotoluene	15.89	15.59	16.09
2-Amino-4,6-dinitrotoluene	16.84	16.55	17.05
2,6-Dinitrotoluene	18.36	18.06	18.56
2,4-Dinitrotoluene	19.03	18.70	19.20
2-Nitrotoluene	22.24	21.90	22.40
4-Nitrotoluene	23.88	23.52	24.02
3-Nitrotoluene	25.66	25.31	25.81
PETN	27.60	27.24	27.74
Ethylene glycol dinitrate			
Picric acid			
3,4-Dinitrotoluene	16.32	16.02	16.52

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000013.D		
Lims ID:	LODV 5-20ng/mL	Client ID:	
Inject. Date:	19-Apr-2013 18:02:05	Dil. Factor:	1.0000
Sample Type:	LODV		
Sample ID:	320-0003998-012		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	10
Lims Batch ID:	14686	Lims Sample ID:	12
Method:	\\SACChrom\ChromData\LC10\20130419-3998.b\8330_LC10.m		
Last Update:	23-Apr-2013 12:51:40	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK035		

First Level Reviewer: shafern Date: 22-Apr-2013 07:58:44

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.183	5.177	0.006	898	7.16	
19 RDX						
1	7.409	7.397	0.012	749	8.23	
27 1,3,5-Trinitrobenzene						
1	9.666	9.644	0.022	1184	7.24	
24 1,3-Dinitrobenzene						
1	12.233	12.211	0.022	1176	7.25	
9 3,5-Dinitroaniline						
1	12.976	12.941	0.035	762	7.35	
20 Tetryl						
1	13.256	13.221	0.035	665	7.03	
5 Nitrobenzene						M
1	13.926	13.884	0.042	512	7.17	M
7 Nitroglycerin						
2	14.449	14.418	0.031	1476	21.0	
25 2,4,6-Trinitrotoluene						
1	15.323	15.291	0.032	678	7.11	
26 4-Amino-2,6-dinitrotoluene						
1	15.893	15.838	0.055	577	7.36	
$ 30 3,4-Dinitrotoluene						
1	16.316	16.271	0.045	1130	19.7	
2	16.323	16.274	0.049	2131	19.9	
6 2-Amino-4,6-dinitrotoluene						
1	16.843	16.801	0.042	605	7.20	
12 2,6-Dinitrotoluene						
1	18.363	18.308	0.055	448	7.49	
23 2,4-Dinitrotoluene						
1	19.029	18.948	0.081	722	7.31	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
16 o-Nitrotoluene						M
1	22.243	22.151	0.092	303	7.14	M
15 p-Nitrotoluene						M
1	23.876	23.768	0.108	381	7.18	M
8 m-Nitrotoluene						
1	25.663	25.564	0.099	389	7.48	
21 PETN						
2	27.603	27.491	0.112	862	21.9	

QC Flag Legend

Review Flags
M - Manually Integrated

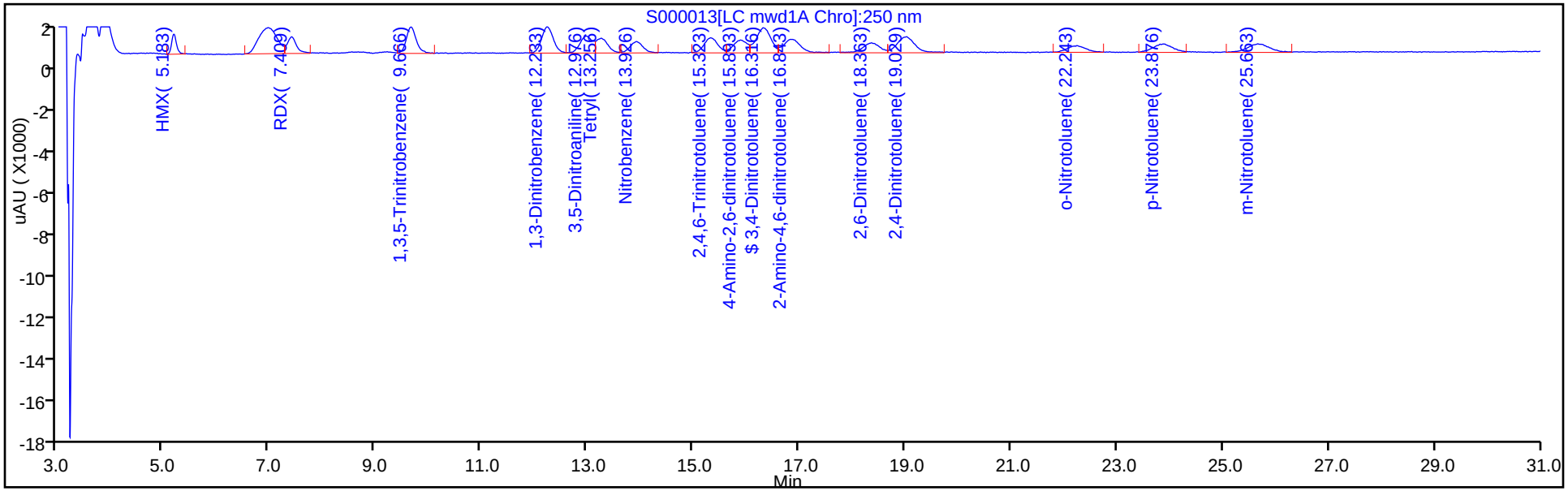
Report Date: 23-Apr-2013 12:51:46 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

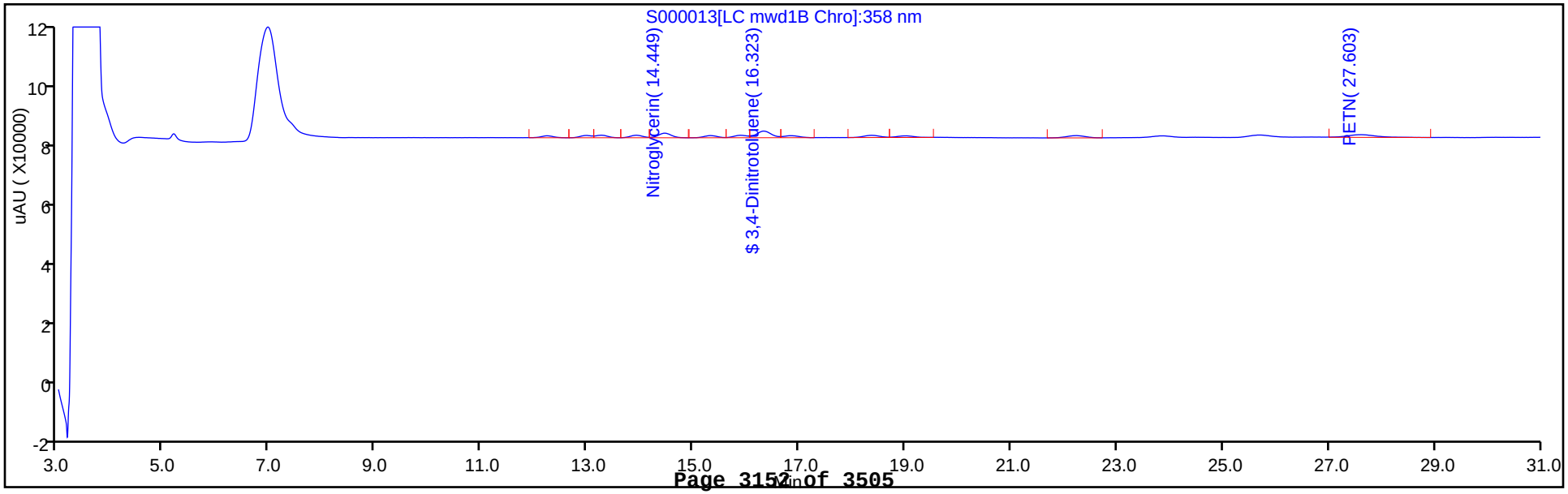
Data File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000013.D

Injection Date:	19-Apr-2013 18:02:05	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

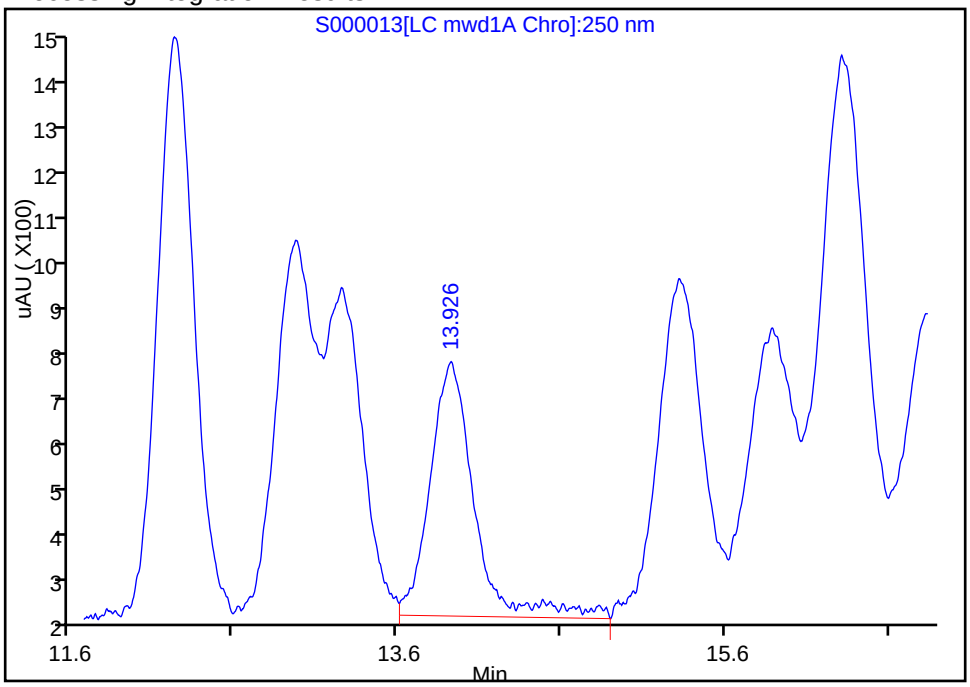
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000013.D		
Injection Date:	19-Apr-2013 18:02:05	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

5 Nitrobenzene, Signal: 1, Type: quant, RT: 13.88, Det: LC mwd1A

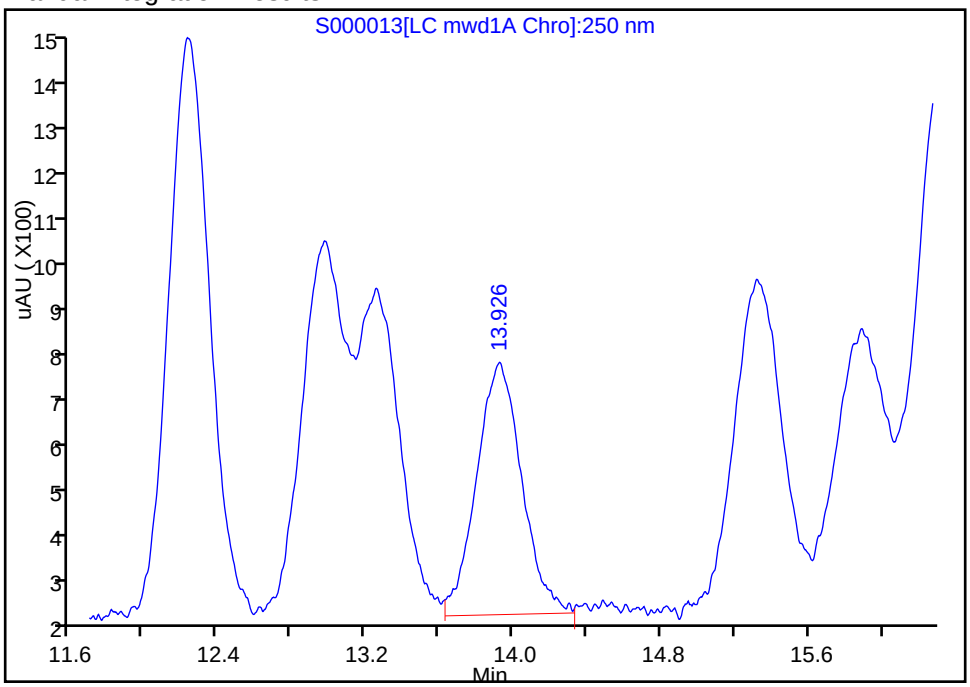
Processing Integration Results

RT: 13.93
Response: 516
Amount: 7.246537



Manual Integration Results

RT: 13.93
Response: 512
Amount: 7.173568



Reviewer: shafern, 22-Apr-2013 07:58:44
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

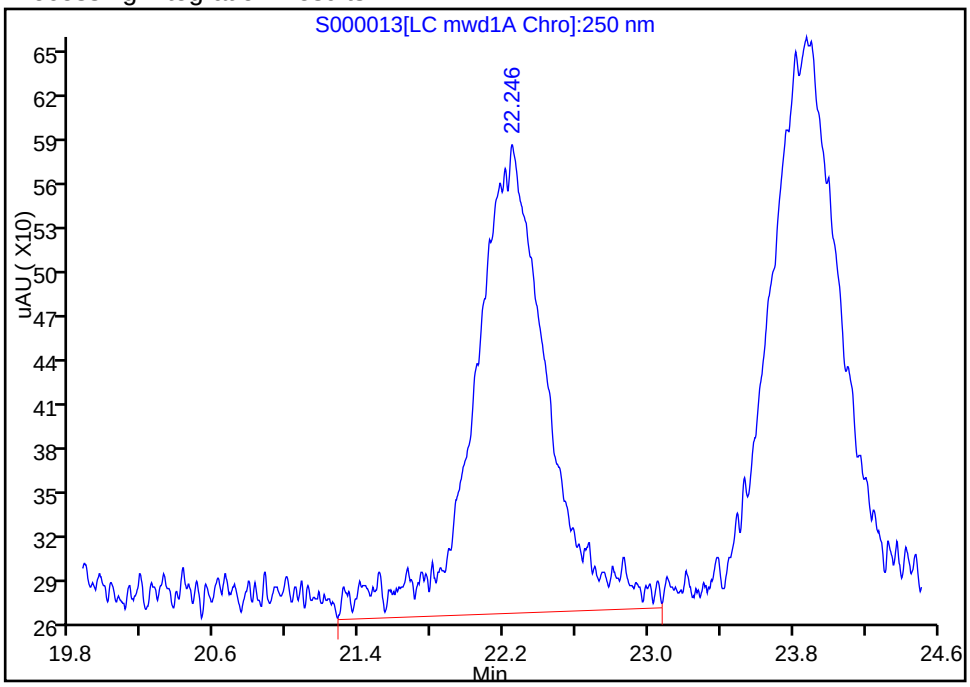
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000013.D		
Injection Date:	19-Apr-2013 18:02:05	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

16 o-Nitrotoluene, Signal: 1, Type: quant, RT: 22.15, Det: LC mwd1A

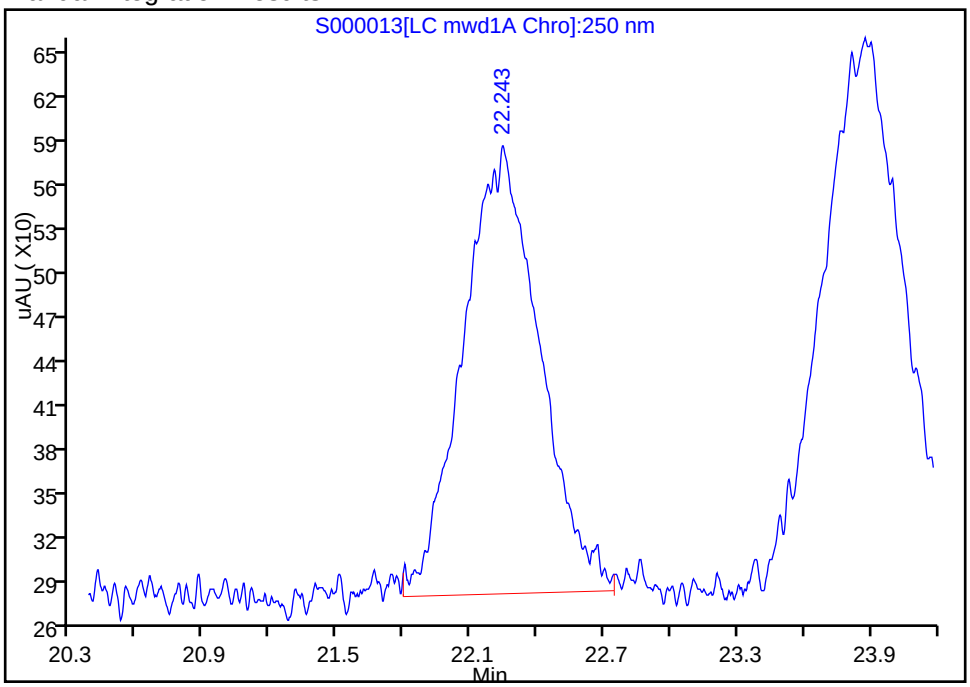
Processing Integration Results

RT: 22.25
Response: 317
Amount: 7.459250



Manual Integration Results

RT: 22.24
Response: 303
Amount: 7.138377



Reviewer: shafern, 22-Apr-2013 07:58:44
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

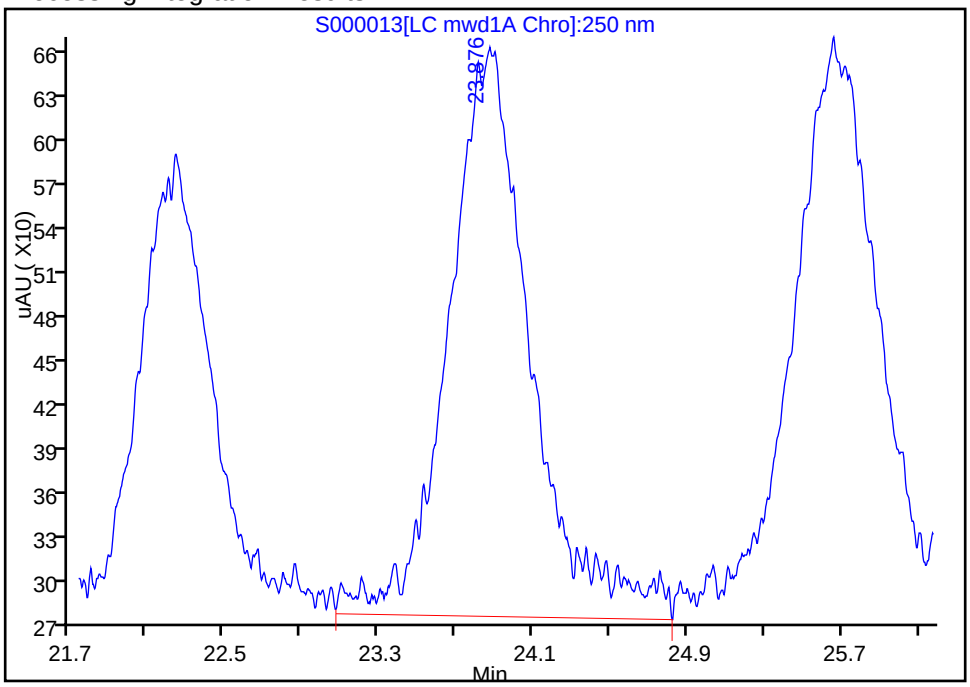
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000013.D		
Injection Date:	19-Apr-2013 18:02:05	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14686	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

15 p-Nitrotoluene, Signal: 1, Type: quant, RT: 23.77, Det: LC mwd1A

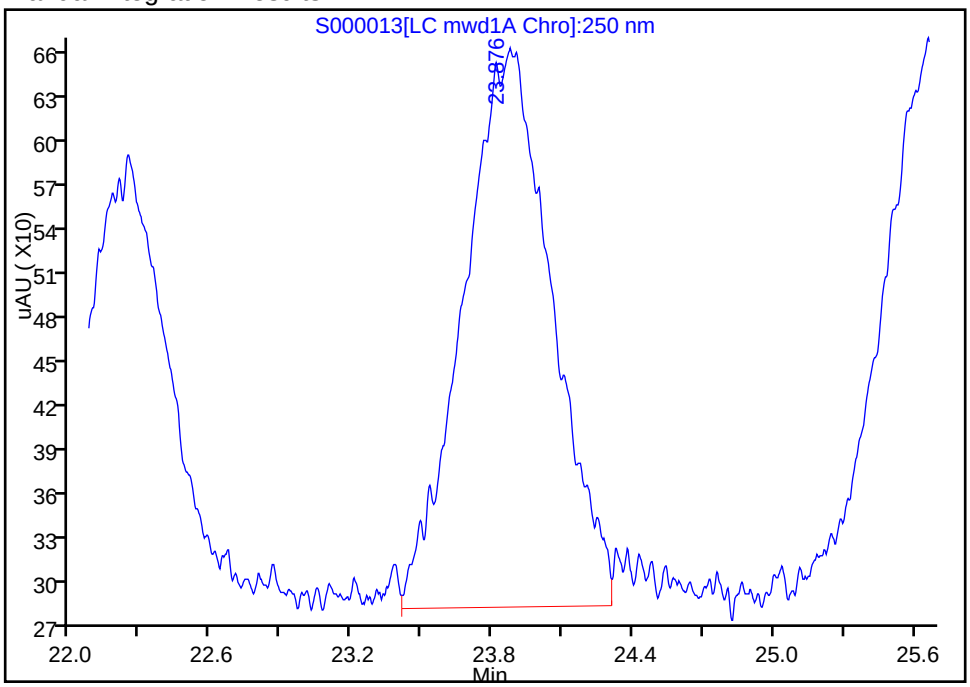
Processing Integration Results

RT: 23.88
Response: 388
Amount: 7.302901



Manual Integration Results

RT: 23.88
Response: 381
Amount: 7.175192



Reviewer: shafern, 22-Apr-2013 07:58:44
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14706/11 Calibration Date: 04/20/2013 02:02

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000024.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	125.5	126.3		101	100	0.7	20.0
RDX	Ave	90.99	87.74		96.4	100	-3.6	20.0
Ethylene glycol dinitrate	Ave	110.5	113.2		102	100	2.4	20.0
Picric acid	Ave	132.3	104.4		197	250	-21.1*	20.0
1,3,5-Trinitrobenzene	Ave	163.5	164.2		100	100	0.4	20.0
1,3-Dinitrobenzene	Ave	162.2	163.5		101	100	0.8	20.0
3,5-Dinitroaniline	Ave	103.6	104.1		100	100	0.5	20.0
Tetryl	Ave	94.63	93.01		98.3	100	-1.7	20.0
Nitrobenzene	Ave	71.37	72.11		101	100	1.0	20.0
Nitroglycerin	Ave	70.31	66.19		94.1	100	-5.9	20.0
2,4,6-Trinitrotoluene	Ave	95.40	94.19		98.7	100	-1.3	20.0
4-Amino-2,6-dinitrotoluene	Ave	78.37	77.67		99.1	100	-0.9	20.0
2-Amino-4,6-dinitrotoluene	Ave	84.03	83.52		99.4	100	-0.6	20.0
2,6-Dinitrotoluene	Ave	59.83	59.42		99.3	100	-0.7	20.0
2,4-Dinitrotoluene	Ave	98.79	98.24		99.4	100	-0.6	20.0
2-Nitrotoluene	Ave	42.45	41.86		98.6	100	-1.4	20.0
4-Nitrotoluene	Ave	53.10	52.63		99.1	100	-0.9	20.0
3-Nitrotoluene	Ave	52.01	51.91		99.8	100	-0.2	20.0
PETN	Ave	39.35	35.89		91.2	100	-8.8	20.0
3,4-Dinitrotoluene	Ave	57.22	54.84		95.8	100	-4.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14706/11 Calibration Date: 04/20/2013 02:02

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000024.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.41	7.16	7.66
Ethylene glycol dinitrate	8.08	7.83	8.33
Picric acid	8.49	8.24	8.74
1,3,5-Trinitrobenzene	9.66	9.41	9.91
1,3-Dinitrobenzene	12.25	12.00	12.50
3,5-Dinitroaniline	12.98	12.73	13.23
Tetryl	13.27	13.02	13.52
Nitrobenzene	13.93	13.68	14.18
Nitroglycerin	14.47	14.22	14.72
2,4,6-Trinitrotoluene	15.34	15.09	15.59
4-Amino-2,6-dinitrotoluene	15.91	15.66	16.16
2-Amino-4,6-dinitrotoluene	16.88	16.63	17.13
2,6-Dinitrotoluene	18.38	18.13	18.63
2,4-Dinitrotoluene	19.02	18.77	19.27
2-Nitrotoluene	22.24	21.99	22.49
4-Nitrotoluene	23.88	23.63	24.13
3-Nitrotoluene	25.68	25.43	25.93
PETN	27.61	27.36	27.86
3,4-Dinitrotoluene	16.34	16.09	16.59

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000024.D
Lims ID: CCV 05 Client ID:
Inject. Date: 20-Apr-2013 02:02:12 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 320-0004003-011
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 2
Lims Batch ID: 14706 Lims Sample ID: 11
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m
Last Update: 22-Apr-2013 09:55:39 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 22-Apr-2013 08:11:48

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.183	5.183	0.0	12630	100.7	
19 RDX						
1	7.413	7.413	0.0	8774	96.4	
3 Ethylene glycol dinitrate						
2	8.076	8.076	0.0	11316	102.4	
10 2,4,6-Trinitrophenol						
2	8.493	8.493	0.0	26089	197.3	
1	8.493	8.493	0.0	18287	198.5	
27 1,3,5-Trinitrobenzene						
1	9.663	9.663	0.0	16418	100.4	
24 1,3-Dinitrobenzene						
1	12.247	12.247	0.0	16350	100.8	
9 3,5-Dinitroaniline						
1	12.983	12.983	0.0	10414	100.5	
20 Tetryl						
1	13.267	13.267	0.0	9301	98.3	
5 Nitrobenzene						
1	13.933	13.933	0.0	7211	101.0	
7 Nitroglycerin						
2	14.470	14.470	0.0	6619	94.1	
25 2,4,6-Trinitrotoluene						
1	15.340	15.340	0.0	9419	98.7	
26 4-Amino-2,6-dinitrotoluene						
1	15.907	15.907	0.0	7767	99.1	
$ 30 3,4-Dinitrotoluene						
1	16.340	16.340	0.0	5484	95.8	
2	16.343	16.343	0.0	10347	96.6	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.877	16.877	0.0	8352	99.4	
12 2,6-Dinitrotoluene						
1	18.377	18.377	0.0	5942	99.3	
23 2,4-Dinitrotoluene						
1	19.023	19.023	0.0	9824	99.4	
16 o-Nitrotoluene						
1	22.240	22.240	0.0	4186	98.6	
15 p-Nitrotoluene						
1	23.877	23.877	0.0	5263	99.1	
8 m-Nitrotoluene						
1	25.677	25.677	0.0	5191	99.8	
21 PETN						
2	27.607	27.607	0.0	3589	91.2	

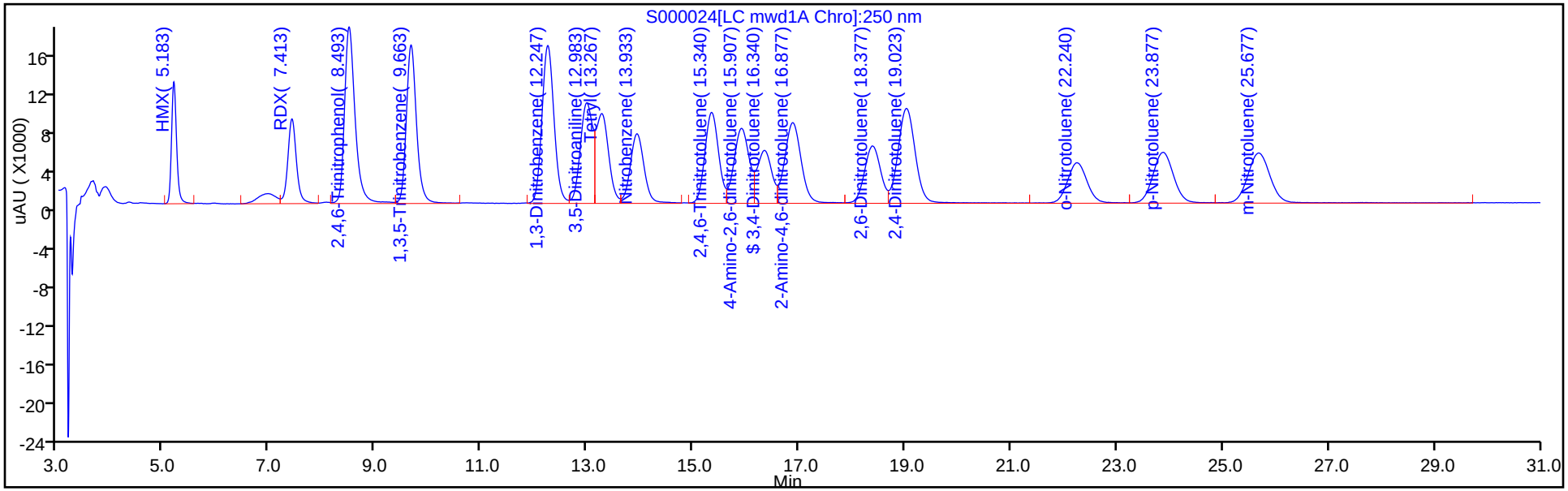
Report Date: 22-Apr-2013 09:55:40 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

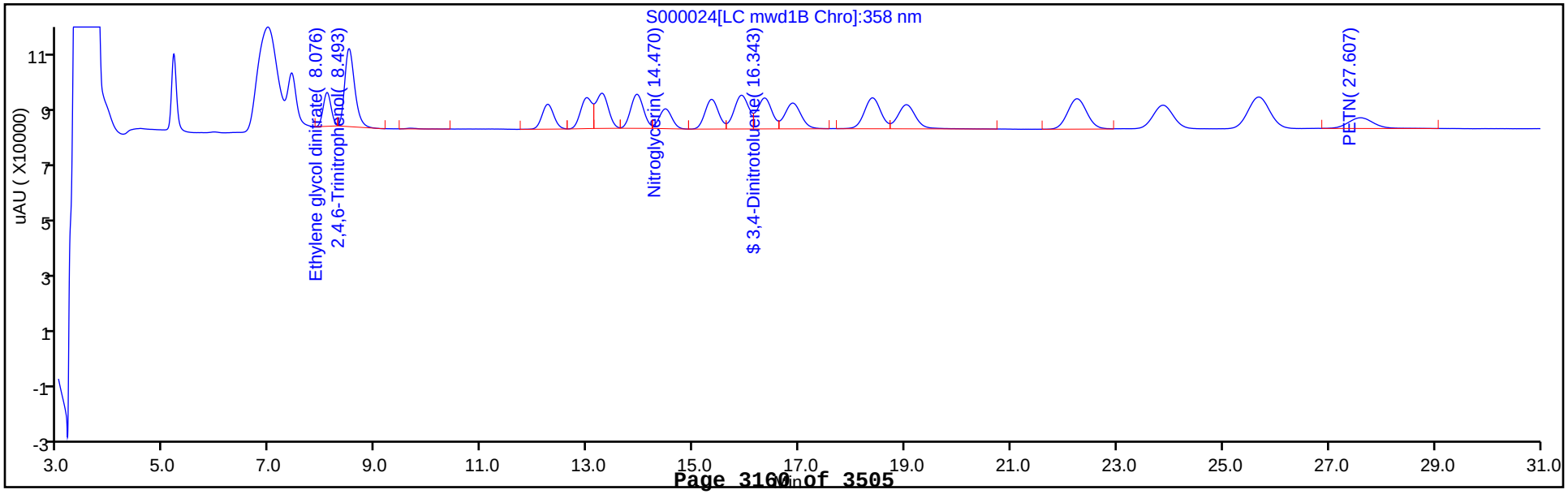
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000024.D

Injection Date:	20-Apr-2013 02:02:12	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14706/22 Calibration Date: 04/20/2013 10:02

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000035.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	125.5	126.6		101	100	0.9	20.0
RDX	Ave	90.99	87.49		96.1	100	-3.9	20.0
Ethylene glycol dinitrate	Ave	110.5	113.8		103	100	2.9	20.0
Picric acid	Ave	132.3	104.7		198	250	-20.8*	20.0
1,3,5-Trinitrobenzene	Ave	163.5	164.6		101	100	0.6	20.0
1,3-Dinitrobenzene	Ave	162.2	164.3		101	100	1.3	20.0
3,5-Dinitroaniline	Ave	103.6	104.5		101	100	0.9	20.0
Tetryl	Ave	94.63	93.12		98.4	100	-1.6	20.0
Nitrobenzene	Ave	71.37	70.95		99.4	100	-0.6	20.0
Nitroglycerin	Ave	70.31	68.10		96.9	100	-3.1	20.0
2,4,6-Trinitrotoluene	Ave	95.40	94.69		99.3	100	-0.7	20.0
4-Amino-2,6-dinitrotoluene	Ave	78.37	77.84		99.3	100	-0.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	84.03	83.89		99.8	100	-0.2	20.0
2,6-Dinitrotoluene	Ave	59.83	59.40		99.3	100	-0.7	20.0
2,4-Dinitrotoluene	Ave	98.79	98.29		99.5	100	-0.5	20.0
2-Nitrotoluene	Ave	42.45	40.96		96.5	100	-3.5	20.0
4-Nitrotoluene	Ave	53.10	51.70		97.4	100	-2.6	20.0
3-Nitrotoluene	Ave	52.01	50.70		97.5	100	-2.5	20.0
PETN	Ave	39.35	36.71		93.3	100	-6.7	20.0
3,4-Dinitrotoluene	Ave	57.22	55.13		96.4	100	-3.6	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14706/22 Calibration Date: 04/20/2013 10:02

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000035.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.41	7.16	7.66
Ethylene glycol dinitrate	8.08	7.83	8.33
Picric acid	8.49	8.24	8.74
1,3,5-Trinitrobenzene	9.66	9.41	9.91
1,3-Dinitrobenzene	12.23	11.98	12.48
3,5-Dinitroaniline	12.96	12.71	13.21
Tetryl	13.25	13.00	13.50
Nitrobenzene	13.91	13.66	14.16
Nitroglycerin	14.45	14.20	14.70
2,4,6-Trinitrotoluene	15.32	15.07	15.57
4-Amino-2,6-dinitrotoluene	15.88	15.63	16.13
2-Amino-4,6-dinitrotoluene	16.85	16.60	17.10
2,6-Dinitrotoluene	18.36	18.11	18.61
2,4-Dinitrotoluene	19.00	18.75	19.25
2-Nitrotoluene	22.21	21.96	22.46
4-Nitrotoluene	23.84	23.59	24.09
3-Nitrotoluene	25.64	25.39	25.89
PETN	27.55	27.30	27.80
3,4-Dinitrotoluene	16.31	16.06	16.56

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000035.D
Lims ID: CCV 05 Client ID:
Inject. Date: 20-Apr-2013 10:02:33 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 320-0004003-022
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 2
Lims Batch ID: 14706 Lims Sample ID: 22
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m
Last Update: 22-Apr-2013 09:55:32 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 22-Apr-2013 08:26:40

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.180	5.180	0.0	12657	100.9	
19 RDX						
1	7.410	7.410	0.0	8749	96.1	
3 Ethylene glycol dinitrate						
2	8.077	8.077	0.0	11376	102.9	
10 2,4,6-Trinitrophenol						
2	8.490	8.490	0.0	26174	197.9	
1	8.490	8.490	0.0	18287	198.5	
27 1,3,5-Trinitrobenzene						
1	9.660	9.660	0.0	16459	100.6	
24 1,3-Dinitrobenzene						
1	12.234	12.234	0.0	16429	101.3	
9 3,5-Dinitroaniline						
1	12.964	12.964	0.0	10452	100.9	
20 Tetryl						
1	13.250	13.250	0.0	9312	98.4	
5 Nitrobenzene						
1	13.914	13.914	0.0	7095	99.4	
7 Nitroglycerin						
2	14.450	14.450	0.0	6810	96.9	
25 2,4,6-Trinitrotoluene						
1	15.324	15.324	0.0	9469	99.3	
26 4-Amino-2,6-dinitrotoluene						
1	15.884	15.884	0.0	7784	99.3	
$ 30 3,4-Dinitrotoluene						
1	16.314	16.314	0.0	5513	96.4	
2	16.317	16.317	0.0	10460	97.6	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
6 2-Amino-4,6-dinitrotoluene						
1	16.850	16.850	0.0	8389	99.8	
12 2,6-Dinitrotoluene						
1	18.357	18.357	0.0	5940	99.3	
23 2,4-Dinitrotoluene						
1	18.997	18.997	0.0	9829	99.5	
16 o-Nitrotoluene						
1	22.214	22.214	0.0	4096	96.5	
15 p-Nitrotoluene						
1	23.837	23.837	0.0	5170	97.4	
8 m-Nitrotoluene						
1	25.640	25.640	0.0	5070	97.5	
21 PETN						
2	27.547	27.547	0.0	3671	93.3	

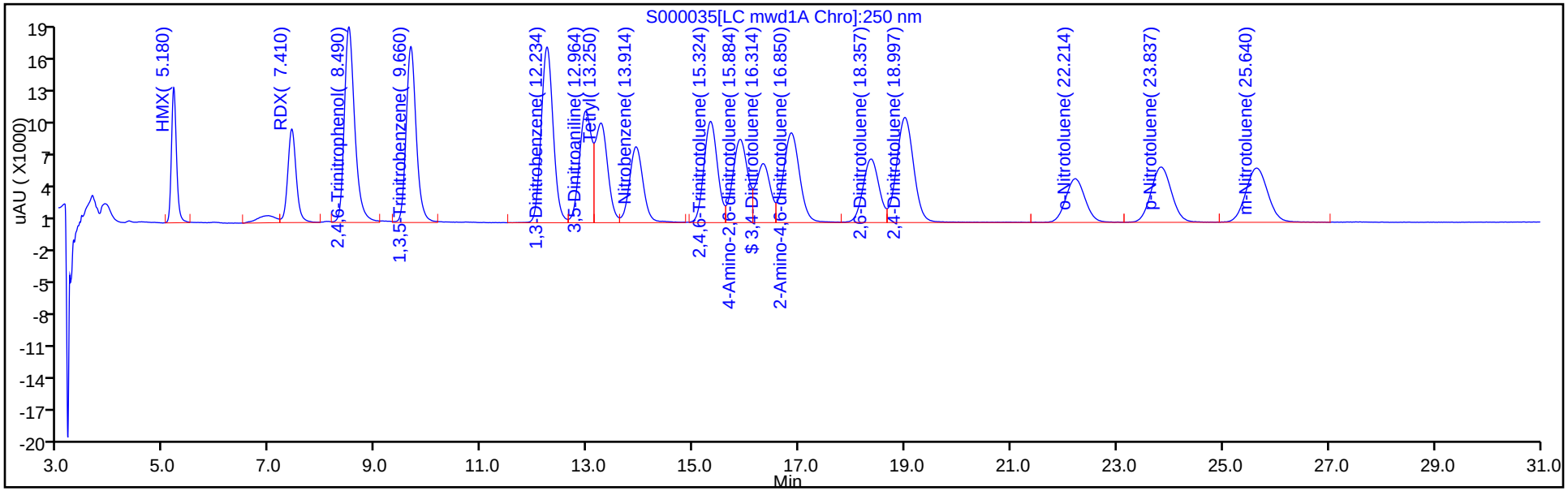
Report Date: 22-Apr-2013 09:55:33 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

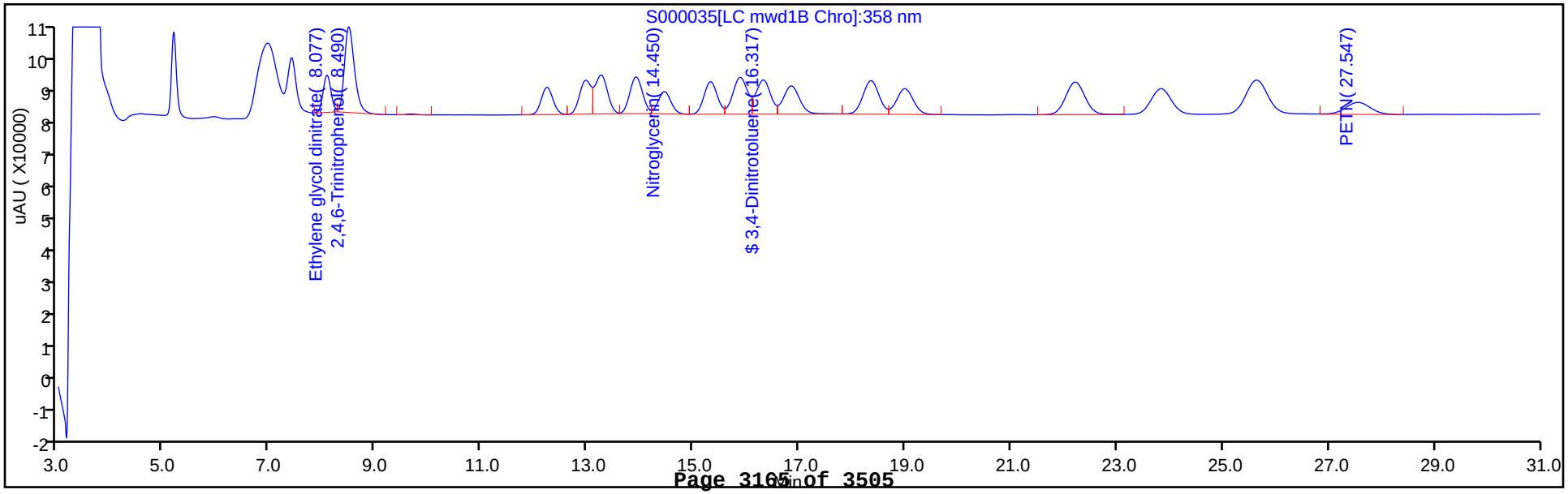
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000035.D

Injection Date:	20-Apr-2013 10:02:33	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	22
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14706/33 Calibration Date: 04/20/2013 18:03

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000046.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	125.5	177.2		7.06	5.00	41.2*	30.0
RDX	Ave	90.99	147.6		8.11	5.00	62.2*	30.0
1,3,5-Trinitrobenzene	Ave	163.5	234.8		7.18	5.00	43.6*	30.0
1,3-Dinitrobenzene	Ave	162.2	237.8		7.33	5.00	46.6*	30.0
3,5-Dinitroaniline	Ave	103.6	152.8		7.37	5.00	47.4*	30.0
Tetryl	Ave	94.63	136.2		7.20	5.00	43.9*	30.0
Nitrobenzene	Ave	71.37	104.2		7.30	5.00	46.0*	30.0
Nitroglycerin	Ave	70.31	81.20		23.1	20.0	15.5	30.0
2,4,6-Trinitrotoluene	Ave	95.40	139.0		7.29	5.00	45.7*	30.0
4-Amino-2,6-dinitrotoluene	Ave	78.37	115.8		7.39	5.00	47.8*	30.0
2-Amino-4,6-dinitrotoluene	Ave	84.03	124.4		7.40	5.00	48.1*	30.0
2,6-Dinitrotoluene	Ave	59.83	87.80		7.34	5.00	46.7*	30.0
2,4-Dinitrotoluene	Ave	98.79	142.6		7.22	5.00	44.3*	30.0
2-Nitrotoluene	Ave	42.45	62.20		7.33	5.00	46.5*	30.0
4-Nitrotoluene	Ave	53.10	73.40		6.91	5.00	38.2*	30.0
3-Nitrotoluene	Ave	52.01	74.40		7.15	5.00	43.0*	30.0
PETN	Ave	39.35	39.90		20.3	20.0	1.4	30.0
3,4-Dinitrotoluene	Ave	57.22	57.05		19.9	20.0	-0.3	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14706/33 Calibration Date: 04/20/2013 18:03

Instrument ID: LC10 Calib Start Date: 04/19/2013 10:45

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 04/19/2013 15:51

Lab File ID: S000046.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.40	7.15	7.65
1,3,5-Trinitrobenzene	9.65	9.40	9.90
1,3-Dinitrobenzene	12.23	11.98	12.48
3,5-Dinitroaniline	12.95	12.70	13.20
Tetryl	13.21	12.96	13.46
Nitrobenzene	13.88	13.63	14.13
Nitroglycerin	14.42	14.17	14.67
2,4,6-Trinitrotoluene	15.29	15.04	15.54
4-Amino-2,6-dinitrotoluene	15.84	15.59	16.09
2-Amino-4,6-dinitrotoluene	16.81	16.56	17.06
2,6-Dinitrotoluene	18.31	18.06	18.56
2,4-Dinitrotoluene	18.96	18.71	19.21
2-Nitrotoluene	22.13	21.88	22.38
4-Nitrotoluene	23.73	23.48	23.98
3-Nitrotoluene	25.56	25.31	25.81
PETN	27.49	27.24	27.74
3,4-Dinitrotoluene	16.28	16.03	16.53

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000046.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	20-Apr-2013 18:03:09	Dil. Factor:	1.0000
Sample Type:	CCVL		
Sample ID:	320-0004003-033		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	7
Lims Batch ID:	14706	Lims Sample ID:	33
Sublist:	chrom-8330_LC10*sub2		
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:25	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		

First Level Reviewer: shafern Date: 22-Apr-2013 09:04:12

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.181	5.181	0.0	886	7.06	
19 RDX						
1	7.397	7.397	0.0	738	8.11	
27 1,3,5-Trinitrobenzene						
1	9.651	9.651	0.0	1174	7.18	
24 1,3-Dinitrobenzene						
1	12.227	12.227	0.0	1189	7.33	
9 3,5-Dinitroaniline						
1	12.954	12.954	0.0	764	7.37	
20 Tetryl						
1	13.211	13.211	0.0	681	7.20	
5 Nitrobenzene						
1	13.884	13.884	0.0	521	7.30	
7 Nitroglycerin						
2	14.424	14.424	0.0	1624	23.1	
25 2,4,6-Trinitrotoluene						
1	15.294	15.294	0.0	695	7.29	
26 4-Amino-2,6-dinitrotoluene						
1	15.841	15.841	0.0	579	7.39	
$ 30 3,4-Dinitrotoluene						
1	16.281	16.281	0.0	1141	19.9	
2	16.284	16.284	0.0	2309	21.5	
6 2-Amino-4,6-dinitrotoluene						
1	16.807	16.807	0.0	622	7.40	
12 2,6-Dinitrotoluene						
1	18.314	18.314	0.0	439	7.34	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
23 2,4-Dinitrotoluene						
1	18.957	18.957	0.0	713	7.22	
16 o-Nitrotoluene						
1	22.131	22.131	0.0	311	7.33	
15 p-Nitrotoluene						M
1	23.731	23.731	0.0	367	6.91	M
8 m-Nitrotoluene						M
1	25.557	25.557	0.0	372	7.15	M
21 PETN						
2	27.491	27.491	0.0	798	20.3	

QC Flag Legend

Review Flags
M - Manually Integrated

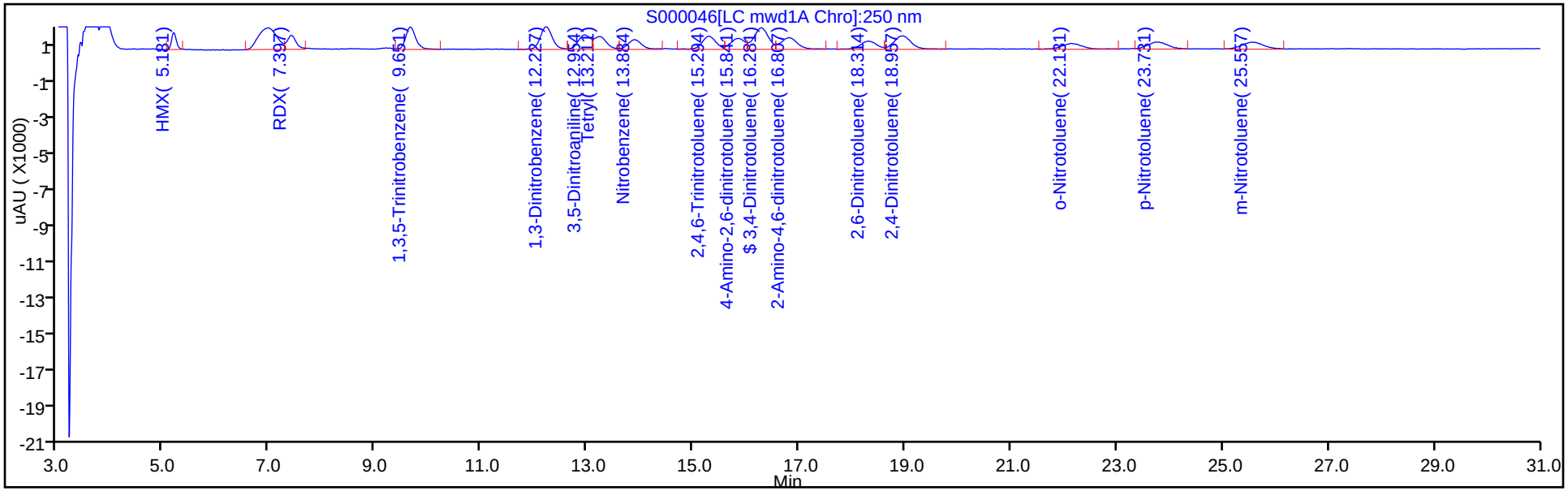
Report Date: 22-Apr-2013 09:55:25 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000046.D

Injection Date:	20-Apr-2013 18:03:09	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	33
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



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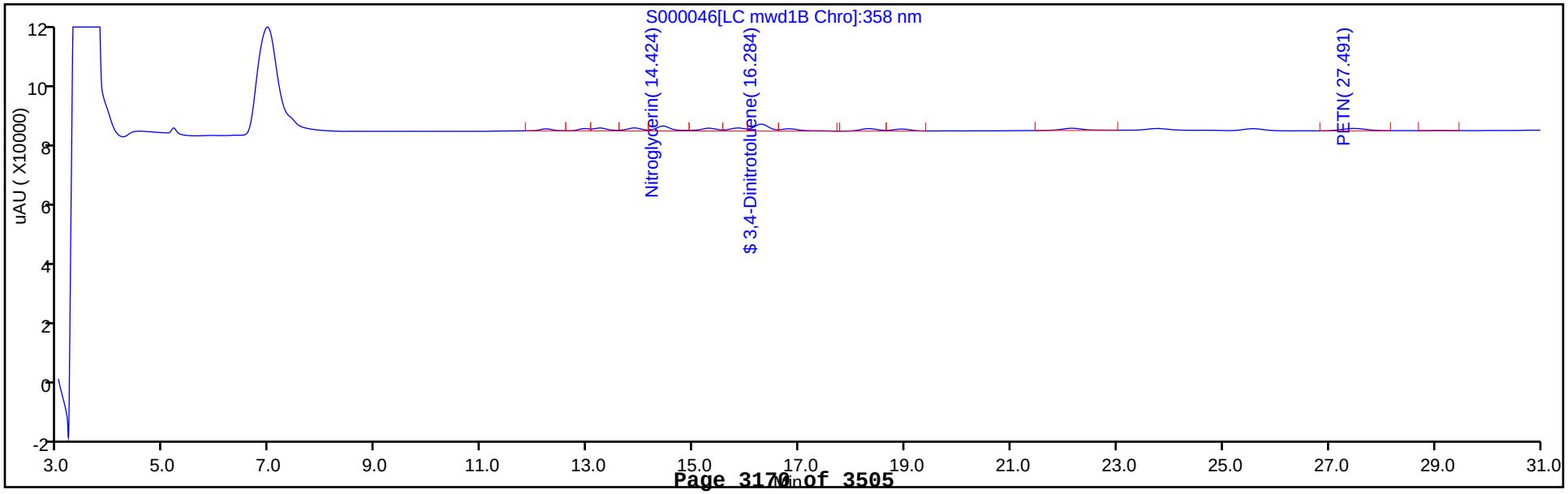


Manual Integration/User Assign Peak Report

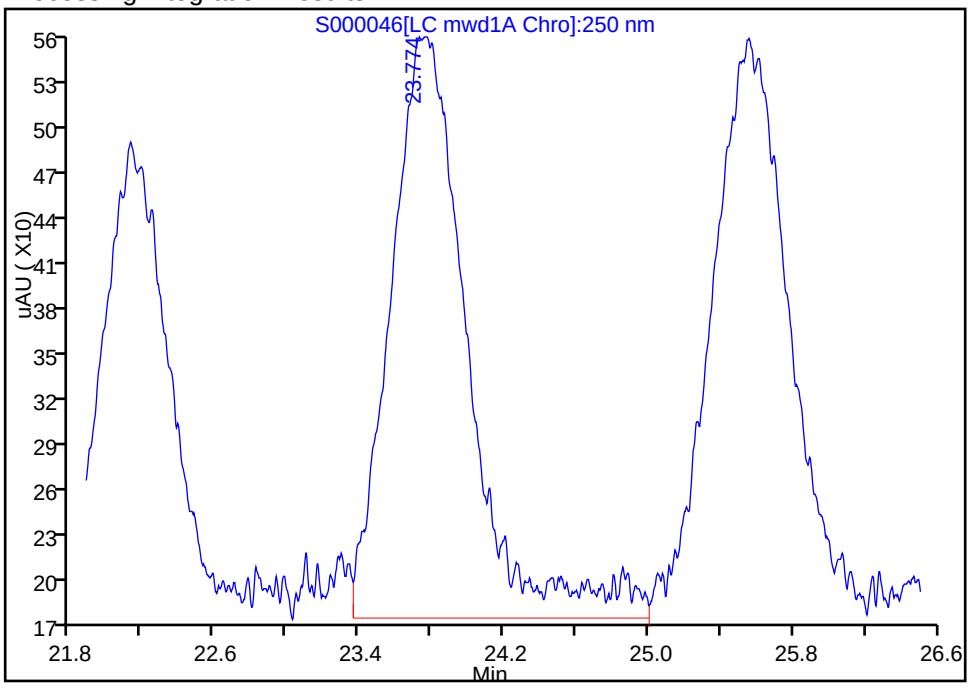
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000046.D		
Injection Date:	20-Apr-2013 18:03:09	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	33
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

15 p-Nitrotoluene, Signal: 1, Type: quant, RT: 23.73, Det: LC mwd1A

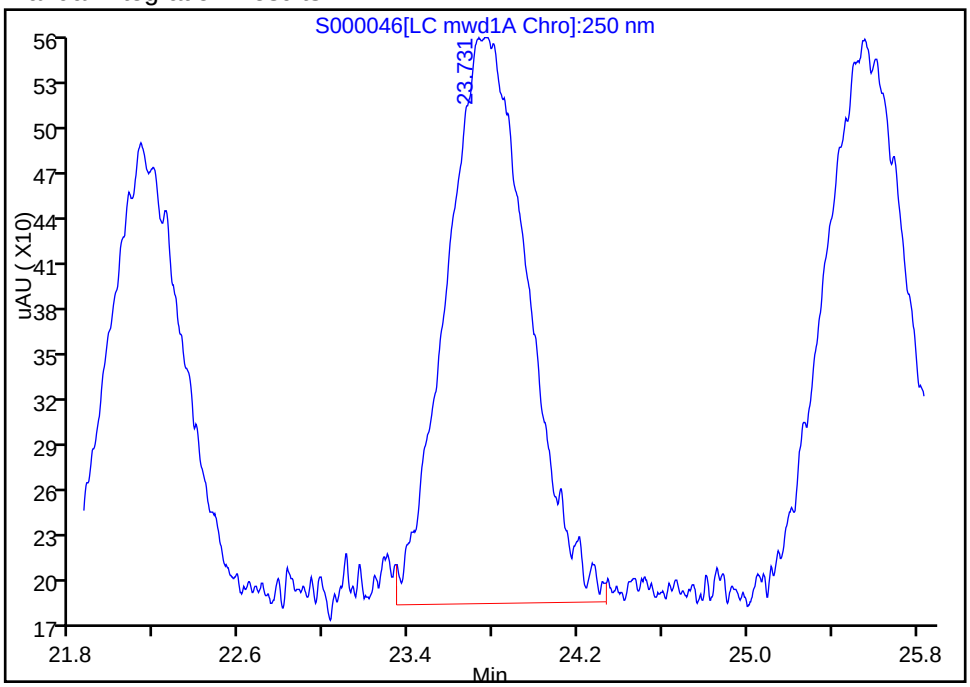
Processing Integration Results

RT: 23.77
Response: 376
Amount: 7.077038



Manual Integration Results

RT: 23.73
Response: 367
Amount: 6.911537



Reviewer: shafern, 22-Apr-2013 09:05:24
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

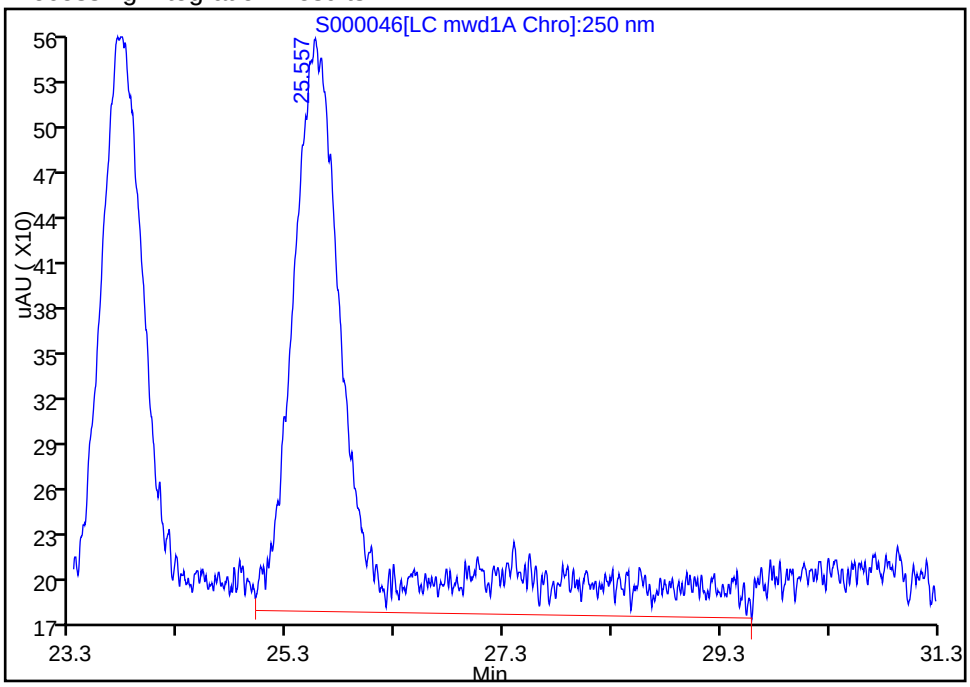
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000046.D		
Injection Date:	20-Apr-2013 18:03:09	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	33
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

8 m-Nitrotoluene, Signal: 1, Type: quant, RT: 25.56, Det: LC mwd1A

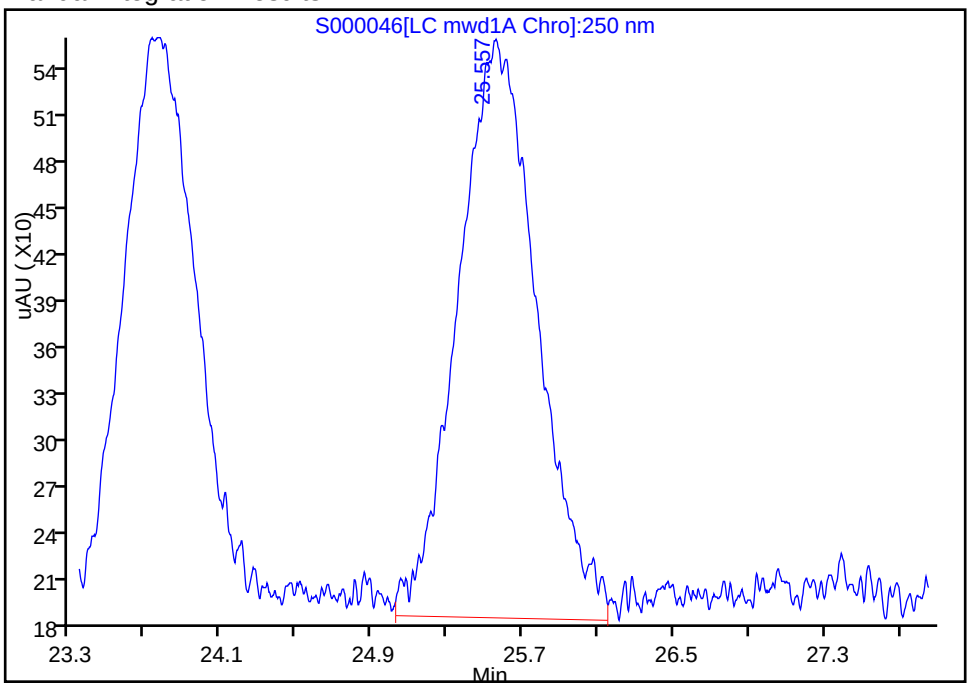
Processing Integration Results

RT: 25.56
Response: 376
Amount: 7.230829



Manual Integration Results

RT: 25.56
Response: 372
Amount: 7.152178



Reviewer: shafern, 22-Apr-2013 09:05:24
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 320-10422/11 Calibration Date: 02/14/2013 03:05

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000012.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	None		0.0870		0.500	1000	-100.0*	20.0
Nitrobenzene	Ave	48.34	48.04		497	500	-0.6	20.0
Ethylene glycol dinitrate	Ave	21.88	22.05		504	500	0.8	20.0
1,3-Dinitrobenzene	Ave	106.1	100.8		475	500	-4.9	20.0
1,3,5-Trinitrobenzene	Ave	82.14	79.18		482	500	-3.6	20.0
2-Nitrotoluene	Ave	63.47	61.84		487	500	-2.6	20.0
4-Nitrotoluene	Ave	63.47	61.84		487	500	-2.6	20.0
3-Nitrotoluene	Ave	42.38	39.90		471	500	-5.8	20.0
3,5-Dinitroaniline	Ave	82.33	80.95		492	500	-1.7	20.0
RDX	Ave	49.04	45.73		466	500	-6.7	20.0
2,4-Dinitrotoluene	Ave	88.34	87.12		493	500	-1.4	20.0
2,6-Dinitrotoluene	Ave	53.63	52.70		491	500	-1.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	76.75		516	500	3.2	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	70.74		503	500	0.6	20.0
2,4,6-Trinitrotoluene	Ave	87.92	94.20		536	500	7.1	20.0
HMX	Ave	65.31	66.47		509	500	1.8	20.0
Nitroglycerin	Ave	91.50	99.16		542	500	8.4	20.0
Tetryl	Ave	118.9	137.0		576	500	15.2	20.0
PETN	Ave	146.8	152.3		519	500	3.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICV 320-10422/11 Calibration Date: 02/14/2013 03:05

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.10	0.00	0.35
Nitrobenzene	22.76	22.51	23.01
Ethylene glycol dinitrate	23.99	23.74	24.24
1,3-Dinitrobenzene	25.86	25.61	26.11
1,3,5-Trinitrobenzene	28.79	28.54	29.04
2-Nitrotoluene	29.95	29.70	30.20
4-Nitrotoluene	29.95	29.70	30.20
3-Nitrotoluene	30.56	30.31	30.81
3,5-Dinitroaniline	31.97	31.72	32.22
RDX	32.58	32.33	32.83
2,4-Dinitrotoluene	33.82	33.57	34.07
2,6-Dinitrotoluene	34.84	34.59	35.09
2-Amino-4,6-dinitrotoluene	36.93	36.68	37.18
4-Amino-2,6-dinitrotoluene	37.50	37.25	37.75
2,4,6-Trinitrotoluene	41.27	41.02	41.52
HMX	42.70	42.45	42.95
Nitroglycerin	45.21	44.96	45.46
Tetryl	46.79	46.54	47.04
PETN	53.11	52.86	53.36

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000012.D
Lims ID: ICV Client ID:
Inject. Date: 14-Feb-2013 03:05:41 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 320-0002792-011
Misc. Info.:
Operator: RN Instrument ID: LC12
Injection Vol: 500.0 ul ALS Bottle#: 20
Lims Batch ID: 10422 Lims Sample ID: 11
Sublist:

Method: \\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m
Last Update: 14-Feb-2013 07:52:21 Calib Date: 14-Feb-2013 00:54:32
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Zorbax Cyano CN Column Dia: 4.60 mm
Process Host: XAWRK023

First Level Reviewer: noonanr Date: 14-Feb-2013 07:51:34

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.096	0.096	0.0	87	0	
1	0.096	0.096	0.0	92	0	
5 Nitrobenzene						
1	22.763	22.763	0.0	24018	496.9	
3 Ethylene glycol dinitrate						
2	23.993	23.993	0.0	11023	503.9	
24 1,3-Dinitrobenzene						
1	25.863	25.863	0.0	50405	475.3	
27 1,3,5-Trinitrobenzene						
1	28.786	28.786	0.0	39588	482.0	
16 o-Nitrotoluene						
1	29.953	29.953	0.0	30919	487.1	
15 p-Nitrotoluene						
1	29.953	29.953	0.0	30919	487.1	
8 m-Nitrotoluene						
1	30.560	30.560	0.0	19952	470.8	
9 3,5-Dinitroaniline						
1	31.970	31.970	0.0	40475	491.6	
19 RDX						
1	32.580	32.580	0.0	22864	466.3	
23 2,4-Dinitrotoluene						
1	33.820	33.820	0.0	43562	493.1	
12 2,6-Dinitrotoluene						
1	34.843	34.843	0.0	26351	491.4	
6 2-Amino-4,6-dinitrotoluene						
1	36.933	36.933	0.0	38373	515.8	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
26 4-Amino-2,6-dinitrotoluene						
1	37.503	37.503	0.0	35368	503.0	
25 2,4,6-Trinitrotoluene						
1	41.273	41.273	0.0	47098	535.7	
11 HMX						
1	42.696	42.696	0.0	33235	508.9	
7 Nitroglycerin						
2	45.206	45.206	0.0	49581	541.9	
20 Tetryl						
1	46.786	46.786	0.0	68518	576.1	
21 PETN						
2	53.113	53.113	0.0	76141	518.8	

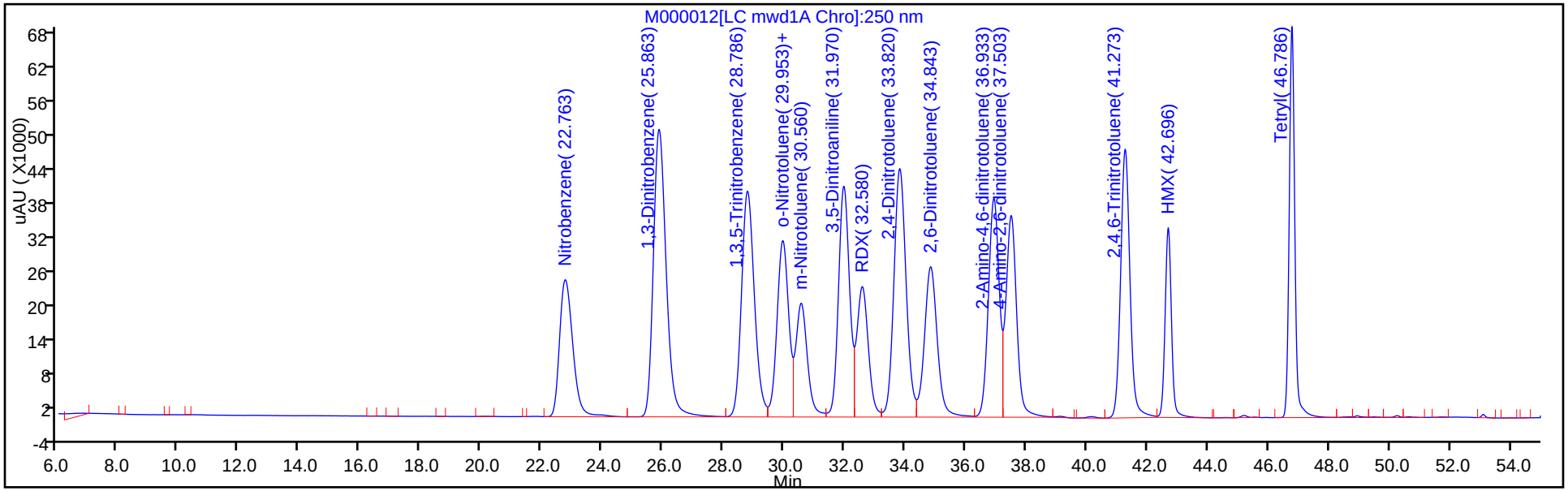
Report Date: 14-Feb-2013 07:52:22 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000012.D

Injection Date:	14-Feb-2013 03:05:41	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



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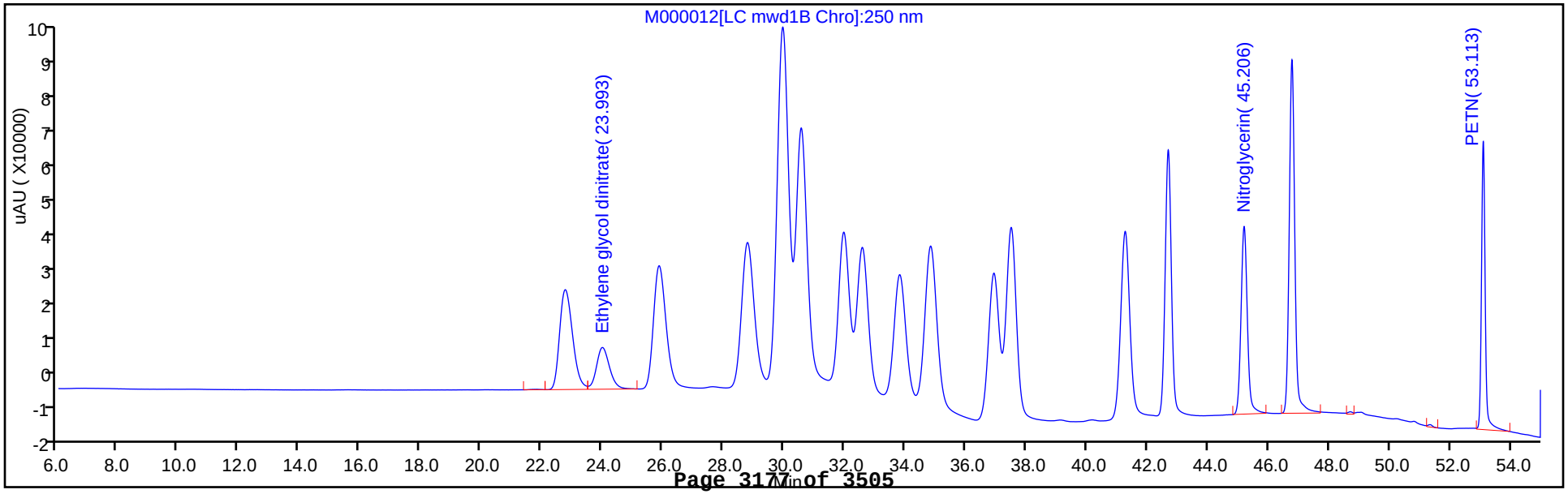


FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: LODV 320-10422/12 Calibration Date: 02/14/2013 04:11

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000013.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	51.80		5.36	5.00	7.2	
1,3-Dinitrobenzene	Ave	106.1	115.8		5.46	5.00	9.2	
1,3,5-Trinitrobenzene	Ave	82.14	91.20		5.55	5.00	11.0	
2-Nitrotoluene	Ave	63.47	66.80		5.26	5.00	5.2	
4-Nitrotoluene	Ave	63.47	66.80		5.26	5.00	5.2	
3-Nitrotoluene	Ave	42.38	43.20		5.10	5.00	1.9	
3,5-Dinitroaniline	Ave	82.33	100.2		6.09	5.00	21.7	
RDX	Ave	49.04	60.20		6.14	5.00	22.8	
2,4-Dinitrotoluene	Ave	88.34	101.2		5.73	5.00	14.6	
2,6-Dinitrotoluene	Ave	53.63	60.80		5.67	5.00	13.4	
2-Amino-4,6-dinitrotoluene	Ave	74.40	78.40		5.27	5.00	5.4	
4-Amino-2,6-dinitrotoluene	Ave	70.31	78.20		5.56	5.00	11.2	
2,4,6-Trinitrotoluene	Ave	87.92	99.40		5.65	5.00	13.1	
HMX	Ave	65.31	71.80		5.50	5.00	9.9	
Nitroglycerin	Ave	91.50	88.10		19.3	20.0	-3.7	
Tetryl	Ave	118.9	133.4		5.61	5.00	12.2	
PETN	Ave	146.8	141.0		19.2	20.0	-3.9	
3,4-Dinitrotoluene	Ave	53.42	53.85		20.2	20.0	0.8	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: LODV 320-10422/12 Calibration Date: 02/14/2013 04:11

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: M000013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	0.10	0.00	0.35
Nitrobenzene	22.77	22.51	23.01
1,3-Dinitrobenzene	25.89	25.61	26.11
1,3,5-Trinitrobenzene	28.82	28.54	29.04
2-Nitrotoluene	29.98	29.70	30.20
4-Nitrotoluene	29.98	29.70	30.20
3-Nitrotoluene	30.54	30.31	30.81
3,5-Dinitroaniline	31.94	31.72	32.22
RDX	32.57	32.33	32.83
2,4-Dinitrotoluene	33.81	33.57	34.07
2,6-Dinitrotoluene	34.83	34.59	35.09
2-Amino-4,6-dinitrotoluene	36.92	36.68	37.18
4-Amino-2,6-dinitrotoluene	37.50	37.25	37.75
2,4,6-Trinitrotoluene	41.27	41.02	41.52
HMX	42.69	42.45	42.95
Nitroglycerin	45.18	44.96	45.46
Tetryl	46.77	46.54	47.04
PETN	53.11	52.86	53.36
Ethylene glycol dinitrate			
3,4-Dinitrotoluene	39.07	38.75	39.25

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000013.D
Lims ID: LODV 5-20ng/mL Client ID:
Inject. Date: 14-Feb-2013 04:11:14 Dil. Factor: 1.0000
Sample Type: LODV
Sample ID: 320-0002792-012
Misc. Info.:
Operator: RN Instrument ID: LC12
Injection Vol: 500.0 ul ALS Bottle#: 10
Lims Batch ID: 10422 Lims Sample ID: 12

Method: \\SACChrom\ChromData\LC12\20130213-2792.b\LC12_Conf_8330.m
Last Update: 14-Feb-2013 08:04:02 Calib Date: 14-Feb-2013 00:54:32
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Zorbax Cyano CN Column Dia: 4.60 mm
Process Host: XAWRK023

First Level Reviewer: noonanr Date: 14-Feb-2013 07:52:12

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.102	0.096	0.006	111	0	
1	0.102	0.096	0.006	99	0	
5 Nitrobenzene						
1	22.772	22.763	0.009	259	5.36	
24 1,3-Dinitrobenzene						
1	25.886	25.863	0.023	579	5.46	
27 1,3,5-Trinitrobenzene						
1	28.816	28.786	0.030	456	5.55	
16 o-Nitrotoluene						
1	29.979	29.953	0.026	334	5.26	
15 p-Nitrotoluene						
1	29.979	29.953	0.026	334	5.26	
8 m-Nitrotoluene						
1	30.539	30.560	-0.021	216	5.10	
9 3,5-Dinitroaniline						
1	31.939	31.970	-0.031	501	6.09	
19 RDX						
1	32.566	32.580	-0.014	301	6.14	
23 2,4-Dinitrotoluene						
1	33.812	33.820	-0.008	506	5.73	
12 2,6-Dinitrotoluene						
1	34.826	34.843	-0.017	304	5.67	
6 2-Amino-4,6-dinitrotoluene						
1	36.919	36.933	-0.014	392	5.27	
26 4-Amino-2,6-dinitrotoluene						
1	37.502	37.503	-0.001	391	5.56	
$ 30 3,4-Dinitrotoluene						
1	39.072	38.999	0.073	1077	20.2	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	41.266	41.273	-0.007	497	5.65	
11 HMX						
1	42.686	42.696	-0.010	359	5.50	
7 Nitroglycerin						
2	45.182	45.206	-0.024	1762	19.3	
20 Tetryl						
1	46.766	46.786	-0.020	667	5.61	
21 PETN						
2	53.109	53.113	-0.004	2820	19.2	

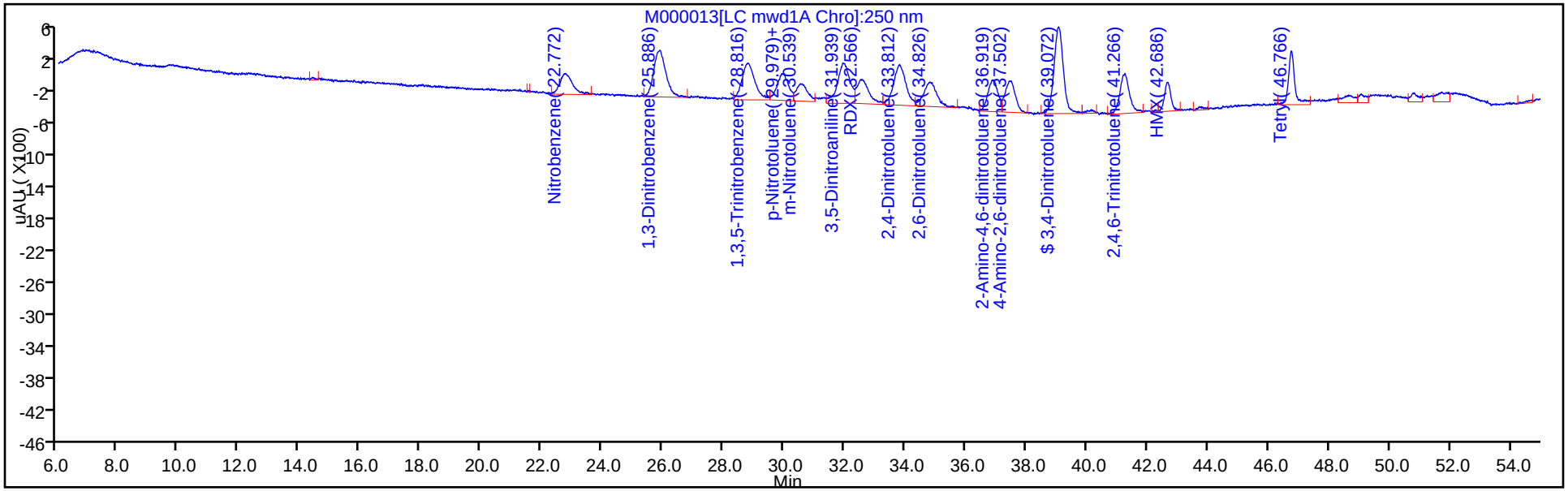
Report Date: 14-Feb-2013 08:04:10 Chrom Revision: 2.1 23-Jan-2013 14:30:26

TestAmerica Sacramento

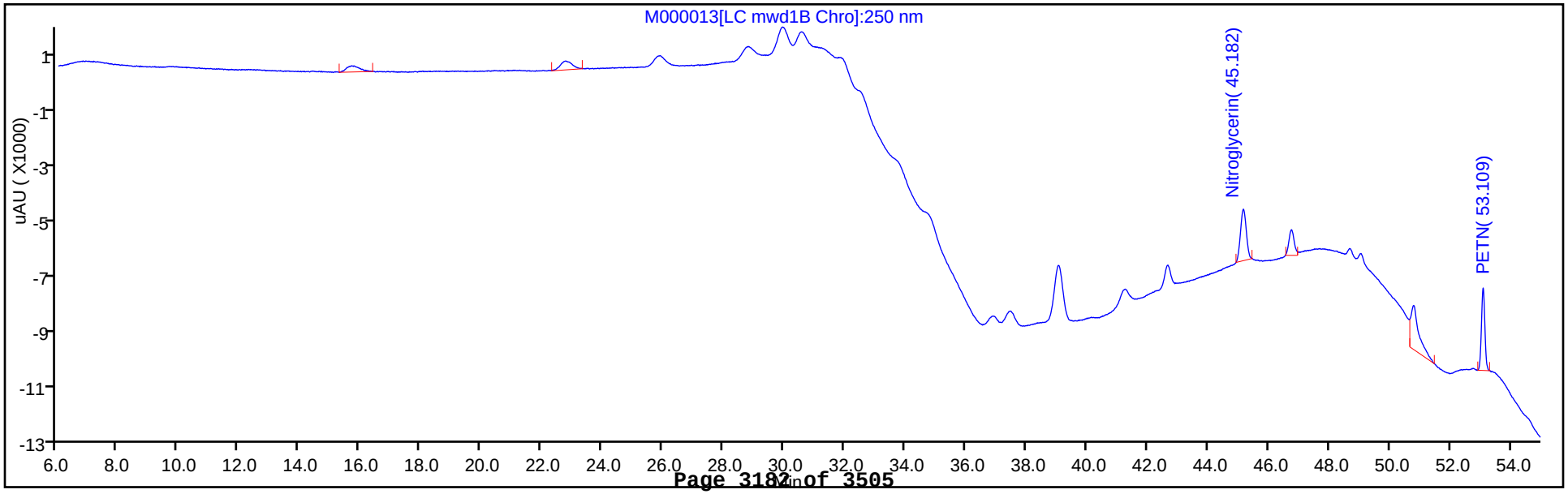
Data File: \\SACChrom\ChromData\LC12\20130213-2792.b\M000013.D

Injection Date:	14-Feb-2013 04:11:14	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	10422	Lims Sample ID:	12
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14998/3 Calibration Date: 04/24/2013 23:18

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000029.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	47.57		197	200	-1.6	20.0
Ethylene glycol dinitrate	Ave	21.88	23.28		213	200	6.4	20.0
1,3-Dinitrobenzene	Ave	106.1	103.4		195	200	-2.5	20.0
1,3,5-Trinitrobenzene	Ave	82.14	79.07		193	200	-3.7	20.0
2-Nitrotoluene	Ave	63.47	60.74		191	200	-4.3	20.0
4-Nitrotoluene	Ave	63.47	60.74		191	200	-4.3	20.0
3-Nitrotoluene	Ave	42.38	40.48		191	200	-4.5	20.0
3,5-Dinitroaniline	Ave	82.33	80.71		196	200	-2.0	20.0
RDX	Ave	49.04	45.88		187	200	-6.4	20.0
2,4-Dinitrotoluene	Ave	88.34	89.22		202	200	1.0	20.0
2,6-Dinitrotoluene	Ave	53.63	53.22		198	200	-0.8	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	72.23		194	200	-2.9	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	66.85		190	200	-4.9	20.0
2,4,6-Trinitrotoluene	Ave	87.92	83.95		191	200	-4.5	20.0
HMX	Ave	65.31	62.61		192	200	-4.1	20.0
Nitroglycerin	Ave	91.50	86.75		190	200	-5.2	20.0
Tetryl	Ave	118.9	121.8		205	200	2.4	20.0
PETN	Ave	146.8	139.0		189	200	-5.3	20.0
3,4-Dinitrotoluene	Ave	53.42	50.66		190	200	-5.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14998/3 Calibration Date: 04/24/2013 23:18

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000029.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.32	22.07	22.57
Ethylene glycol dinitrate	23.28	23.03	23.53
1,3-Dinitrobenzene	25.27	25.02	25.52
1,3,5-Trinitrobenzene	27.97	27.72	28.22
2-Nitrotoluene	29.54	29.29	29.79
4-Nitrotoluene	29.54	29.29	29.79
3-Nitrotoluene	30.14	29.89	30.39
3,5-Dinitroaniline	31.40	31.15	31.65
RDX	32.01	31.76	32.26
2,4-Dinitrotoluene	33.22	32.97	33.47
2,6-Dinitrotoluene	34.24	33.99	34.49
2-Amino-4,6-dinitrotoluene	36.34	36.09	36.59
4-Amino-2,6-dinitrotoluene	36.97	36.72	37.22
2,4,6-Trinitrotoluene	40.68	40.43	40.93
HMX	42.42	42.17	42.67
Nitroglycerin	44.93	44.68	45.18
Tetryl	46.62	46.37	46.87
PETN	53.14	52.89	53.39
3,4-Dinitrotoluene	38.69	38.44	38.94

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000029.D
Lims ID: CCV 06 Client ID:
Inject. Date: 24-Apr-2013 23:18:37 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: 320-0004083-003
Misc. Info.:
Operator: RN Instrument ID: LC12
Injection Vol: 500.0 ul ALS Bottle#: 5
Lims Batch ID: 14998 Lims Sample ID: 3
Sublist: chrom-LC12_Conf_8330*sub1

Method: \\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m
Last Update: 25-Apr-2013 09:45:34 Calib Date: 07-Mar-2013 16:35:05
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Zorbax Cyano CN Column Dia: 4.60 mm
Process Host: XAWRK032

First Level Reviewer: noonanr Date: 25-Apr-2013 09:45:34

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.094	0.094	0.0	94	0	
1	0.094	0.094	0.0	99	0	
5 Nitrobenzene						
1	22.324	22.324	0.0	9514	196.8	
3 Ethylene glycol dinitrate						
2	23.281	23.281	0.0	4656	212.8	
24 1,3-Dinitrobenzene						
1	25.267	25.267	0.0	20672	194.9	
27 1,3,5-Trinitrobenzene						
1	27.971	27.971	0.0	15814	192.5	
16 o-Nitrotoluene						
1	29.544	29.544	0.0	12147	191.4	
15 p-Nitrotoluene						
1	29.544	29.544	0.0	12147	191.4	
8 m-Nitrotoluene						
1	30.137	30.137	0.0	8096	191.0	
9 3,5-Dinitroaniline						
1	31.397	31.397	0.0	16142	196.1	
19 RDX						
1	32.014	32.014	0.0	9175	187.1	
23 2,4-Dinitrotoluene						
1	33.217	33.217	0.0	17844	202.0	
12 2,6-Dinitrotoluene						
1	34.241	34.241	0.0	10644	198.5	
6 2-Amino-4,6-dinitrotoluene						
1	36.344	36.344	0.0	14445	194.1	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
26 4-Amino-2,6-dinitrotoluene						
1	36.974	36.974	0.0	13369	190.1	
$ 30 3,4-Dinitrotoluene						
1	38.691	38.691	0.0	10131	189.7	
25 2,4,6-Trinitrotoluene						
1	40.681	40.681	0.0	16789	191.0	
11 HMX						
1	42.421	42.421	0.0	12522	191.7	
7 Nitroglycerin						
2	44.931	44.931	0.0	17349	189.6	
20 Tetryl						
1	46.624	46.624	0.0	24368	204.9	
21 PETN						
2	53.144	53.144	0.0	27806	189.5	

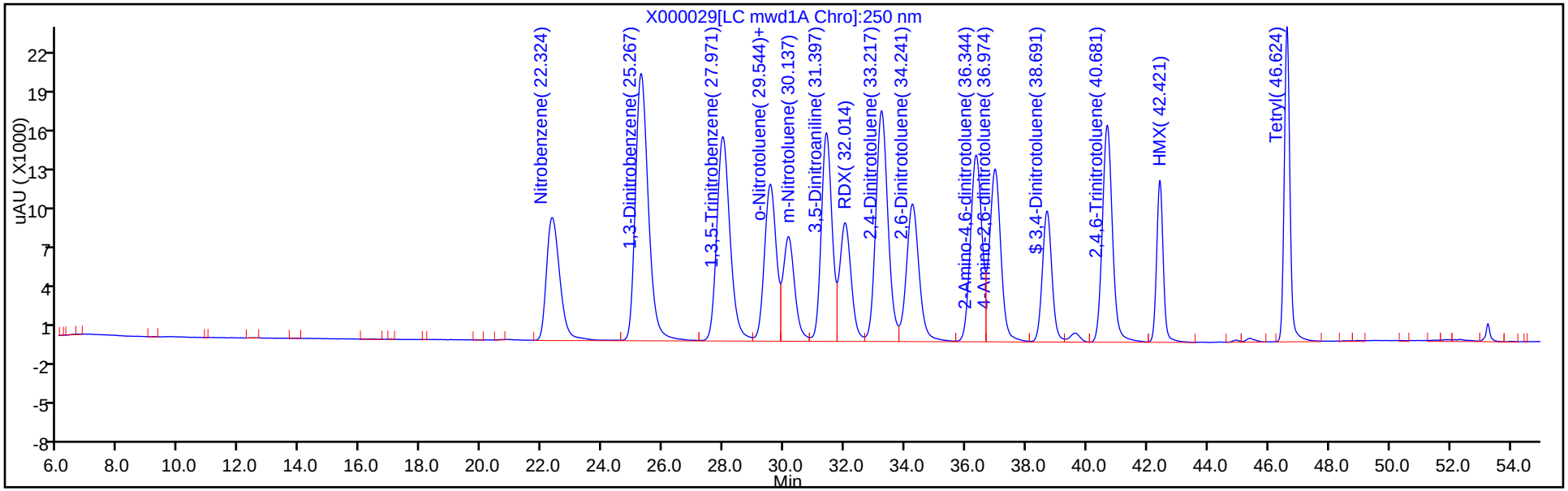
Report Date: 25-Apr-2013 09:45:34 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

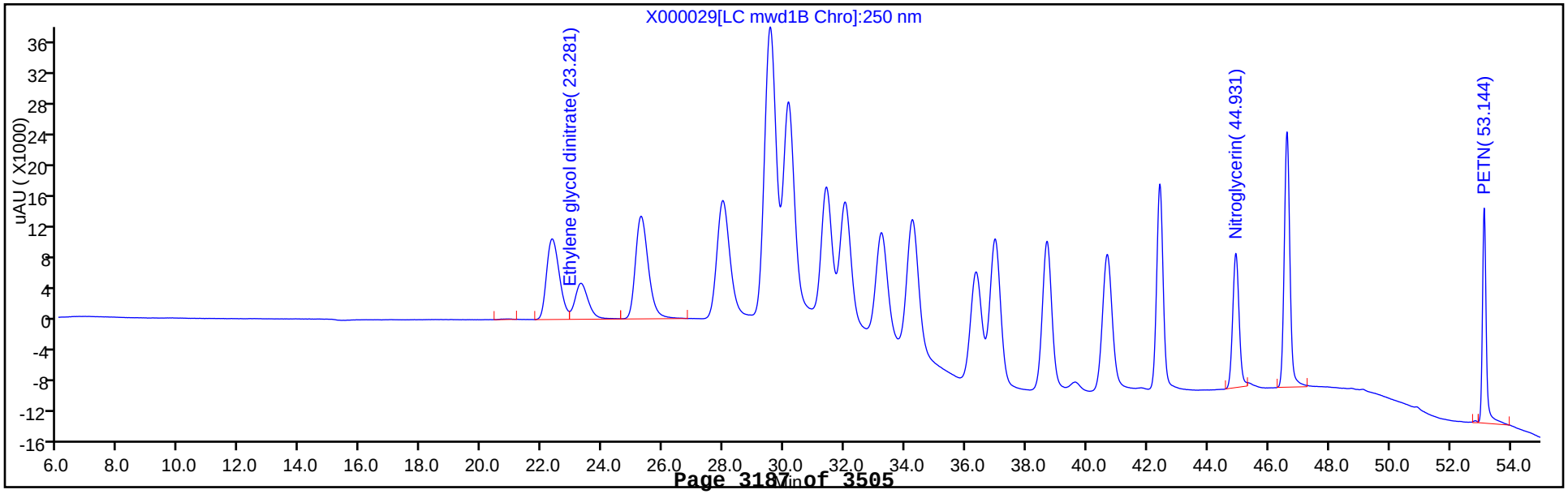
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000029.D

Injection Date:	24-Apr-2013 23:18:37	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	3
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14998/4 Calibration Date: 04/25/2013 00:24

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000030.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	51.80		5.36	5.00	7.2	20.0
1,3-Dinitrobenzene	Ave	106.1	109.2		5.15	5.00	3.0	20.0
1,3,5-Trinitrobenzene	Ave	82.14	85.40		5.20	5.00	4.0	20.0
2-Nitrotoluene	Ave	63.47	67.40		5.31	5.00	6.2	20.0
4-Nitrotoluene	Ave	63.47	67.40		5.31	5.00	6.2	20.0
3-Nitrotoluene	Ave	42.38	49.00		5.78	5.00	15.6	20.0
3,5-Dinitroaniline	Ave	82.33	94.20		5.72	5.00	14.4	20.0
RDX	Ave	49.04	64.00		6.53	5.00	30.5*	20.0
2,4-Dinitrotoluene	Ave	88.34	96.40		5.46	5.00	9.1	20.0
2,6-Dinitrotoluene	Ave	53.63	57.20		5.33	5.00	6.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	72.80		4.89	5.00	-2.2	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	62.40		4.44	5.00	-11.3	20.0
2,4,6-Trinitrotoluene	Ave	87.92	82.60		4.70	5.00	-6.0	20.0
HMX	Ave	65.31	67.00		5.13	5.00	2.6	20.0
Nitroglycerin	Ave	91.50	84.85		18.5	20.0	-7.3	20.0
Tetryl	Ave	118.9	119.4		5.02	5.00	0.4	20.0
PETN	Ave	146.8	136.9		18.7	20.0	-6.7	20.0
3,4-Dinitrotoluene	Ave	53.42	52.20		19.5	20.0	-2.3	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14998/4 Calibration Date: 04/25/2013 00:24

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000030.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.35	22.10	22.60
1,3-Dinitrobenzene	25.28	25.03	25.53
1,3,5-Trinitrobenzene	27.95	27.70	28.20
2-Nitrotoluene	29.51	29.26	29.76
4-Nitrotoluene	29.51	29.26	29.76
3-Nitrotoluene	30.09	29.84	30.34
3,5-Dinitroaniline	31.37	31.12	31.62
RDX	31.94	31.69	32.19
2,4-Dinitrotoluene	33.19	32.94	33.44
2,6-Dinitrotoluene	34.20	33.95	34.45
2-Amino-4,6-dinitrotoluene	36.27	36.02	36.52
4-Amino-2,6-dinitrotoluene	36.94	36.69	37.19
2,4,6-Trinitrotoluene	40.61	40.36	40.86
HMX	42.35	42.10	42.60
Nitroglycerin	44.88	44.63	45.13
Tetryl	46.59	46.34	46.84
PETN	53.16	52.91	53.41
3,4-Dinitrotoluene	38.62	38.37	38.87

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000030.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	25-Apr-2013 00:24:39	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0004083-004		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	8
Lims Batch ID:	14998	Lims Sample ID:	4
Sublist:	chrom-LC12_Conf_8330*sub4		
Method:	\\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m		
Last Update:	25-Apr-2013 09:46:01	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK032		

First Level Reviewer: noonanr Date: 25-Apr-2013 09:46:01

	Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
		5 Nitrobenzene					
	1	22.353	22.353	0.0	259	5.36	
		24 1,3-Dinitrobenzene					
	1	25.283	25.283	0.0	546	5.15	
		27 1,3,5-Trinitrobenzene					
	1	27.946	27.946	0.0	427	5.20	
		16 o-Nitrotoluene					
	1	29.513	29.513	0.0	337	5.31	
		15 p-Nitrotoluene					
	1	29.513	29.513	0.0	337	5.31	
		8 m-Nitrotoluene					
	1	30.086	30.086	0.0	245	5.78	
		9 3,5-Dinitroaniline					
	1	31.373	31.373	0.0	471	5.72	
		19 RDX					
	1	31.943	31.943	0.0	320	6.53	
		23 2,4-Dinitrotoluene					
	1	33.186	33.186	0.0	482	5.46	
		12 2,6-Dinitrotoluene					
	1	34.196	34.196	0.0	286	5.33	
		6 2-Amino-4,6-dinitrotoluene					
	1	36.266	36.266	0.0	364	4.89	
		26 4-Amino-2,6-dinitrotoluene					
	1	36.939	36.939	0.0	312	4.44	
$		30 3,4-Dinitrotoluene					
	1	38.623	38.623	0.0	1044	19.5	
		25 2,4,6-Trinitrotoluene					
	1	40.606	40.606	0.0	413	4.70	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	42.349	42.349	0.0	335	5.13	
7 Nitroglycerin						
2	44.883	44.883	0.0	1697	18.5	
20 Tetryl						
1	46.586	46.586	0.0	597	5.02	
21 PETN						
2	53.156	53.156	0.0	2738	18.7	

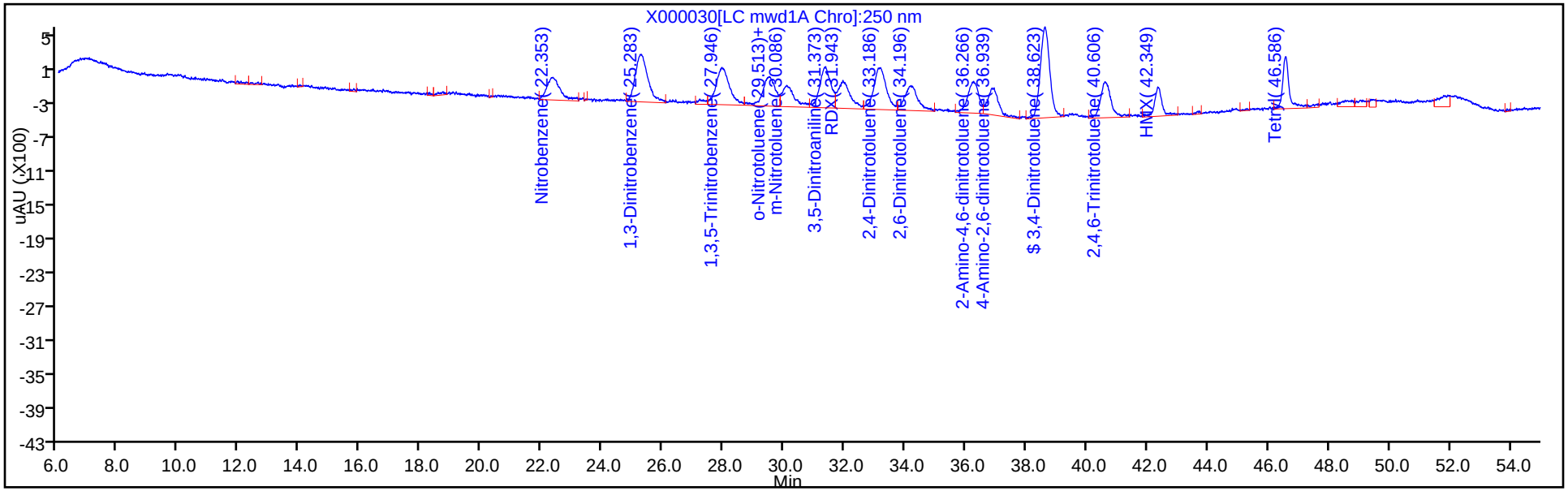
Report Date: 25-Apr-2013 09:46:01 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

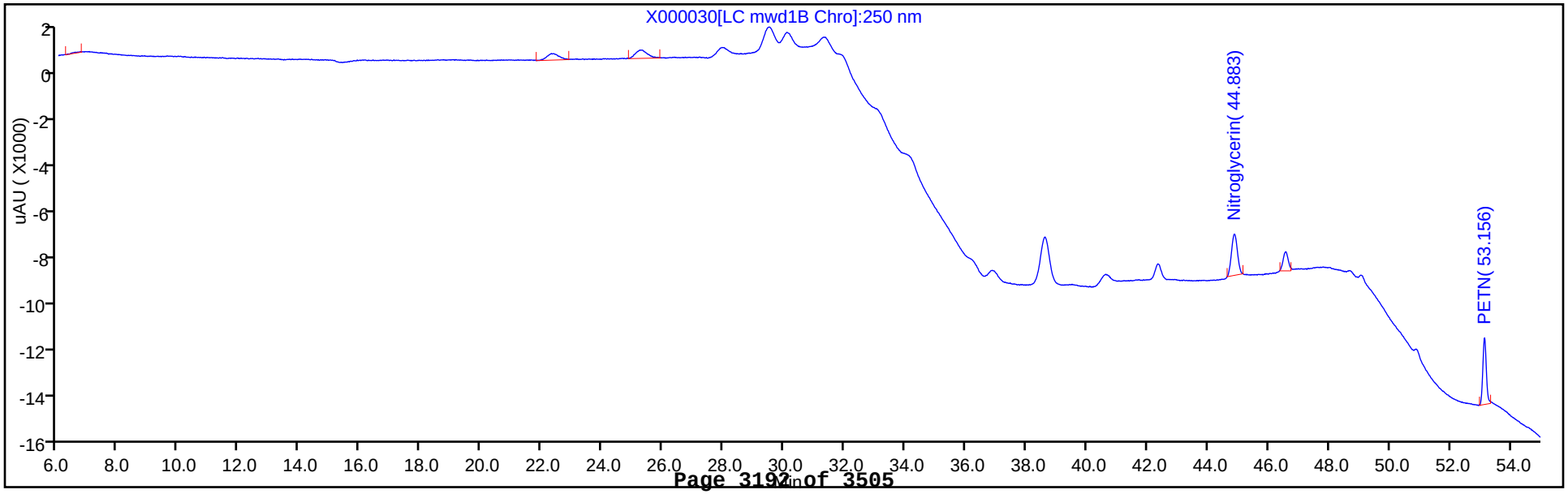
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000030.D

Injection Date:	25-Apr-2013 00:24:39	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	4
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14998/13 Calibration Date: 04/25/2013 10:19

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000039.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	48.97		101	100	1.3	20.0
Ethylene glycol dinitrate	Ave	21.88	23.46		107	100	7.2	20.0
1,3-Dinitrobenzene	Ave	106.1	105.4		99.4	100	-0.6	20.0
1,3,5-Trinitrobenzene	Ave	82.14	79.73		97.1	100	-2.9	20.0
2-Nitrotoluene	Ave	63.47	61.44		96.8	100	-3.2	20.0
4-Nitrotoluene	Ave	63.47	61.44		96.8	100	-3.2	20.0
3-Nitrotoluene	Ave	42.38	40.90		96.5	100	-3.5	20.0
3,5-Dinitroaniline	Ave	82.33	82.01		99.6	100	-0.4	20.0
RDX	Ave	49.04	46.84		95.5	100	-4.5	20.0
2,4-Dinitrotoluene	Ave	88.34	90.25		102	100	2.2	20.0
2,6-Dinitrotoluene	Ave	53.63	53.71		100	100	0.2	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	72.45		97.4	100	-2.6	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	66.52		94.6	100	-5.4	20.0
2,4,6-Trinitrotoluene	Ave	87.92	83.24		94.7	100	-5.3	20.0
HMX	Ave	65.31	62.99		96.5	100	-3.5	20.0
Nitroglycerin	Ave	91.50	86.48		94.5	100	-5.5	20.0
Tetryl	Ave	118.9	120.7		101	100	1.5	20.0
PETN	Ave	146.8	135.6		92.4	100	-7.6	20.0
3,4-Dinitrotoluene	Ave	53.42	51.22		95.9	100	-4.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14998/13 Calibration Date: 04/25/2013 10:19

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000039.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.33	22.08	22.58
Ethylene glycol dinitrate	23.25	23.00	23.50
1,3-Dinitrobenzene	25.26	25.01	25.51
1,3,5-Trinitrobenzene	27.94	27.69	28.19
2-Nitrotoluene	29.53	29.28	29.78
4-Nitrotoluene	29.53	29.28	29.78
3-Nitrotoluene	30.13	29.88	30.38
3,5-Dinitroaniline	31.36	31.11	31.61
RDX	31.98	31.73	32.23
2,4-Dinitrotoluene	33.19	32.94	33.44
2,6-Dinitrotoluene	34.21	33.96	34.46
2-Amino-4,6-dinitrotoluene	36.32	36.07	36.57
4-Amino-2,6-dinitrotoluene	36.94	36.69	37.19
2,4,6-Trinitrotoluene	40.65	40.40	40.90
HMX	42.39	42.14	42.64
Nitroglycerin	44.90	44.65	45.15
Tetryl	46.60	46.35	46.85
PETN	53.16	52.91	53.41
3,4-Dinitrotoluene	38.67	38.42	38.92

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000039.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	25-Apr-2013 10:19:52	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0004083-013		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	6
Lims Batch ID:	14998	Lims Sample ID:	13
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m		
Last Update:	25-Apr-2013 12:16:40	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK032		

First Level Reviewer: noonanr Date: 25-Apr-2013 12:16:40

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.225	0.225	0.0	156	0	
1	0.081	0.081	0.0	86	0	
5 Nitrobenzene						
1	22.328	22.328	0.0	4897	101.3	
3 Ethylene glycol dinitrate						
2	23.251	23.251	0.0	2346	107.2	
24 1,3-Dinitrobenzene						
1	25.255	25.255	0.0	10544	99.4	
27 1,3,5-Trinitrobenzene						
1	27.938	27.938	0.0	7973	97.1	
16 o-Nitrotoluene						
1	29.528	29.528	0.0	6144	96.8	
15 p-Nitrotoluene						
1	29.528	29.528	0.0	6144	96.8	
8 m-Nitrotoluene						
1	30.125	30.125	0.0	4090	96.5	
9 3,5-Dinitroaniline						
1	31.361	31.361	0.0	8201	99.6	
19 RDX						
1	31.978	31.978	0.0	4684	95.5	
23 2,4-Dinitrotoluene						
1	33.188	33.188	0.0	9025	102.2	
12 2,6-Dinitrotoluene						
1	34.211	34.211	0.0	5371	100.2	
6 2-Amino-4,6-dinitrotoluene						
1	36.315	36.315	0.0	7245	97.4	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
26 4-Amino-2,6-dinitrotoluene						
1	36.941	36.941	0.0	6652	94.6	
$ 30 3,4-Dinitrotoluene						
1	38.668	38.668	0.0	5122	95.9	
25 2,4,6-Trinitrotoluene						
1	40.645	40.645	0.0	8324	94.7	
11 HMX						
1	42.388	42.388	0.0	6299	96.5	
7 Nitroglycerin						
2	44.895	44.895	0.0	8648	94.5	
20 Tetryl						
1	46.598	46.598	0.0	12068	101.5	
21 PETN						
2	53.155	53.155	0.0	13563	92.4	

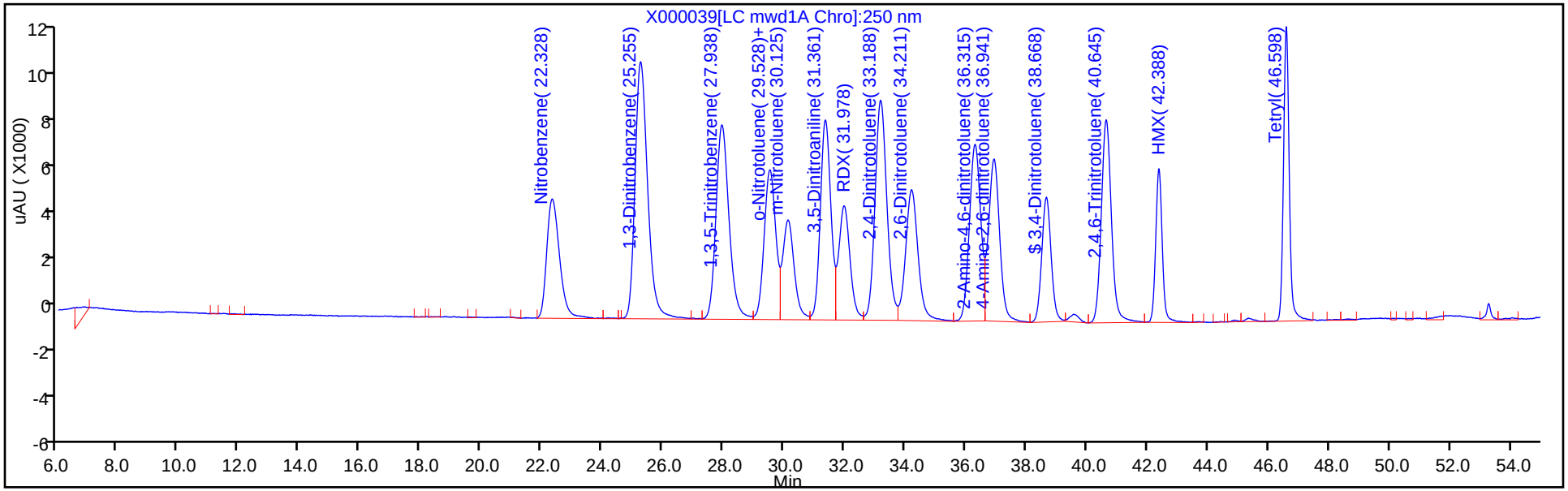
Report Date: 25-Apr-2013 12:16:41 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

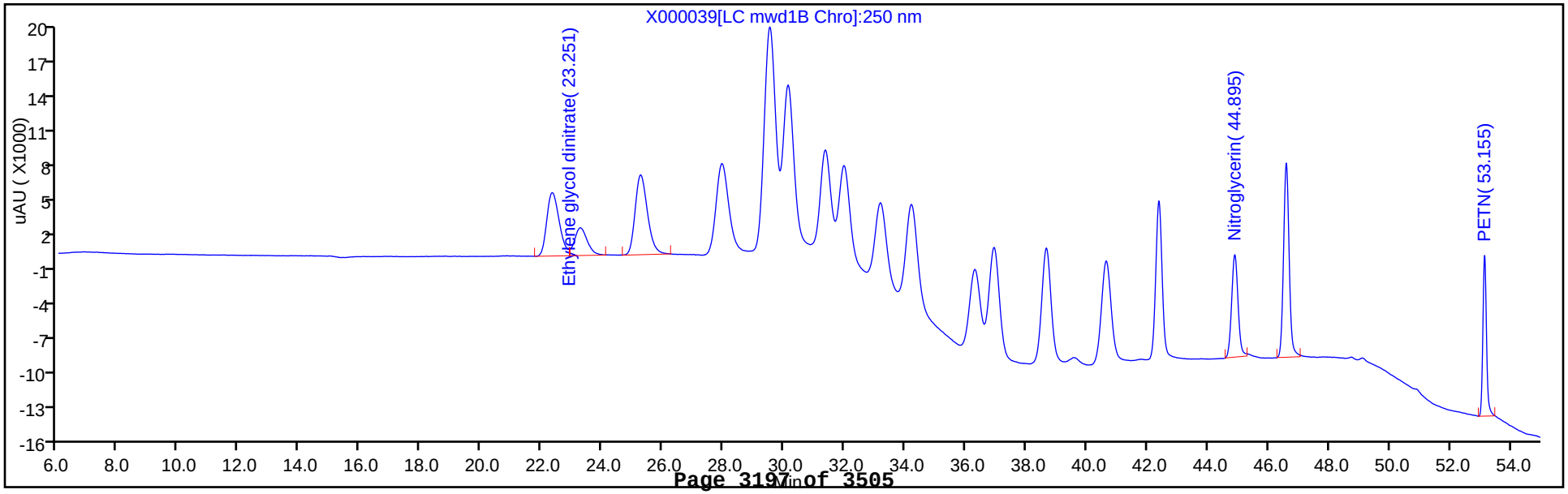
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000039.D

Injection Date:	25-Apr-2013 10:19:52	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	13
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14998/23 Calibration Date: 04/25/2013 21:20

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000049.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	48.01		99.3	100	-0.7	20.0
Ethylene glycol dinitrate	Ave	21.88	23.50		107	100	7.4	20.0
1,3-Dinitrobenzene	Ave	106.1	105.0		99.0	100	-1.0	20.0
1,3,5-Trinitrobenzene	Ave	82.14	79.65		97.0	100	-3.0	20.0
2-Nitrotoluene	Ave	63.47	60.02		94.6	100	-5.4	20.0
4-Nitrotoluene	Ave	63.47	60.02		94.6	100	-5.4	20.0
3-Nitrotoluene	Ave	42.38	40.21		94.9	100	-5.1	20.0
3,5-Dinitroaniline	Ave	82.33	81.76		99.3	100	-0.7	20.0
RDX	Ave	49.04	46.31		94.4	100	-5.6	20.0
2,4-Dinitrotoluene	Ave	88.34	89.61		101	100	1.4	20.0
2,6-Dinitrotoluene	Ave	53.63	53.10		99.0	100	-1.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	72.56		97.5	100	-2.5	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	67.02		95.3	100	-4.7	20.0
2,4,6-Trinitrotoluene	Ave	87.92	84.09		95.6	100	-4.4	20.0
HMX	Ave	65.31	62.80		96.2	100	-3.8	20.0
Nitroglycerin	Ave	91.50	86.49		94.5	100	-5.5	20.0
Tetryl	Ave	118.9	121.3		102	100	2.0	20.0
PETN	Ave	146.8	139.8		95.3	100	-4.7	20.0
3,4-Dinitrotoluene	Ave	53.42	51.27		96.0	100	-4.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCV 320-14998/23 Calibration Date: 04/25/2013 21:20

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000049.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.38	22.13	22.63
Ethylene glycol dinitrate	23.30	23.05	23.55
1,3-Dinitrobenzene	25.31	25.06	25.56
1,3,5-Trinitrobenzene	28.00	27.75	28.25
2-Nitrotoluene	29.61	29.36	29.86
4-Nitrotoluene	29.61	29.36	29.86
3-Nitrotoluene	30.21	29.96	30.46
3,5-Dinitroaniline	31.43	31.18	31.68
RDX	32.05	31.80	32.30
2,4-Dinitrotoluene	33.28	33.03	33.53
2,6-Dinitrotoluene	34.31	34.06	34.56
2-Amino-4,6-dinitrotoluene	36.42	36.17	36.67
4-Amino-2,6-dinitrotoluene	37.04	36.79	37.29
2,4,6-Trinitrotoluene	40.74	40.49	40.99
HMX	42.45	42.20	42.70
Nitroglycerin	44.97	44.72	45.22
Tetryl	46.66	46.41	46.91
PETN	53.14	52.89	53.39
3,4-Dinitrotoluene	38.77	38.52	39.02

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000049.D		
Lims ID:	CCV 05	Client ID:	
Inject. Date:	25-Apr-2013 21:20:54	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0004083-023		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	6
Lims Batch ID:	14998	Lims Sample ID:	23
Sublist:	chrom-LC12_Conf_8330*sub1		
Method:	\\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m		
Last Update:	26-Apr-2013 09:47:01	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK019		

First Level Reviewer: noonanr Date: 26-Apr-2013 09:47:01

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.383	22.383	0.0	4801	99.3	
3 Ethylene glycol dinitrate						
2	23.303	23.303	0.0	2350	107.4	
24 1,3-Dinitrobenzene						
1	25.313	25.313	0.0	10500	99.0	
27 1,3,5-Trinitrobenzene						
1	28.000	28.000	0.0	7965	97.0	
16 o-Nitrotoluene						
1	29.610	29.610	0.0	6002	94.6	
15 p-Nitrotoluene						
1	29.610	29.610	0.0	6002	94.6	
8 m-Nitrotoluene						
1	30.210	30.210	0.0	4021	94.9	
9 3,5-Dinitroaniline						
1	31.433	31.433	0.0	8176	99.3	
19 RDX						
1	32.050	32.050	0.0	4631	94.4	
23 2,4-Dinitrotoluene						
1	33.283	33.283	0.0	8961	101.4	
12 2,6-Dinitrotoluene						
1	34.313	34.313	0.0	5310	99.0	
6 2-Amino-4,6-dinitrotoluene						
1	36.416	36.416	0.0	7256	97.5	
26 4-Amino-2,6-dinitrotoluene						
1	37.040	37.040	0.0	6702	95.3	
$ 30 3,4-Dinitrotoluene						
1	38.766	38.766	0.0	5127	96.0	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
25 2,4,6-Trinitrotoluene						
1	40.740	40.740	0.0	8409	95.6	
11 HMX						
1	42.446	42.446	0.0	6280	96.2	
7 Nitroglycerin						
2	44.966	44.966	0.0	8649	94.5	
20 Tetryl						
1	46.663	46.663	0.0	12128	102.0	
21 PETN						
2	53.143	53.143	0.0	13979	95.3	

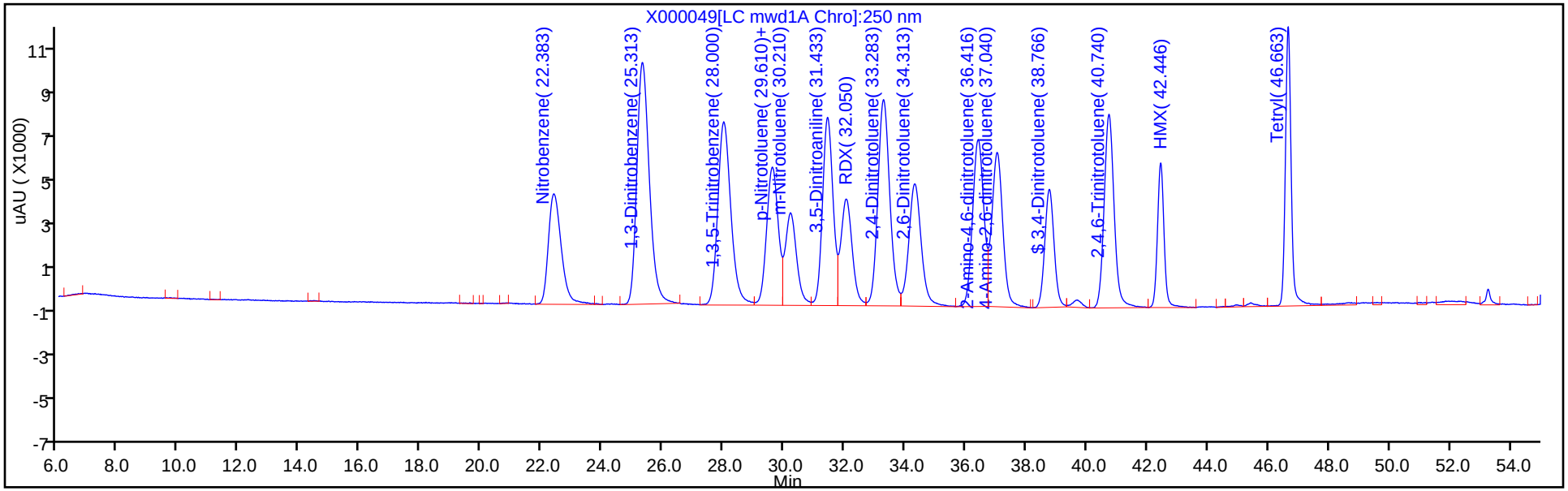
Report Date: 26-Apr-2013 09:47:01 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

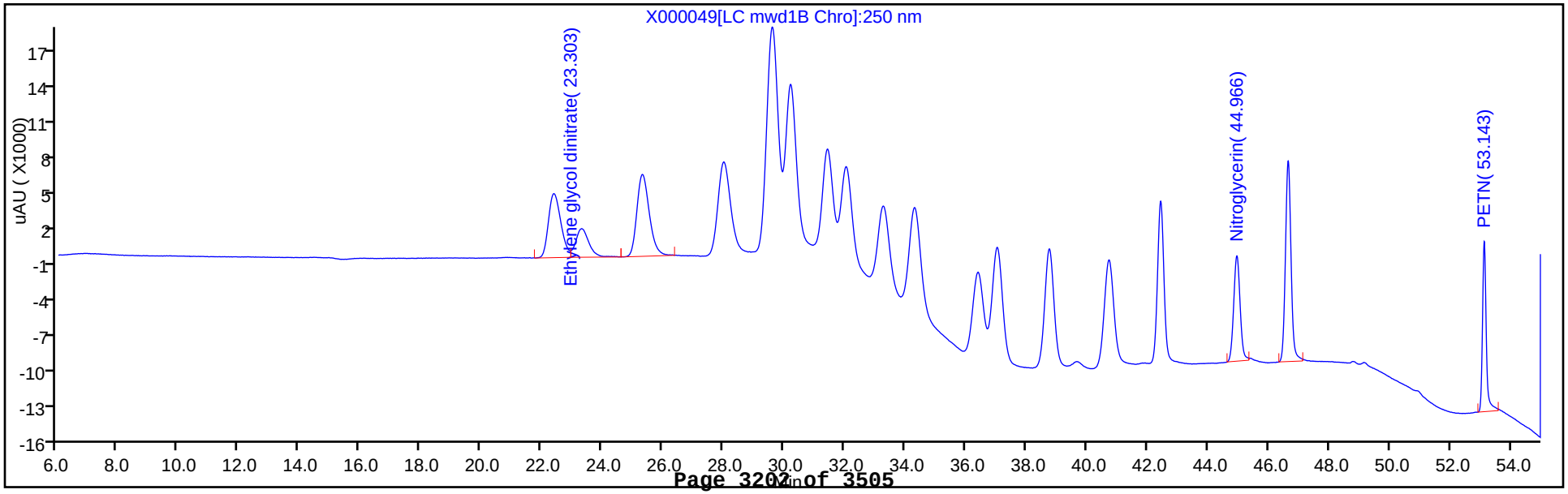
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000049.D

Injection Date:	25-Apr-2013 21:20:54	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	23
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14998/36 Calibration Date: 04/26/2013 20:29

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000070.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitrobenzene	Ave	48.34	48.00		4.96	5.00	-0.7	20.0
1,3-Dinitrobenzene	Ave	106.1	107.4		5.06	5.00	1.3	20.0
1,3,5-Trinitrobenzene	Ave	82.14	85.00		5.17	5.00	3.5	20.0
2-Nitrotoluene	Ave	63.47	63.20		4.98	5.00	-0.4	20.0
4-Nitrotoluene	Ave	63.47	63.20		4.98	5.00	-0.4	20.0
3-Nitrotoluene	Ave	42.38	45.80		5.40	5.00	8.1	20.0
3,5-Dinitroaniline	Ave	82.33	96.00		5.83	5.00	16.6	20.0
RDX	Ave	49.04	58.80		6.00	5.00	19.9	20.0
2,4-Dinitrotoluene	Ave	88.34	92.80		5.25	5.00	5.0	20.0
2,6-Dinitrotoluene	Ave	53.63	56.60		5.28	5.00	5.5	20.0
2-Amino-4,6-dinitrotoluene	Ave	74.40	70.00		4.70	5.00	-5.9	20.0
4-Amino-2,6-dinitrotoluene	Ave	70.31	65.40		4.65	5.00	-7.0	20.0
2,4,6-Trinitrotoluene	Ave	87.92	86.00		4.89	5.00	-2.2	20.0
HMX	Ave	65.31	65.60		5.02	5.00	0.4	20.0
Nitroglycerin	Ave	91.50	89.45		19.6	20.0	-2.2	20.0
Tetryl	Ave	118.9	120.4		5.06	5.00	1.2	20.0
PETN	Ave	146.8	135.9		18.5	20.0	-7.4	20.0
3,4-Dinitrotoluene	Ave	53.42	52.65		19.7	20.0	-1.4	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Lab Sample ID: CCVL 320-14998/36 Calibration Date: 04/26/2013 20:29

Instrument ID: LC12 Calib Start Date: 02/13/2013 17:16

GC Column: Zorbax CN ID: 4.60(mm) Calib End Date: 02/14/2013 00:54

Lab File ID: X000070.D

Analyte	RT	RT WINDOW	
		FROM	TO
Nitrobenzene	22.43	22.18	22.68
1,3-Dinitrobenzene	25.36	25.11	25.61
1,3,5-Trinitrobenzene	28.09	27.84	28.34
2-Nitrotoluene	29.65	29.40	29.90
4-Nitrotoluene	29.65	29.40	29.90
3-Nitrotoluene	30.26	30.01	30.51
3,5-Dinitroaniline	31.51	31.26	31.76
RDX	32.14	31.89	32.39
2,4-Dinitrotoluene	33.34	33.09	33.59
2,6-Dinitrotoluene	34.41	34.16	34.66
2-Amino-4,6-dinitrotoluene	36.50	36.25	36.75
4-Amino-2,6-dinitrotoluene	37.15	36.90	37.40
2,4,6-Trinitrotoluene	40.84	40.59	41.09
HMX	42.52	42.27	42.77
Nitroglycerin	45.03	44.78	45.28
Tetryl	46.72	46.47	46.97
PETN	53.23	52.98	53.48
3,4-Dinitrotoluene	38.85	38.60	39.10

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000070.D		
Lims ID:	CCVL	Client ID:	
Inject. Date:	26-Apr-2013 20:29:22	Dil. Factor:	1.0000
Sample Type:	CCVRT		
Sample ID:	320-0004083-036		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	8
Lims Batch ID:	14998	Lims Sample ID:	36
Sublist:	chrom-LC12_Conf_8330*sub4		
Method:	\\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m		
Last Update:	29-Apr-2013 08:08:07	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK023		

First Level Reviewer: noonanr Date: 29-Apr-2013 08:08:07

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
5 Nitrobenzene						
1	22.430	22.430	0.0	240	4.96	
24 1,3-Dinitrobenzene						
1	25.357	25.357	0.0	537	5.06	
27 1,3,5-Trinitrobenzene						
1	28.094	28.094	0.0	425	5.17	
16 o-Nitrotoluene						
1	29.647	29.647	0.0	316	4.98	
15 p-Nitrotoluene						
1	29.647	29.647	0.0	316	4.98	
8 m-Nitrotoluene						
1	30.257	30.257	0.0	229	5.40	
9 3,5-Dinitroaniline						
1	31.514	31.514	0.0	480	5.83	
19 RDX						
1	32.144	32.144	0.0	294	6.00	
23 2,4-Dinitrotoluene						
1	33.337	33.337	0.0	464	5.25	
12 2,6-Dinitrotoluene						
1	34.410	34.410	0.0	283	5.28	
6 2-Amino-4,6-dinitrotoluene						
1	36.497	36.497	0.0	350	4.70	
26 4-Amino-2,6-dinitrotoluene						
1	37.147	37.147	0.0	327	4.65	
$ 30 3,4-Dinitrotoluene						
1	38.847	38.847	0.0	1053	19.7	
25 2,4,6-Trinitrotoluene						
1	40.844	40.844	0.0	430	4.89	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	42.517	42.517	0.0	328	5.02	
7 Nitroglycerin						
2	45.034	45.034	0.0	1789	19.6	
20 Tetryl						
1	46.720	46.720	0.0	602	5.06	
21 PETN						
2	53.230	53.230	0.0	2717	18.5	

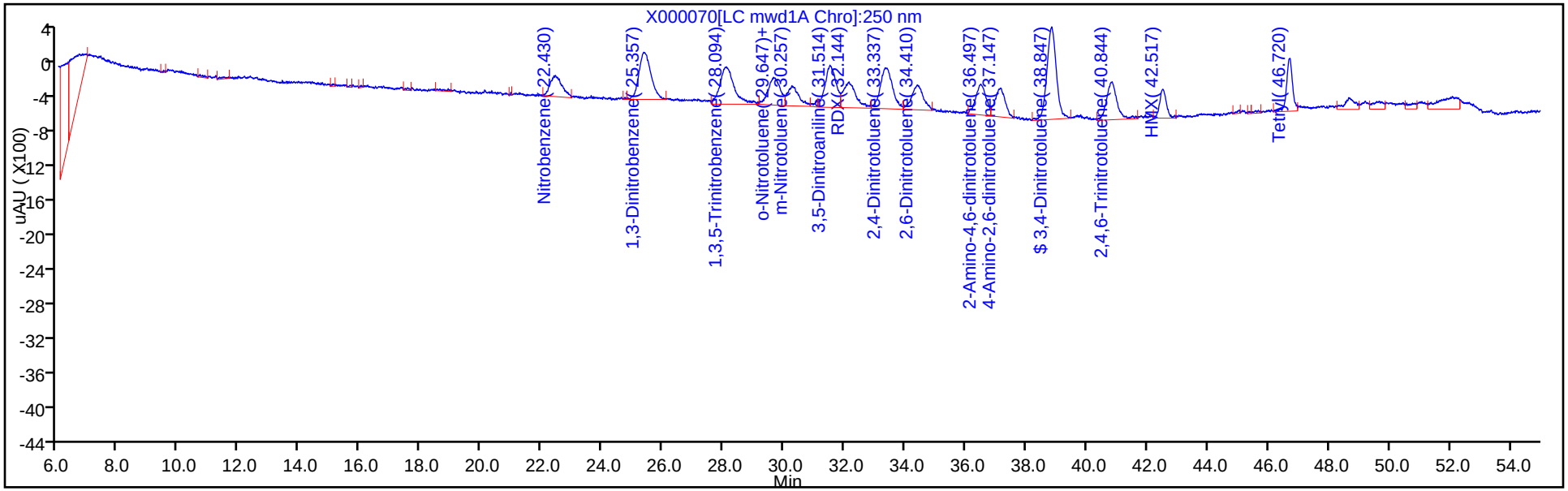
Report Date: 29-Apr-2013 08:08:08 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

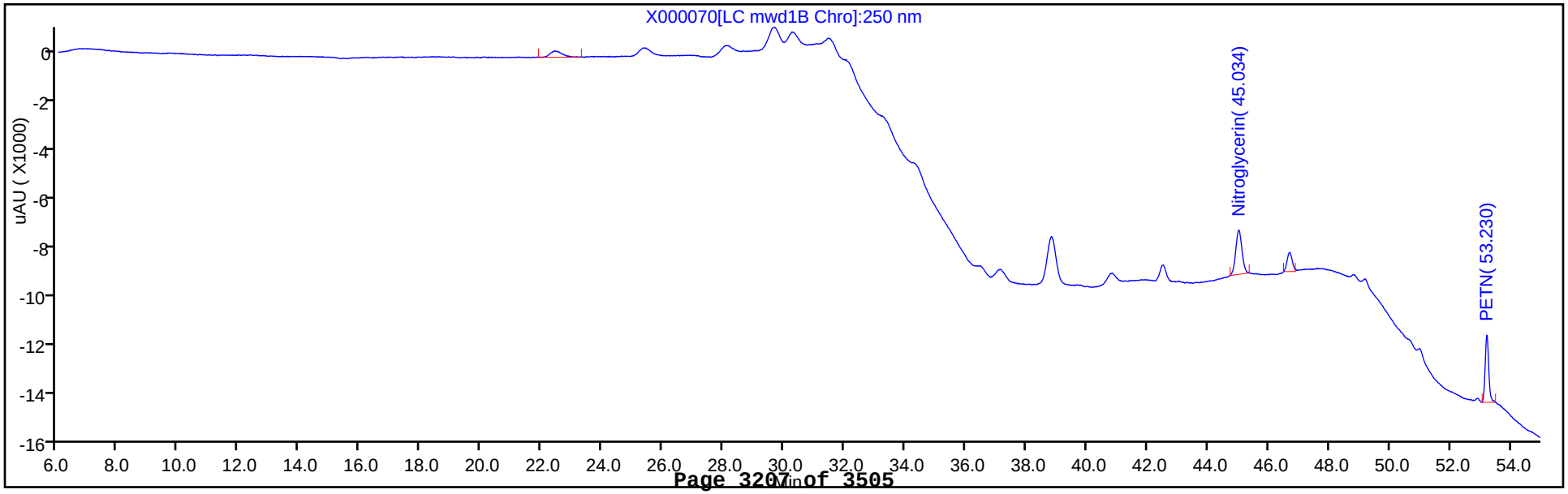
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000070.D

Injection Date:	26-Apr-2013 20:29:22	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	36
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-14065/1-A

Matrix: Solid Lab File ID: S000014.D

Analysis Method: 8330B Date Collected:

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.00(g) Date Analyzed: 04/19/2013 18:45

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	93		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000014.D		
Lims ID:	MB 320-14065/1-A	Client ID:	
Inject. Date:	19-Apr-2013 18:45:38	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0004003-001		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	21
Lims Batch ID:	14706	Lims Sample ID:	1
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	23-Apr-2013 13:35:03	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK035		

First Level Reviewer: noonanr Date: 23-Apr-2013 13:35:03

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						
1	16.363	16.271	0.092	3336	58.3	
2	16.359	16.274	0.085	6378	59.5	

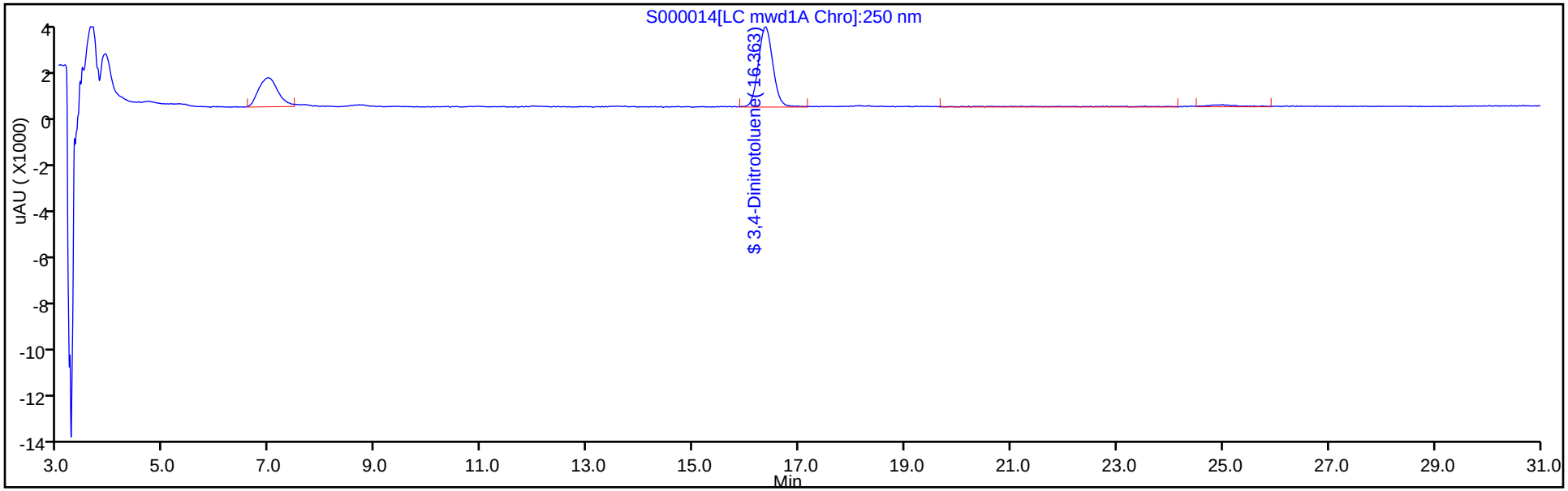
Report Date: 23-Apr-2013 13:35:04 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

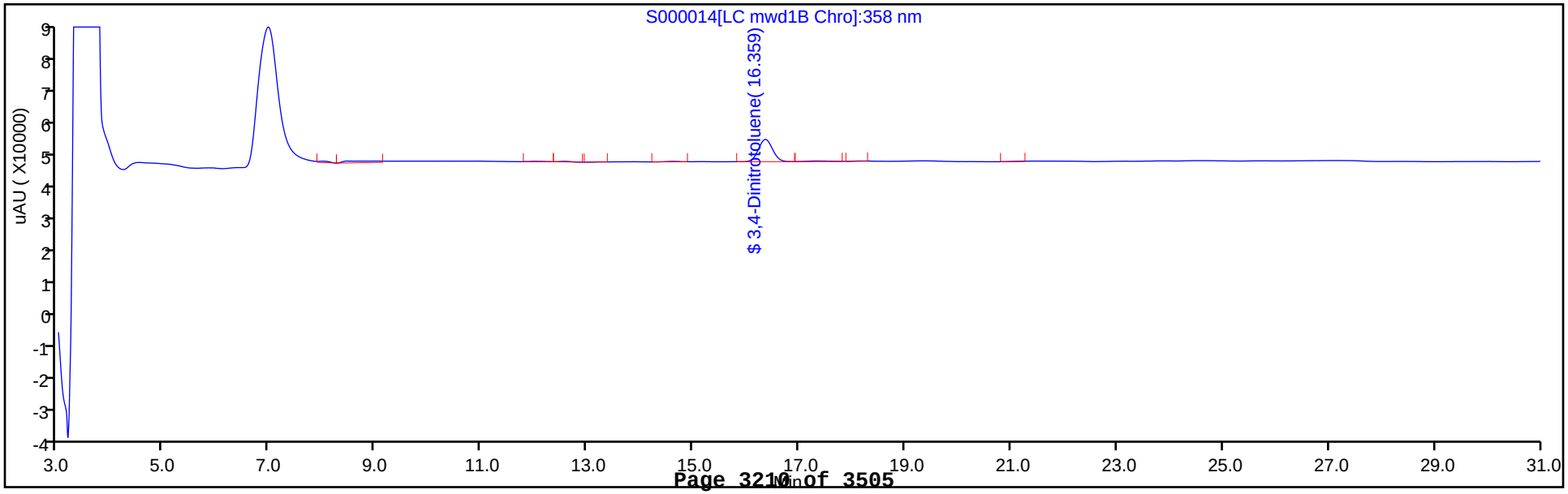
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000014.D

Injection Date:	19-Apr-2013 18:45:38	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	1
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-22663-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-14065/1-A

Matrix: Solid | Lab File ID: X000037.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 8330B | Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.00(g) | Date Analyzed: 04/25/2013 08:07

Con. Extract Vol.: 80(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Zorbax CN ID: 4.6(mm)

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

Analysis Batch No.: 14998 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.0121	J	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	121	*M Q*	78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000037.D		
Lims ID:	MB 320-14065/1-A	Client ID:	
Inject. Date:	25-Apr-2013 08:07:29	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	320-0004083-011		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC12
Injection Vol:	500.0 ul	ALS Bottle#:	37
Lims Batch ID:	14998	Lims Sample ID:	11
Method:	\\SACChrom\ChromData\LC12\20130424-4083.b\LC12_Conf_8330.m		
Last Update:	25-Apr-2013 12:21:23	Calib Date:	07-Mar-2013 16:35:05
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC12\20130307-3157.b\G000007.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm
Process Host:	XAWRK032		

First Level Reviewer: noonanr Date: 25-Apr-2013 12:21:23

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
10 2,4,6-Trinitrophenol						
2	0.183	0.094	0.089	192	0	
1	0.183	0.094	0.089	184	0	
$ 30 3,4-Dinitrotoluene						M
1	38.566	38.623	-0.057	4038	75.6	M
20 Tetryl						
1	46.486	46.586	-0.100	180	1.51	

QC Flag Legend

Review Flags
M - Manually Integrated

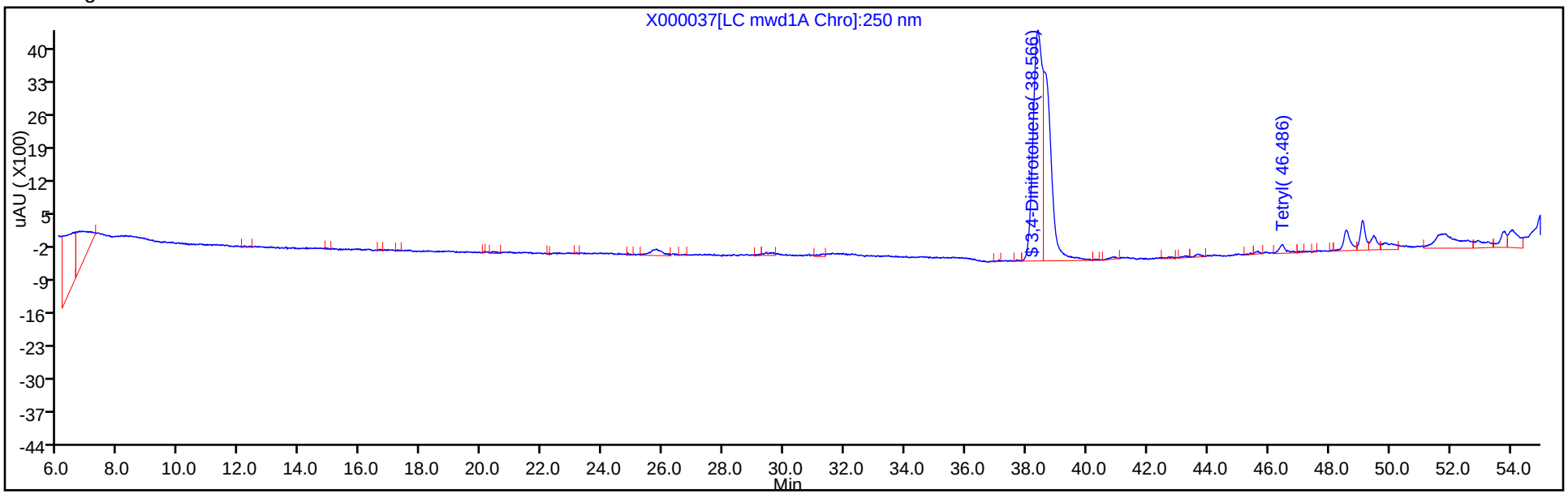
Report Date: 25-Apr-2013 12:21:23 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

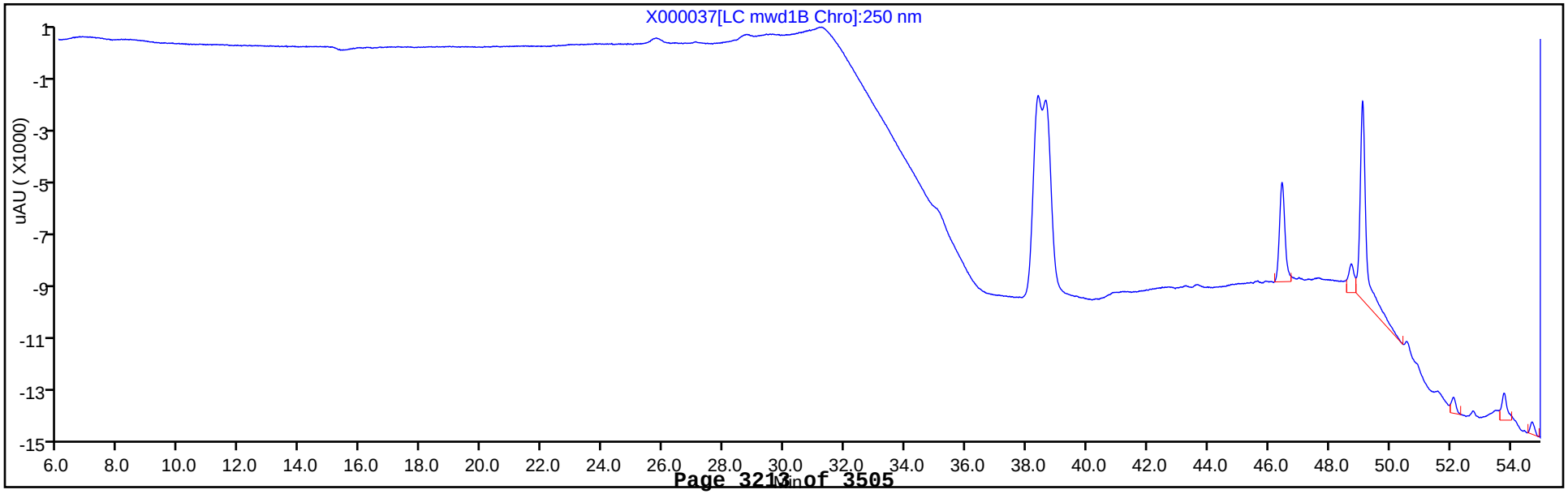
Data File: \\SACChrom\ChromData\LC12\20130424-4083.b\X000037.D

Injection Date:	25-Apr-2013 08:07:29	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

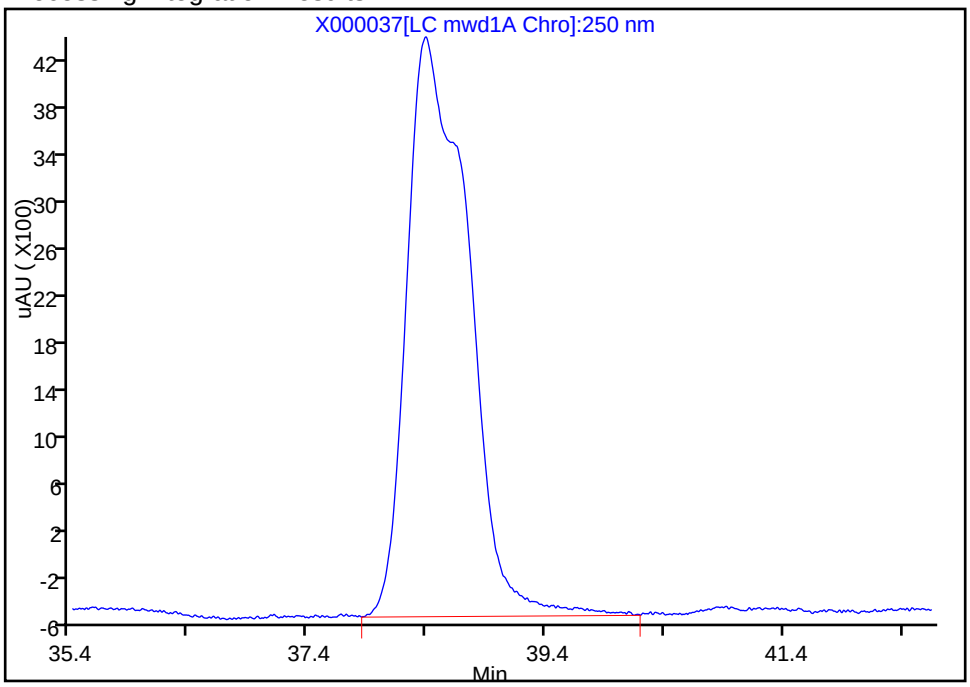
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC12\20130424-4083.b\X000037.D		
Injection Date:	25-Apr-2013 08:07:29	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC12
Lims Batch ID:	14998	Lims Sample ID:	11
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Zorbax Cyano CN	Column Dia:	4.60 mm

$ 30 3,4-Dinitrotoluene, Signal: 1, Type: quant, RT: 38.62, Det: LC mwd1A

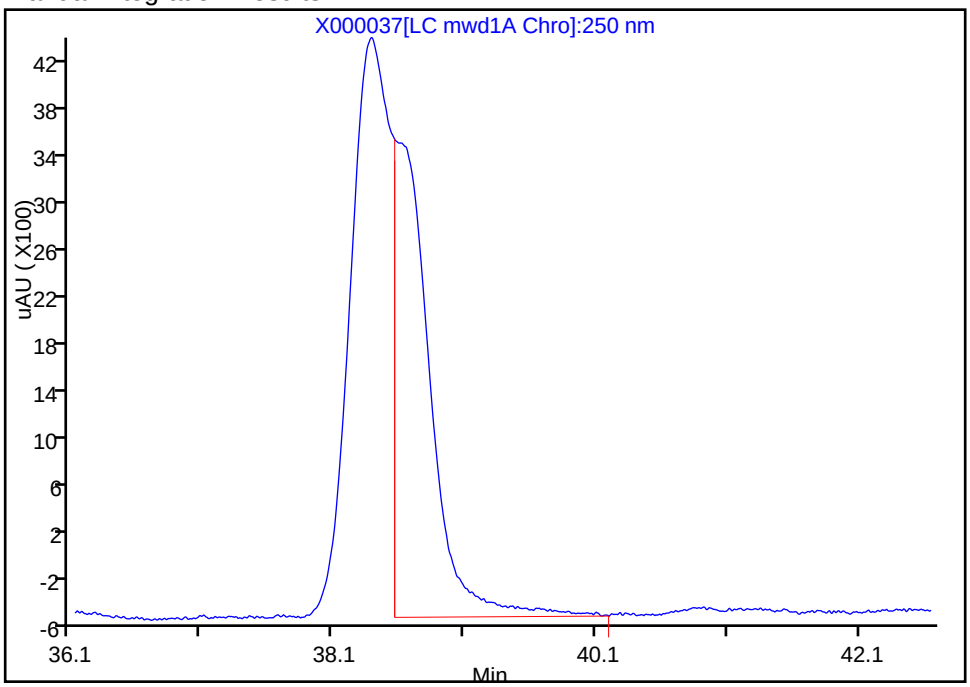
Processing Integration Results

RT: 38.39
Response: 4896
Amount: 91.655928



Manual Integration Results

RT: 38.57
Response: 4038
Amount: 75.593676



Reviewer: noonanr, 25-Apr-2013 12:21:23
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-14065/2-A

Matrix: Solid Lab File ID: S000015.D

Analysis Method: 8330B Date Collected:

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.00(g) Date Analyzed: 04/19/2013 19:29

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.486		0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.498		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.499		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.484		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.484		0.25	0.050	0.0073
2691-41-0	HMX	0.496		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.498		0.25	0.050	0.018
55-63-0	Nitroglycerin	0.942		0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.478		0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.486		0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.480		0.25	0.050	0.018
78-11-5	PETN	0.948		0.50	0.25	0.025
121-82-4	RDX	0.484		0.25	0.050	0.012
479-45-8	Tetryl	0.430		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.496		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.438		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	96		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000015.D
Lims ID: LCS 320-14065/2-A Client ID:
Inject. Date: 19-Apr-2013 19:29:15 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 320-0004003-002
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 22
Lims Batch ID: 14706 Lims Sample ID: 2

Method: \\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m
Last Update: 22-Apr-2013 09:55:39 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 22-Apr-2013 08:05:47

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.186	5.177	0.009	7772	62.0	
19 RDX						
1	7.426	7.397	0.029	5500	60.4	
27 1,3,5-Trinitrobenzene						
1	9.680	9.644	0.036	10149	62.1	
24 1,3-Dinitrobenzene						
1	12.266	12.211	0.055	10112	62.3	
9 3,5-Dinitroaniline						
1	13.006	12.941	0.065	6459	62.3	
20 Tetryl						
1	13.286	13.221	0.065	5091	53.8	
5 Nitrobenzene						
1	13.950	13.884	0.066	4440	62.2	
7 Nitroglycerin						
2	14.493	14.418	0.075	8279	117.7	
25 2,4,6-Trinitrotoluene						
1	15.366	15.291	0.075	5228	54.8	
26 4-Amino-2,6-dinitrotoluene						
1	15.943	15.838	0.105	4883	62.3	
$ 30 3,4-Dinitrotoluene						
1	16.366	16.271	0.095	3423	59.8	
2	16.366	16.274	0.092	6528	60.9	
6 2-Amino-4,6-dinitrotoluene						
1	16.910	16.801	0.109	5108	60.8	
12 2,6-Dinitrotoluene						
1	18.420	18.308	0.112	3617	60.4	
23 2,4-Dinitrotoluene						
1	19.060	18.948	0.112	5977	60.5	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
16 o-Nitrotoluene						
1	22.276	22.151	0.125	2536	59.7	
15 p-Nitrotoluene						
1	23.900	23.768	0.132	3189	60.1	
8 m-Nitrotoluene						
1	25.716	25.564	0.152	3159	60.7	
21 PETN						
2	27.630	27.491	0.139	4662	118.5	

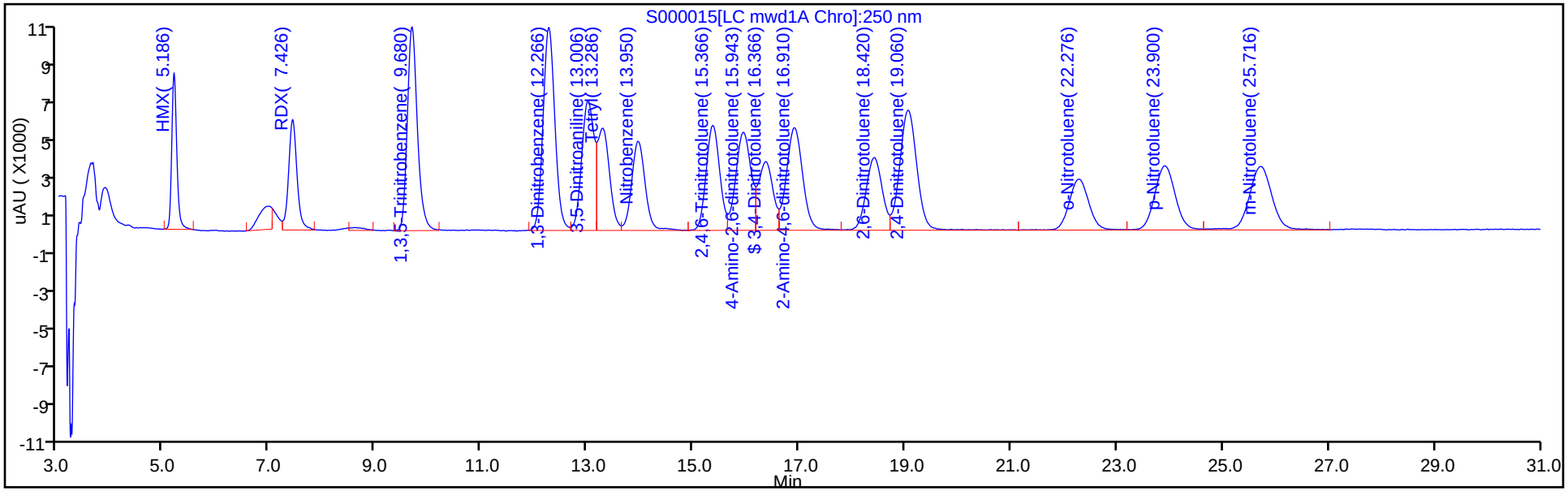
Report Date: 22-Apr-2013 09:55:46 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

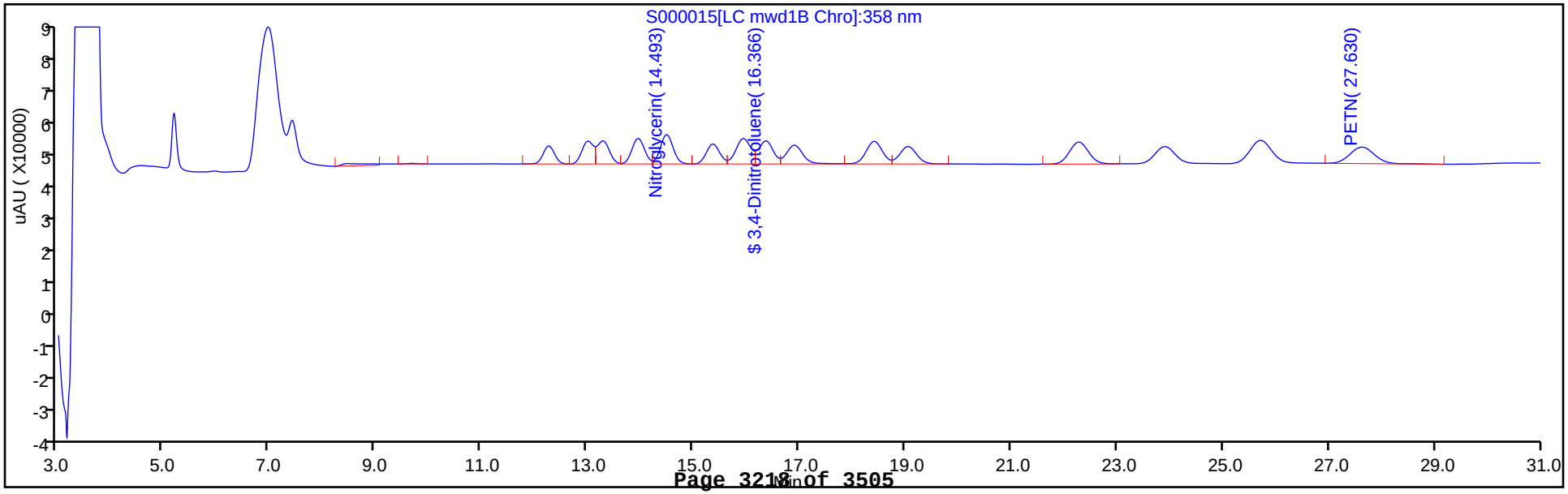
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000015.D

Injection Date:	19-Apr-2013 19:29:15	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	2
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO MS Lab Sample ID: 240-22663-4 MS

Matrix: Solid Lab File ID: S000026.D

Analysis Method: 8330B Date Collected: 04/01/2013 10:12

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.05(g) Date Analyzed: 04/20/2013 03:29

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.484		0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.499		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.505		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.487		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.503		0.25	0.050	0.0073
2691-41-0	HMX	0.488		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.506		0.25	0.050	0.018
55-63-0	Nitroglycerin	0.946		0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.480		0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.485		0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.482		0.25	0.050	0.018
78-11-5	PETN	0.967		0.50	0.25	0.025
121-82-4	RDX	0.448		0.25	0.050	0.012
479-45-8	Tetryl	0.433		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.506		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.443		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	97		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000026.D		
Lims ID:	240-22663-F-4-B MS	Client ID:	
Inject. Date:	20-Apr-2013 03:29:23	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	320-0004003-013		
Misc. Info.:			
Operator:	RN	Instrument ID:	LC10
Injection Vol:	500.0 ul	ALS Bottle#:	32
Lims Batch ID:	14706	Lims Sample ID:	13
Method:	\\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m		
Last Update:	22-Apr-2013 09:55:32	Calib Date:	19-Apr-2013 15:51:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D		
Limit Group:	LC 8330B ICAL		
Integrator:	Falcon		
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm
Process Host:	XAWRK024		
First Level Reviewer: shafern		Date:	22-Apr-2013 08:13:00

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.180	5.183	-0.003	7696	61.3	
19 RDX						
1	7.407	7.413	-0.006	5119	56.3	
27 1,3,5-Trinitrobenzene						
1	9.660	9.663	-0.003	10396	63.6	
24 1,3-Dinitrobenzene						
1	12.237	12.247	-0.010	10288	63.4	
9 3,5-Dinitroaniline						
1	12.971	12.983	-0.012	6434	62.1	
20 Tetryl						
1	13.254	13.267	-0.013	5147	54.4	
5 Nitrobenzene						
1	13.921	13.933	-0.012	4536	63.6	
7 Nitroglycerin						
2	14.451	14.470	-0.019	8359	118.9	
25 2,4,6-Trinitrotoluene						
1	15.324	15.340	-0.016	5313	55.7	
26 4-Amino-2,6-dinitrotoluene						
1	15.891	15.907	-0.016	4910	62.7	
$ 30 3,4-Dinitrotoluene						
1	16.324	16.340	-0.016	3471	60.7	
2	16.324	16.343	-0.019	6489	60.6	
6 2-Amino-4,6-dinitrotoluene						
1	16.854	16.877	-0.023	5114	60.9	
12 2,6-Dinitrotoluene						
1	18.354	18.377	-0.023	3778	63.1	
23 2,4-Dinitrotoluene						
1	19.001	19.023	-0.022	6047	61.2	

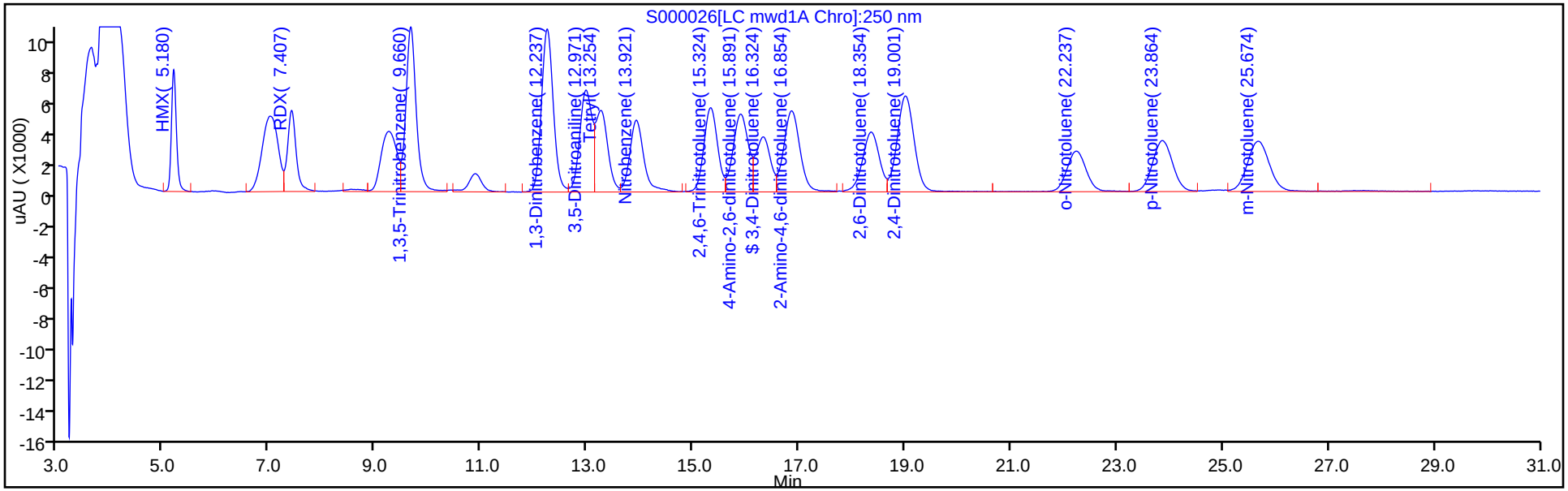
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
16 o-Nitrotoluene						
1	22.237	22.240	-0.003	2559	60.3	
15 p-Nitrotoluene						
1	23.864	23.877	-0.013	3217	60.6	
8 m-Nitrotoluene						
1	25.674	25.677	-0.003	3170	60.9	
21 PETN						
2	27.594	27.607	-0.013	4779	121.5	

Report Date: 22-Apr-2013 09:55:38 Chrom Revision: 2.1 07-Apr-2013 20:36:54

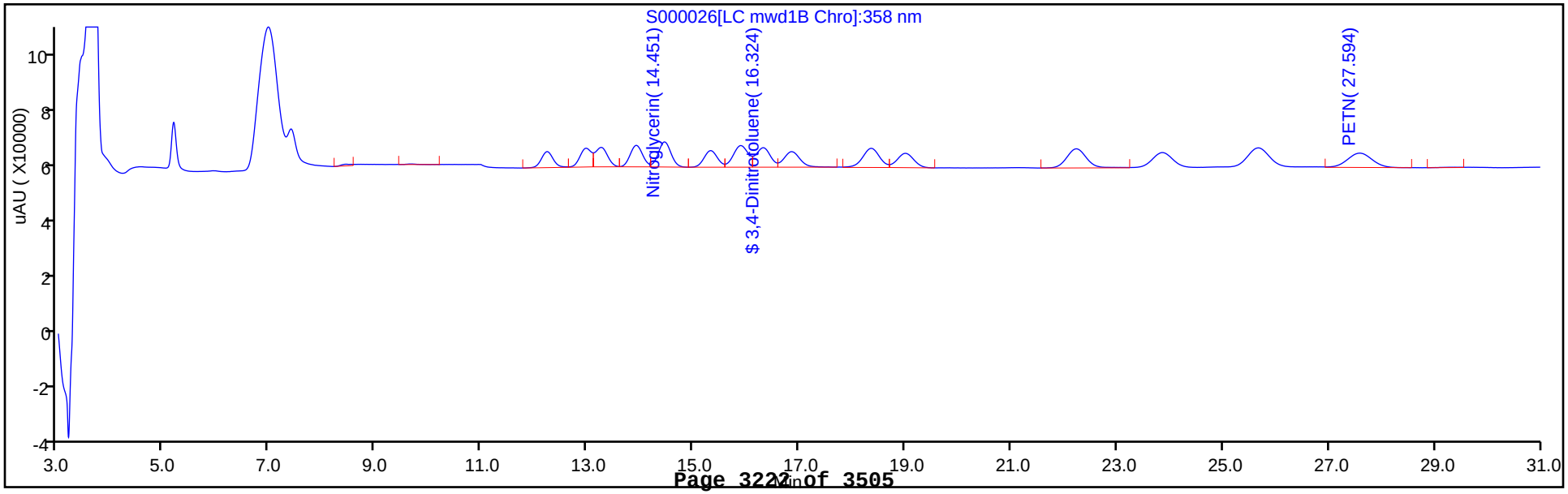
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20130419-4003.b\S000026.D		
Injection Date:	20-Apr-2013 03:29:23	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	13
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Client Sample ID: 079SB-0014M-0001-SO MSD Lab Sample ID: 240-22663-4 MSD

Matrix: Solid Lab File ID: S000027.D

Analysis Method: 8330B Date Collected: 04/01/2013 10:12

Extraction Method: 8330B Date Extracted: 04/11/2013 08:24

Sample wt/vol: 10.03(g) Date Analyzed: 04/20/2013 04:13

Con. Extract Vol.: 80(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 14706 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.486		0.25	0.050	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.500		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.505		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.489		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.502		0.25	0.050	0.0073
2691-41-0	HMX	0.491		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.504		0.25	0.050	0.018
55-63-0	Nitroglycerin	0.919		0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.479		0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.490		0.25	0.050	0.015
99-99-0	4-Nitrotoluene	0.482		0.25	0.050	0.018
78-11-5	PETN	0.972		0.50	0.25	0.025
121-82-4	RDX	0.449		0.25	0.050	0.012
479-45-8	Tetryl	0.435		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.507		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.445		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	97		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000027.D
Lims ID: 240-22663-F-4-C MSD Client ID:
Inject. Date: 20-Apr-2013 04:13:00 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 320-0004003-014
Misc. Info.:
Operator: RN Instrument ID: LC10
Injection Vol: 500.0 ul ALS Bottle#: 33
Lims Batch ID: 14706 Lims Sample ID: 14

Method: \\SACChrom\ChromData\LC10\20130419-4003.b\8330_LC10.m
Last Update: 22-Apr-2013 09:55:32 Calib Date: 19-Apr-2013 15:51:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20130419-3998.b\S000010.D
Limit Group: LC 8330B ICAL
Integrator: Falcon
Column Type: Synergi Hydro-RP C18 Column Dia: 4.60 mm
Process Host: XAWRK024

First Level Reviewer: shafern Date: 22-Apr-2013 08:13:25

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
11 HMX						
1	5.183	5.183	0.0	7722	61.6	
19 RDX						
1	7.417	7.413	0.004	5124	56.3	
27 1,3,5-Trinitrobenzene						
1	9.667	9.663	0.004	10402	63.6	
24 1,3-Dinitrobenzene						
1	12.247	12.247	0.0	10277	63.3	
9 3,5-Dinitroaniline						
1	12.980	12.983	-0.003	6420	61.9	
20 Tetryl						
1	13.267	13.267	0.0	5158	54.5	
5 Nitrobenzene						
1	13.930	13.933	-0.003	4509	63.2	
7 Nitroglycerin						
2	14.464	14.470	-0.006	8101	115.2	
25 2,4,6-Trinitrotoluene						
1	15.337	15.340	-0.003	5321	55.8	
26 4-Amino-2,6-dinitrotoluene						
1	15.904	15.907	-0.003	4915	62.7	
$ 30 3,4-Dinitrotoluene						
1	16.330	16.340	-0.010	3455	60.4	
2	16.334	16.343	-0.009	6521	60.9	
6 2-Amino-4,6-dinitrotoluene						
1	16.874	16.877	-0.003	5120	60.9	
12 2,6-Dinitrotoluene						
1	18.370	18.377	-0.007	3769	63.0	
23 2,4-Dinitrotoluene						
1	19.020	19.023	-0.003	6063	61.4	

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ng/ml	Flags
16 o-Nitrotoluene						
1	22.247	22.240	0.007	2550	60.1	
15 p-Nitrotoluene						
1	23.864	23.877	-0.013	3206	60.4	
8 m-Nitrotoluene						
1	25.664	25.677	-0.013	3193	61.4	
21 PETN						
2	27.584	27.607	-0.023	4795	121.9	

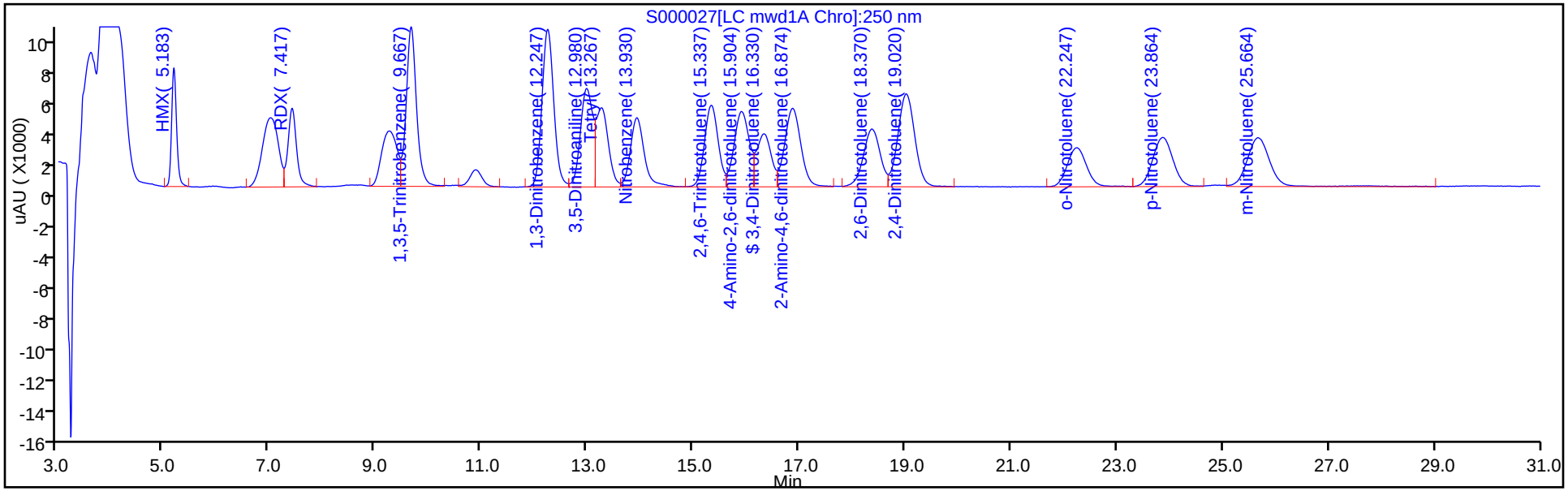
Report Date: 22-Apr-2013 09:55:37 Chrom Revision: 2.1 07-Apr-2013 20:36:54

TestAmerica Sacramento

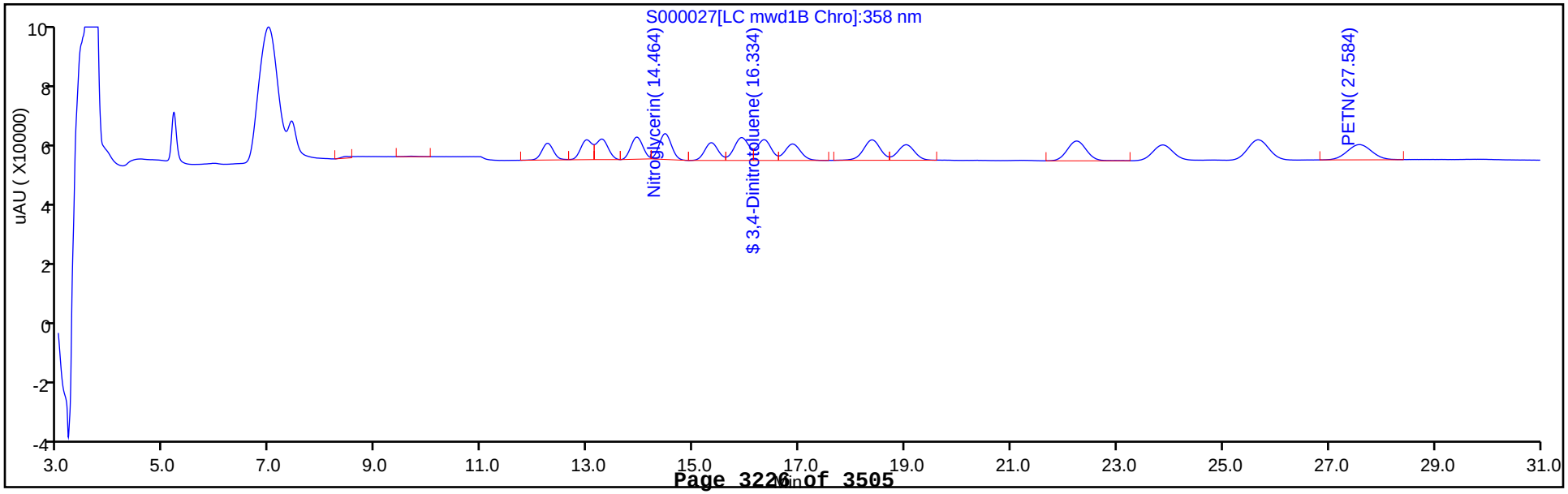
Data File: \\SACChrom\ChromData\LC10\20130419-4003.b\S000027.D

Injection Date:	20-Apr-2013 04:13:00	Limit Group:	LC 8330B ICAL
Client ID:		Instrument ID:	LC10
Lims Batch ID:	14706	Lims Sample ID:	14
Operator ID:	RN	Injection Vol:	500.0 ul
Column Type:	Synergi Hydro-RP C18	Column Dia:	4.60 mm

Y Scaling:



Y Scaling:



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: LC10 Start Date: 04/19/2013 10:01

Analysis Batch Number: 14686 End Date: 04/19/2013 18:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/19/2013 10:01	1		Synergi C18 4.6(mm)
STD01 320-14686/2 IC		04/19/2013 10:45	1	S000003.D	Synergi C18 4.6(mm)
STD02 320-14686/3 IC		04/19/2013 11:29	1	S000004.D	Synergi C18 4.6(mm)
STD03 320-14686/4 IC		04/19/2013 12:12	1	S000005.D	Synergi C18 4.6(mm)
STD04 320-14686/5 IC		04/19/2013 12:56	1	S000006.D	Synergi C18 4.6(mm)
STD05 320-14686/6 IC		04/19/2013 13:40	1	S000007.D	Synergi C18 4.6(mm)
ICRT 320-14686/7		04/19/2013 14:23	1	S000008.D	Synergi C18 4.6(mm)
STD07 320-14686/8 IC		04/19/2013 15:07	1	S000009.D	Synergi C18 4.6(mm)
STD08 320-14686/9 IC		04/19/2013 15:51	1	S000010.D	Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 16:34	1		Synergi C18 4.6(mm)
ICV 320-14686/11		04/19/2013 17:18	1	S000012.D	Synergi C18 4.6(mm)
LODV 320-14686/12		04/19/2013 18:02	1	S000013.D	Synergi C18 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: LC10 Start Date: 04/19/2013 18:45

Analysis Batch Number: 14706 End Date: 04/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MB 320-14065/1-A		04/19/2013 18:45	1	S000014.D	Synergi C18 4.6(mm)
LCS 320-14065/2-A		04/19/2013 19:29	1	S000015.D	Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 20:12	1		Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 20:56	1		Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 21:40	1		Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 22:23	1		Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 23:07	1		Synergi C18 4.6(mm)
ZZZZZ		04/19/2013 23:51	1		Synergi C18 4.6(mm)
ZZZZZ		04/20/2013 00:34	1		Synergi C18 4.6(mm)
ZZZZZ		04/20/2013 01:18	1		Synergi C18 4.6(mm)
CCV 320-14706/11 CCVRT		04/20/2013 02:02	1	S000024.D	Synergi C18 4.6(mm)
240-22663-4	079SB-0014M-0001-SO	04/20/2013 02:45	1	S000025.D	Synergi C18 4.6(mm)
240-22663-4 MS	079SB-0014M-0001-SO MS	04/20/2013 03:29	1	S000026.D	Synergi C18 4.6(mm)
240-22663-4 MSD	079SB-0014M-0001-SO MSD	04/20/2013 04:13	1	S000027.D	Synergi C18 4.6(mm)
240-22663-7	079SB-0017M-0001-SO	04/20/2013 04:56	1	S000028.D	Synergi C18 4.6(mm)
240-22663-17	073SB-0041M-0001-SO	04/20/2013 05:40	1	S000029.D	Synergi C18 4.6(mm)
240-22663-26	079SB-0026M-0001-SO	04/20/2013 06:24	1	S000030.D	Synergi C18 4.6(mm)
240-22663-28	079SB-0028M-0001-SO	04/20/2013 07:07	1	S000031.D	Synergi C18 4.6(mm)
CCV 320-14706/22 CCVRT		04/20/2013 10:02	1	S000035.D	Synergi C18 4.6(mm)
CCV 320-14706/32 CCVRT		04/20/2013 17:19	1		Synergi C18 4.6(mm)
CCVL 320-14706/33		04/20/2013 18:03	1	S000046.D	Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 00:36	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 01:20	1		Synergi C18 4.6(mm)
CCV 320-14706/44 CCVRT		04/21/2013 02:03	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 02:47	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 03:31	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 04:14	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 04:58	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 05:42	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 06:25	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 07:09	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 07:53	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 08:37	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 09:20	1		Synergi C18 4.6(mm)
CCV 320-14706/55 CCVRT		04/21/2013 10:04	1		Synergi C18 4.6(mm)
CCVL 320-14706/56		04/21/2013 10:48	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 11:32	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 12:15	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 12:59	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 13:42	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 14:26	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 15:10	1		Synergi C18 4.6(mm)

8330B

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: LC10 Start Date: 04/19/2013 18:45

Analysis Batch Number: 14706 End Date: 04/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/21/2013 15:54	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 16:38	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 17:21	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 18:05	1		Synergi C18 4.6(mm)
CCV 320-14706/67 CCVRT		04/21/2013 18:49	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 19:33	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 20:16	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 21:00	1		Synergi C18 4.6(mm)
ZZZZZ		04/21/2013 21:43	1		Synergi C18 4.6(mm)
CCV 320-14706/78 CCVRT		04/22/2013 02:49	1		Synergi C18 4.6(mm)
CCV 320-14706/89 CCVRT		04/22/2013 10:49	1		Synergi C18 4.6(mm)
CCV 320-14706/100 CCVRT		04/22/2013 18:50	1		Synergi C18 4.6(mm)
CCV 320-14706/103 CCVRT		04/22/2013 22:28	1		Synergi C18 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: LC12 Start Date: 02/13/2013 16:11

Analysis Batch Number: 10422 End Date: 02/14/2013 04:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/13/2013 16:11	1		Zorbax CN 4.6(mm)
STD01 320-10422/2 IC		02/13/2013 17:16	1	M000003.D	Zorbax CN 4.6(mm)
STD02 320-10422/3 IC		02/13/2013 18:22	1	M000004.D	Zorbax CN 4.6(mm)
STD03 320-10422/4 IC		02/13/2013 19:27	1	M000005.D	Zorbax CN 4.6(mm)
STD04 320-10422/5 IC		02/13/2013 20:32	1	M000006.D	Zorbax CN 4.6(mm)
STD05 320-10422/6 IC		02/13/2013 21:38	1	M000007.D	Zorbax CN 4.6(mm)
STD06 320-10422/7 IC		02/13/2013 22:43	1	M000008.D	Zorbax CN 4.6(mm)
STD07 320-10422/8 IC		02/13/2013 23:49	1	M000009.D	Zorbax CN 4.6(mm)
STD08 320-10422/9 IC		02/14/2013 00:54	1	M000010.D	Zorbax CN 4.6(mm)
ZZZZZ		02/14/2013 02:00	1		Zorbax CN 4.6(mm)
ICV 320-10422/11		02/14/2013 03:05	1	M000012.D	Zorbax CN 4.6(mm)
LODV 320-10422/12		02/14/2013 04:11	1	M000013.D	Zorbax CN 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: LC12 Start Date: 04/24/2013 23:18

Analysis Batch Number: 14998 End Date: 04/26/2013 20:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-14998/3 CCVRT		04/24/2013 23:18	1	X000029.D	Zorbax CN 4.6(mm)
CCVL 320-14998/4 CCVRT		04/25/2013 00:24	1	X000030.D	Zorbax CN 4.6(mm)
MB 320-14065/1-A		04/25/2013 08:07	1	X000037.D	Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 09:13	1		Zorbax CN 4.6(mm)
CCV 320-14998/13 CCVRT		04/25/2013 10:19	1	X000039.D	Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 11:25	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 12:32	1		Zorbax CN 4.6(mm)
240-22663-4	079SB-0014M-0001-SO	04/25/2013 13:38	1	X000042.D	Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 14:44	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 15:50	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 16:56	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 18:02	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 19:08	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 20:14	1		Zorbax CN 4.6(mm)
CCV 320-14998/23 CCVRT		04/25/2013 21:20	1	X000049.D	Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 22:26	1		Zorbax CN 4.6(mm)
ZZZZZ		04/25/2013 23:33	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 00:39	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 01:45	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 02:51	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 03:57	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 05:03	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 06:09	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 07:15	1		Zorbax CN 4.6(mm)
CCV 320-14998/33 CCVRT		04/26/2013 08:21	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 09:28	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 10:34	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 11:40	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 12:46	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 13:52	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 14:58	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 16:05	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 17:11	1		Zorbax CN 4.6(mm)
ZZZZZ		04/26/2013 18:17	1		Zorbax CN 4.6(mm)
CCV 320-14998/35 CCVRT		04/26/2013 19:23	1		Zorbax CN 4.6(mm)
CCVL 320-14998/36 CCVRT		04/26/2013 20:29	1	X000070.D	Zorbax CN 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14065 Batch Start Date: 04/11/13 08:24 Batch Analyst: Phan, Tuan

Batch Method: 8330B Batch End Date: 04/18/13 10:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HP34DNTSU 00012	HP8330SP 00013	HPNGPETNSP 00004	
MB 320-14065/1		8330B, 8330B		10.00 g	80 mL	100 uL			
LCS 320-14065/2		8330B, 8330B		10.00 g	80 mL	100 uL	100 uL	200 uL	
240-22663-F-4	079SB-0014M-0001-SO	8330B, 8330B	T	10.01 g	80 mL	100 uL			
240-22663-F-4 MS	079SB-0014M-0001-SO	8330B, 8330B	T	10.05 g	80 mL	100 uL	100 uL	200 uL	
240-22663-F-4 MSD	079SB-0014M-0001-SO	8330B, 8330B	T	10.03 g	80 mL	100 uL	100 uL	200 uL	
240-22663-F-7	079SB-0017M-0001-SO	8330B, 8330B	T	10.02 g	80 mL	100 uL			
240-22663-F-17	073SB-0041M-0001-SO	8330B, 8330B	T	10.02 g	80 mL	100 uL			
240-22663-F-26	079SB-0026M-0001-SO	8330B, 8330B	T	10.04 g	80 mL	100 uL			
240-22663-F-28	079SB-0028M-0001-SO	8330B, 8330B	T	10.04 g	80 mL	100 uL			

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

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14065 Batch Start Date: 04/11/13 08:24 Batch Analyst: Phan, Tuan

Batch Method: 8330B Batch End Date: 04/18/13 10:10

Batch Notes	
Balance ID	QA-070
Calcium Chloride Reagent ID	4515-027C
Person's name who did the concentration	GB
Date of Clean up	4-18-13
Analyst performed Clean Up	GB
Date Dilution Performed	4-18-13
Analytst performing Dilution	GB
Date Sample was Dried	4/10/13 240-22648-53,13 240-22663-7,26,28
Filter Lot #	R2SA72748
Filter Type	.45um MILLIPORE
Date Sample was Ground	4/11/13
Minumum Temperature	10
Person's name who witnessed reagent drop	GB
Blank Sand Lot #	FISHER 120571
Solvent Lot #	4515-027D
Solvent Name	0.1% HOAC/ACN
Sonication Start Time	4/11/13 / 11:40
Sonication Stop Time	4/12/13 / 05:40
SOP Number	WS-LC-0009
Maximum Temperature	20

Basis	Basis Description
T	Total/NA

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

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0010M-0001-SO	240-22663-1
079SB-0011M-0001-SO	240-22663-2
079SB-0013M-0001-SO	240-22663-3
079SB-0014M-0001-SO	240-22663-4
079SB-0015M-0001,0002-SO	240-22663-5
079SB-0016M-0001-SO	240-22663-6
079SB-0017M-0001-SO	240-22663-7
079SB-0020M-0001-SO	240-22663-8
079SB-0019M-0001-SO	240-22663-9
073SS-0035M-0001-SO	240-22663-11
073SB-0036M-0001-SO	240-22663-12
073SB-0037M-0001-SO	240-22663-13
073SB-0038M-0001-SO	240-22663-14
073SB-0039M-0001-SO	240-22663-15
073SB-0040M-0001,0002-SO	240-22663-16
073SB-0041M-0001-SO	240-22663-17
073SB-0042M-0001-SO	240-22663-18
073SB-0043M-0001-SO	240-22663-19
073SB-0044-0001-SO	240-22663-20
079SB-0021M-0001-SO	240-22663-21
079SB-0022M-0001-SO	240-22663-22
079SB-0023M-0001-SO	240-22663-23
079SB-0024M-0001,0002-SO	240-22663-24
079SB-0025M-0001-SO	240-22663-25
079SB-0026M-0001-SO	240-22663-26
079SB-0027M-0001-SO	240-22663-27
079SB-0028M-0001-SO	240-22663-28
079SB-0029-0001-SO	240-22663-29
068SB-0017M-0001-SO	240-22663-31
068SB-0018M-0001-SO	240-22663-32
068SB-0019M-0001-SO	240-22663-33
068SB-0022M-0001-SO	240-22663-34
068SB-0020M-0001-SO	240-22663-35
068SB-0023M-0001-SO	240-22663-36
068SB-0024M-0001-SO	240-22663-37
068SB-0025M-0001-SO	240-22663-38
068SB-0032-0001-SO	240-22663-39
068SB-0027M-0001-SO	240-22663-40
068SB-0028M-0001-SO	240-22663-41
068SB-0030M-0001-SO	240-22663-43
068SB-0031M-0001-SO	240-22663-44

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22663-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0010M-0001-SO	240-22663-1
079SB-0011M-0001-SO	240-22663-2
079SB-0013M-0001-SO	240-22663-3
079SB-0014M-0001-SO	240-22663-4
079SB-0015M-0001,0002-SO	240-22663-5
079SB-0016M-0001-SO	240-22663-6
079SB-0017M-0001-SO	240-22663-7
079SB-0020M-0001-SO	240-22663-8
079SB-0019M-0001-SO	240-22663-9
073SS-0035M-0001-SO	240-22663-11
073SB-0036M-0001-SO	240-22663-12
073SB-0037M-0001-SO	240-22663-13
073SB-0038M-0001-SO	240-22663-14
073SB-0039M-0001-SO	240-22663-15
073SB-0040M-0001,0002-SO	240-22663-16
073SB-0041M-0001-SO	240-22663-17
073SB-0042M-0001-SO	240-22663-18
073SB-0043M-0001-SO	240-22663-19
073SB-0044-0001-SO	240-22663-20
079SB-0021M-0001-SO	240-22663-21
079SB-0022M-0001-SO	240-22663-22
079SB-0023M-0001-SO	240-22663-23
079SB-0024M-0001,0002-SO	240-22663-24
079SB-0025M-0001-SO	240-22663-25
079SB-0026M-0001-SO	240-22663-26
079SB-0027M-0001-SO	240-22663-27
079SB-0028M-0001-SO	240-22663-28
079SB-0029-0001-SO	240-22663-29
068SB-0017M-0001-SO	240-22663-31
068SB-0018M-0001-SO	240-22663-32
068SB-0019M-0001-SO	240-22663-33
068SB-0022M-0001-SO	240-22663-34
068SB-0020M-0001-SO	240-22663-35
068SB-0023M-0001-SO	240-22663-36
068SB-0024M-0001-SO	240-22663-37
068SB-0025M-0001-SO	240-22663-38
068SB-0032-0001-SO	240-22663-39
068SB-0027M-0001-SO	240-22663-40
068SB-0028M-0001-SO	240-22663-41
068SB-0030M-0001-SO	240-22663-43
068SB-0031M-0001-SO	240-22663-44

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0010M-0001-SO
Lab Sample ID: 240-22663-1
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:07
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.019	0.091	0.030	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0011M-0001-SO
Lab Sample ID: 240-22663-2
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:07
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.022	0.095	0.031	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0013M-0001-SO
Lab Sample ID: 240-22663-3
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:09
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.014	0.095	0.031	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0014M-0001-SO
Lab Sample ID: 240-22663-4
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:12
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.032	0.097	0.032	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0015M-0001,0002-SO
Lab Sample ID: 240-22663-5
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:01
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.016	0.10	0.033	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0016M-0001-SO
Lab Sample ID: 240-22663-6
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:15
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.015	0.098	0.032	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0017M-0001-SO
Lab Sample ID: 240-22663-7
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.014	0.087	0.029	0.012	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0020M-0001-SO
Lab Sample ID: 240-22663-8
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.024	0.11	0.036	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0019M-0001-SO
Lab Sample ID: 240-22663-9
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:45
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.021	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SS-0035M-0001-SO
Lab Sample ID: 240-22663-11
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:20
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.027	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0036M-0001-SO
Lab Sample ID: 240-22663-12
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:45
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0037M-0001-SO
Lab Sample ID: 240-22663-13
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:50
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0038M-0001-SO
Lab Sample ID: 240-22663-14
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 12:40
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0039M-0001-SO
Lab Sample ID: 240-22663-15
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 12:40
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.020	0.098	0.032	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0040M-0001,0002-SO
Lab Sample ID: 240-22663-16
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 12:53
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.033	0.10	0.033	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0041M-0001-SO
Lab Sample ID: 240-22663-17
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:03
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.016	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0042M-0001-SO
Lab Sample ID: 240-22663-18
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:51
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.033	0.10	0.033	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0043M-0001-SO
Lab Sample ID: 240-22663-19
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.015	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0044-0001-SO
Lab Sample ID: 240-22663-20
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:29
Reporting Basis: DRY
Date Received: 04/02/2013 08:00
% Solids: 90.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.027	0.12	0.041	0.017	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0021M-0001-SO
Lab Sample ID: 240-22663-21
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:21
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.029	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0022M-0001-SO
Lab Sample ID: 240-22663-22
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.095	0.031	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0023M-0001-SO
Lab Sample ID: 240-22663-23
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.087	0.029	0.012	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0024M-0001,0002-SO
Lab Sample ID: 240-22663-24
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:29
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.025	0.10	0.033	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0025M-0001-SO
Lab Sample ID: 240-22663-25
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:23
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.022	0.10	0.034	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0026M-0001-SO
Lab Sample ID: 240-22663-26
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:37
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.018	0.090	0.030	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0027M-0001-SO
Lab Sample ID: 240-22663-27
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:12
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.025	0.092	0.030	0.013	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0028M-0001-SO
Lab Sample ID: 240-22663-28
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:43
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.026	0.097	0.032	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0029-0001-SO
Lab Sample ID: 240-22663-29
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:55
Reporting Basis: DRY
Date Received: 04/02/2013 08:00
% Solids: 94.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.038	0.11	0.038	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0017M-0001-SO
Lab Sample ID: 240-22663-31
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:42
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.041	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0018M-0001-SO
Lab Sample ID: 240-22663-32
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:43
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.036	0.11	0.036	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0019M-0001-SO
Lab Sample ID: 240-22663-33
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:21
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.021	0.10	0.033	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0022M-0001-SO
Lab Sample ID: 240-22663-34
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:21
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.019	0.10	0.034	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0020M-0001-SO
Lab Sample ID: 240-22663-35
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:50
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.037	0.11	0.037	0.016	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0023M-0001-SO
Lab Sample ID: 240-22663-36
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:40
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.040	0.11	0.037	0.016	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0024M-0001-SO
Lab Sample ID: 240-22663-37
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:20
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.025	0.10	0.033	0.014	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0025M-0001-SO
Lab Sample ID: 240-22663-38
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:45
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.050	0.11	0.035	0.015	mg/Kg	J		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0032-0001-SO
Lab Sample ID: 240-22663-39
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:30
Reporting Basis: DRY
Date Received: 04/02/2013 08:00
% Solids: 87.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.034	0.10	0.034	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0027M-0001-SO
Lab Sample ID: 240-22663-40
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:00
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.032	0.098	0.032	0.014	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0028M-0001-SO
Lab Sample ID: 240-22663-41
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:02
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.031	0.094	0.031	0.013	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0030M-0001-SO
Lab Sample ID: 240-22663-43
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:05
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.035	0.11	0.035	0.015	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0031M-0001-SO
Lab Sample ID: 240-22663-44
Lab Name: TestAmerica Canton
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:44
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Mercury	0.031	0.094	0.031	0.013	mg/Kg	U		1	7471/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0010M-0001-SO
Lab Sample ID: 240-22663-1
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:07
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.085	0.026	0.0097	mg/Kg	J		1	6020/DOD
Aluminum	8700	2.6	0.51	0.24	mg/Kg			1	6020/DOD
Arsenic	7.3	0.085	0.043	0.015	mg/Kg			1	6020/DOD
Barium	44	0.85	0.017	0.0091	mg/Kg		Q	1	6020/DOD
Beryllium	0.25	0.085	0.0085	0.0064	mg/Kg		Q	1	6020/DOD
Calcium	260	8.5	2.1	1.1	mg/Kg			1	6020/DOD
Cadmium	0.078	0.085	0.026	0.011	mg/Kg	J	Q	1	6020/DOD
Chromium	12	0.17	0.034	0.019	mg/Kg			1	6020/DOD
Cobalt	4.0	0.043	0.0085	0.0021	mg/Kg		Q	1	6020/DOD
Copper	12	0.17	0.051	0.028	mg/Kg		Q	1	6020/DOD
Iron	19000	4.3	1.7	0.92	mg/Kg			1	6020/DOD
Magnesium	1500	8.5	1.7	0.92	mg/Kg			1	6020/DOD
Manganese	150	0.43	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	27	8.5	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	10	0.085	0.026	0.0097	mg/Kg			1	6020/DOD
Lead	13	0.085	0.026	0.013	mg/Kg		Q	1	6020/DOD
Antimony	0.085	0.17	0.085	0.039	mg/Kg	U		1	6020/DOD
Thallium	0.14	0.085	0.017	0.0087	mg/Kg			1	6020/DOD
Vanadium	17	0.085	0.051	0.026	mg/Kg			1	6020/DOD
Zinc	33	0.43	0.17	0.055	mg/Kg		Q	1	6020/DOD
Potassium	720	8.5	5.1	2.7	mg/Kg			1	6020/DOD
Selenium	0.24	0.43	0.085	0.044	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0011M-0001-SO
Lab Sample ID: 240-22663-2
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:07
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.028	0.094	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7800	2.8	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	7.1	0.094	0.047	0.017	mg/Kg			1	6020/DOD
Barium	43	0.94	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.22	0.094	0.0094	0.0071	mg/Kg		Q	1	6020/DOD
Calcium	400	9.4	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.073	0.094	0.028	0.012	mg/Kg	J	Q	1	6020/DOD
Chromium	10	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	3.3	0.047	0.0094	0.0023	mg/Kg		Q	1	6020/DOD
Copper	12	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	17000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1200	9.4	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	110	0.47	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	32	9.4	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	8.1	0.094	0.028	0.011	mg/Kg			1	6020/DOD
Lead	14	0.094	0.028	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.094	0.19	0.094	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.16	0.094	0.019	0.0096	mg/Kg			1	6020/DOD
Vanadium	15	0.094	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	28	0.47	0.19	0.061	mg/Kg		Q	1	6020/DOD
Potassium	660	9.4	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.25	0.47	0.094	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0013M-0001-SO
Lab Sample ID: 240-22663-3
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:09
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.092	0.028	0.010	mg/Kg	J		1	6020/DOD
Aluminum	13000	2.8	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	10	0.092	0.046	0.017	mg/Kg			1	6020/DOD
Barium	78	0.92	0.018	0.0098	mg/Kg		Q	1	6020/DOD
Beryllium	0.64	0.092	0.0092	0.0069	mg/Kg		Q	1	6020/DOD
Calcium	1400	9.2	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.28	0.092	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	17	0.18	0.037	0.020	mg/Kg			1	6020/DOD
Cobalt	12	0.046	0.0092	0.0022	mg/Kg		Q	1	6020/DOD
Copper	21	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	24000	4.6	1.8	0.99	mg/Kg			1	6020/DOD
Magnesium	3700	9.2	1.8	0.99	mg/Kg			1	6020/DOD
Manganese	290	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	50	9.2	4.6	2.4	mg/Kg			1	6020/DOD
Nickel	27	0.092	0.028	0.010	mg/Kg			1	6020/DOD
Lead	13	0.092	0.028	0.014	mg/Kg		Q	1	6020/DOD
Antimony	0.092	0.18	0.092	0.042	mg/Kg	U		1	6020/DOD
Thallium	0.18	0.092	0.018	0.0094	mg/Kg			1	6020/DOD
Vanadium	19	0.092	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	59	0.46	0.18	0.059	mg/Kg		Q	1	6020/DOD
Potassium	1300	9.2	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.33	0.46	0.092	0.047	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0014M-0001-SO
Lab Sample ID: 240-22663-4
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:12
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.086	0.026	0.0098	mg/Kg	J		1	6020/DOD
Aluminum	9800	2.6	0.52	0.25	mg/Kg			1	6020/DOD
Arsenic	11	0.086	0.043	0.016	mg/Kg			1	6020/DOD
Barium	54	0.86	0.017	0.0092	mg/Kg		Q	1	6020/DOD
Beryllium	0.56	0.086	0.0086	0.0065	mg/Kg		Q	1	6020/DOD
Calcium	3000	8.6	2.2	1.1	mg/Kg			1	6020/DOD
Cadmium	0.23	0.086	0.026	0.011	mg/Kg		Q	1	6020/DOD
Chromium	15	0.17	0.034	0.019	mg/Kg			1	6020/DOD
Cobalt	14	0.043	0.0086	0.0021	mg/Kg		Q	1	6020/DOD
Copper	20	0.17	0.052	0.028	mg/Kg		Q	1	6020/DOD
Iron	23000	4.3	1.7	0.93	mg/Kg			1	6020/DOD
Magnesium	3400	8.6	1.7	0.93	mg/Kg			1	6020/DOD
Manganese	300	0.43	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	46	8.6	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	28	0.086	0.026	0.0097	mg/Kg			1	6020/DOD
Lead	11	0.086	0.026	0.013	mg/Kg		Q	1	6020/DOD
Antimony	0.063	0.17	0.086	0.040	mg/Kg	J		1	6020/DOD
Thallium	0.14	0.086	0.017	0.0088	mg/Kg			1	6020/DOD
Vanadium	15	0.086	0.052	0.026	mg/Kg			1	6020/DOD
Zinc	76	0.43	0.17	0.056	mg/Kg		Q	1	6020/DOD
Potassium	1100	8.6	5.2	2.7	mg/Kg			1	6020/DOD
Selenium	0.29	0.43	0.086	0.044	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0015M-0001,0002-SO
Lab Sample ID: 240-22663-5
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:01
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.090	0.027	0.010	mg/Kg	J		1	6020/DOD
Aluminum	13000	2.7	0.54	0.26	mg/Kg		J	1	6020/DOD
Arsenic	10	0.090	0.045	0.016	mg/Kg			1	6020/DOD
Barium	68	0.90	0.018	0.0096	mg/Kg		Q	1	6020/DOD
Beryllium	0.58	0.090	0.0090	0.0068	mg/Kg		Q	1	6020/DOD
Calcium	590	9.0	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.20	0.090	0.027	0.012	mg/Kg		Q	1	6020/DOD
Chromium	17	0.18	0.036	0.020	mg/Kg			1	6020/DOD
Cobalt	11	0.045	0.0090	0.0022	mg/Kg		Q	1	6020/DOD
Copper	20	0.18	0.054	0.030	mg/Kg		Q	1	6020/DOD
Iron	26000	4.5	1.8	0.97	mg/Kg		J	1	6020/DOD
Magnesium	3200	9.0	1.8	0.97	mg/Kg			1	6020/DOD
Manganese	260	0.45	0.027	0.014	mg/Kg		Q J	1	6020/DOD
Sodium	40	9.0	4.5	2.4	mg/Kg			1	6020/DOD
Nickel	26	0.090	0.027	0.010	mg/Kg			1	6020/DOD
Lead	12	0.090	0.027	0.014	mg/Kg		Q	1	6020/DOD
Antimony	0.090	0.18	0.090	0.041	mg/Kg	U	J	1	6020/DOD
Thallium	0.17	0.090	0.018	0.0092	mg/Kg			1	6020/DOD
Vanadium	19	0.090	0.054	0.027	mg/Kg			1	6020/DOD
Zinc	74	0.45	0.18	0.058	mg/Kg		Q	1	6020/DOD
Potassium	1200	9.0	5.4	2.8	mg/Kg			1	6020/DOD
Selenium	0.28	0.45	0.090	0.046	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0016M-0001-SO
Lab Sample ID: 240-22663-6
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:15
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.027	0.084	0.025	0.0096	mg/Kg	J		1	6020/DOD
Aluminum	12000	2.5	0.50	0.24	mg/Kg			1	6020/DOD
Arsenic	12	0.084	0.042	0.015	mg/Kg			1	6020/DOD
Barium	77	0.84	0.017	0.0090	mg/Kg		Q	1	6020/DOD
Beryllium	0.55	0.084	0.0084	0.0063	mg/Kg		Q	1	6020/DOD
Calcium	970	8.4	2.1	1.1	mg/Kg			1	6020/DOD
Cadmium	0.16	0.084	0.025	0.011	mg/Kg		Q	1	6020/DOD
Chromium	16	0.17	0.034	0.019	mg/Kg			1	6020/DOD
Cobalt	11	0.042	0.0084	0.0020	mg/Kg		Q	1	6020/DOD
Copper	18	0.17	0.050	0.028	mg/Kg		Q	1	6020/DOD
Iron	27000	4.2	1.7	0.91	mg/Kg			1	6020/DOD
Magnesium	3300	8.4	1.7	0.91	mg/Kg			1	6020/DOD
Manganese	380	0.42	0.025	0.013	mg/Kg		Q	1	6020/DOD
Sodium	45	8.4	4.2	2.2	mg/Kg			1	6020/DOD
Nickel	28	0.084	0.025	0.0095	mg/Kg			1	6020/DOD
Lead	14	0.084	0.025	0.013	mg/Kg		Q	1	6020/DOD
Antimony	0.084	0.17	0.084	0.039	mg/Kg	U		1	6020/DOD
Thallium	0.17	0.084	0.017	0.0086	mg/Kg			1	6020/DOD
Vanadium	18	0.084	0.050	0.025	mg/Kg			1	6020/DOD
Zinc	51	0.42	0.17	0.054	mg/Kg		Q	1	6020/DOD
Potassium	1100	8.4	5.0	2.7	mg/Kg			1	6020/DOD
Selenium	0.25	0.42	0.084	0.043	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0017M-0001-SO
Lab Sample ID: 240-22663-7
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.099	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	14000	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	79	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.62	0.099	0.0099	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	1400	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.21	0.099	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	18	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	12	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	27	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	27000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	4000	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	300	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	52	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	30	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	13	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.18	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	20	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	60	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1400	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.27	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0020M-0001-SO
Lab Sample ID: 240-22663-8
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.093	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	14000	2.8	0.56	0.26	mg/Kg			1	6020/DOD
Arsenic	11	0.093	0.046	0.017	mg/Kg			1	6020/DOD
Barium	71	0.93	0.019	0.0099	mg/Kg		Q	1	6020/DOD
Beryllium	0.72	0.093	0.0093	0.0069	mg/Kg		Q	1	6020/DOD
Calcium	780	9.3	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.22	0.093	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	18	0.19	0.037	0.021	mg/Kg			1	6020/DOD
Cobalt	15	0.046	0.0093	0.0022	mg/Kg		Q	1	6020/DOD
Copper	28	0.19	0.056	0.031	mg/Kg		Q	1	6020/DOD
Iron	26000	4.6	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	3500	9.3	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	270	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	42	9.3	4.6	2.5	mg/Kg			1	6020/DOD
Nickel	27	0.093	0.028	0.010	mg/Kg			1	6020/DOD
Lead	13	0.093	0.028	0.014	mg/Kg		Q	1	6020/DOD
Antimony	0.093	0.19	0.093	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.18	0.093	0.019	0.0094	mg/Kg			1	6020/DOD
Vanadium	21	0.093	0.056	0.028	mg/Kg			1	6020/DOD
Zinc	62	0.46	0.19	0.060	mg/Kg		Q	1	6020/DOD
Potassium	1200	9.3	5.6	2.9	mg/Kg			1	6020/DOD
Selenium	0.35	0.46	0.093	0.047	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0019M-0001-SO
Lab Sample ID: 240-22663-9
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:45
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.034	0.093	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	13000	2.8	0.56	0.27	mg/Kg			1	6020/DOD
Arsenic	9.9	0.093	0.047	0.017	mg/Kg			1	6020/DOD
Barium	76	0.93	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.49	0.093	0.0093	0.0070	mg/Kg		Q	1	6020/DOD
Calcium	690	9.3	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.14	0.093	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	16	0.19	0.037	0.021	mg/Kg			1	6020/DOD
Cobalt	11	0.047	0.0093	0.0022	mg/Kg		Q	1	6020/DOD
Copper	16	0.19	0.056	0.031	mg/Kg		Q	1	6020/DOD
Iron	26000	4.7	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2600	9.3	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	280	0.47	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	42	9.3	4.7	2.5	mg/Kg			1	6020/DOD
Nickel	20	0.093	0.028	0.011	mg/Kg			1	6020/DOD
Lead	13	0.093	0.028	0.014	mg/Kg		Q	1	6020/DOD
Antimony	0.093	0.19	0.093	0.043	mg/Kg	U		1	6020/DOD
Thallium	0.17	0.093	0.019	0.0095	mg/Kg			1	6020/DOD
Vanadium	23	0.093	0.056	0.028	mg/Kg			1	6020/DOD
Zinc	45	0.47	0.19	0.061	mg/Kg		Q	1	6020/DOD
Potassium	1000	9.3	5.6	2.9	mg/Kg			1	6020/DOD
Selenium	0.33	0.47	0.093	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SS-0035M-0001-SO
Lab Sample ID: 240-22663-11
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:20
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.092	0.028	0.010	mg/Kg	J		1	6020/DOD
Aluminum	11000	2.8	0.55	0.26	mg/Kg			1	6020/DOD
Arsenic	14	0.092	0.046	0.017	mg/Kg			1	6020/DOD
Barium	57	0.92	0.018	0.0098	mg/Kg		Q	1	6020/DOD
Beryllium	0.52	0.092	0.0092	0.0069	mg/Kg		Q	1	6020/DOD
Calcium	720	9.2	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.18	0.092	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	14	0.18	0.037	0.020	mg/Kg			1	6020/DOD
Cobalt	11	0.046	0.0092	0.0022	mg/Kg		Q	1	6020/DOD
Copper	19	0.18	0.055	0.030	mg/Kg		Q	1	6020/DOD
Iron	24000	4.6	1.8	0.99	mg/Kg			1	6020/DOD
Magnesium	2700	9.2	1.8	0.99	mg/Kg			1	6020/DOD
Manganese	340	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	36	9.2	4.6	2.4	mg/Kg			1	6020/DOD
Nickel	22	0.092	0.028	0.010	mg/Kg			1	6020/DOD
Lead	15	0.092	0.028	0.014	mg/Kg		Q	1	6020/DOD
Antimony	0.35	0.18	0.092	0.042	mg/Kg			1	6020/DOD
Thallium	0.16	0.092	0.018	0.0094	mg/Kg			1	6020/DOD
Vanadium	18	0.092	0.055	0.027	mg/Kg			1	6020/DOD
Zinc	54	0.46	0.18	0.059	mg/Kg		Q	1	6020/DOD
Potassium	990	9.2	5.5	2.9	mg/Kg			1	6020/DOD
Selenium	0.36	0.46	0.092	0.047	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0036M-0001-SO
Lab Sample ID: 240-22663-12
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:45
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.024	0.087	0.026	0.0099	mg/Kg	J		1	6020/DOD
Aluminum	7500	2.6	0.52	0.25	mg/Kg			1	6020/DOD
Arsenic	13	0.087	0.043	0.016	mg/Kg			1	6020/DOD
Barium	36	0.87	0.017	0.0093	mg/Kg		Q	1	6020/DOD
Beryllium	0.38	0.087	0.0087	0.0065	mg/Kg		Q	1	6020/DOD
Calcium	1700	8.7	2.2	1.2	mg/Kg			1	6020/DOD
Cadmium	0.17	0.087	0.026	0.011	mg/Kg		Q	1	6020/DOD
Chromium	11	0.17	0.035	0.019	mg/Kg			1	6020/DOD
Cobalt	9.2	0.043	0.0087	0.0021	mg/Kg		Q	1	6020/DOD
Copper	17	0.17	0.052	0.029	mg/Kg		Q	1	6020/DOD
Iron	25000	4.3	1.7	0.94	mg/Kg			1	6020/DOD
Magnesium	2600	8.7	1.7	0.94	mg/Kg			1	6020/DOD
Manganese	400	0.43	0.026	0.014	mg/Kg		Q	1	6020/DOD
Sodium	43	8.7	4.3	2.3	mg/Kg			1	6020/DOD
Nickel	21	0.087	0.026	0.0098	mg/Kg			1	6020/DOD
Lead	13	0.087	0.026	0.013	mg/Kg		Q	1	6020/DOD
Antimony	0.044	0.17	0.087	0.040	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.087	0.017	0.0089	mg/Kg			1	6020/DOD
Vanadium	12	0.087	0.052	0.026	mg/Kg			1	6020/DOD
Zinc	56	0.43	0.17	0.056	mg/Kg		Q	1	6020/DOD
Potassium	1000	8.7	5.2	2.7	mg/Kg			1	6020/DOD
Selenium	0.25	0.43	0.087	0.044	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0037M-0001-SO
Lab Sample ID: 240-22663-13
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:50
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.081	0.024	0.0092	mg/Kg	J		1	6020/DOD
Aluminum	5300	2.4	0.48	0.23	mg/Kg			1	6020/DOD
Arsenic	13	0.081	0.040	0.015	mg/Kg			1	6020/DOD
Barium	25	0.81	0.016	0.0086	mg/Kg		Q	1	6020/DOD
Beryllium	0.32	0.081	0.0081	0.0060	mg/Kg		Q	1	6020/DOD
Calcium	4500	8.1	2.0	1.1	mg/Kg			1	6020/DOD
Cadmium	0.17	0.081	0.024	0.011	mg/Kg		Q	1	6020/DOD
Chromium	8.5	0.16	0.032	0.018	mg/Kg			1	6020/DOD
Cobalt	8.1	0.040	0.0081	0.0019	mg/Kg		Q	1	6020/DOD
Copper	17	0.16	0.048	0.027	mg/Kg		Q	1	6020/DOD
Iron	19000	4.0	1.6	0.87	mg/Kg			1	6020/DOD
Magnesium	2700	8.1	1.6	0.87	mg/Kg			1	6020/DOD
Manganese	410	0.40	0.024	0.013	mg/Kg		Q	1	6020/DOD
Sodium	38	8.1	4.0	2.1	mg/Kg			1	6020/DOD
Nickel	18	0.081	0.024	0.0091	mg/Kg			1	6020/DOD
Lead	11	0.081	0.024	0.012	mg/Kg		Q	1	6020/DOD
Antimony	0.044	0.16	0.081	0.037	mg/Kg	J		1	6020/DOD
Thallium	0.12	0.081	0.016	0.0082	mg/Kg			1	6020/DOD
Vanadium	9.4	0.081	0.048	0.024	mg/Kg			1	6020/DOD
Zinc	54	0.40	0.16	0.052	mg/Kg		Q	1	6020/DOD
Potassium	850	8.1	4.8	2.5	mg/Kg			1	6020/DOD
Selenium	0.19	0.40	0.081	0.041	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0038M-0001-SO
Lab Sample ID: 240-22663-14
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 12:40
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.022	0.093	0.028	0.011	mg/Kg	J		1	6020/DOD
Aluminum	6800	2.8	0.56	0.26	mg/Kg			1	6020/DOD
Arsenic	19	0.093	0.046	0.017	mg/Kg			1	6020/DOD
Barium	32	0.93	0.019	0.0099	mg/Kg		Q	1	6020/DOD
Beryllium	0.35	0.093	0.0093	0.0069	mg/Kg		Q	1	6020/DOD
Calcium	640	9.3	2.3	1.2	mg/Kg			1	6020/DOD
Cadmium	0.19	0.093	0.028	0.012	mg/Kg		Q	1	6020/DOD
Chromium	10	0.19	0.037	0.021	mg/Kg			1	6020/DOD
Cobalt	8.7	0.046	0.0093	0.0022	mg/Kg		Q	1	6020/DOD
Copper	20	0.19	0.056	0.031	mg/Kg		Q	1	6020/DOD
Iron	22000	4.6	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2100	9.3	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	460	0.46	0.028	0.015	mg/Kg		Q	1	6020/DOD
Sodium	40	9.3	4.6	2.5	mg/Kg			1	6020/DOD
Nickel	21	0.093	0.028	0.010	mg/Kg			1	6020/DOD
Lead	17	0.093	0.028	0.014	mg/Kg		Q	1	6020/DOD
Antimony	0.067	0.19	0.093	0.043	mg/Kg	J		1	6020/DOD
Thallium	0.15	0.093	0.019	0.0094	mg/Kg			1	6020/DOD
Vanadium	11	0.093	0.056	0.028	mg/Kg			1	6020/DOD
Zinc	64	0.46	0.19	0.060	mg/Kg		Q	1	6020/DOD
Potassium	1000	9.3	5.6	2.9	mg/Kg			1	6020/DOD
Selenium	0.28	0.46	0.093	0.047	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0039M-0001-SO
Lab Sample ID: 240-22663-15
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 12:40
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.021	0.081	0.024	0.0092	mg/Kg	J		1	6020/DOD
Aluminum	7000	2.4	0.48	0.23	mg/Kg			1	6020/DOD
Arsenic	15	0.081	0.040	0.015	mg/Kg			1	6020/DOD
Barium	34	0.81	0.016	0.0086	mg/Kg		Q	1	6020/DOD
Beryllium	0.40	0.081	0.0081	0.0060	mg/Kg		Q	1	6020/DOD
Calcium	710	8.1	2.0	1.1	mg/Kg			1	6020/DOD
Cadmium	0.19	0.081	0.024	0.011	mg/Kg		Q	1	6020/DOD
Chromium	10	0.16	0.032	0.018	mg/Kg			1	6020/DOD
Cobalt	8.7	0.040	0.0081	0.0019	mg/Kg		Q	1	6020/DOD
Copper	19	0.16	0.048	0.027	mg/Kg		Q	1	6020/DOD
Iron	24000	4.0	1.6	0.87	mg/Kg			1	6020/DOD
Magnesium	2200	8.1	1.6	0.87	mg/Kg			1	6020/DOD
Manganese	460	0.40	0.024	0.013	mg/Kg		Q	1	6020/DOD
Sodium	35	8.1	4.0	2.1	mg/Kg			1	6020/DOD
Nickel	21	0.081	0.024	0.0091	mg/Kg			1	6020/DOD
Lead	16	0.081	0.024	0.012	mg/Kg		Q	1	6020/DOD
Antimony	0.055	0.16	0.081	0.037	mg/Kg	J		1	6020/DOD
Thallium	0.14	0.081	0.016	0.0082	mg/Kg			1	6020/DOD
Vanadium	12	0.081	0.048	0.024	mg/Kg			1	6020/DOD
Zinc	62	0.40	0.16	0.052	mg/Kg		Q	1	6020/DOD
Potassium	970	8.1	4.8	2.5	mg/Kg			1	6020/DOD
Selenium	0.26	0.40	0.081	0.041	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0040M-0001,0002-SO
Lab Sample ID: 240-22663-16
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 12:53
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.017	0.099	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7000	3.0	0.59	0.28	mg/Kg		J	1	6020/DOD
Arsenic	12	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	36	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.41	0.099	0.0099	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	670	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.12	0.099	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	10	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	8.3	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	17	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	20000	5.0	2.0	1.1	mg/Kg		J	1	6020/DOD
Magnesium	2200	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	300	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	41	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	19	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	11	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.047	0.20	0.099	0.045	mg/Kg	J	J	1	6020/DOD
Thallium	0.11	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	12	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	51	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	760	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.17	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0041M-0001-SO
Lab Sample ID: 240-22663-17
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:03
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.096	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	4700	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	11	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	25	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.30	0.096	0.0096	0.0072	mg/Kg		Q	1	6020/DOD
Calcium	3100	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.096	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	7.8	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	7.3	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	16	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	20000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2100	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	490	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	35	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	17	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	11	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.24	0.19	0.096	0.044	mg/Kg			1	6020/DOD
Thallium	0.12	0.096	0.019	0.0098	mg/Kg			1	6020/DOD
Vanadium	8.8	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	80	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	730	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.16	0.48	0.096	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0042M-0001-SO
Lab Sample ID: 240-22663-18
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:51
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.027	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	10000	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	14	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	41	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.52	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	7400	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.14	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	15	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	12	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	27000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	5500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	360	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	60	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	28	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	11	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.076	0.20	0.10	0.046	mg/Kg	J		1	6020/DOD
Thallium	0.13	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	15	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	52	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1400	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.21	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0043M-0001-SO
Lab Sample ID: 240-22663-19
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.023	0.096	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	6200	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	12	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	33	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.36	0.096	0.0096	0.0072	mg/Kg		Q	1	6020/DOD
Calcium	2300	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.096	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	9.7	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	8.1	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	17	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	19000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2400	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	340	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	38	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	20	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.074	0.19	0.096	0.044	mg/Kg	J		1	6020/DOD
Thallium	0.12	0.096	0.019	0.0098	mg/Kg			1	6020/DOD
Vanadium	10	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	54	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	820	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.16	0.48	0.096	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 073SB-0044-0001-SO
Lab Sample ID: 240-22663-20
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:29
Reporting Basis: DRY
Date Received: 04/02/2013 08:00
% Solids: 90.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.028	0.11	0.032	0.012	mg/Kg	J		1	6020/DOD
Aluminum	3700	3.2	0.65	0.31	mg/Kg			1	6020/DOD
Arsenic	7.7	0.11	0.054	0.020	mg/Kg			1	6020/DOD
Barium	20	1.1	0.022	0.012	mg/Kg		Q	1	6020/DOD
Beryllium	0.27	0.11	0.011	0.0081	mg/Kg		Q	1	6020/DOD
Calcium	9400	11	2.7	1.4	mg/Kg			1	6020/DOD
Cadmium	0.26	0.11	0.032	0.014	mg/Kg		Q	1	6020/DOD
Chromium	6.1	0.22	0.043	0.024	mg/Kg			1	6020/DOD
Cobalt	6.4	0.054	0.011	0.0026	mg/Kg		Q	1	6020/DOD
Copper	14	0.22	0.065	0.036	mg/Kg		Q	1	6020/DOD
Iron	17000	5.4	2.2	1.2	mg/Kg			1	6020/DOD
Magnesium	4600	11	2.2	1.2	mg/Kg			1	6020/DOD
Manganese	330	0.54	0.032	0.017	mg/Kg		Q	1	6020/DOD
Sodium	39	11	5.4	2.9	mg/Kg			1	6020/DOD
Nickel	14	0.11	0.032	0.012	mg/Kg			1	6020/DOD
Lead	12	0.11	0.032	0.017	mg/Kg		Q	1	6020/DOD
Antimony	0.089	0.22	0.11	0.050	mg/Kg	J		1	6020/DOD
Thallium	0.11	0.11	0.022	0.011	mg/Kg			1	6020/DOD
Vanadium	7.0	0.11	0.065	0.032	mg/Kg			1	6020/DOD
Zinc	67	0.54	0.22	0.070	mg/Kg		Q	1	6020/DOD
Potassium	660	11	6.5	3.4	mg/Kg			1	6020/DOD
Selenium	0.17	0.54	0.11	0.055	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0021M-0001-SO
Lab Sample ID: 240-22663-21
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:21
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.035	0.098	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8000	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	6.6	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	59	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.29	0.098	0.0098	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	600	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.098	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	11	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	6.6	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	8.9	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	20000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	1400	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	450	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	27	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	10	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	16	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	100	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	580	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.28	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0022M-0001-SO
Lab Sample ID: 240-22663-22
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.098	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	12000	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	79	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.60	0.098	0.0098	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	2000	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.16	0.098	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	16	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	26000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	3500	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	310	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	42	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	26	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	17	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	62	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1100	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.30	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0023M-0001-SO
Lab Sample ID: 240-22663-23
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.025	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	12000	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	72	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.60	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	2700	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.15	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	16	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	26000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	3500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	300	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	42	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	25	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	13	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	17	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	60	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1100	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.27	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0024M-0001,0002-SO
Lab Sample ID: 240-22663-24
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:29
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.030	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	12000	2.9	0.58	0.28	mg/Kg		J	1	6020/DOD
Arsenic	10	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	72	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.55	0.097	0.0097	0.0073	mg/Kg		Q	1	6020/DOD
Calcium	1000	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.18	0.097	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	15	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	17	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	25000	4.9	1.9	1.0	mg/Kg		J	1	6020/DOD
Magnesium	2800	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	260	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	35	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	21	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U	J	1	6020/DOD
Thallium	0.15	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	19	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	68	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	890	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.35	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0025M-0001-SO
Lab Sample ID: 240-22663-25
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:23
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.028	0.096	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8900	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	6.9	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	58	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.42	0.096	0.0096	0.0072	mg/Kg		Q	1	6020/DOD
Calcium	2200	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.22	0.096	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	12	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	8.6	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	11	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	19000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2400	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	560	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	34	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	16	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	11	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.096	0.19	0.096	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.096	0.019	0.0098	mg/Kg			1	6020/DOD
Vanadium	16	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	160	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	820	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.27	0.48	0.096	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0026M-0001-SO
Lab Sample ID: 240-22663-26
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:37
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.023	0.096	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	12000	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	10	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	62	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.58	0.096	0.0096	0.0072	mg/Kg		Q	1	6020/DOD
Calcium	3900	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.15	0.096	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	17	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	11	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	19	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	27000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	3800	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	240	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	42	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	26	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.096	0.19	0.096	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.096	0.019	0.0098	mg/Kg			1	6020/DOD
Vanadium	19	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	53	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	1000	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.27	0.48	0.096	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0027M-0001-SO
Lab Sample ID: 240-22663-27
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 11:12
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.035	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	9500	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	82	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.46	0.097	0.0097	0.0073	mg/Kg		Q	1	6020/DOD
Calcium	360	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.098	0.097	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	15	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	12	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	14	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	28000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	2200	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	840	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	32	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	18	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	14	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	20	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	47	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	790	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.32	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0028M-0001-SO
Lab Sample ID: 240-22663-28
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:43
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.026	0.095	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7900	2.9	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	6.7	0.095	0.048	0.017	mg/Kg			1	6020/DOD
Barium	51	0.95	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.34	0.095	0.0095	0.0071	mg/Kg		Q	1	6020/DOD
Calcium	380	9.5	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.18	0.095	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	10	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	5.0	0.048	0.0095	0.0023	mg/Kg		Q	1	6020/DOD
Copper	9.4	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	17000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	1400	9.5	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	130	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	27	9.5	4.8	2.5	mg/Kg			1	6020/DOD
Nickel	12	0.095	0.029	0.011	mg/Kg			1	6020/DOD
Lead	11	0.095	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.095	0.19	0.095	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.095	0.019	0.0097	mg/Kg			1	6020/DOD
Vanadium	14	0.095	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	42	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	570	9.5	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.34	0.48	0.095	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SB-0029-0001-SO
Lab Sample ID: 240-22663-29
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:55
Reporting Basis: DRY
Date Received: 04/02/2013 08:00
% Solids: 94.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.031	0.10	0.031	0.012	mg/Kg	J		1	6020/DOD
Aluminum	2600	3.1	0.61	0.29	mg/Kg			1	6020/DOD
Arsenic	8.9	0.10	0.051	0.019	mg/Kg			1	6020/DOD
Barium	15	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.13	0.10	0.010	0.0077	mg/Kg		Q	1	6020/DOD
Calcium	8800	10	2.6	1.4	mg/Kg			1	6020/DOD
Cadmium	0.13	0.10	0.031	0.014	mg/Kg		Q	1	6020/DOD
Chromium	4.0	0.20	0.041	0.023	mg/Kg			1	6020/DOD
Cobalt	3.9	0.051	0.010	0.0025	mg/Kg		Q	1	6020/DOD
Copper	16	0.20	0.061	0.034	mg/Kg		Q	1	6020/DOD
Iron	12000	5.1	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	2800	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	200	0.51	0.031	0.016	mg/Kg		Q	1	6020/DOD
Sodium	40	10	5.1	2.7	mg/Kg			1	6020/DOD
Nickel	9.7	0.10	0.031	0.012	mg/Kg			1	6020/DOD
Lead	8.1	0.10	0.031	0.016	mg/Kg		Q	1	6020/DOD
Antimony	0.26	0.20	0.10	0.047	mg/Kg			1	6020/DOD
Thallium	0.091	0.10	0.020	0.010	mg/Kg	J		1	6020/DOD
Vanadium	5.1	0.10	0.061	0.031	mg/Kg			1	6020/DOD
Zinc	43	0.51	0.20	0.066	mg/Kg		Q	1	6020/DOD
Potassium	440	10	6.1	3.2	mg/Kg			1	6020/DOD
Selenium	0.17	0.51	0.10	0.052	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0017M-0001-SO
Lab Sample ID: 240-22663-31
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:42
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.036	0.099	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	8.6	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	81	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.60	0.099	0.0099	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	30000	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.26	0.099	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	15	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	9.9	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	19	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	22000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	6200	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	450	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	92	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	23	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	14	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.068	0.20	0.099	0.045	mg/Kg	J		1	6020/DOD
Thallium	0.15	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	17	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	54	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1400	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.40	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0018M-0001-SO
Lab Sample ID: 240-22663-32
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:43
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.034	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	9300	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	12	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	50	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.44	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	34000	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.17	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	14	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	10	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	24000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	7400	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	380	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	88	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	25	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	11	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.14	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	15	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	46	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1400	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.22	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0019M-0001-SO
Lab Sample ID: 240-22663-33
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:21
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.040	0.099	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.0	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.099	0.050	0.018	mg/Kg			1	6020/DOD
Barium	74	0.99	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.57	0.099	0.0099	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	25000	9.9	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.23	0.099	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	18	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	12	0.050	0.0099	0.0024	mg/Kg		Q	1	6020/DOD
Copper	20	0.20	0.059	0.033	mg/Kg		Q	1	6020/DOD
Iron	26000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	7400	9.9	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	360	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	120	9.9	5.0	2.6	mg/Kg			1	6020/DOD
Nickel	29	0.099	0.030	0.011	mg/Kg			1	6020/DOD
Lead	12	0.099	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.099	0.20	0.099	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.16	0.099	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	18	0.099	0.059	0.030	mg/Kg			1	6020/DOD
Zinc	49	0.50	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	1500	9.9	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.31	0.50	0.099	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0022M-0001-SO
Lab Sample ID: 240-22663-34
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:21
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.037	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	61	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.56	0.097	0.0097	0.0073	mg/Kg		Q	1	6020/DOD
Calcium	26000	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.19	0.097	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	17	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	13	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	19	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	25000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	7400	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	380	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	120	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	29	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	11	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.16	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	18	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	48	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	1400	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.28	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0020M-0001-SO
Lab Sample ID: 240-22663-35
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:50
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.034	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	11	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	70	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.53	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	30000	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.19	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	16	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	19	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	24000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	7800	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	410	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	130	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	27	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	11	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.17	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	17	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	47	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1500	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.28	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0023M-0001-SO
Lab Sample ID: 240-22663-36
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:40
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.036	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	11000	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	9.0	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	71	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.59	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	14000	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.27	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	16	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	10	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	19	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	23000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	4800	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	520	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	71	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	23	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	14	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	18	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	53	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1300	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.35	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0024M-0001-SO
Lab Sample ID: 240-22663-37
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:20
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.040	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	10000	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	14	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	63	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.58	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	16000	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.21	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	14	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	11	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	18	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	24000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	5500	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	510	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	76	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	24	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	15	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	16	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	56	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1200	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.33	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0025M-0001-SO
Lab Sample ID: 240-22663-38
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:45
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.041	0.10	0.030	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8700	3.0	0.60	0.28	mg/Kg			1	6020/DOD
Arsenic	13	0.10	0.050	0.018	mg/Kg			1	6020/DOD
Barium	51	1.0	0.020	0.011	mg/Kg		Q	1	6020/DOD
Beryllium	0.42	0.10	0.010	0.0075	mg/Kg		Q	1	6020/DOD
Calcium	20000	10	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.28	0.10	0.030	0.013	mg/Kg		Q	1	6020/DOD
Chromium	12	0.20	0.040	0.022	mg/Kg			1	6020/DOD
Cobalt	9.1	0.050	0.010	0.0024	mg/Kg		Q	1	6020/DOD
Copper	24	0.20	0.060	0.033	mg/Kg		Q	1	6020/DOD
Iron	22000	5.0	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	5300	10	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	420	0.50	0.030	0.016	mg/Kg		Q	1	6020/DOD
Sodium	78	10	5.0	2.7	mg/Kg			1	6020/DOD
Nickel	21	0.10	0.030	0.011	mg/Kg			1	6020/DOD
Lead	16	0.10	0.030	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.10	0.20	0.10	0.046	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.10	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	13	0.10	0.060	0.030	mg/Kg			1	6020/DOD
Zinc	77	0.50	0.20	0.065	mg/Kg		Q	1	6020/DOD
Potassium	1200	10	6.0	3.2	mg/Kg			1	6020/DOD
Selenium	0.30	0.50	0.10	0.051	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0032-0001-SO
Lab Sample ID: 240-22663-39
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 15:30
Reporting Basis: DRY
Date Received: 04/02/2013 08:00
% Solids: 87.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.029	0.11	0.034	0.013	mg/Kg	J		1	6020/DOD
Aluminum	8800	3.4	0.68	0.32	mg/Kg			1	6020/DOD
Arsenic	16	0.11	0.057	0.020	mg/Kg			1	6020/DOD
Barium	34	1.1	0.023	0.012	mg/Kg		Q	1	6020/DOD
Beryllium	0.41	0.11	0.011	0.0085	mg/Kg		Q	1	6020/DOD
Calcium	4300	11	2.8	1.5	mg/Kg			1	6020/DOD
Cadmium	0.14	0.11	0.034	0.015	mg/Kg		Q	1	6020/DOD
Chromium	13	0.23	0.045	0.025	mg/Kg			1	6020/DOD
Cobalt	12	0.057	0.011	0.0027	mg/Kg		Q	1	6020/DOD
Copper	20	0.23	0.068	0.037	mg/Kg		Q	1	6020/DOD
Iron	26000	5.7	2.3	1.2	mg/Kg			1	6020/DOD
Magnesium	5200	11	2.3	1.2	mg/Kg			1	6020/DOD
Manganese	620	0.57	0.034	0.018	mg/Kg		Q	1	6020/DOD
Sodium	64	11	5.7	3.0	mg/Kg			1	6020/DOD
Nickel	29	0.11	0.034	0.013	mg/Kg			1	6020/DOD
Lead	12	0.11	0.034	0.017	mg/Kg		Q	1	6020/DOD
Antimony	0.11	0.23	0.11	0.052	mg/Kg	U		1	6020/DOD
Thallium	0.14	0.11	0.023	0.012	mg/Kg			1	6020/DOD
Vanadium	13	0.11	0.068	0.034	mg/Kg			1	6020/DOD
Zinc	50	0.57	0.23	0.073	mg/Kg		Q	1	6020/DOD
Potassium	1000	11	6.8	3.6	mg/Kg			1	6020/DOD
Selenium	0.25	0.57	0.11	0.058	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0027M-0001-SO
Lab Sample ID: 240-22663-40
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:00
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.036	0.097	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	13000	2.9	0.58	0.28	mg/Kg			1	6020/DOD
Arsenic	9.7	0.097	0.049	0.018	mg/Kg			1	6020/DOD
Barium	81	0.97	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.64	0.097	0.0097	0.0073	mg/Kg		Q	1	6020/DOD
Calcium	26000	9.7	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.21	0.097	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	19	0.19	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	13	0.049	0.0097	0.0023	mg/Kg		Q	1	6020/DOD
Copper	20	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	26000	4.9	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	7900	9.7	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	410	0.49	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	98	9.7	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	31	0.097	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.097	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.097	0.19	0.097	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.18	0.097	0.019	0.0099	mg/Kg			1	6020/DOD
Vanadium	20	0.097	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	51	0.49	0.19	0.063	mg/Kg		Q	1	6020/DOD
Potassium	1700	9.7	5.8	3.1	mg/Kg			1	6020/DOD
Selenium	0.35	0.49	0.097	0.049	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0028M-0001-SO
Lab Sample ID: 240-22663-41
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:02
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.035	0.098	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	7400	2.9	0.59	0.28	mg/Kg			1	6020/DOD
Arsenic	16	0.098	0.049	0.018	mg/Kg			1	6020/DOD
Barium	40	0.98	0.020	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.38	0.098	0.0098	0.0074	mg/Kg		Q	1	6020/DOD
Calcium	22000	9.8	2.5	1.3	mg/Kg			1	6020/DOD
Cadmium	0.17	0.098	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	11	0.20	0.039	0.022	mg/Kg			1	6020/DOD
Cobalt	8.8	0.049	0.0098	0.0024	mg/Kg		Q	1	6020/DOD
Copper	19	0.20	0.059	0.032	mg/Kg		Q	1	6020/DOD
Iron	22000	4.9	2.0	1.1	mg/Kg			1	6020/DOD
Magnesium	5600	9.8	2.0	1.1	mg/Kg			1	6020/DOD
Manganese	360	0.49	0.029	0.016	mg/Kg		Q	1	6020/DOD
Sodium	64	9.8	4.9	2.6	mg/Kg			1	6020/DOD
Nickel	24	0.098	0.029	0.011	mg/Kg			1	6020/DOD
Lead	12	0.098	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.098	0.20	0.098	0.045	mg/Kg	U		1	6020/DOD
Thallium	0.12	0.098	0.020	0.010	mg/Kg			1	6020/DOD
Vanadium	12	0.098	0.059	0.029	mg/Kg			1	6020/DOD
Zinc	47	0.49	0.20	0.064	mg/Kg		Q	1	6020/DOD
Potassium	970	9.8	5.9	3.1	mg/Kg			1	6020/DOD
Selenium	0.32	0.49	0.098	0.050	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0030M-0001-SO
Lab Sample ID: 240-22663-43
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 14:05
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.041	0.095	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	10000	2.9	0.57	0.27	mg/Kg			1	6020/DOD
Arsenic	11	0.095	0.048	0.017	mg/Kg			1	6020/DOD
Barium	69	0.95	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.49	0.095	0.0095	0.0071	mg/Kg		Q	1	6020/DOD
Calcium	35000	9.5	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.21	0.095	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	15	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	10	0.048	0.0095	0.0023	mg/Kg		Q	1	6020/DOD
Copper	19	0.19	0.057	0.031	mg/Kg		Q	1	6020/DOD
Iron	23000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	7600	9.5	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	400	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	83	9.5	4.8	2.5	mg/Kg			1	6020/DOD
Nickel	26	0.095	0.029	0.011	mg/Kg			1	6020/DOD
Lead	11	0.095	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.095	0.19	0.095	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.15	0.095	0.019	0.0097	mg/Kg			1	6020/DOD
Vanadium	16	0.095	0.057	0.028	mg/Kg			1	6020/DOD
Zinc	45	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	1400	9.5	5.7	3.0	mg/Kg			1	6020/DOD
Selenium	0.30	0.48	0.095	0.048	mg/Kg	J		1	6020/DOD

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 068SB-0031M-0001-SO
Lab Sample ID: 240-22663-44
Lab Name: TestAmerica Pittsburgh
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:44
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Silver	0.038	0.096	0.029	0.011	mg/Kg	J		1	6020/DOD
Aluminum	8700	2.9	0.58	0.27	mg/Kg			1	6020/DOD
Arsenic	9.2	0.096	0.048	0.017	mg/Kg			1	6020/DOD
Barium	54	0.96	0.019	0.010	mg/Kg		Q	1	6020/DOD
Beryllium	0.46	0.096	0.0096	0.0072	mg/Kg		Q	1	6020/DOD
Calcium	30000	9.6	2.4	1.3	mg/Kg			1	6020/DOD
Cadmium	0.18	0.096	0.029	0.013	mg/Kg		Q	1	6020/DOD
Chromium	14	0.19	0.038	0.021	mg/Kg			1	6020/DOD
Cobalt	8.8	0.048	0.0096	0.0023	mg/Kg		Q	1	6020/DOD
Copper	16	0.19	0.058	0.032	mg/Kg		Q	1	6020/DOD
Iron	20000	4.8	1.9	1.0	mg/Kg			1	6020/DOD
Magnesium	6600	9.6	1.9	1.0	mg/Kg			1	6020/DOD
Manganese	340	0.48	0.029	0.015	mg/Kg		Q	1	6020/DOD
Sodium	85	9.6	4.8	2.6	mg/Kg			1	6020/DOD
Nickel	22	0.096	0.029	0.011	mg/Kg			1	6020/DOD
Lead	9.5	0.096	0.029	0.015	mg/Kg		Q	1	6020/DOD
Antimony	0.096	0.19	0.096	0.044	mg/Kg	U		1	6020/DOD
Thallium	0.13	0.096	0.019	0.0098	mg/Kg			1	6020/DOD
Vanadium	14	0.096	0.058	0.029	mg/Kg			1	6020/DOD
Zinc	40	0.48	0.19	0.062	mg/Kg		Q	1	6020/DOD
Potassium	1300	9.6	5.8	3.0	mg/Kg			1	6020/DOD
Selenium	0.37	0.48	0.096	0.049	mg/Kg	J		1	6020/DOD

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00355

Analyte	ICV 240-82099/7-A 04/16/2013 11:15				CCV 240-82099/10-A 04/16/2013 11:51				CCV 240-82099/10-A 04/16/2013 12:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.52		2.50	101	4.98		5.00	100	4.98		5.00	100

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

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00355

Analyte	CCV 240-82099/10-A 04/16/2013 12:25				CCV 240-82099/10-A 04/16/2013 12:45				CCV 240-82099/10-A 04/16/2013 13:05			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.95		5.00	99	5.02		5.00	100	5.00		5.00	100

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00358

Analyte	ICV 240-82640/7-A 04/19/2013 09:29				CCV 240-82640/10-A 04/19/2013 09:53				CCV 240-82640/10-A 04/19/2013 10:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.54		2.50	102	4.97		5.00	99	4.94		5.00	99

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00358

Analyte	CCV 240-82640/10-A 04/19/2013 10:35											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.90		5.00	98								

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00355

Analyte	ICV 240-82099/7-A 04/17/2013 08:38				CCV 240-82099/10-A 04/17/2013 09:08				CCV 240-82099/10-A 04/17/2013 09:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.56		2.50	102	5.39		5.00	108	5.33		5.00	107

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

ICV Source: MTHgStd_00009 Concentration Units: ug/L

CCV Source: MTHGCALW_00355

Analyte	CCV 240-82099/10-A 04/17/2013 09:56				CCV 240-82099/10-A 04/17/2013 10:21							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.51		5.00	110	5.49		5.00	110				

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: CCVHL1_00002

Analyte	ICV 180-70845/5 05/04/2013 21:01				CCV 180-70845/10 05/04/2013 21:42							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	410		400	102	471000		500000	94				
Barium	79.9		80.0	100	16000		15000	107				
Chromium	80.3		80.0	100	21600		20000	108				
Copper	82.2		80.0	103	20200		20000	101				
Iron	19500		20000	97	524000		500000	105				
Lead	76.7		80.0	96	19800		20000	99				
Manganese	390		400	98	21000		20000	105				
Nickel	81.0		80.0	101	10400		10000	104				
Zinc	82.5		80.0	103	20600		20000	103				

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: CCVHL2_00002

Analyte	ICV 180-70845/5 05/04/2013 21:01				CCV 180-70845/11 05/04/2013 21:50							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Calcium	36800		40000	92	952000		1000000	95				
Magnesium	39400		40000	98	943000		1000000	94				
Potassium	39000		40000	98	484000		500000	97				
Sodium	39400		40000	99	484000		500000	97				

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: MCCV1X_00041

Analyte	ICV 180-70845/5 05/04/2013 21:01				CCV 180-70845/12 05/04/2013 21:59				CCV 180-70845/24 05/04/2013 23:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	410		400	102	519		500	104	537		500	107
Antimony	80.1		80.0	100	98.1		100	98	101		100	101
Arsenic	81.6		80.0	102	105		100	105	105		100	105
Barium	79.9		80.0	100	99.7		100	100	101		100	101
Beryllium	82.2		80.0	103	104		100	104	103		100	103
Cadmium	80.1		80.0	100	100		100	100	101		100	101
Calcium	36800		40000	92	47000		50000	94	47200		50000	94
Chromium	80.3		80.0	100	101		100	101	101		100	101
Cobalt	79.7		80.0	100	103		100	103	103		100	103
Copper	82.2		80.0	103	108		100	108	104		100	104
Iron	19500		20000	97	25100		25000	100	25200		25000	101
Lead	76.7		80.0	96	98.0		100	98	97.2		100	97
Magnesium	39400		40000	98	51000		50000	102	51600		50000	103
Manganese	390		400	98	495		500	99	501		500	100
Nickel	81.0		80.0	101	107		100	107	105		100	105
Potassium	39000		40000	98	49800		50000	100	49900		50000	100
Selenium	82.0		80.0	103	105		100	105	105		100	105
Silver	80.6		80.0	101	102		100	102	101		100	101
Sodium	39400		40000	99	50500		50000	101	50800		50000	102
Thallium	78.7		80.0	98	97.7		100	98	96.9		100	97
Vanadium	79.8		80.0	100	100		100	100	99.6		100	100
Zinc	82.5		80.0	103	103		100	103	104		100	104

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: MCCV1X_00041

Analyte	CCV 180-70845/36 05/05/2013 01:15				CCV 180-70845/48 05/05/2013 02:54				CCV 180-70845/60 05/05/2013 04:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	533		500	107	536		500	107	534		500	107
Antimony	98.5		100	98	98.1		100	98	98.5		100	99
Arsenic	105		100	105	107		100	107	106		100	106
Barium	101		100	101	102		100	102	101		100	101
Beryllium	104		100	104	106		100	106	105		100	105
Cadmium	101		100	101	101		100	101	100		100	100
Calcium	47000		50000	94	47500		50000	95	47900		50000	96
Chromium	101		100	101	102		100	102	102		100	102
Cobalt	103		100	103	103		100	103	103		100	103
Copper	105		100	105	107		100	107	106		100	106
Iron	25400		25000	101	25300		25000	101	25200		25000	101
Lead	96.8		100	97	97.3		100	97	97.5		100	98
Magnesium	51100		50000	102	51500		50000	103	51200		50000	102
Manganese	497		500	99	498		500	100	496		500	99
Nickel	106		100	106	107		100	107	106		100	106
Potassium	50000		50000	100	50400		50000	101	50800		50000	102
Selenium	106		100	106	107		100	107	107		100	107
Silver	102		100	102	102		100	102	103		100	103
Sodium	50800		50000	102	50800		50000	102	51100		50000	102
Thallium	96.6		100	97	96.8		100	97	97.6		100	98
Vanadium	100		100	100	101		100	101	101		100	101
Zinc	104		100	104	103		100	103	102		100	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICV Source: MICVX_00005 Concentration Units: ug/L

CCV Source: MCCV1X_00041

Analyte	CCV 180-70845/72 05/05/2013 06:11				CCV 180-70845/83 05/05/2013 07:42				CCV 180-70845/87 05/05/2013 08:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	526		500	105	546		500	109	549		500	110
Antimony	97.5		100	98	98.2		100	98	98.1		100	98
Arsenic	102		100	102	104		100	104	105		100	105
Barium	104		100	104	104		100	104	105		100	105
Beryllium	97.2		100	97	96.6		100	97	101		100	101
Cadmium	101		100	101	102		100	102	101		100	101
Calcium	46200		50000	92	46800		50000	94	48100		50000	96
Chromium	98.9		100	99	101		100	101	101		100	101
Cobalt	101		100	101	102		100	102	105		100	105
Copper	106		100	106	105		100	105	108		100	108
Iron	24500		25000	98	24900		25000	100	25200		25000	101
Lead	98.6		100	99	99.6		100	100	98.6		100	99
Magnesium	49500		50000	99	50100		50000	100	51200		50000	102
Manganese	479		500	96	486		500	97	490		500	98
Nickel	105		100	105	105		100	105	108		100	108
Potassium	49500		50000	99	50100		50000	100	51500		50000	103
Selenium	102		100	102	104		100	104	105		100	105
Silver	104		100	104	104		100	104	104		100	104
Sodium	49500		50000	99	49500		50000	99	51100		50000	102
Thallium	98.8		100	99	99.2		100	99	98.8		100	99
Vanadium	98.4		100	98	99.2		100	99	102		100	102
Zinc	100		100	100	100		100	100	101		100	101

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Method: 7471/DOD Instrument ID: H1

Lab Sample ID: CRA 240-82099/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00355

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.189	J	95	

Lab Sample ID: CRA 240-82099/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00355

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.164	J	82	

Lab Sample ID: CRA 240-82640/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00358

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.145	J	73	

Lab Sample ID: CRA 240-82640/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00358

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.131	J	65	

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Method: 7471/DOD Instrument ID: H4

Lab Sample ID: CRA 240-82099/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00355

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.200		100	

Lab Sample ID: CRA 240-82099/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00355

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.219		110	

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-70845/7 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	0.987	J	99	80-120
Aluminum	30.0	35.8		119	80-120
Arsenic	1.00	1.08		108	80-120
Barium	10.0	9.48	J	95	80-120
Beryllium	1.00	1.06		106	80-120
Calcium	100	96.9	J	97	80-120
Cadmium	1.00	1.02		102	80-120
Chromium	2.00	1.94	J	97	80-120
Cobalt	0.500	0.483	J	97	80-120
Copper	2.00	2.24		112	80-120
Iron	50.0	56.1		112	80-120
Magnesium	100	98.1	J	98	80-120
Manganese	5.00	5.40		108	80-120
Sodium	100	91.4	J	91	80-120
Nickel	1.00	1.20		120	80-120
Lead	1.00	0.932	J	93	80-120
Antimony	2.00	2.01		100	80-120
Thallium	1.00	0.914	J	91	80-120
Vanadium	1.00	0.803	J	80	80-120
Zinc	5.00	5.20		104	80-120
Potassium	100	95.2	J	95	80-120
Selenium	5.00	5.49		110	80-120

Lab Sample ID: CRI 180-70845/85 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	1.00	1.07		107	80-120
Aluminum	30.0	35.1		117	80-120
Arsenic	1.00	1.17		117	80-120
Barium	10.0	10.1		101	80-120
Beryllium	1.00	0.940	J	94	80-120
Calcium	100	93.1	J	93	80-120
Cadmium	1.00	1.11		111	80-120
Chromium	2.00	1.76	J	88	80-120

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Method: 6020/DOD Instrument ID: M

Lab Sample ID: CRI 180-70845/85 Concentration Units: ug/L

CRQL Check Standard Source: MCRIX_00032

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	0.500	0.492	J	98	80-120
Copper	2.00	2.23		112	80-120
Iron	50.0	53.4		107	80-120
Magnesium	100	92.6	J	93	80-120
Manganese	5.00	4.83	J	97	80-120
Sodium	100	80.6	J	81	80-120
Nickel	1.00	1.19		119	80-120
Lead	1.00	0.970	J	97	80-120
Antimony	2.00	1.96	J	98	80-120
Thallium	1.00	0.907	J	91	80-120
Vanadium	1.00	0.789	J	79	80-120
Zinc	5.00	5.05		101	80-120
Potassium	100	81.3	J	81	80-120
Selenium	5.00	4.91	J	98	80-120

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-82099/8-A 04/16/2013 11:16		CCB 240-82099/11-A 04/16/2013 11:52		CCB 240-82099/11-A 04/16/2013 12:09		CCB 240-82099/11-A 04/16/2013 12:28	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-82099/11-A 04/16/2013 12:46		CCB 240-82099/11-A 04/16/2013 13:07					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-82640/8-A 04/19/2013 09:31		CCB 240-82640/11-A 04/19/2013 09:55		CCB 240-82640/11-A 04/19/2013 10:13		CCB 240-82640/11-A 04/19/2013 10:37	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-82099/8-A 04/17/2013 08:40		CCB 240-82099/11-A 04/17/2013 09:10		CCB 240-82099/11-A 04/17/2013 09:34		CCB 240-82099/11-A 04/17/2013 09:58	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 240-82099/11-A 04/17/2013 10:24							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-70845/6 05/04/2013 21:09		CCB1 180-70845/13 05/04/2013 22:07		CCB2 180-70845/25 05/04/2013 23:45		CCB3 180-70845/37 05/05/2013 01:23	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	5.0	U	6.58	J	5.38	J	4.98	J
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.213	J	0.135	J	0.0980	J
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	10.7	J	37.4	J	13.3	J	11.8	J
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.050	U	0.050	U	0.0350	J	0.0380	J
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	11.1	J	20	U	20	U
Lead	1.0	0.30	U	0.202	J	0.30	U	0.30	U
Magnesium	100	11.1	J	42.2	J	14.5	J	16.3	J
Manganese	5.0	0.358	J	0.551	J	0.364	J	0.510	J
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	55	U	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB4 180-70845/49 05/05/2013 03:02		CCB5 180-70845/61 05/05/2013 04:41		CCB6 180-70845/73 05/05/2013 06:20		CCB7 180-70845/84 05/05/2013 07:50	
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	4.43	J	4.51	J	7.26	J	9.27	J
Antimony	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Arsenic	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Barium	10	0.15	U	0.155	J	0.125	J	0.121	J
Beryllium	1.0	0.090	U	0.090	U	0.090	U	0.090	U
Cadmium	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Calcium	100	12.9	J	17.1	J	29.0	J	42.5	J
Chromium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Cobalt	0.50	0.0360	J	0.0340	J	0.0430	J	0.0580	J
Copper	2.0	0.50	U	0.50	U	0.50	U	0.50	U
Iron	50	20	U	20	U	16.5	J	26.1	J
Lead	1.0	0.30	U	0.30	U	0.30	U	0.30	U
Magnesium	100	15.8	J	19.2	J	23.4	J	29.4	J
Manganese	5.0	0.438	J	0.531	J	0.560	J	0.728	J
Nickel	1.0	0.35	U	0.35	U	0.35	U	0.35	U
Potassium	100	60	U	60	U	60	U	60	U
Selenium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Silver	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Sodium	100	55	U	55	U	55	U	55	U
Thallium	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Vanadium	1.0	0.60	U	0.60	U	0.60	U	0.60	U
Zinc	5.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB8 180-70845/88 05/05/2013 08:23							
		Found	C	Found	C	Found	C	Found	C
Aluminum	30	4.32	J						
Antimony	2.0	0.90	U						
Arsenic	1.0	0.50	U						
Barium	10	0.102	J						
Beryllium	1.0	0.090	U						
Cadmium	1.0	0.30	U						
Calcium	100	19.3	J						
Chromium	2.0	1.0	U						
Cobalt	0.50	0.0280	J						
Copper	2.0	0.50	U						
Iron	50	20	U						
Lead	1.0	0.30	U						
Magnesium	100	19.6	J						
Manganese	5.0	0.410	J						
Nickel	1.0	0.35	U						
Potassium	100	60	U						
Selenium	5.0	1.0	U						
Silver	1.0	0.20	U						
Sodium	100	55	U						
Thallium	1.0	0.20	U						
Vanadium	1.0	0.60	U						
Zinc	5.0	2.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-81976/1-A

Instrument Code: H1 Batch No.: 82289

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-82179/1-A

Instrument Code: H4 Batch No.: 82449

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 240-82367/1-A

Instrument Code: H1 Batch No.: 82912

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-69114/1-A

Instrument Code: M Batch No.: 70845

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.026	U		6020_DoD
7429-90-5	Aluminum	0.51	U		6020_DoD
7440-38-2	Arsenic	0.043	U		6020_DoD
7440-39-3	Barium	0.00940	J	Q	6020_DoD
7440-41-7	Beryllium	0.0085	U	Q	6020_DoD
7440-70-2	Calcium	1.76	J		6020_DoD
7440-43-9	Cadmium	0.026	U	Q	6020_DoD
7440-47-3	Chromium	0.034	U		6020_DoD
7440-48-4	Cobalt	0.0085	U	Q	6020_DoD
7440-50-8	Copper	0.0300	J	Q	6020_DoD
7439-89-6	Iron	1.7	U		6020_DoD
7439-95-4	Magnesium	1.7	U		6020_DoD
7439-96-5	Manganese	0.026	U	Q	6020_DoD
7440-23-5	Sodium	4.3	U		6020_DoD
7440-02-0	Nickel	0.026	U		6020_DoD
7439-92-1	Lead	0.026	U	Q	6020_DoD
7440-36-0	Antimony	0.085	U		6020_DoD
7440-28-0	Thallium	0.017	U		6020_DoD
7440-62-2	Vanadium	0.051	U		6020_DoD
7440-66-6	Zinc	0.0733	J	Q	6020_DoD
7440-09-7	Potassium	5.1	U		6020_DoD
7782-49-2	Selenium	0.085	U		6020_DoD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-69160/1-A

Instrument Code: M Batch No.: 70845

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.027	U		6020_DoD
7429-90-5	Aluminum	0.54	U		6020_DoD
7440-38-2	Arsenic	0.0212	J		6020_DoD
7440-39-3	Barium	0.0107	J	Q	6020_DoD
7440-41-7	Beryllium	0.0089	U	Q	6020_DoD
7440-70-2	Calcium	1.83	J		6020_DoD
7440-43-9	Cadmium	0.027	U	Q	6020_DoD
7440-47-3	Chromium	0.036	U		6020_DoD
7440-48-4	Cobalt	0.0089	U	Q	6020_DoD
7440-50-8	Copper	0.054	U	Q	6020_DoD
7439-89-6	Iron	1.8	U		6020_DoD
7439-95-4	Magnesium	1.8	U		6020_DoD
7439-96-5	Manganese	0.027	U	Q	6020_DoD
7440-23-5	Sodium	4.5	U		6020_DoD
7440-02-0	Nickel	0.027	U		6020_DoD
7439-92-1	Lead	0.027	U	Q	6020_DoD
7440-36-0	Antimony	0.089	U		6020_DoD
7440-28-0	Thallium	0.018	U		6020_DoD
7440-62-2	Vanadium	0.054	U		6020_DoD
7440-66-6	Zinc	0.0640	J	Q	6020_DoD
7440-09-7	Potassium	5.4	U		6020_DoD
7782-49-2	Selenium	0.0480	J		6020_DoD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-69260/1-A

Instrument Code: M Batch No.: 70845

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.029	U		6020_DoD
7429-90-5	Aluminum	0.356	J		6020_DoD
7440-38-2	Arsenic	0.049	U		6020_DoD
7440-39-3	Barium	0.0116	J	Q	6020_DoD
7440-41-7	Beryllium	0.0098	U	Q	6020_DoD
7440-70-2	Calcium	1.72	J		6020_DoD
7440-43-9	Cadmium	0.029	U	Q	6020_DoD
7440-47-3	Chromium	0.039	U		6020_DoD
7440-48-4	Cobalt	0.0098	U	Q	6020_DoD
7440-50-8	Copper	0.0358	J	Q	6020_DoD
7439-89-6	Iron	2.0	U		6020_DoD
7439-95-4	Magnesium	2.0	U		6020_DoD
7439-96-5	Manganese	0.029	U	Q	6020_DoD
7440-23-5	Sodium	4.9	U		6020_DoD
7440-02-0	Nickel	0.029	U		6020_DoD
7439-92-1	Lead	0.029	U	Q	6020_DoD
7440-36-0	Antimony	0.098	U		6020_DoD
7440-28-0	Thallium	0.020	U		6020_DoD
7440-62-2	Vanadium	0.059	U		6020_DoD
7440-66-6	Zinc	0.122	J	Q	6020_DoD
7440-09-7	Potassium	5.9	U		6020_DoD
7782-49-2	Selenium	0.098	U		6020_DoD

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICSA 180-70845/8 Instrument ID: M

Lab File ID: M30504A.xml ICS Source: MICSAX_00031

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100000**	**105800**	**106**
Antimony		**0.500**	
Arsenic		**0.489**	
Barium		**0.766**	
Beryllium		**0.197**	
Cadmium		**0.355**	
Calcium	**100000**	**105700**	**106**
Chromium		**0.0790**	
Cobalt		**0.264**	
Copper		**1.49**	
Iron	**100000**	**107400**	**107**
Lead		**0.627**	
Magnesium	**100000**	**107100**	**107**
Manganese		**1.27**	
Nickel		**0.121**	
Potassium	**100000**	**109200**	**109**
Selenium		**0.612**	
Silver		**0.195**	
Sodium	**100000**	**108100**	**108**
Thallium		**0.172**	
Vanadium		**-0.331**	
Zinc		**3.82**	
Boron		*-8.91*	
Molybdenum	*2000*	*2088*	*104*
Silicon		*32.3*	
Strontium		*4.38*	
Tin		*1.16*	
Titanium	*2000*	*2395*	*120*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Lab Sample ID: ICSAB 180-70845/9 Instrument ID: M

Lab File ID: M30504A.xml ICS Source: MICSABX_00035

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**100000**	**98647**	**99**
Antimony	**20.0**	**20.6**	**103**
Arsenic	**20.0**	**22.2**	**111**
Barium	**20.0**	**20.7**	**104**
Beryllium	**20.0**	**19.7**	**99**
Cadmium	**20.0**	**20.5**	**102**
Calcium	**100000**	**100733**	**101**
Chromium	**20.0**	**21.0**	**105**
Cobalt	**20.0**	**20.8**	**104**
Copper	**20.0**	**21.5**	**107**
Iron	**100000**	**107100**	**107**
Lead	**20.0**	**20.7**	**104**
Magnesium	**100000**	**100327**	**100**
Manganese	**22.5**	**22.1**	**98**
Nickel	**20.0**	**20.7**	**103**
Potassium	**100000**	**102833**	**103**
Selenium	**50.0**	**53.7**	**107**
Silver	**20.0**	**19.8**	**99**
Sodium	**100000**	**101133**	**101**
Thallium	**20.0**	**20.2**	**101**
Vanadium	**20.0**	**20.8**	**104**
Zinc	**25.0**	**24.6**	**98**
Boron	*50.0*	*37.5*	*75*
Molybdenum	*2000*	*2263*	*113*
Silicon	*500*	*515*	*103*
Strontium	*25.0*	*26.9*	*107*
Tin	*100*	*101*	*101*
Titanium	*2000*	*2276*	*114*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0015M-0001,0002-SO MS Lab ID: 240-22663-5 MS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.186		0.016	J	0.167	102	80-120		7471/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 073SB-0040M-0001,0002-SO MS Lab ID: 240-22663-16 MS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.180		0.033	U	0.167	108	80-120		7471/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0024M-0001,0002-SO MS Lab ID: 240-22663-24 MS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.207		0.025	J	0.167	109	80-120		7471/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0015M-0001,0002-SO MS Lab ID: 240-22663-5 MS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	3.93		0.030	J	4.46	87	75-125		6020/DOD
Aluminum	17000		13000		179	2497	70-130	4	6020/DOD
Arsenic	13.5		10		3.57	92	23-131		6020/DOD
Barium	238		68		179	95	10-199	Q	6020/DOD
Beryllium	4.27		0.58		4.46	83	58-112	Q	6020/DOD
Calcium	4310		590		4460	83	70-130		6020/DOD
Cadmium	3.82		0.20		4.46	81	58-110	Q	6020/DOD
Chromium	36.5		17		17.9	109	10-199		6020/DOD
Cobalt	50.6		11		44.6	89	55-110	Q	6020/DOD
Copper	38.7		20		22.3	85	10-199	Q	6020/DOD
Iron	27700		26000		89.3	1668	70-130	4	6020/DOD
Magnesium	7560		3200		4460	97	70-130		6020/DOD
Manganese	370		260		44.6	240	10-199	Q 4	6020/DOD
Sodium	4200		40		4460	93	70-130		6020/DOD
Nickel	65.2		26		44.6	89	10-176		6020/DOD
Lead	15.2		12		1.79	154	10-199	Q 4	6020/DOD
Antimony	11.2		0.090	U	44.6	25	75-125	J	6020/DOD
Thallium	4.36		0.17		4.46	94	82-110		6020/DOD
Vanadium	65.8		19		44.6	106	39-129		6020/DOD
Zinc	107		74		44.6	74	10-199	Q	6020/DOD
Potassium	5730		1200		4460	102	70-130		6020/DOD
Selenium	0.902		0.28	J	0.893	70	39-116		6020/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 073SB-0040M-0001,0002-SO MS Lab ID: 240-22663-16 MS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.37		0.017	J	4.90	89	75-125		6020/DOD
Aluminum	9180		7000		196	1104	70-130	4	6020/DOD
Arsenic	14.8		12		3.92	63	23-131		6020/DOD
Barium	214		36		196	91	10-199	Q	6020/DOD
Beryllium	4.44		0.41		4.90	82	58-112	Q	6020/DOD
Calcium	4860		670		4900	86	70-130		6020/DOD
Cadmium	4.21		0.12		4.90	83	58-110	Q	6020/DOD
Chromium	29.8		10		19.6	99	10-199		6020/DOD
Cobalt	52.0		8.3		49.0	89	55-110	Q	6020/DOD
Copper	37.5		17		24.5	82	10-199	Q	6020/DOD
Iron	19500		20000		98.0	-924	70-130	4	6020/DOD
Magnesium	6660		2200		4900	90	70-130		6020/DOD
Manganese	319		300		49.0	44	10-199	Q 4	6020/DOD
Sodium	4590		41		4900	93	70-130		6020/DOD
Nickel	62.8		19		49.0	88	10-176		6020/DOD
Lead	13.1		11		1.96	95	10-199	Q 4	6020/DOD
Antimony	22.4		0.047	J	49.0	46	75-125	J	6020/DOD
Thallium	4.28		0.11		4.90	85	82-110		6020/DOD
Vanadium	59.5		12		49.0	98	39-129		6020/DOD
Zinc	84.9		51		49.0	68	10-199	Q	6020/DOD
Potassium	5350		760		4900	94	70-130		6020/DOD
Selenium	0.908		0.17	J	0.980	75	39-116		6020/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0024M-0001,0002-SO MS Lab ID: 240-22663-24 MS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.37		0.030	J	4.90	89	75-125		6020/DOD
Aluminum	16500		12000		196	2325	70-130	4	6020/DOD
Arsenic	13.8		10		3.92	94	23-131		6020/DOD
Barium	253		72		196	93	10-199	Q	6020/DOD
Beryllium	4.62		0.55		4.90	83	58-112	Q	6020/DOD
Calcium	5120		1000		4900	84	70-130		6020/DOD
Cadmium	4.22		0.18		4.90	82	58-110	Q	6020/DOD
Chromium	36.8		15		19.6	109	10-199		6020/DOD
Cobalt	54.5		11		49.0	89	55-110	Q	6020/DOD
Copper	38.0		17		24.5	86	10-199	Q	6020/DOD
Iron	25600		25000		98.0	768	70-130	4	6020/DOD
Magnesium	7580		2800		4900	97	70-130		6020/DOD
Manganese	305		260		49.0	85	10-199	Q 4	6020/DOD
Sodium	4630		35		4900	94	70-130		6020/DOD
Nickel	65.5		21		49.0	90	10-176		6020/DOD
Lead	14.9		12		1.96	130	10-199	Q 4	6020/DOD
Antimony	10.4		0.097	U	49.0	21	75-125	J	6020/DOD
Thallium	4.53		0.15		4.90	89	82-110		6020/DOD
Vanadium	71.9		19		49.0	108	39-129		6020/DOD
Zinc	103		68		49.0	71	10-199	Q	6020/DOD
Potassium	5730		890		4900	99	70-130		6020/DOD
Selenium	0.901		0.35	J	0.980	57	39-116		6020/DOD

SSR = Spiked Sample Result

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

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0015M-0001,0002-SO PDS Lab ID: 240-22663-5 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	4.71		0.030	J	4.50	104	80-120		6020/DOD
Aluminum	12500		13000		180	-20	80-120		6020/DOD
Arsenic	13.6		10		3.60	95	80-120		6020/DOD
Barium	243		68		180	97	80-120	Q	6020/DOD
Beryllium	4.54		0.58		4.50	88	80-120	Q	6020/DOD
Calcium	4860		590		4500	95	80-120		6020/DOD
Cadmium	4.36		0.20		4.50	92	80-120	Q	6020/DOD
Chromium	35.4		17		18.0	103	80-120		6020/DOD
Cobalt	56.8		11		45.0	102	80-120	Q	6020/DOD
Copper	42.3		20		22.5	100	80-120	Q	6020/DOD
Iron	26100		26000		90.1	-110	80-120		6020/DOD
Magnesium	7710		3200		4500	99	80-120		6020/DOD
Manganese	307		260		45.0	99	80-120	Q	6020/DOD
Sodium	4670		40		4500	103	80-120		6020/DOD
Nickel	70.9		26		45.0	101	80-120		6020/DOD
Lead	14.1		12		1.80	90	80-120	Q	6020/DOD
Antimony	38.7		0.090	U	45.0	86	80-120		6020/DOD
Thallium	4.89		0.17		4.50	105	80-120		6020/DOD
Vanadium	65.4		19		45.0	104	80-120		6020/DOD
Zinc	112		74		45.0	86	80-120	Q	6020/DOD
Potassium	5690		1200		4500	100	80-120		6020/DOD
Selenium	1.06		0.28	J	0.901	87	80-120		6020/DOD

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 073SB-0040M-0001,0002-SO PDS Lab ID: 240-22663-16 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.19		0.017	J	4.95	105	80-120		6020/DOD
Aluminum	6950		7000		198	-36	80-120		6020/DOD
Arsenic	16.0		12		3.96	92	80-120		6020/DOD
Barium	234		36		198	100	80-120	Q	6020/DOD
Beryllium	4.78		0.41		4.95	88	80-120	Q	6020/DOD
Calcium	5440		670		4950	96	80-120		6020/DOD
Cadmium	4.70		0.12		4.95	92	80-120	Q	6020/DOD
Chromium	31.3		10		19.8	105	80-120		6020/DOD
Cobalt	60.6		8.3		49.5	106	80-120	Q	6020/DOD
Copper	43.1		17		24.8	104	80-120	Q	6020/DOD
Iron	20400		20000		99.0	10	80-120		6020/DOD
Magnesium	7120		2200		4950	99	80-120		6020/DOD
Manganese	346		300		49.5	98	80-120	Q	6020/DOD
Sodium	5130		41		4950	103	80-120		6020/DOD
Nickel	71.4		19		49.5	105	80-120		6020/DOD
Lead	13.1		11		1.98	92	80-120	Q	6020/DOD
Antimony	43.7		0.047	J	49.5	88	80-120		6020/DOD
Thallium	5.31		0.11		4.95	105	80-120		6020/DOD
Vanadium	64.4		12		49.5	107	80-120		6020/DOD
Zinc	93.9		51		49.5	86	80-120	Q	6020/DOD
Potassium	5780		760		4950	101	80-120		6020/DOD
Selenium	1.03		0.17	J	0.990	87	80-120		6020/DOD

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SB-0024M-0001,0002-SO PDS Lab ID: 240-22663-24 PDS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.24		0.030	J	4.85	107	80-120		6020/DOD
Aluminum	11900		12000		194	-20	80-120		6020/DOD
Arsenic	13.7		10		3.88	93	80-120		6020/DOD
Barium	271		72		194	102	80-120	Q	6020/DOD
Beryllium	5.08		0.55		4.85	93	80-120	Q	6020/DOD
Calcium	5760		1000		4850	98	80-120		6020/DOD
Cadmium	4.77		0.18		4.85	95	80-120	Q	6020/DOD
Chromium	36.2		15		19.4	107	80-120		6020/DOD
Cobalt	62.6		11		48.5	107	80-120	Q	6020/DOD
Copper	42.3		17		24.3	104	80-120	Q	6020/DOD
Iron	24800		25000		97.1	0	80-120		6020/DOD
Magnesium	7760		2800		4850	101	80-120		6020/DOD
Manganese	315		260		48.5	107	80-120	Q	6020/DOD
Sodium	5160		35		4850	106	80-120		6020/DOD
Nickel	72.9		21		48.5	106	80-120		6020/DOD
Lead	14.1		12		1.94	90	80-120	Q	6020/DOD
Antimony	44.2		0.097	U	48.5	91	80-120		6020/DOD
Thallium	5.29		0.15		4.85	106	80-120		6020/DOD
Vanadium	71.7		19		48.5	109	80-120		6020/DOD
Zinc	112		68		48.5	89	80-120	Q	6020/DOD
Potassium	5940		890		4850	104	80-120		6020/DOD
Selenium	1.23		0.35	J	0.971	91	80-120		6020/DOD

SSR = Spiked Sample Result

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

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0015M-0001,0002-SO DU Lab ID: 240-22663-5 DU

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.10	0.016	J	0.0251	J	45		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 073SB-0040M-0001,0002-SO DU Lab ID: 240-22663-16 DU

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.10	0.033	U	0.0276	J	NC		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0024M-0001,0002-SO DU Lab ID: 240-22663-24 DU

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.10	0.025	J	0.0235	J	4		7471/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0015M-0001,0002-SO DU Lab ID: 240-22663-5 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.087	0.030	J	0.0263	J	12		6020/DOD
Aluminum	2.6	13000		12700		0.8		6020/DOD
Arsenic	0.087	10		10.5		2		6020/DOD
Barium	0.87	68		68.5		1	Q	6020/DOD
Beryllium	0.087	0.58		0.577		0.6	Q	6020/DOD
Calcium	8.7	590		561		5		6020/DOD
Cadmium	0.087	0.20		0.194		3	Q	6020/DOD
Chromium	0.17	17		17.0		0.4		6020/DOD
Cobalt	0.043	11		10.4		5	Q	6020/DOD
Copper	0.17	20		19.9		0.7	Q	6020/DOD
Iron	4.3	26000		26400		0.7		6020/DOD
Magnesium	8.7	3200		3250		0.6		6020/DOD
Manganese	0.43	260		260		1	Q	6020/DOD
Sodium	8.7	40		44.9		11		6020/DOD
Nickel	0.087	26		26.0		2		6020/DOD
Lead	0.087	12		12.4		1	Q	6020/DOD
Antimony	0.17	0.090	U	0.087	U	NC		6020/DOD
Thallium	0.087	0.17		0.170		1		6020/DOD
Vanadium	0.087	19		18.9		1		6020/DOD
Zinc	0.43	74		73.3		0.5	Q	6020/DOD
Potassium	8.7	1200		1230		2		6020/DOD
Selenium	0.43	0.28	J	0.285	J	1		6020/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 073SB-0040M-0001,0002-SO DU Lab ID: 240-22663-16 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.098	0.017	J	0.0185	J	10		6020/DOD
Aluminum	2.9	7000		6930		1		6020/DOD
Arsenic	0.098	12		11.9		4		6020/DOD
Barium	0.98	36		35.4		0.7	Q	6020/DOD
Beryllium	0.098	0.41		0.384		5	Q	6020/DOD
Calcium	9.8	670		669		0.07		6020/DOD
Cadmium	0.098	0.12		0.142		15	Q	6020/DOD
Chromium	0.20	10		10.4		0.7		6020/DOD
Cobalt	0.049	8.3		8.49		2	Q	6020/DOD
Copper	0.20	17		17.1		2	Q	6020/DOD
Iron	4.9	20000		20400		0.2		6020/DOD
Magnesium	9.8	2200		2200		1		6020/DOD
Manganese	0.49	300		324		9	Q	6020/DOD
Sodium	9.8	41		41.0		0.9		6020/DOD
Nickel	0.098	19		19.5		0.8		6020/DOD
Lead	0.098	11		11.3		0.02	Q	6020/DOD
Antimony	0.20	0.047	J	0.098	U	NC		6020/DOD
Thallium	0.098	0.11		0.111		0.9		6020/DOD
Vanadium	0.098	12		11.2		3		6020/DOD
Zinc	0.49	51		52.4		2	Q	6020/DOD
Potassium	9.8	760		751		0.6		6020/DOD
Selenium	0.49	0.17	J	0.218	J	22		6020/DOD

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 079SB-0024M-0001,0002-SO DU Lab ID: 240-22663-24 DU

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	0.097	0.030	J	0.0326	J	9		6020/DOD
Aluminum	2.9	12000		11900		0.3		6020/DOD
Arsenic	0.097	10		10.6		5		6020/DOD
Barium	0.97	72		71.8		0.2	Q	6020/DOD
Beryllium	0.097	0.55		0.587		6	Q	6020/DOD
Calcium	9.7	1000		1030		1		6020/DOD
Cadmium	0.097	0.18		0.210		13	Q	6020/DOD
Chromium	0.19	15		15.6		2		6020/DOD
Cobalt	0.049	11		10.9		2	Q	6020/DOD
Copper	0.19	17		17.4		2	Q	6020/DOD
Iron	4.9	25000		26000		5		6020/DOD
Magnesium	9.7	2800		2830		0.4		6020/DOD
Manganese	0.49	260		283		7	Q	6020/DOD
Sodium	9.7	35		34.7		2		6020/DOD
Nickel	0.097	21		21.3		0.4		6020/DOD
Lead	0.097	12		13.1		6	Q	6020/DOD
Antimony	0.19	0.097	U	0.097	U	NC		6020/DOD
Thallium	0.097	0.15		0.156		3		6020/DOD
Vanadium	0.097	19		19.5		4		6020/DOD
Zinc	0.49	68		68.8		0.6	Q	6020/DOD
Potassium	9.7	890		882		1		6020/DOD
Selenium	0.49	0.35	J	0.375	J	8		6020/DOD

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-81976/2-A

Lab Name: TestAmerica Canton Job No.: 240-22663-1

Sample Matrix: Solid LCS Source: MTHGCALW_00354

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.837		100	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-82179/2-A

Lab Name: TestAmerica Canton Job No.: 240-22663-1

Sample Matrix: Solid LCS Source: MTHGCALW_00355

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.898		108	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-82367/2-A

Lab Name: TestAmerica Canton Job No.: 240-22663-1

Sample Matrix: Solid LCS Source: MTHGCALW_00356

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.783		94	80	120		7471/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-69114/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.55	4.17		92	60	114		6020/DOD
Aluminum	182	178		98	80	120		6020/DOD
Arsenic	3.64	3.12		86	73	110		6020/DOD
Barium	182	171		94	70	110	Q	6020/DOD
Beryllium	4.55	4.04		89	79	110	Q	6020/DOD
Calcium	4550	4210		93	80	120		6020/DOD
Cadmium	4.55	3.83		84	74	110	Q	6020/DOD
Chromium	18.2	18.0		99	70	110		6020/DOD
Cobalt	45.5	45.6		100	74	110	Q	6020/DOD
Copper	22.7	23.4		103	73	110	Q	6020/DOD
Iron	90.9	90.4		99	80	120		6020/DOD
Magnesium	4550	4480		99	80	120		6020/DOD
Manganese	45.5	44.1		97	80	120	Q	6020/DOD
Sodium	4550	4490		99	80	120		6020/DOD
Nickel	45.5	46.0		101	75	110		6020/DOD
Lead	1.82	1.67		92	75	110	Q	6020/DOD
Antimony	45.5	38.8		85	68	113		6020/DOD
Thallium	4.55	4.17		92	71	110		6020/DOD
Vanadium	45.5	45.1		99	72	110		6020/DOD
Zinc	45.5	38.0		84	72	113	Q	6020/DOD
Potassium	4550	4390		97	80	120		6020/DOD
Selenium	0.909	0.750		83	65	110		6020/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-69160/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.81	4.43		92	60	114		6020/DOD
Aluminum	192	192		100	80	120		6020/DOD
Arsenic	3.85	3.30		86	73	110		6020/DOD
Barium	192	182		95	70	110	Q	6020/DOD
Beryllium	4.81	4.15		86	79	110	Q	6020/DOD
Calcium	4810	4480		93	80	120		6020/DOD
Cadmium	4.81	4.07		85	74	110	Q	6020/DOD
Chromium	19.2	18.8		98	70	110		6020/DOD
Cobalt	48.1	48.0		100	74	110	Q	6020/DOD
Copper	24.0	24.7		103	73	110	Q	6020/DOD
Iron	96.2	99.3		103	80	120		6020/DOD
Magnesium	4810	4780		99	80	120		6020/DOD
Manganese	48.1	46.5		97	80	120	Q	6020/DOD
Sodium	4810	4780		99	80	120		6020/DOD
Nickel	48.1	49.1		102	75	110		6020/DOD
Lead	1.92	1.81		94	75	110	Q	6020/DOD
Antimony	48.1	41.5		86	68	113		6020/DOD
Thallium	4.81	4.51		94	71	110		6020/DOD
Vanadium	48.1	47.8		99	72	110		6020/DOD
Zinc	48.1	40.5		84	72	113	Q	6020/DOD
Potassium	4810	4690		97	80	120		6020/DOD
Selenium	0.962	0.815		85	65	110		6020/DOD

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-69260/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

Sample Matrix: Solid LCS Source: MTAPITTICPMS_00014

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	4.76	4.38		92	60	114		6020/DOD
Aluminum	190	186		98	80	120		6020/DOD
Arsenic	3.81	3.34		88	73	110		6020/DOD
Barium	190	181		95	70	110	Q	6020/DOD
Beryllium	4.76	4.12		86	79	110	Q	6020/DOD
Calcium	4760	4370		92	80	120		6020/DOD
Cadmium	4.76	4.19		88	74	110	Q	6020/DOD
Chromium	19.0	18.4		97	70	110		6020/DOD
Cobalt	47.6	46.9		99	74	110	Q	6020/DOD
Copper	23.8	24.5		103	73	110	Q	6020/DOD
Iron	95.2	96.1		101	80	120		6020/DOD
Magnesium	4760	4590		96	80	120		6020/DOD
Manganese	47.6	45.5		96	80	120	Q	6020/DOD
Sodium	4760	4630		97	80	120		6020/DOD
Nickel	47.6	48.2		101	75	110		6020/DOD
Lead	1.90	1.79		94	75	110	Q	6020/DOD
Antimony	47.6	41.4		87	68	113		6020/DOD
Thallium	4.76	4.46		94	71	110		6020/DOD
Vanadium	47.6	46.4		98	72	110		6020/DOD
Zinc	47.6	40.5		85	72	113	Q	6020/DOD
Potassium	4760	4580		96	80	120		6020/DOD
Selenium	0.952	0.812		85	65	110		6020/DOD

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

FORM VIIA - IN

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

Lab ID: 240-22663-5

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22663-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.030	J	0.14	U	NC		6020/DOD
Aluminum	13000		12500		0.14	D	6020/DOD
Arsenic	10		11.3		9.9	D	6020/DOD
Barium	68		69.5		2.4	D Q	6020/DOD
Beryllium	0.58		0.626		7.9	D Q	6020/DOD
Calcium	590		608		2.9	D	6020/DOD
Cadmium	0.20		0.235	J	NC	D Q	6020/DOD
Chromium	17		17.1		0.58	D	6020/DOD
Cobalt	11		10.9		0.62	D Q	6020/DOD
Copper	20		20.7		4.5	D Q	6020/DOD
Iron	26000		26200		0.29	D	6020/DOD
Magnesium	3200		3170		1.9	D	6020/DOD
Manganese	260		260		0.91	D Q	6020/DOD
Sodium	40		41.6	J	NC	D	6020/DOD
Nickel	26		26.4		3.5	D	6020/DOD
Lead	12		12.7		1.5	D Q	6020/DOD
Antimony	0.090	U	0.45	U	NC		6020/DOD
Thallium	0.17		0.172	J	NC	D	6020/DOD
Vanadium	19		18.7		0.17	D	6020/DOD
Zinc	74		85.9		17	D Q V	6020/DOD
Potassium	1200		1200		0.45	D	6020/DOD
Selenium	0.28	J	0.45	U	NC		6020/DOD

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

FORM VIII-IN

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

Lab ID: 240-22663-16

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22663-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.017	J	0.15	U	NC		6020/DOD
Aluminum	7000		6910		1.6	D	6020/DOD
Arsenic	12		12.9		4.0	D	6020/DOD
Barium	36		36.4		2.2	D Q	6020/DOD
Beryllium	0.41		0.437	J	7.8	D Q	6020/DOD
Calcium	670		685		2.3	D	6020/DOD
Cadmium	0.12		0.164	J	NC	D Q	6020/DOD
Chromium	10		10.3		2.0	D	6020/DOD
Cobalt	8.3		8.11		2.7	D Q	6020/DOD
Copper	17		17.2		1.1	D Q	6020/DOD
Iron	20000		20300		0.87	D	6020/DOD
Magnesium	2200		2160		3.3	D	6020/DOD
Manganese	300		290		2.5	D Q	6020/DOD
Sodium	41		40.4	J	NC	D	6020/DOD
Nickel	19		19.4		0.05	D	6020/DOD
Lead	11		11.5		2.1	D Q	6020/DOD
Antimony	0.047	J	0.50	U	NC		6020/DOD
Thallium	0.11		0.112	J	NC	D	6020/DOD
Vanadium	12		11.4		0.90	D	6020/DOD
Zinc	51		56.8		11	D Q V	6020/DOD
Potassium	760		750		0.73	D	6020/DOD
Selenium	0.17	J	0.50	U	NC		6020/DOD

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

FORM VIII-IN

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

Lab ID: 240-22663-24

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 240-22663-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.030	J	0.15	U	NC		6020/DOD
Aluminum	12000		12000		0.57	D	6020/DOD
Arsenic	10		9.74		3.7	D	6020/DOD
Barium	72		72.8		1.7	D Q	6020/DOD
Beryllium	0.55		0.628		13	D Q V	6020/DOD
Calcium	1000		1060		4.7	D	6020/DOD
Cadmium	0.18		0.246	J	NC	D Q	6020/DOD
Chromium	15		15.3		0.41	D	6020/DOD
Cobalt	11		10.3		2.8	D Q	6020/DOD
Copper	17		17.2		1.3	D Q	6020/DOD
Iron	25000		24500		1.5	D	6020/DOD
Magnesium	2800		2810		1.2	D	6020/DOD
Manganese	260		254		3.4	D Q	6020/DOD
Sodium	35		36.3	J	NC	D	6020/DOD
Nickel	21		21.4		0.34	D	6020/DOD
Lead	12		12.0		3.0	D Q	6020/DOD
Antimony	0.097	U	0.49	U	NC		6020/DOD
Thallium	0.15		0.149	J	NC	D	6020/DOD
Vanadium	19		18.8		0.23	D	6020/DOD
Zinc	68		75.1		9.8	D Q	6020/DOD
Potassium	890		889		0.25	D	6020/DOD
Selenium	0.35	J	0.49	U	NC		6020/DOD

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Leach Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H1

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471/DOD DL Date: 02/16/2010 09:46

Prep Method: 7471A

Leach Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: H4

Method: 7471/DOD XMDL Date: 02/16/2010 09:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.12

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD DL Date: 01/26/2010 16:34

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Aluminum	27	3	0.2849
Antimony	121	0.2	0.0459
Arsenic	75	0.1	0.0181
Barium	137	1	0.0107
Beryllium	9	0.1	0.0075
Cadmium	111	0.1	0.0132
Calcium	44	10	1.326
Chromium	52	0.2	0.0223
Cobalt	59	0.05	0.0024
Copper	65	0.2	0.033
Iron	56	5	1.077
Lead	208	0.1	0.0154
Magnesium	26	10	1.079
Manganese	55	0.5	0.0159
Nickel	60	0.1	0.0113
Potassium	39	10	3.155
Selenium	82	0.5	0.0509
Silver	107	0.1	0.0114
Sodium	23	10	2.658
Thallium	205	0.1	0.0102
Vanadium	51	0.1	0.0299
Zinc	66	0.5	0.0648

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: M

Method: 6020/DOD XMDL Date: 01/26/2010 16:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27	30	2.5662
Antimony	121	2	0.459
Arsenic	75	1	0.2908
Barium	137	10	0.098
Beryllium	9	1	0.0451
Cadmium	111	1	0.132
Calcium	44	100	9.357
Chromium	52	2	0.5433
Cobalt	59	0.5	0.0263
Copper	65	2	0.2443
Iron	56	50	10.77
Lead	208	1	0.154
Magnesium	26	100	10.8
Manganese	55	5	0.159
Nickel	60	1	0.1749
Potassium	39	100	31.6
Selenium	82	5	0.509
Silver	107	1	0.114
Sodium	23	100	26.8
Thallium	205	1	0.102
Vanadium	51	1	0.299
Zinc	66	5	0.9609

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-22663-1

SDG No.:

Instrument ID: H1 Date: 04/01/2011 10:45

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7471/DOD

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-22663-1

SDG No.:

Instrument ID: H4 Date: 04/01/2011 10:50

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7471/DOD

FORM XI - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 240-22663-1

SDG No.:

Instrument ID: M Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2500	6020/DOD
Aluminum		450000	6020/DOD
Arsenic		4500	6020/DOD
Barium		13500	6020/DOD
Beryllium		9000	6020/DOD
Calcium		1500000	6020/DOD
Cadmium		13500	6020/DOD
Chromium		13500	6020/DOD
Cobalt		13500	6020/DOD
Copper		20000	6020/DOD
Iron		450000	6020/DOD
Magnesium		1500000	6020/DOD
Manganese		25000	6020/DOD
Sodium		450000	6020/DOD
Nickel		13500	6020/DOD
Lead		20000	6020/DOD
Antimony		13500	6020/DOD
Thallium		13500	6020/DOD
Vanadium		13500	6020/DOD
Zinc		25000	6020/DOD
Potassium		450000	6020/DOD
Selenium		4500	6020/DOD

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-81976/1-A	04/15/2013 16:00	81976	0.60		100
LCS 240-81976/2-A	04/15/2013 16:00	81976	0.60		100
240-22663-5	04/15/2013 16:00	81976	0.60		100
240-22663-5 MS	04/15/2013 16:00	81976	0.60		100
240-22663-5 DU	04/15/2013 16:00	81976	0.60		100
240-22663-16	04/15/2013 16:00	81976	0.60		100
240-22663-16 MS	04/15/2013 16:00	81976	0.60		100
240-22663-16 DU	04/15/2013 16:00	81976	0.60		100
240-22663-1	04/15/2013 16:00	81976	0.66		100
240-22663-2	04/15/2013 16:00	81976	0.63		100
240-22663-3	04/15/2013 16:00	81976	0.63		100
240-22663-4	04/15/2013 16:00	81976	0.62		100
240-22663-6	04/15/2013 16:00	81976	0.61		100
240-22663-7	04/15/2013 16:00	81976	0.69		100
240-22663-8	04/15/2013 16:00	81976	0.55		100
240-22663-9	04/15/2013 16:00	81976	0.57		100
240-22663-11	04/15/2013 16:00	81976	0.54		100
240-22663-12	04/15/2013 16:00	81976	0.56		100
240-22663-13	04/15/2013 16:00	81976	0.56		100
240-22663-14	04/15/2013 16:00	81976	0.56		100
240-22663-15	04/15/2013 16:00	81976	0.61		100
240-22663-17	04/15/2013 16:00	81976	0.57		100
240-22663-18	04/15/2013 16:00	81976	0.60		100
240-22663-19	04/15/2013 16:00	81976	0.57		100
240-22663-20	04/15/2013 16:00	81976	0.53		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-82179/1-A	04/16/2013 15:50	82179	0.60		100
LCS 240-82179/2-A	04/16/2013 15:50	82179	0.60		100
240-22663-24	04/16/2013 15:50	82179	0.60		100
240-22663-24 DU	04/16/2013 15:50	82179	0.60		100
240-22663-24 MS	04/16/2013 15:50	82179	0.60		100
240-22663-21	04/16/2013 15:50	82179	0.54		100
240-22663-22	04/16/2013 15:50	82179	0.63		100
240-22663-23	04/16/2013 15:50	82179	0.69		100
240-22663-25	04/16/2013 15:50	82179	0.59		100
240-22663-26	04/16/2013 15:50	82179	0.67		100
240-22663-27	04/16/2013 15:50	82179	0.65		100
240-22663-28	04/16/2013 15:50	82179	0.62		100
240-22663-29	04/16/2013 15:50	82179	0.56		100
240-22663-31	04/16/2013 15:50	82179	0.53		100
240-22663-32	04/16/2013 15:50	82179	0.55		100
240-22663-33	04/16/2013 15:50	82179	0.60		100
240-22663-34	04/16/2013 15:50	82179	0.59		100
240-22663-35	04/16/2013 15:50	82179	0.54		100
240-22663-36	04/16/2013 15:50	82179	0.54		100
240-22663-37	04/16/2013 15:50	82179	0.60		100
240-22663-38	04/16/2013 15:50	82179	0.56		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-82367/1-A	04/17/2013 14:55	82367	0.60		100
LCS 240-82367/2-A	04/17/2013 14:55	82367	0.60		100
240-22663-39	04/17/2013 14:55	82367	0.67		100
240-22663-40	04/17/2013 14:55	82367	0.61		100
240-22663-41	04/17/2013 14:55	82367	0.64		100
240-22663-43	04/17/2013 14:55	82367	0.57		100
240-22663-44	04/17/2013 14:55	82367	0.64		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-69114/1-A	04/15/2013 08:11	69114	00001.17		100
LCS 180-69114/2-A	04/15/2013 08:11	69114	00001.10		100
240-22663-1	04/15/2013 08:11	69114	00001.17		100
240-22663-2	04/15/2013 08:11	69114	00001.06		100
240-22663-3	04/15/2013 08:11	69114	00001.09		100
240-22663-4	04/15/2013 08:11	69114	00001.16		100
240-22663-5	04/15/2013 08:11	69114	00001.11		100
240-22663-5 DU	04/15/2013 08:11	69114	00001.15		100
240-22663-5 MS	04/15/2013 08:11	69114	00001.12		100
240-22663-6	04/15/2013 08:11	69114	00001.19		100
240-22663-7	04/15/2013 08:11	69114	00001.01		100
240-22663-8	04/15/2013 08:11	69114	00001.08		100
240-22663-9	04/15/2013 08:11	69114	00001.07		100
240-22663-11	04/15/2013 08:11	69114	00001.09		100
240-22663-12	04/15/2013 08:11	69114	00001.15		100
240-22663-13	04/15/2013 08:11	69114	00001.24		100
240-22663-14	04/15/2013 08:11	69114	00001.08		100
240-22663-15	04/15/2013 08:11	69114	00001.24		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-69160/1-A	04/15/2013 12:19	69160	00001.12		100
LCS 180-69160/2-A	04/15/2013 12:19	69160	00001.04		100
240-22663-16	04/15/2013 12:19	69160	00001.01		100
240-22663-16 DU	04/15/2013 12:19	69160	00001.02		100
240-22663-16 MS	04/15/2013 12:19	69160	00001.02		100
240-22663-17	04/15/2013 12:19	69160	00001.04		100
240-22663-18	04/15/2013 12:19	69160	00001.00		100
240-22663-19	04/15/2013 12:19	69160	00001.04		100
240-22663-20	04/15/2013 12:19	69160	00001.02		100
240-22663-21	04/15/2013 12:19	69160	00001.02		100
240-22663-22	04/15/2013 12:19	69160	00001.02		100
240-22663-23	04/15/2013 12:19	69160	00001.00		100
240-22663-25	04/15/2013 12:19	69160	00001.04		100
240-22663-26	04/15/2013 12:19	69160	00001.04		100
240-22663-27	04/15/2013 12:19	69160	00001.03		100
240-22663-28	04/15/2013 12:19	69160	00001.05		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-69260/1-A	04/16/2013 11:32	69260	00001.02		100
LCS 180-69260/2-A	04/16/2013 11:32	69260	00001.05		100
240-22663-24	04/16/2013 11:32	69260	00001.03		100
240-22663-24 DU	04/16/2013 11:32	69260	00001.03		100
240-22663-24 MS	04/16/2013 11:32	69260	00001.02		100
240-22663-29	04/16/2013 11:32	69260	00001.04		100
240-22663-31	04/16/2013 11:32	69260	00001.01		100
240-22663-32	04/16/2013 11:32	69260	00001.00		100
240-22663-33	04/16/2013 11:32	69260	00001.01		100
240-22663-34	04/16/2013 11:32	69260	00001.03		100
240-22663-35	04/16/2013 11:32	69260	00001.00		100
240-22663-36	04/16/2013 11:32	69260	00001.00		100
240-22663-37	04/16/2013 11:32	69260	00001.00		100
240-22663-38	04/16/2013 11:32	69260	00001.00		100
240-22663-39	04/16/2013 11:32	69260	00001.01		100
240-22663-40	04/16/2013 11:32	69260	00001.03		100
240-22663-41	04/16/2013 11:32	69260	00001.02		100
240-22663-43	04/16/2013 11:32	69260	00001.05		100
240-22663-44	04/16/2013 11:32	69260	00001.04		100

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/16/2013 11:06 End Date: 04/16/2013 14:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 240-82099/1-A			11:06	X																			
IC 240-82099/2-A			11:08	X																			
IC 240-82099/3-A			11:09	X																			
IC 240-82099/4-A			11:10	X																			
IC 240-82099/5-A			11:12	X																			
IC 240-82099/6-A			11:13	X																			
ICV 240-82099/7-A	1		11:15	X																			
ICB 240-82099/8-A	1		11:16	X																			
CRA 240-82099/9-A	1		11:18	X																			
CCV 240-82099/10-A			11:19																				
CCB 240-82099/11-A			11:20																				
ZZZZZZ			11:22																				
ZZZZZZ			11:23																				
ZZZZZZ			11:25																				
ZZZZZZ			11:26																				
ZZZZZZ			11:27																				
ZZZZZZ			11:29																				
ZZZZZZ			11:30																				
ZZZZZZ			11:32																				
ZZZZZZ			11:33																				
ZZZZZZ			11:35																				
CCV 240-82099/10-A			11:36																				
CCB 240-82099/11-A			11:38																				
ZZZZZZ			11:39																				
ZZZZZZ			11:41																				
ZZZZZZ			11:44																				
ZZZZZZ			11:46																				
ZZZZZZ			11:47																				
ZZZZZZ			11:49																				
CCV 240-82099/10-A	1		11:51	X																			
CCB 240-82099/11-A	1		11:52	X																			
ZZZZZZ			11:53																				
ZZZZZZ			11:55																				
ZZZZZZ			11:56																				
ZZZZZZ			11:57																				
ZZZZZZ			11:59																				
ZZZZZZ			12:00																				
ZZZZZZ			12:02																				
ZZZZZZ			12:03																				
MB 240-81976/1-A	1	T	12:04	X																			
LCS 240-81976/2-A	1	T	12:06	X																			
CCV 240-82099/10-A	1		12:07	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/16/2013 11:06 End Date: 04/16/2013 14:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCB 240-82099/11-A	1		12:09	X																			
240-22663-5	1	T	12:10	X																			
240-22663-5 MS	1	T	12:11	X																			
240-22663-5 DU	1	T	12:14	X																			
240-22663-16	1	T	12:15	X																			
240-22663-16 MS	1	T	12:17	X																			
240-22663-16 DU	1	T	12:18	X																			
ZZZZZZ			12:19																				
240-22663-1	1	T	12:21	X																			
240-22663-2	1	T	12:22	X																			
240-22663-3	1	T	12:24	X																			
CCV 240-82099/10-A	1		12:25	X																			
CCB 240-82099/11-A	1		12:28	X																			
240-22663-4	1	T	12:29	X																			
240-22663-6	1	T	12:31	X																			
240-22663-7	1	T	12:32	X																			
240-22663-8	1	T	12:33	X																			
240-22663-9	1	T	12:36	X																			
240-22663-11	1	T	12:37	X																			
240-22663-12	1	T	12:40	X																			
240-22663-13	1	T	12:41	X																			
240-22663-14	1	T	12:42	X																			
240-22663-15	1	T	12:43	X																			
CCV 240-82099/10-A	1		12:45	X																			
CCB 240-82099/11-A	1		12:46	X																			
240-22663-17	1	T	12:48	X																			
240-22663-18	1	T	12:49	X																			
240-22663-19	1	T	12:51	X																			
240-22663-20	1	T	12:53	X																			
ZZZZZZ			12:55																				
ZZZZZZ			12:57																				
ZZZZZZ			12:58																				
ZZZZZZ			13:00																				
ZZZZZZ			13:01																				
ZZZZZZ			13:04																				
CCV 240-82099/10-A	1		13:05	X																			
CCB 240-82099/11-A	1		13:07	X																			
ZZZZZZ			13:09																				
ZZZZZZ			13:10																				
ZZZZZZ			13:11																				
ZZZZZZ			13:14																				
ZZZZZZ			13:15																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/16/2013 11:06 End Date: 04/16/2013 14:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:16																				
ZZZZZZ			13:18																				
ZZZZZZ			13:19																				
ZZZZZZ			13:21																				
ZZZZZZ			13:23																				
CCV 240-82099/10-A			13:24																				
CCB 240-82099/11-A			13:25																				
ZZZZZZ			13:28																				
ZZZZZZ			13:30																				
ZZZZZZ			13:31																				
ZZZZZZ			13:32																				
ZZZZZZ			13:34																				
ZZZZZZ			13:35																				
ZZZZZZ			13:36																				
ZZZZZZ			13:38																				
ZZZZZZ			13:39																				
ZZZZZZ			13:41																				
CCV 240-82099/10-A			13:43																				
CCB 240-82099/11-A			13:44																				
ZZZZZZ			13:45																				
ZZZZZZ			13:47																				
ZZZZZZ			13:48																				
ZZZZZZ			13:50																				
ZZZZZZ			13:52																				
ZZZZZZ			13:53																				
ZZZZZZ			13:54																				
ZZZZZZ			13:56																				
ZZZZZZ			13:57																				
ZZZZZZ			13:58																				
CCV 240-82099/10-A			14:00																				
CCB 240-82099/11-A			14:01																				
ZZZZZZ			14:02																				
ZZZZZZ			14:04																				
ZZZZZZ			14:05																				
ZZZZZZ			14:07																				
ZZZZZZ			14:08																				
ZZZZZZ			14:09																				
CCV 240-82099/10-A			14:11																				
CCB 240-82099/11-A			14:12																				
CRA 240-82099/9-A	1		14:33	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/16/2013 11:06 End Date: 04/16/2013 14:33

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/19/2013 09:14 End Date: 04/19/2013 14:24

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
IC 240-82640/1-A			09:14	X																				
IC 240-82640/2-A			09:15	X																				
IC 240-82640/1-A			09:18	X																				
IC 240-82640/1-A			09:20	X																				
IC 240-82640/2-A			09:21	X																				
IC 240-82640/3-A			09:23	X																				
IC 240-82640/4-A			09:24	X																				
IC 240-82640/5-A			09:26	X																				
IC 240-82640/6-A			09:27	X																				
ICV 240-82640/7-A	1		09:29	X																				
ICB 240-82640/8-A	1		09:31	X																				
CRA 240-82640/9-A	1		09:32	X																				
CCV 240-82640/10-A			09:34																					
CCB 240-82640/11-A			09:36																					
ZZZZZZ			09:37																					
ZZZZZZ			09:39																					
ZZZZZZ			09:41																					
ZZZZZZ			09:43																					
ZZZZZZ			09:45																					
ZZZZZZ			09:46																					
ZZZZZZ			09:48																					
ZZZZZZ			09:49																					
ZZZZZZ			09:51																					
ZZZZZZ			09:52																					
CCV 240-82640/10-A	1		09:53	X																				
CCB 240-82640/11-A	1		09:55	X																				
ZZZZZZ			09:56																					
ZZZZZZ			09:58																					
ZZZZZZ			10:00																					
ZZZZZZ			10:01																					
ZZZZZZ			10:03																					
MB 240-82367/1-A	1	T	10:04	X																				
LCS 240-82367/2-A	1	T	10:06	X																				
ZZZZZZ			10:07																					
ZZZZZZ			10:08																					
ZZZZZZ			10:10																					
CCV 240-82640/10-A	1		10:11	X																				
CCB 240-82640/11-A	1		10:13	X																				
ZZZZZZ			10:15																					
240-22663-39	1	T	10:17	X																				
240-22663-40	1	T	10:18	X																				
240-22663-41	1	T	10:20	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/19/2013 09:14 End Date: 04/19/2013 14:24

Lab Sample ID	D/F	Type	Time	Analytes																				
				Hg																				
240-22663-43	1	T	10:21	X																				
240-22663-44	1	T	10:23	X																				
ZZZZZZ			10:25																					
ZZZZZZ			10:27																					
CRA 240-82640/9-A	1		10:28	X																				
ZZZZZZ			10:33																					
CCV 240-82640/10-A	1		10:35	X																				
CCB 240-82640/11-A	1		10:37	X																				
ZZZZZZ			10:39																					
ZZZZZZ			10:40																					
ZZZZZZ			10:42																					
ZZZZZZ			10:43																					
ZZZZZZ			10:45																					
ZZZZZZ			10:47																					
ZZZZZZ			10:48																					
ZZZZZZ			10:50																					
ZZZZZZ			10:51																					
ZZZZZZ			10:52																					
CCV 240-82640/10-A			10:54																					
CCB 240-82640/11-A			10:55																					
ZZZZZZ			10:57																					
ZZZZZZ			10:58																					
ZZZZZZ			10:59																					
ZZZZZZ			11:01																					
ZZZZZZ			11:02																					
ZZZZZZ			11:04																					
ZZZZZZ			11:06																					
ZZZZZZ			11:07																					
ZZZZZZ			11:09																					
ZZZZZZ			11:10																					
CCV 240-82640/10-A			11:12																					
CCB 240-82640/11-A			11:13																					
ZZZZZZ			11:14																					
ZZZZZZ			11:16																					
ZZZZZZ			11:18																					
ZZZZZZ			11:19																					
ZZZZZZ			11:21																					
ZZZZZZ			11:22																					
ZZZZZZ			11:24																					
ZZZZZZ			11:25																					
ZZZZZZ			11:27																					
ZZZZZZ			11:29																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H1 Method: 7471/DOD

Start Date: 04/19/2013 09:14 End Date: 04/19/2013 14:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCV 240-82640/10-A			11:30																				
CCB 240-82640/11-A			11:31																				
ZZZZZZ			11:33																				
ZZZZZZ			11:34																				
ZZZZZZ			11:35																				
ZZZZZZ			11:37																				
ZZZZZZ			11:38																				
ZZZZZZ			11:40																				
ZZZZZZ			11:42																				
ZZZZZZ			11:44																				
ZZZZZZ			11:45																				
ZZZZZZ			11:47																				
CCV 240-82640/10-A			11:48																				
CCB 240-82640/11-A			11:50																				
ZZZZZZ			11:51																				
ZZZZZZ			11:53																				
ZZZZZZ			11:54																				
ZZZZZZ			11:56																				
CCV 240-82640/10-A			11:57																				
CCB 240-82640/11-A			11:59																				
CCV 240-82640/10-A			14:11																				
CCB 240-82640/11-A			14:12																				
ZZZZZZ			14:13																				
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
ZZZZZZ			14:19																				
ZZZZZZ			14:21																				
CCV 240-82640/10-A			14:22																				
CCB 240-82640/11-A			14:24																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H4 Method: 7471/DOD

Start Date: 04/17/2013 08:26 End Date: 04/17/2013 10:24

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
IC 240-82099/1-A			08:26	X																				
IC 240-82099/2-A			08:29	X																				
IC 240-82099/3-A			08:31	X																				
IC 240-82099/4-A			08:32	X																				
IC 240-82099/5-A			08:34	X																				
IC 240-82099/6-A			08:36	X																				
ICV 240-82099/7-A	1		08:38	X																				
ICB 240-82099/8-A	1		08:40	X																				
CRA 240-82099/9-A	1		08:42	X																				
CCV 240-82099/10-A			08:44																					
CCB 240-82099/11-A			08:45																					
ZZZZZZ			08:49																					
ZZZZZZ			08:51																					
ZZZZZZ			08:52																					
ZZZZZZ			08:54																					
ZZZZZZ			08:57																					
ZZZZZZ			08:59																					
ZZZZZZ			09:00																					
ZZZZZZ			09:02																					
ZZZZZZ			09:04																					
ZZZZZZ			09:06																					
CCV 240-82099/10-A	1		09:08	X																				
CCB 240-82099/11-A	1		09:10	X																				
ZZZZZZ			09:12																					
ZZZZZZ			09:14																					
ZZZZZZ			09:16																					
ZZZZZZ			09:18																					
ZZZZZZ			09:20																					
ZZZZZZ			09:21																					
ZZZZZZ			09:23																					
ZZZZZZ			09:25																					
MB 240-82179/1-A	1	T	09:28	X																				
LCS 240-82179/2-A	1	T	09:30	X																				
CCV 240-82099/10-A	1		09:32	X																				
CCB 240-82099/11-A	1		09:34	X																				
240-22663-24	1	T	09:35	X																				
240-22663-24 DU	1	T	09:37	X																				
240-22663-24 MS	1	T	09:39	X																				
240-22663-21	1	T	09:42	X																				
240-22663-22	1	T	09:45	X																				
240-22663-23	1	T	09:46	X																				
240-22663-25	1	T	09:48	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: H4 Method: 7471/DOD

Start Date: 04/17/2013 08:26 End Date: 04/17/2013 10:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
240-22663-26	1	T	09:50	X																			
240-22663-27	1	T	09:52	X																			
240-22663-28	1	T	09:54	X																			
CCV 240-82099/10-A	1		09:56	X																			
CCB 240-82099/11-A	1		09:58	X																			
240-22663-29	1	T	10:00	X																			
240-22663-31	1	T	10:02	X																			
240-22663-32	1	T	10:04	X																			
240-22663-33	1	T	10:06	X																			
240-22663-34	1	T	10:07	X																			
240-22663-35	1	T	10:10	X																			
240-22663-36	1	T	10:12	X																			
240-22663-37	1	T	10:14	X																			
240-22663-38	1	T	10:16	X																			
CRA 240-82099/9-A	1		10:18	X																			
CRA 240-82099/9-A			10:19																				
CCV 240-82099/10-A	1		10:21	X																			
CCB 240-82099/11-A	1		10:24	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/04/2013 13:29 End Date: 05/05/2013 08:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ITUNE 180-70845/1			13:29																				
STD1 180-70845/2 IC	1		20:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 180-70845/3 IC	1		20:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 180-70845/4 IC	1		20:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 180-70845/5	1		21:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 180-70845/6	1		21:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70845/7	1		21:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 180-70845/8	1		21:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 180-70845/9	1		21:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/10	1		21:42		X		X					X	X	X			X		X	X			
CCV 180-70845/11	1		21:50						X						X	X		X					
CCV 180-70845/12	1		21:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB1 180-70845/13	1		22:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-69114/1-A	1	T	22:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-69114/2-A	1	T	22:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-1	1	T	22:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-2	1	T	22:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-3	1	T	22:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-5	1	T	22:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-5 SD	5	T	23:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-5 DU	1	T	23:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-5 MS	1	T	23:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-5 PDS	1	T	23:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/24	1		23:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB2 180-70845/25	1		23:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-4	1	T	23:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-6	1	T	00:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-7	1	T	00:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-8	1	T	00:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-9	1	T	00:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-11	1	T	00:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-12	1	T	00:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-13	1	T	00:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-14	1	T	00:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-15	1	T	01:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/36	1		01:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB3 180-70845/37	1		01:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-69160/1-A	1	T	01:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-69160/2-A	1	T	01:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-16	1	T	01:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-16 SD	5	T	01:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-16 DU	1	T	02:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/04/2013 13:29 End Date: 05/05/2013 08:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
240-22663-16 MS	1	T	02:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-16 PDS	1	T	02:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-17	1	T	02:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-18	1	T	02:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-19	1	T	02:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/48	1		02:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB4 180-70845/49	1		03:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-20	1	T	03:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-21	1	T	03:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-22	1	T	03:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-23	1	T	03:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-25	1	T	03:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-26	1	T	03:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-27	1	T	04:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-28	1	T	04:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 180-69260/1-A	1	T	04:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 180-69260/2-A	1	T	04:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/60	1		04:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB5 180-70845/61	1		04:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-24	1	T	04:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-24 SD	5	T	04:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-24 DU	1	T	05:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-24 MS	1	T	05:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-24 PDS	1	T	05:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-29	1	T	05:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-31	1	T	05:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-32	1	T	05:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-33	1	T	05:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-34	1	T	06:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/72	1		06:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB6 180-70845/73	1		06:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-35	1	T	06:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-36	1	T	06:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-37	1	T	06:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-38	1	T	06:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-39	1	T	07:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-40	1	T	07:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-41	1	T	07:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-43	1	T	07:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-22663-44	1	T	07:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 180-70845/83	1		07:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB7 180-70845/84	1		07:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/04/2013 13:29 End Date: 05/05/2013 08:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CRI 180-70845/85	1		07:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 180-70845/86			08:07																				
CCV 180-70845/87	1		08:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB8 180-70845/88	1		08:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/04/2013 13:29 End Date: 05/05/2013 08:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ITUNE 180-70845/1			13:29																				
STD1 180-70845/2 IC	1		20:46	X	X																		
STD2 180-70845/3 IC	1		20:51	X	X																		
STD3 180-70845/4 IC	1		20:56	X	X																		
ICV 180-70845/5	1		21:01	X	X																		
ICB 180-70845/6	1		21:09	X	X																		
CRI 180-70845/7	1		21:17	X	X																		
ICSA 180-70845/8	1		21:26	X	X																		
ICSAB 180-70845/9	1		21:34	X	X																		
CCV 180-70845/10	1		21:42		X																		
CCV 180-70845/11	1		21:50																				
CCV 180-70845/12	1		21:59	X	X																		
CCB1 180-70845/13	1		22:07	X	X																		
MB 180-69114/1-A	1	T	22:15	X	X																		
LCS 180-69114/2-A	1	T	22:23	X	X																		
240-22663-1	1	T	22:32	X	X																		
240-22663-2	1	T	22:40	X	X																		
240-22663-3	1	T	22:48	X	X																		
240-22663-5	1	T	22:56	X	X																		
240-22663-5 SD	5	T	23:04	X	X																		
240-22663-5 DU	1	T	23:12	X	X																		
240-22663-5 MS	1	T	23:21	X	X																		
240-22663-5 PDS	1	T	23:29	X	X																		
CCV 180-70845/24	1		23:37	X	X																		
CCB2 180-70845/25	1		23:45	X	X																		
240-22663-4	1	T	23:53	X	X																		
240-22663-6	1	T	00:02	X	X																		
240-22663-7	1	T	00:10	X	X																		
240-22663-8	1	T	00:18	X	X																		
240-22663-9	1	T	00:26	X	X																		
240-22663-11	1	T	00:34	X	X																		
240-22663-12	1	T	00:42	X	X																		
240-22663-13	1	T	00:51	X	X																		
240-22663-14	1	T	00:59	X	X																		
240-22663-15	1	T	01:07	X	X																		
CCV 180-70845/36	1		01:15	X	X																		
CCB3 180-70845/37	1		01:23	X	X																		
MB 180-69160/1-A	1	T	01:32	X	X																		
LCS 180-69160/2-A	1	T	01:40	X	X																		
240-22663-16	1	T	01:48	X	X																		
240-22663-16 SD	5	T	01:56	X	X																		
240-22663-16 DU	1	T	02:05	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/04/2013 13:29 End Date: 05/05/2013 08:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
240-22663-16 MS	1	T	02:13	X	X																		
240-22663-16 PDS	1	T	02:21	X	X																		
240-22663-17	1	T	02:29	X	X																		
240-22663-18	1	T	02:37	X	X																		
240-22663-19	1	T	02:46	X	X																		
CCV 180-70845/48	1		02:54	X	X																		
CCB4 180-70845/49	1		03:02	X	X																		
240-22663-20	1	T	03:10	X	X																		
240-22663-21	1	T	03:18	X	X																		
240-22663-22	1	T	03:27	X	X																		
240-22663-23	1	T	03:35	X	X																		
240-22663-25	1	T	03:43	X	X																		
240-22663-26	1	T	03:51	X	X																		
240-22663-27	1	T	04:00	X	X																		
240-22663-28	1	T	04:08	X	X																		
MB 180-69260/1-A	1	T	04:16	X	X																		
LCS 180-69260/2-A	1	T	04:24	X	X																		
CCV 180-70845/60	1		04:32	X	X																		
CCB5 180-70845/61	1		04:41	X	X																		
240-22663-24	1	T	04:49	X	X																		
240-22663-24 SD	5	T	04:57	X	X																		
240-22663-24 DU	1	T	05:05	X	X																		
240-22663-24 MS	1	T	05:14	X	X																		
240-22663-24 PDS	1	T	05:22	X	X																		
240-22663-29	1	T	05:30	X	X																		
240-22663-31	1	T	05:38	X	X																		
240-22663-32	1	T	05:47	X	X																		
240-22663-33	1	T	05:55	X	X																		
240-22663-34	1	T	06:03	X	X																		
CCV 180-70845/72	1		06:11	X	X																		
CCB6 180-70845/73	1		06:20	X	X																		
240-22663-35	1	T	06:28	X	X																		
240-22663-36	1	T	06:36	X	X																		
240-22663-37	1	T	06:44	X	X																		
240-22663-38	1	T	06:52	X	X																		
240-22663-39	1	T	07:01	X	X																		
240-22663-40	1	T	07:09	X	X																		
240-22663-41	1	T	07:17	X	X																		
240-22663-43	1	T	07:26	X	X																		
240-22663-44	1	T	07:34	X	X																		
CCV 180-70845/83	1		07:42	X	X																		
CCB7 180-70845/84	1		07:50	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Instrument ID: M Method: 6020/DOD

Start Date: 05/04/2013 13:29 End Date: 05/05/2013 08:23

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CRI 180-70845/85	1		07:59	X	X																		
CRI 180-70845/86			08:07																				
CCV 180-70845/87	1		08:15	X	X																		
CCB8 180-70845/88	1		08:23	X	X																		

Prep Types

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/04/2013 End Date: 05/05/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-70845/2 IC	20:46	100		100		100		100		100	
STD2 180-70845/3 IC	20:51	85		79		78		72		77	
STD3 180-70845/4 IC	20:56	87		82		81		80		82	
ICV 180-70845/5	21:01	89		85		84		78		82	
ICB 180-70845/6	21:09	100		100		98		99		99	
CRI 180-70845/7	21:17	109		97		96		91		97	
ICSA 180-70845/8	21:26	71		59		72		63		64	
ICSAB 180-70845/9	21:34	71		59		57		57		64	
CCV 180-70845/10	21:42	81		72		67		72		80	
CCV 180-70845/11	21:50	90		99		98		82		91	
CCV 180-70845/12	21:59	88		85		81		78		80	
CCB1 180-70845/13	22:07	117		118		110		103		101	
MB 180-69114/1-A	22:15	101		107		106		100		98	
LCS 180-69114/2-A	22:23	78		76		68		73		71	
240-22663-1	22:32	78		76		0		68		72	
240-22663-2	22:40	82		80		0		72		75	
240-22663-3	22:48	76		78		0		67		72	
240-22663-5	22:56	75		76		0		66		71	
240-22663-5 SD	23:04	87		78		87		74		76	
240-22663-5 DU	23:12	75		76		0		66		71	
240-22663-5 MS	23:21	71		72		0		59		65	
240-22663-5 PDS	23:29	69		68		0		54		64	
CCV 180-70845/24	23:37	76		72		70		67		69	
CCB2 180-70845/25	23:45	106		104		90		91		91	
240-22663-4	23:53	75		75		0		65		70	
240-22663-6	00:02	71		71		0		61		66	
240-22663-7	00:10	72		71		0		62		66	
240-22663-8	00:18	71		70		0		60		65	
240-22663-9	00:26	71		69		0		61		65	
240-22663-11	00:34	71		68		0		60		64	
240-22663-12	00:42	70		68		0		59		64	
240-22663-13	00:51	80		80		0		70		74	
240-22663-14	00:59	71		68		0		59		63	
240-22663-15	01:07	69		67		0		58		62	
CCV 180-70845/36	01:15	75		70		68		65		67	
CCB3 180-70845/37	01:23	104		102		87		91		87	
MB 180-69160/1-A	01:32	84		81		78		79		79	
LCS 180-69160/2-A	01:40	73		69		61		66		64	
240-22663-16	01:48	71		69		0		61		65	
240-22663-16 SD	01:56	82		70		83		67		68	
240-22663-16 DU	02:05	72		68		0		60		64	
240-22663-16 MS	02:13	70		68		0		58		62	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/04/2013 End Date: 05/05/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
240-22663-16 PDS	02:21	71		66		0		55		62	
240-22663-17	02:29	75		73		0		64		67	
240-22663-18	02:37	73		74		0		64		67	
240-22663-19	02:46	72		70		0		62		65	
CCV 180-70845/48	02:54	74		70		67		64		66	
CCB4 180-70845/49	03:02	98		100		86		90		86	
240-22663-20	03:10	81		79		0		69		71	
240-22663-21	03:18	72		68		0		60		63	
240-22663-22	03:27	67		65		0		56		60	
240-22663-23	03:35	68		66		0		57		61	
240-22663-25	03:43	69		65		0		58		61	
240-22663-26	03:51	67		65		0		56		60	
240-22663-27	04:00	66		62		0		55		58	
240-22663-28	04:08	70		65		0		59		61	
MB 180-69260/1-A	04:16	69		63		60		60		61	
LCS 180-69260/2-A	04:24	67		61		54		58		55	
CCV 180-70845/60	04:32	72		66		65		61		63	
CCB5 180-70845/61	04:41	119		116		100		115		94	
240-22663-24	04:49	65		61		0		53		57	
240-22663-24 SD	04:57	74		63		76		60		61	
240-22663-24 DU	05:05	66		61		0		53		56	
240-22663-24 MS	05:14	64		61		0		50		55	
240-22663-24 PDS	05:22	65		59		0		49		55	
240-22663-29	05:30	80		78		0		68		70	
240-22663-31	05:38	72		71		0		60		64	
240-22663-32	05:47	72		70		0		59		63	
240-22663-33	05:55	69		69		0		57		61	
240-22663-34	06:03	69		67		0		56		60	
CCV 180-70845/72	06:11	79		70		64		59		60	
CCB6 180-70845/73	06:20	107		105		88		91		87	
240-22663-35	06:28	70		67		0		56		60	
240-22663-36	06:36	72		71		0		60		62	
240-22663-37	06:44	71		70		0		59		63	
240-22663-38	06:52	69		66		0		56		59	
240-22663-39	07:01	70		67		0		58		60	
240-22663-40	07:09	66		64		0		53		56	
240-22663-41	07:17	69		65		0		54		57	
240-22663-43	07:26	66		62		0		51		55	
240-22663-44	07:34	66		61		0		51		55	
CCV 180-70845/83	07:42	74		65		60		55		57	
CCB7 180-70845/84	07:50	112		104		88		95		92	
CRI 180-70845/85	07:59	98		92		82		74		71	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/04/2013 End Date: 05/05/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
CCV 180-70845/87	08:15	77		69		65		59		60	
CCB8 180-70845/88	08:23	106		113		88		96		93	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/04/2013 End Date: 05/05/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 180-70845/2 IC	20:46	100		100		100					
STD2 180-70845/3 IC	20:51	82		82		72					
STD3 180-70845/4 IC	20:56	84		85		85					
ICV 180-70845/5	21:01	85		86		79					
ICB 180-70845/6	21:09	97		98		99					
CRI 180-70845/7	21:17	92		92		93					
ICSA 180-70845/8	21:26	65		65		69					
ICSAB 180-70845/9	21:34	65		65		63					
CCV 180-70845/10	21:42	71		67		73					
CCV 180-70845/11	21:50	96		97		72					
CCV 180-70845/12	21:59	84		84		75					
CCB1 180-70845/13	22:07	98		99		100					
MB 180-69114/1-A	22:15	97		97		98					
LCS 180-69114/2-A	22:23	79		80		69					
240-22663-1	22:32	74		74		66					
240-22663-2	22:40	78		77		70					
240-22663-3	22:48	79		78		65					
240-22663-5	22:56	76		75		63					
240-22663-5 SD	23:04	78		79		70					
240-22663-5 DU	23:12	77		75		64					
240-22663-5 MS	23:21	72		70		58					
240-22663-5 PDS	23:29	72		70		58					
CCV 180-70845/24	23:37	72		73		68					
CCB2 180-70845/25	23:45	91		91		93					
240-22663-4	23:53	77		75		63					
240-22663-6	00:02	72		71		60					
240-22663-7	00:10	71		70		60					
240-22663-8	00:18	71		70		60					
240-22663-9	00:26	69		68		59					
240-22663-11	00:34	70		69		58					
240-22663-12	00:42	71		69		58					
240-22663-13	00:51	80		78		66					
240-22663-14	00:59	70		69		58					
240-22663-15	01:07	72		70		58					
CCV 180-70845/36	01:15	70		70		65					
CCB3 180-70845/37	01:23	86		86		88					
MB 180-69160/1-A	01:32	78		78		80					
LCS 180-69160/2-A	01:40	71		71		61					
240-22663-16	01:48	70		69		60					
240-22663-16 SD	01:56	69		69		63					
240-22663-16 DU	02:05	69		69		60					
240-22663-16 MS	02:13	68		67		56					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/04/2013 End Date: 05/05/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
240-22663-16 PDS	02:21	68		67		56					
240-22663-17	02:29	72		71		60					
240-22663-18	02:37	72		70		59					
240-22663-19	02:46	71		70		59					
CCV 180-70845/48	02:54	67		68		63					
CCB4 180-70845/49	03:02	84		85		86					
240-22663-20	03:10	74		73		62					
240-22663-21	03:18	64		63		57					
240-22663-22	03:27	65		63		53					
240-22663-23	03:35	65		64		54					
240-22663-25	03:43	63		63		55					
240-22663-26	03:51	64		63		54					
240-22663-27	04:00	61		60		53					
240-22663-28	04:08	62		62		55					
MB 180-69260/1-A	04:16	62		62		62					
LCS 180-69260/2-A	04:24	62		63		52					
CCV 180-70845/60	04:32	65		65		60					
CCB5 180-70845/61	04:41	92		92		93					
240-22663-24	04:49	60		59		52					
240-22663-24 SD	04:57	61		62		57					
240-22663-24 DU	05:05	59		58		49					
240-22663-24 MS	05:14	57		56		47					
240-22663-24 PDS	05:22	60		58		48					
240-22663-29	05:30	72		71		59					
240-22663-31	05:38	65		65		53					
240-22663-32	05:47	65		64		52					
240-22663-33	05:55	64		63		51					
240-22663-34	06:03	63		62		50					
CCV 180-70845/72	06:11	62		62		55					
CCB6 180-70845/73	06:20	89		88		83					
240-22663-35	06:28	62		61		50					
240-22663-36	06:36	64		63		52					
240-22663-37	06:44	65		64		52					
240-22663-38	06:52	61		60		50					
240-22663-39	07:01	62		61		52					
240-22663-40	07:09	60		58		47					
240-22663-41	07:17	59		58		47					
240-22663-43	07:26	57		55		44					
240-22663-44	07:34	57		56		45					
CCV 180-70845/83	07:42	58		58		51					
CCB7 180-70845/84	07:50	88		88		87					
CRI 180-70845/85	07:59	68		67		67					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 05/04/2013 End Date: 05/05/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
CCV 180-70845/87	08:15	60		60		55					
CCB8 180-70845/88	08:23	88		88		89					

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : (7471:)

Run Date: 4/16/2013 Analyst: A. Sutherland Instrument: H1

Review Items				
A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/17/2013 Reviewed from 11:06 to 14:33

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: [signature] Date/Time: 4/17/13 Reviewed from 11:06 to 14:33

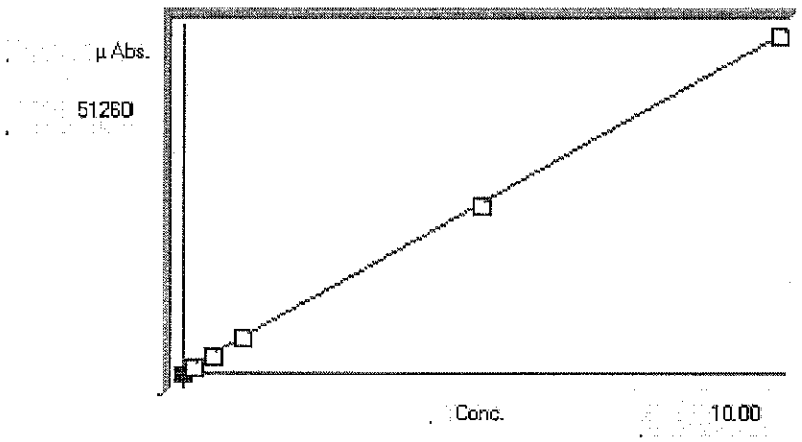
Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/16/2013 Curve Time 9:55 - 10:25 DILUTION H20 00014

Revised 11/29/2012

Protocol: 0416AHG1



Linear

Calibrated

Accepted

A

B 1.96148e-4

C -5.65353e-2

Rhc .999994

Accepted Date: 16-Apr-13 11:13

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.0151	.0151	366	1	365				
02	.20000	.1798	-.0202	1206	0%	1205				
03	.50000	.4903	-.0097	2788	0%	2788				
04	1.0000	1.014	.0140	5459	0%	5458				
05	5.0000	5.003	.0027	25793	0%	25793				
06	10.000	9.998	-.0020	51261	0%	51260				
07										
08										
09										
10										

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  1       11:06:54 16 Apr 13   HG

Hg    .0000   ppb       365

*** Standard: 2 Rep: 1                Seq:  2       11:08:12 16 Apr 13   HG

Hg    .2000   ppb       1205

*** Standard: 3 Rep: 1                Seq:  3       11:09:32 16 Apr 13   HG

Hg    .5000   ppb       2788

*** Standard: 4 Rep: 1                Seq:  4       11:10:52 16 Apr 13   HG

Hg    1.000   ppb       5458

*** Standard: 5 Rep: 1                Seq:  5       11:12:20 16 Apr 13   HG

Hg    5.000   ppb       25793

*** Standard: 6 Rep: 1                Seq:  6       11:13:40 16 Apr 13   HG

Hg    10.00   ppb       51260

*** Check Standard: 2  Ck2ICV         Seq:  7       11:15:28 16 Apr 13   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.0    2.524   2.500  ppb         .0000

*** Check Standard: 3  Ck3ICB         Seq:  8       11:16:45 16 Apr 13   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.0079   .0000  ppb         .0000

*** Check Standard: 4  Ck4CRA\MRL     Seq:  9       11:18:02 16 Apr 13   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          94.52    .1890   .2000  ppb         .0000

*** Check Standard: 6  Ck6CCV         Seq:  10      11:19:29 16 Apr 13   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.0    5.051   5.000  ppb         .0000

*** Check Standard: 1  Ck1CCB         Seq:  11      11:20:45 16 Apr 13   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.0128    .2000    ppb         .0000

*** Sample ID:                        Seq:  12      11:22:20 16 Apr 13   HG
                          MB 240-81953/1-A
Hg   -.0179   ppb       .0000    -.0179

*** Sample ID:                        Seq:  13      11:23:36 16 Apr 13   HG
                          LCS 240-81953/2-A
Hg    5.033   ppb       .0000     5.033

*** Sample ID:                        Seq:  14      11:25:26 16 Apr 13   HG
                          240-23183-B-16-D
Hg    .0496   ppb       .0000     .0496

*** Sample ID:                        Seq:  15      11:26:42 16 Apr 13   HG
                          240-23183-B-16-E MS
Hg    1.053   ppb       .0000     1.053

*** Sample ID:                        Seq:  16      11:27:58 16 Apr 13   HG
                          240-23183-B-16-F MSD
Hg    1.024   ppb       .0000     1.024
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 97 13:35:27 16 Apr 13 HG
240-23081-G-2-B
Hg 1.396 ppb .0000 1.396

*** Sample ID: Seq: 98 13:36:53 16 Apr 13 HG
240-23081-H-3-B
Hg .4266 ppb .0000 .4266

*** Sample ID: Seq: 99 13:38:33 16 Apr 13 HG
240-23081-G-4-B
Hg 1.542 ppb .0000 1.542

*** Sample ID: Seq: 100 13:39:54 16 Apr 13 HG
MB 240-81982/1-A
Hg -.0093 ppb .0000 -.0093

*** Sample ID: Seq: 101 13:41:11 16 Apr 13 HG
LCS 240-81982/2-A
Hg 5.091 ppb .0000 5.091

*** Check Standard: 6 Ck6CCV Seq: 102 13:43:03 16 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.41	4.970	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 103 13:44:29 16 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0089	.2000	ppb	.0000

*** Sample ID: Seq: 104 13:45:50 16 Apr 13 HG
240-23054-D-18-B
Hg .1741 ppb .0000 .1741

*** Sample ID: Seq: 105 13:47:18 16 Apr 13 HG
240-23054-D-18-C MS
Hg 1.179 ppb .0000 1.179

*** Sample ID: Seq: 106 13:48:37 16 Apr 13 HG
240-23054-D-18-D MSD
Hg 1.162 ppb .0000 1.162

*** Sample ID: Seq: 107 13:50:30 16 Apr 13 HG
240-23054-D-19-B
Hg .0586 ppb .0000 .0586

*** Sample ID: Seq: 108 13:52:00 16 Apr 13 HG
240-23054-D-20-B
Hg .0557 ppb .0000 .0557

*** Sample ID: Seq: 109 13:53:19 16 Apr 13 HG
240-23054-D-21-B
Hg .1000 ppb .0000 .1000

*** Sample ID: Seq: 110 13:54:36 16 Apr 13 HG
240-22954-B-7-E
Hg .2832 ppb .0000 .2832

*** Sample ID: Seq: 111 13:56:05 16 Apr 13 HG
240-23170-D-3-C
Hg .0647 ppb .0000 .0647

*** Sample ID: Seq: 112 13:57:34 16 Apr 13 HG
240-22764-I-1-A
Hg .0370 ppb .0000 .0370

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 17	11:29:34 16 Apr 13	HG		
				240-23183-B-17-B				
Hg	.0498	ppb	.0000	.0498				
*** Sample ID:				Seq: 18	11:30:51 16 Apr 13	HG		
				240-23183-B-18-B				
Hg	.0068	ppb	.0000	.0068				
*** Sample ID:				Seq: 19	11:32:34 16 Apr 13	HG		
				240-23183-B-19-B				
Hg	.0202	ppb	.0000	.0202				
*** Sample ID:				Seq: 20	11:33:51 16 Apr 13	HG		
				240-23183-B-20-B				
Hg	.0074	ppb	.0000	.0074				
*** Sample ID:				Seq: 21	11:35:08 16 Apr 13	HG		
				240-23183-B-21-B				
Hg	61.71 H	ppb	.0000	61.71				
*** Check Standard: 6 Ck6CCV				Seq: 22	11:36:34 16 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.42	4.871	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 23	11:38:03 16 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0263	.2000	ppb	.0000			
*** Sample ID:				Seq: 24	11:39:43 16 Apr 13	HG		
				240-23183-B-22-B				
Hg	.4077	ppb	.0000	.4077				
*** Sample ID:				Seq: 25	11:41:52 16 Apr 13	HG		
				240-23183-B-23-B				
Hg	.1449	ppb	.0000	.1449				
*** Sample ID:				Seq: 26	11:44:00 16 Apr 13	HG		
				240-23183-A-1-B				
Hg	.0068	ppb	.0000	.0068				
*** Sample ID:				Seq: 27	11:46:01 16 Apr 13	HG		
				240-23183-A-2-B				
Hg	1.292	ppb	.0000	1.292				
*** Sample ID:				Seq: 28	11:47:40 16 Apr 13	HG		
				240-23183-A-3-B				
Hg	.2179	ppb	.0000	.2179				
*** Sample ID:				Seq: 29	11:49:30 16 Apr 13	HG		
				240-23183-B-21-B@20				
Hg	3.075	ppb	.0000	3.075				
*** Check Standard: 6 Ck6CCV				Seq: 30	11:51:25 16 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.62	4.981	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 31	11:52:40 16 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0222	.2000	ppb	.0000			
*** Sample ID:				Seq: 32	11:53:55 16 Apr 13	HG		
				LB 240-81614/1-C				
Hg	-.0073	ppb	.0000	-.0073				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 33 11:55:12 16 Apr 13 HG
MB 240-81961/2-A
Hg -.0089 ppb .0000 -.0089

*** Sample ID: Seq: 34 11:56:38 16 Apr 13 HG
LCS 240-81961/3-A
Hg 4.637 ppb .0000 4.637

*** Sample ID: Seq: 35 11:57:53 16 Apr 13 HG
240-22911-A-1-G
Hg -.0310 ppb .0000 -.0310

ADS 4/17/2013

*** Sample ID: Seq: 36 11:59:08 16 Apr 13 HG
240-22911-A-1-H MS
Hg 4.176 ppb .0000 4.176

*** Sample ID: Seq: 37 12:00:46 16 Apr 13 HG
240-22911-A-1-I MSD
Hg 4.085 ppb .0000 4.085

*** Sample ID: Seq: 38 12:02:06 16 Apr 13 HG
240-22910-B-1-H
Hg .0064 ppb .0000 .0064

*** Sample ID: Seq: 39 12:03:24 16 Apr 13 HG
240-22829-A-8-I
Hg .0215 ppb .0000 .0215

*** Sample ID: Seq: 40 12:04:42 16 Apr 13 HG
MB 240-81976/1-A
Hg -.0150 ppb .0000 -.0150

*** Sample ID: Seq: 41 12:06:08 16 Apr 13 HG
LCS 240-81976/2-A
Hg 5.021 ppb .0000 5.021

*** Check Standard: 6 Ck6CCV Seq: 42 12:07:24 16 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.51	4.976	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 43 12:09:01 16 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0099	.2000	ppb	.0000

*** Sample ID: Seq: 44 12:10:32 16 Apr 13 HG
240-22663-D-5-E
Hg .0951 ppb .0000 .0951

*** Sample ID: Seq: 45 12:11:48 16 Apr 13 HG
240-22663-D-5-F MS
Hg 1.118 ppb .0000 1.118

*** Sample ID: Seq: 46 12:14:26 16 Apr 13 HG
240-22663-D-5-G DU
Hg .1504 ppb .0000 .1504

*** Sample ID: Seq: 47 12:15:43 16 Apr 13 HG
240-22663-E-16-E
Hg .0688 ppb .0000 .0688

*** Sample ID: Seq: 48 12:17:24 16 Apr 13 HG
240-22663-E-16-F MS
Hg 1.081 ppb .0000 1.081

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 49		12:18:39 16 Apr 13			HG
				240-22663-E-16-G DU					
Hg	.1655	ppb	.0000	.1655					
*** Sample ID:				Seq: 50		12:19:56 16 Apr 13			HG
				240-22660-C-28-B					
Hg	.0786	ppb	.0000	.0786					
*** Sample ID:				Seq: 51		12:21:13 16 Apr 13			HG
				240-22663-C-1-B					
Hg	.1245	ppb	.0000	.1245					
*** Sample ID:				Seq: 52		12:22:34 16 Apr 13			HG
				240-22663-C-2-B					
Hg	.1396	ppb	.0000	.1396					
*** Sample ID:				Seq: 53		12:24:25 16 Apr 13			HG
				240-22663-C-3-B					
Hg	.0865	ppb	.0000	.0865					
*** Check Standard: 6 Ck6CCV				Seq: 54		12:25:42 16 Apr 13			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		99.02	4.951	5.000	ppb	.0000			
*** Check Standard: 1 Ck1CCB				Seq: 55		12:28:22 16 Apr 13			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		.0123	.2000	ppb		.0000			
*** Sample ID:				Seq: 56		12:29:58 16 Apr 13			HG
				240-22663-G-4-E					
Hg	.0776	ppb	.0000	.0776					
*** Sample ID:				Seq: 57		12:31:14 16 Apr 13			HG
				240-22663-C-6-B					
Hg	.0906	ppb	.0000	.0906					
*** Sample ID:				Seq: 58		12:32:32 16 Apr 13			HG
				240-22663-G-7-E					
Hg	.0965	ppb	.0000	.0965					
*** Sample ID:				Seq: 59		12:33:50 16 Apr 13			HG
				240-22663-C-8-B					
Hg	.1345	ppb	.0000	.1345					
*** Sample ID:				Seq: 60		12:36:17 16 Apr 13			HG
				240-22663-B-9-B					
Hg	.1176	ppb	.0000	.1176					
*** Sample ID:				Seq: 61		12:37:45 16 Apr 13			HG
				240-22663-C-11-B					
Hg	.1484	ppb	.0000	.1484					
*** Sample ID:				Seq: 62		12:40:00 16 Apr 13			HG
				240-22663-C-12-B					
Hg	.0808	ppb	.0000	.0808					
*** Sample ID:				Seq: 63		12:41:17 16 Apr 13			HG
				240-22663-C-13-B					
Hg	.0680	ppb	.0000	.0680					
*** Sample ID:				Seq: 64		12:42:34 16 Apr 13			HG
				240-22663-C-14-B					
Hg	.1023	ppb	.0000	.1023					

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 65		12:43:56 16 Apr 13			HG
				240-22663-C-15-B					
Hg	.1239	ppb	.0000	.1239					
*** Check Standard: 6 Ck6CCV				Seq: 66		12:45:13 16 Apr 13			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		100.4	5.018	5.000	ppb	.0000			
*** Check Standard: 1 Ck1CCB				Seq: 67		12:46:49 16 Apr 13			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		.0019	.2000	ppb		.0000			
*** Sample ID:				Seq: 68		12:48:05 16 Apr 13			HG
				240-22663-G-17-E					
Hg	.0908	ppb	.0000	.0908					
*** Sample ID:				Seq: 69		12:49:36 16 Apr 13			HG
				240-22663-C-18-B					
Hg	.0602	ppb	.0000	.0602					
*** Sample ID:				Seq: 70		12:51:17 16 Apr 13			HG
				240-22663-C-19-B					
Hg	.0874	ppb	.0000	.0874					
*** Sample ID:				Seq: 71		12:53:45 16 Apr 13			HG
				240-22663-C-20-A					
Hg	.1304	ppb	.0000	.1304					
*** Sample ID:				Seq: 72		12:55:34 16 Apr 13			HG
				MB 240-81935/1-A					
Hg	.0111	ppb	.0000	.0111					
*** Sample ID:				Seq: 73		12:57:02 16 Apr 13			HG
				LCS 240-81935/2-A					
Hg	4.661	ppb	.0000	4.661					
*** Sample ID:				Seq: 74		12:58:48 16 Apr 13			HG
				240-23054-I-12-D					
Hg	.2861	ppb	.0000	.2861					
*** Sample ID:				Seq: 75		13:00:34 16 Apr 13			HG
				240-23054-I-12-E MS					
Hg	1.248	ppb	.0000	1.248					
*** Sample ID:				Seq: 76		13:01:50 16 Apr 13			HG
				240-23054-I-12-F MSD					
Hg	1.260	ppb	.0000	1.260					
*** Sample ID:				Seq: 77		13:04:36 16 Apr 13			HG
				240-23054-D-2-B					
Hg	.1484	ppb	.0000	.1484					
*** Check Standard: 6 Ck6CCV				Seq: 78		13:05:56 16 Apr 13			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		99.96	4.998	5.000	ppb	.0000			
*** Check Standard: 1 Ck1CCB				Seq: 79		13:07:16 16 Apr 13			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		-.0161	.2000	ppb		.0000			
*** Sample ID:				Seq: 80		13:09:03 16 Apr 13			HG
				240-23054-D-3-B					
Hg	.1592	ppb	.0000	.1592					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 81	13:10:20 16 Apr 13	HG		
				240-23054-D-4-B				
Hg	.0812	ppb	.0000	.0812				
*** Sample ID:				Seq: 82	13:11:48 16 Apr 13	HG		
				240-23054-D-5-B				
Hg	.0957	ppb	.0000	.0957				
*** Sample ID:				Seq: 83	13:14:05 16 Apr 13	HG		
				240-23054-D-6-B				
Hg	.0808	ppb	.0000	.0808				
*** Sample ID:				Seq: 84	13:15:33 16 Apr 13	HG		
				240-23054-D-7-B				
Hg	.1021	ppb	.0000	.1021				
*** Sample ID:				Seq: 85	13:16:49 16 Apr 13	HG		
				240-23054-D-8-B				
Hg	.1390	ppb	.0000	.1390				
*** Sample ID:				Seq: 86	13:18:16 16 Apr 13	HG		
				240-23054-D-9-B				
Hg	.1490	ppb	.0000	.1490				
*** Sample ID:				Seq: 87	13:19:32 16 Apr 13	HG		
				240-23054-D-10-B				
Hg	.1637	ppb	.0000	.1637				
*** Sample ID:				Seq: 88	13:21:19 16 Apr 13	HG		
				240-23054-D-11-B				
Hg	.0868	ppb	.0000	.0868				
*** Sample ID:				Seq: 89	13:23:07 16 Apr 13	HG		
				240-23054-D-13-B				
Hg	.1588	ppb	.0000	.1588				
*** Check Standard: 6 Ck6CCV				Seq: 90	13:24:34 16 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.3	5.015	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 91	13:25:49 16 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0238	.2000	ppb	.0000			
*** Sample ID:				Seq: 92	13:28:48 16 Apr 13	HG		
				240-23054-D-14-B				
Hg	.0961	ppb	.0000	.0961				
*** Sample ID:				Seq: 93	13:30:06 16 Apr 13	HG		
				240-23054-D-15-B				
Hg	.1836	ppb	.0000	.1836				
*** Sample ID:				Seq: 94	13:31:23 16 Apr 13	HG		
				240-23054-D-16-B				
Hg	.0692	ppb	.0000	.0692				
*** Sample ID:				Seq: 95	13:32:52 16 Apr 13	HG		
				240-23054-D-17-B				
Hg	.0633	ppb	.0000	.0633				
*** Sample ID:				Seq: 96	13:34:10 16 Apr 13	HG		
				240-23081-I-1-B				
Hg	1.959	ppb	.0000	1.959				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 113 13:58:52 16 Apr 13 HG
240-22764-I-2-A

Hg	.0113	ppb	.0000	.0113

*** Check Standard: 6 Ck6CCV Seq: 114 14:00:08 16 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.67	4.983	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 115 14:01:28 16 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0073	.2000	ppb	.0000

*** Sample ID: Seq: 116 14:02:49 16 Apr 13 HG
240-22764-I-3-A

Hg	.0886	ppb	.0000	.0886

*** Sample ID: Seq: 117 14:04:28 16 Apr 13 HG
240-22764-I-4-A

Hg	.2269	ppb	.0000	.2269

*** Sample ID: Seq: 118 14:05:45 16 Apr 13 HG
240-22764-H-5-A

Hg	.1773	ppb	.0000	.1773

*** Sample ID: Seq: 119 14:07:04 16 Apr 13 HG
240-22764-H-6-A

Hg	.1271	ppb	.0000	.1271

*** Sample ID: Seq: 120 14:08:25 16 Apr 13 HG
240-22764-I-7-A

Hg	.0162	ppb	.0000	.0162

*** Sample ID: Seq: 121 14:09:45 16 Apr 13 HG
240-22764-I-8-A

Hg	.0013	ppb	.0000	.0013

*** Check Standard: 6 Ck6CCV Seq: 122 14:11:03 16 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.50	4.975	5.000	ppb	.0000

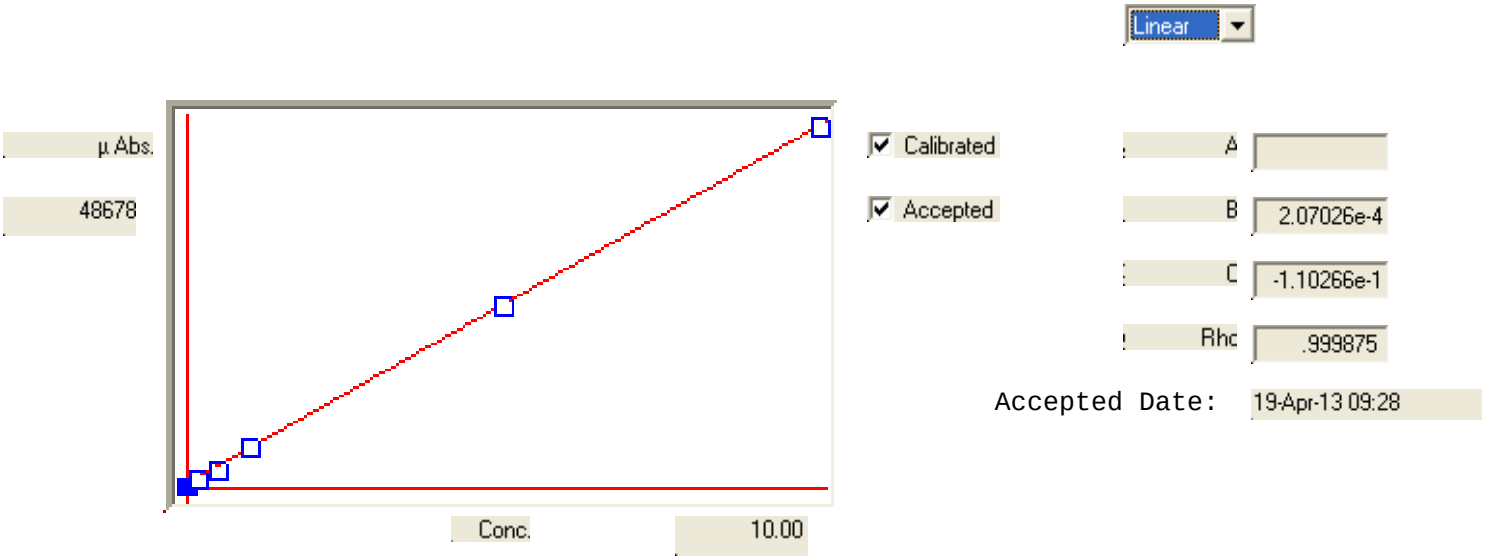
*** Check Standard: 1 Ck1CCB Seq: 123 14:12:32 16 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0073	.2000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 124 14:33:54 16 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		82.16	.1643	.2000	ppb	.0000

Protocol: 0419AHG1



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.0019	.0019	543	0	542				
02	.20000	.1334	-.0666	1177	0%	1177				
03	.50000	.4502	-.0498	2707	0%	2707				
04	1.0000	1.098	.0977	5835	0%	5835				
05	5.0000	5.049	.0494	24923	0%	24923				
06	10.000	9.967	-.0327	48679	0%	48678				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		09:14:00 19 Apr 13			HG
Hg	.0000	ppb	2544						
*** Standard: 2 Rep: 1				Seq: 2		09:15:49 19 Apr 13			HG
Hg	.2000	ppb	1228						
*** Standard: 1 Rep: 1				Seq: 3		09:18:02 19 Apr 13			HG
Hg	.0000	ppb	1059						
*** Standard: 1 Rep: 1				Seq: 4		09:20:00 19 Apr 13			HG
Hg	.0000	ppb	542						
*** Standard: 2 Rep: 1				Seq: 5		09:21:37 19 Apr 13			HG
Hg	.2000	ppb	1177						
*** Standard: 3 Rep: 1				Seq: 6		09:23:08 19 Apr 13			HG
Hg	.5000	ppb	2707						
*** Standard: 4 Rep: 1				Seq: 7		09:24:36 19 Apr 13			HG
Hg	1.000	ppb	5835						
*** Standard: 5 Rep: 1				Seq: 8		09:26:13 19 Apr 13			HG
Hg	5.000	ppb	24923						
*** Standard: 6 Rep: 1				Seq: 9		09:27:30 19 Apr 13			HG
Hg	10.00	ppb	48678						

*** Check Standard: 2 Ck2ICV Seq: 10 09:29:54 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.7	2.542	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 11 09:31:32 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	.0123	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 12 09:32:59 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		72.71	.1454	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 13 09:34:45 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.3	5.014	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 14 09:36:44 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0188	.2000	ppb	.0000

*** Sample ID: Seq: 15 09:37:59 19 Apr 13 HG
MB 240-82498/1-A

Hg	-.0829	ppb	.0000	-.0829

*** Sample ID: Seq: 16 09:39:15 19 Apr 13 HG
LCS 240-82498/2-A

Hg	4.728	ppb	.0000	4.728

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 17 09:41:14 19 Apr 13 HG
240-23018-P-4-A
Hg .0131 ppb .0000 .0131

*** Sample ID: Seq: 18 09:43:24 19 Apr 13 HG
240-23018-P-4-B MS
Hg 3.164 ppb .0000 3.164

*** Sample ID: Seq: 19 09:45:05 19 Apr 13 HG
240-23018-P-4-C MSD
Hg 1.016 ppb .0000 1.016

*** Sample ID: Seq: 20 09:46:54 19 Apr 13 HG
240-23018-F-1-B
Hg -.0544 ppb .0000 -.0544

*** Sample ID: Seq: 21 09:48:11 19 Apr 13 HG
240-23018-E-2-B
Hg .0692 ppb .0000 .0692

*** Sample ID: Seq: 22 09:49:40 19 Apr 13 HG
240-23018-E-3-B
Hg -.0388 ppb .0000 -.0388

*** Sample ID: Seq: 23 09:51:08 19 Apr 13 HG
240-23018-E-5-B
Hg -.0142 ppb .0000 -.0142

*** Sample ID: Seq: 24 09:52:24 19 Apr 13 HG
240-23018-E-6-B
Hg .1727 ppb .0000 .1727

*** Check Standard: 6 Ck6CCV Seq: 25 09:53:44 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.48	4.974	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 26 09:55:23 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0163	.2000	ppb	.0000

*** Sample ID: Seq: 27 09:56:59 19 Apr 13 HG
240-23018-F-7-B
Hg -.0225 ppb .0000 -.0225

*** Sample ID: Seq: 28 09:58:56 19 Apr 13 HG
240-23018-E-8-B
Hg -.0359 ppb .0000 -.0359

*** Sample ID: Seq: 29 10:00:14 19 Apr 13 HG
240-23018-E-9-B
Hg -.0177 ppb .0000 -.0177

*** Sample ID: Seq: 30 10:01:52 19 Apr 13 HG
240-23182-C-18-C
Hg -.0496 ppb .0000 -.0496

*** Sample ID: Seq: 31 10:03:10 19 Apr 13 HG
240-23185-D-13-B
Hg -.0169 ppb .0000 -.0169

*** Sample ID: Seq: 32 10:04:36 19 Apr 13 HG
MB 240-82367/1-A
Hg -.0569 ppb .0000 -.0569

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 33	10:06:06 19 Apr 13	HG		
				LCS 240-82367/2-A				
Hg	4.698	ppb	.0000	4.698				
*** Sample ID:				Seq: 34	10:07:23 19 Apr 13	HG		
				240-22852-I-1-J				
Hg	.1614	ppb	.0000	.1614				
*** Sample ID:				Seq: 35	10:08:50 19 Apr 13	HG		
				240-22852-I-1-K DU				
Hg	-.0055	ppb	.0000	-.0055				
*** Sample ID:				Seq: 36	10:10:08 19 Apr 13	HG		
				240-22852-I-1-L MS				
Hg	.9627	ppb	.0000	.9627				
*** Check Standard: 6 Ck6CCV				Seq: 37	10:11:34 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		98.77	4.938	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 38	10:13:30 19 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0128	.2000	ppb	.0000			
*** Sample ID:				Seq: 39	10:15:58 19 Apr 13	HG		
				240-22852-C-2-D				
Hg	.0183	ppb	.0000	.0183				
*** Sample ID:				Seq: 40	10:17:37 19 Apr 13	HG		
				240-22663-C-39-C				
Hg	.0115	ppb	.0000	.0115				
*** Sample ID:				Seq: 41	10:18:53 19 Apr 13	HG		
				240-22663-C-40-D				
Hg	.0125	ppb	.0000	.0125				
*** Sample ID:				Seq: 42	10:20:21 19 Apr 13	HG		
				240-22663-C-41-D				
Hg	.0036	ppb	.0000	.0036				
*** Sample ID:				Seq: 43	10:21:56 19 Apr 13	HG		
				240-22663-C-43-D				
Hg	-.0049	ppb	.0000	-.0049				
*** Sample ID:				Seq: 44	10:23:38 19 Apr 13	HG		
				240-22663-C-44-F				
Hg	.0237	ppb	.0000	.0237				
*** Sample ID:				Seq: 45	10:25:25 19 Apr 13	HG		
				240-22756-C-9-A				
Hg	.1905	ppb	.0000	.1905				
*** Sample ID:				Seq: 46	10:27:05 19 Apr 13	HG		
				240-22804-G-4-G				
Hg	-.0065	ppb	.0000	-.0065				
*** Check Standard: 4 Ck4CRA\MRL				Seq: 47	10:28:31 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		65.36	.1307	.2000	ppb	.0000		
*** Check Standard: 4 Ck4CRA\MRL				Seq: 48	10:33:51 19 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		65.67	.1313	.2000	ppb	.0000		

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 49 10:35:25 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.04	4.902	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 50 10:37:56 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0202	.2000	ppb	.0000

*** Sample ID: Seq: 51 10:39:23 19 Apr 13 HG
LCS 240-82350/2-A

Hg	4.759	ppb	.0000	4.759

*** Sample ID: Seq: 52 10:40:49 19 Apr 13 HG
240-23185-J-2-A

Hg	-.0039	ppb	.0000	-.0039

*** Sample ID: Seq: 53 10:42:10 19 Apr 13 HG
240-23185-J-2-B MS

Hg	.9599	ppb	.0000	.9599

*** Sample ID: Seq: 54 10:43:43 19 Apr 13 HG
240-23185-J-2-C MSD

Hg	1.052	ppb	.0000	1.052

*** Sample ID: Seq: 55 10:45:39 19 Apr 13 HG
240-23185-D-3-A

Hg	.0212	ppb	.0000	.0212

*** Sample ID: Seq: 56 10:47:06 19 Apr 13 HG
240-23185-D-4-A

Hg	-.0177	ppb	.0000	-.0177

*** Sample ID: Seq: 57 10:48:35 19 Apr 13 HG
240-23185-D-5-A

Hg	.0262	ppb	.0000	.0262

*** Sample ID: Seq: 58 10:50:01 19 Apr 13 HG
240-23185-D-6-A

Hg	-.0039	ppb	.0000	-.0039

*** Sample ID: Seq: 59 10:51:20 19 Apr 13 HG
240-23185-D-7-A

Hg	-.0051	ppb	.0000	-.0051

*** Sample ID: Seq: 60 10:52:40 19 Apr 13 HG
240-23185-D-8-A

Hg	.0040	ppb	.0000	.0040

*** Check Standard: 6 Ck6CCV Seq: 61 10:54:18 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.03	4.852	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 62 10:55:45 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0250	.2000	ppb	.0000

*** Sample ID: Seq: 63 10:57:01 19 Apr 13 HG
240-23185-D-9-A

Hg	.0874	ppb	.0000	.0874

*** Sample ID: Seq: 64 10:58:28 19 Apr 13 HG
240-23185-D-10-A

Hg	.0032	ppb	.0000	.0032

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:					Seq: 65		10:59:58 19 Apr 13		HG
					240-23185-D-11-A				
Hg	.1204	ppb	.0000	.1204					
*** Sample ID:					Seq: 66		11:01:39 19 Apr 13		HG
					240-23185-D-12-A				
Hg	-.0140	ppb	.0000	-.0140					
*** Sample ID:					Seq: 67		11:02:56 19 Apr 13		HG
					240-23195-B-1-B				
Hg	.0133	ppb	.0000	.0133					
*** Sample ID:					Seq: 68		11:04:23 19 Apr 13		HG
					240-23195-B-2-B				
Hg	.0005	ppb	.0000	.0005					
*** Sample ID:					Seq: 69		11:06:20 19 Apr 13		HG
					240-23195-B-3-B				
Hg	-.0349	ppb	.0000	-.0349					
*** Sample ID:					Seq: 70		11:07:57 19 Apr 13		HG
					240-23195-A-4-B				
Hg	.0266	ppb	.0000	.0266					
*** Sample ID:					Seq: 71		11:09:14 19 Apr 13		HG
					240-23195-B-39-B				
Hg	-.0769	ppb	.0000	-.0769					
*** Sample ID:					Seq: 72		11:10:45 19 Apr 13		HG
					240-23195-B-40-B				
Hg	.2044	ppb	.0000	.2044					
*** Check Standard: 6 Ck6CCV					Seq: 73		11:12:04 19 Apr 13		HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		96.49	4.824	5.000	ppb	.0000			
*** Check Standard: 1 Ck1CCB					Seq: 74		11:13:32 19 Apr 13		HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.0277	.2000	ppb	.0000				
*** Sample ID:					Seq: 75		11:14:49 19 Apr 13		HG
					240-23195-B-41-B				
Hg	.1473	ppb	.0000	.1473					
*** Sample ID:					Seq: 76		11:16:48 19 Apr 13		HG
					240-23195-B-42-B				
Hg	-.0633	ppb	.0000	-.0633					
*** Sample ID:					Seq: 77		11:18:15 19 Apr 13		HG
					240-23195-B-43-B				
Hg	3.668	ppb	.0000	3.668					
*** Sample ID:					Seq: 78		11:19:32 19 Apr 13		HG
					MB 240-82546/1-A				
Hg	-.1065	ppb	.0000	-.1065					
*** Sample ID:					Seq: 79		11:21:25 19 Apr 13		HG
					LCS 240-82546/2-A				
Hg	4.652	ppb	.0000	4.652					
*** Sample ID:					Seq: 80		11:22:45 19 Apr 13		HG
					240-23185-D-14-D				
Hg	-.0598	ppb	.0000	-.0598					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 81 11:24:06 19 Apr 13 HG
240-23185-D-14-E MS
Hg .9288 ppb .0000 .9288

*** Sample ID: Seq: 82 11:25:23 19 Apr 13 HG
240-23185-D-14-F MSD
Hg .9168 ppb .0000 .9168

*** Sample ID: Seq: 83 11:27:12 19 Apr 13 HG
240-23185-D-15-B
Hg .0394 ppb .0000 .0394

*** Sample ID: Seq: 84 11:29:00 19 Apr 13 HG
240-23185-D-16-B
Hg .0533 ppb .0000 .0533

*** Check Standard: 6 Ck6CCV Seq: 85 11:30:28 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.38	4.819	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 86 11:31:56 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0260	.2000	ppb	.0000

*** Sample ID: Seq: 87 11:33:12 19 Apr 13 HG
240-23185-D-17-B
Hg .0496 ppb .0000 .0496

*** Sample ID: Seq: 88 11:34:30 19 Apr 13 HG
240-23185-D-18-B
Hg .0562 ppb .0000 .0562

*** Sample ID: Seq: 89 11:35:52 19 Apr 13 HG
240-23185-D-19-B
Hg .0233 ppb .0000 .0233

*** Sample ID: Seq: 90 11:37:34 19 Apr 13 HG
240-23185-D-20-B
Hg .0576 ppb .0000 .0576

*** Sample ID: Seq: 91 11:38:51 19 Apr 13 HG
240-23185-D-21-B
Hg -.0258 ppb .0000 -.0258

*** Sample ID: Seq: 92 11:40:50 19 Apr 13 HG
240-23185-D-22-B
Hg -.0304 ppb .0000 -.0304

*** Sample ID: Seq: 93 11:42:41 19 Apr 13 HG
240-23185-D-23-B
Hg .0529 ppb .0000 .0529

*** Sample ID: Seq: 94 11:44:01 19 Apr 13 HG
240-23185-D-24-B
Hg -.0390 ppb .0000 -.0390

*** Sample ID: Seq: 95 11:45:29 19 Apr 13 HG
240-23185-D-25-B
Hg -.0349 ppb .0000 -.0349

*** Sample ID: Seq: 96 11:47:05 19 Apr 13 HG
240-23185-D-26-B
Hg .0264 ppb .0000 .0264

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 97 11:48:54 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.18	4.809	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 98 11:50:13 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0386	.2000	ppb	.0000

*** Sample ID: Seq: 99 11:51:35 19 Apr 13 HG
240-23185-D-27-B

Hg	-.0132	ppb	.0000	-.0132

*** Sample ID: Seq: 100 11:53:14 19 Apr 13 HG
240-23258-F-1-B

Hg	.0997	ppb	.0000	.0997

*** Sample ID: Seq: 101 11:54:33 19 Apr 13 HG
240-23258-F-2-B

Hg	.1090	ppb	.0000	.1090

*** Sample ID: Seq: 102 11:56:10 19 Apr 13 HG
240-23258-F-3-B

Hg	.1148	ppb	.0000	.1148

*** Check Standard: 6 Ck6CCV Seq: 103 11:57:28 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.12	4.806	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 104 11:59:05 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0306	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 105 14:11:01 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.50	4.675	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 106 14:12:39 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0212	.2000	ppb	.0000

*** Sample ID: Seq: 107 14:13:54 19 Apr 13 HG
LB 240-82595/2-C

Hg	-.0792	ppb	.0000	-.0792

*** Sample ID: Seq: 108 14:15:34 19 Apr 13 HG
MB 240-82683/2-A

Hg	-.0453	ppb	.0000	-.0453

*** Sample ID: Seq: 109 14:16:52 19 Apr 13 HG
LCS 240-82683/3-A

Hg	4.755	ppb	.0000	4.755

*** Sample ID: Seq: 110 14:18:35 19 Apr 13 HG
240-22999-A-2-L

Hg	.0322	ppb	.0000	.0322

*** Sample ID: Seq: 111 14:19:57 19 Apr 13 HG
240-22999-A-2-M MS

Hg	4.658	ppb	.0000	4.658

*** Sample ID: Seq: 112 14:21:17 19 Apr 13 HG
240-22999-A-2-N MSD

Hg	4.604	ppb	.0000	4.604

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 6 Ck6CCV Seq: 113 14:22:37 19 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.38	4.769	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 114 14:24:33 19 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0326	.2000	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information: _____

Circle Methods used: 7470A / 245.1 : 7471:

Run Date: 4/19/2013 Analyst: A. Sutherland Instrument: H1

Review Items A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?			✓	
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/22/2013 Reviewed from 9:14 to 14:24

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: Natalie J Toth Date/Time: 4-22-13 Reviewed from 09:14 to 14:24

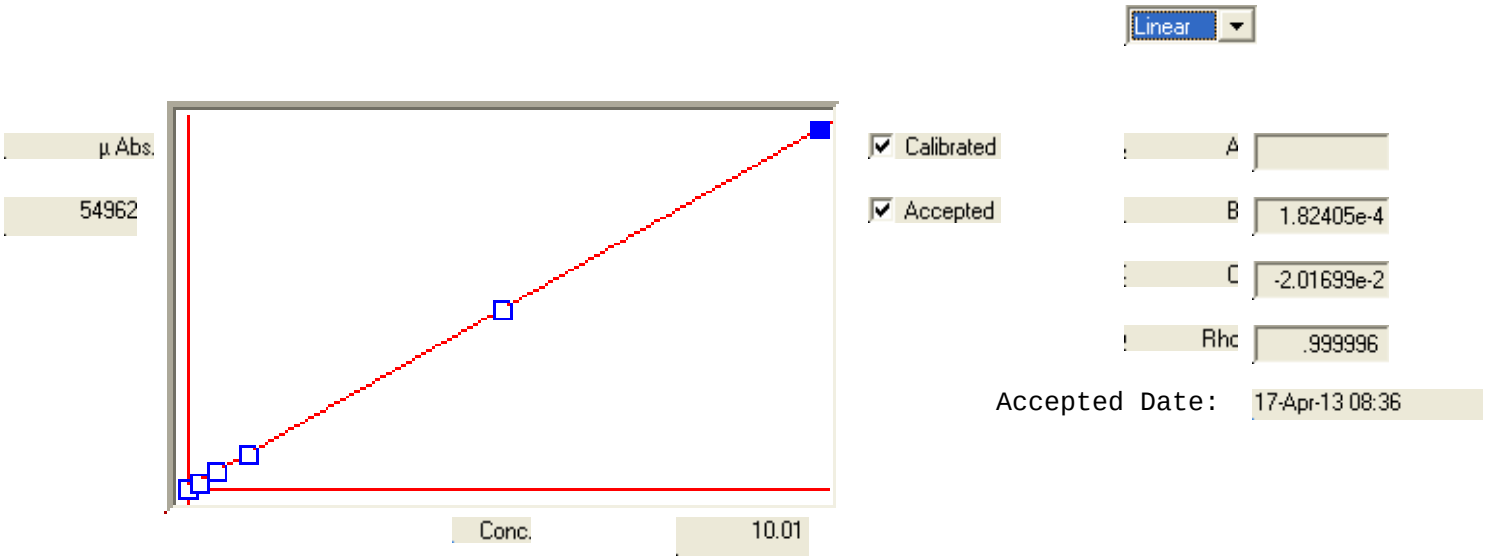
Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/19/2013 Curve Time 8:15-8:45 DILUTION H20 NA

Revised 11/29/2012

Protocol: 0417AHG4



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.0043	.0043	135	1	134				
02	.20000	.1874	-.0126	1138	0%	1138				
03	.50000	.5021	.0021	2864	0%	2863				
04	1.0000	1.014	.0141	5670	0%	5670				
05	5.0000	4.987	-.0130	27451	0%	27451				
06	10.000	10.01	.0052	54962	0%	54962				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 08:26:34 17 Apr 13 HG

Hg .0000 ppb 134

*** Standard: 2 Rep: 1 Seq: 2 08:29:06 17 Apr 13 HG

Hg .2000 ppb 1138

*** Standard: 3 Rep: 1 Seq: 3 08:31:07 17 Apr 13 HG

Hg .5000 ppb 2863

*** Standard: 4 Rep: 1 Seq: 4 08:32:50 17 Apr 13 HG

Hg 1.000 ppb 5670

*** Standard: 5 Rep: 1 Seq: 5 08:34:52 17 Apr 13 HG

Hg 5.000 ppb 27451

*** Standard: 6 Rep: 1 Seq: 6 08:36:40 17 Apr 13 HG

Hg 10.00 ppb 54962

*** Check Standard: 2 Ck2ICV Seq: 7 08:38:28 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.5	2.562	2.500	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 08:40:11 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0123	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 08:42:17 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.0	.2000	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 08:44:00 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.0	5.100	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 08:45:43 17 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0224	.6000	ppb	.0000

*** Sample ID: Seq: 12 08:49:17 17 Apr 13 HG
MB 240-82158/1-A
Hg .0043 ppb .0000 .0043

*** Sample ID: Seq: 13 08:51:00 17 Apr 13 HG
LCS 240-82158/2-A
Hg 5.178 ppb .0000 5.178

*** Sample ID: Seq: 14 08:52:44 17 Apr 13 HG
240-22860-C-2-C
Hg -.0196 ppb .0000 -.0196

*** Sample ID: Seq: 15 08:54:27 17 Apr 13 HG
240-22860-C-2-D MS
Hg 1.078 ppb .0000 1.078

*** Sample ID: Seq: 16 08:57:10 17 Apr 13 HG
240-22860-C-2-E MSD
Hg 1.086 ppb .0000 1.086

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 17 08:59:03 17 Apr 13 HG
240-23182-C-16-B

Hg	.0263	ppb	.0000	.0263				

*** Sample ID: Seq: 18 09:00:46 17 Apr 13 HG
240-23182-C-17-B

Hg	.0305	ppb	.0000	.0305				

*** Sample ID: Seq: 19 09:02:32 17 Apr 13 HG
240-23182-C-19-B

Hg	.0311	ppb	.0000	.0311				

*** Sample ID: Seq: 20 09:04:38 17 Apr 13 HG
240-23182-C-20-B

Hg	.0256	ppb	.0000	.0256				

*** Sample ID: Seq: 21 09:06:32 17 Apr 13 HG
240-23182-C-21-B

Hg	.0311	ppb	.0000	.0311				

*** Check Standard: 6 Ck6CCV Seq: 22 09:08:42 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.8	5.388	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 09:10:36 17 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0028	.6000	ppb	.0000

*** Sample ID: Seq: 24 09:12:38 17 Apr 13 HG
240-23195-B-27-B

Hg	.0466	ppb	.0000	.0466				

*** Sample ID: Seq: 25 09:14:23 17 Apr 13 HG
240-23195-B-28-B

Hg	.0087	ppb	.0000	.0087				

*** Sample ID: Seq: 26 09:16:27 17 Apr 13 HG
240-23195-B-29-B

Hg	.0479	ppb	.0000	.0479				

*** Sample ID: Seq: 27 09:18:10 17 Apr 13 HG
240-23195-B-30-B

Hg	2.163	ppb	.0000	2.163				

*** Sample ID: Seq: 28 09:20:03 17 Apr 13 HG
240-23195-B-31-B

Hg	.4803	ppb	.0000	.4803				

*** Sample ID: Seq: 29 09:21:46 17 Apr 13 HG
240-23183-A-4-B

Hg	.0196	ppb	.0000	.0196				

*** Sample ID: Seq: 30 09:23:34 17 Apr 13 HG
240-23183-B-5-B

Hg	.0977	ppb	.0000	.0977				

*** Sample ID: Seq: 31 09:25:57 17 Apr 13 HG
240-23183-B-6-B

Hg	.0099	ppb	.0000	.0099				

*** Sample ID: Seq: 32 09:28:21 17 Apr 13 HG
MB 240-82179/1-A

Hg	.0030	ppb	.0000	.0030				

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 33	09:30:04 17 Apr 13	HG		
				LCS 240-82179/2-A				
Hg	5.388	ppb	.0000	5.388				
*** Check Standard: 6 Ck6CCV				Seq: 34	09:32:18 17 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		106.6	5.328	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 35	09:34:01 17 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.0233	.6000	ppb	.0000			
*** Sample ID:				Seq: 36	09:35:45 17 Apr 13	HG		
				240-22663-E-24-E				
Hg	.1471	ppb	.0000	.1471				
*** Sample ID:				Seq: 37	09:37:32 17 Apr 13	HG		
				240-22663-E-24-F DU				
Hg	.1407	ppb	.0000	.1407				
*** Sample ID:				Seq: 38	09:39:26 17 Apr 13	HG		
				240-22663-E-24-G MS				
Hg	1.241	ppb	.0000	1.241				
*** Sample ID:				Seq: 39	09:42:51 17 Apr 13	HG		
				240-22663-C-21-B				
Hg	.1590	ppb	.0000	.1590				
*** Sample ID:				Seq: 40	09:45:05 17 Apr 13	HG		
				240-22663-C-22-B				
Hg	.1123	ppb	.0000	.1123				
*** Sample ID:				Seq: 41	09:46:59 17 Apr 13	HG		
				240-22663-C-23-B				
Hg	.1239	ppb	.0000	.1239				
*** Sample ID:				Seq: 42	09:48:54 17 Apr 13	HG		
				240-22663-C-25-B				
Hg	.1307	ppb	.0000	.1307				
*** Sample ID:				Seq: 43	09:50:40 17 Apr 13	HG		
				240-22663-G-26-E				
Hg	.1236	ppb	.0000	.1236				
*** Sample ID:				Seq: 44	09:52:23 17 Apr 13	HG		
				240-22663-C-27-B				
Hg	.1637	ppb	.0000	.1637				
*** Sample ID:				Seq: 45	09:54:32 17 Apr 13	HG		
				240-22663-G-28-E				
Hg	.1582	ppb	.0000	.1582				
*** Check Standard: 6 Ck6CCV				Seq: 46	09:56:29 17 Apr 13	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		110.2	5.508	5.000	ppb	.0000		
*** Check Standard: 1 Ck1CCB				Seq: 47	09:58:24 17 Apr 13	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.0008	.6000	ppb	.0000			
*** Sample ID:				Seq: 48	10:00:19 17 Apr 13	HG		
				240-22663-C-29-A				
Hg	.0459	ppb	.0000	.0459				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 49 10:02:16 17 Apr 13 HG
240-22663-C-31-D

Hg	.2188	ppb	.0000	.2188				

*** Sample ID: Seq: 50 10:04:22 17 Apr 13 HG
240-22663-C-32-D

Hg	.0698	ppb	.0000	.0698				

*** Sample ID: Seq: 51 10:06:06 17 Apr 13 HG
240-22663-C-33-D

Hg	.1234	ppb	.0000	.1234				

*** Sample ID: Seq: 52 10:07:49 17 Apr 13 HG
240-22663-C-34-D

Hg	.1148	ppb	.0000	.1148				

*** Sample ID: Seq: 53 10:10:12 17 Apr 13 HG
240-22663-C-35-D

Hg	.0712	ppb	.0000	.0712				

*** Sample ID: Seq: 54 10:12:46 17 Apr 13 HG
240-22663-C-36-D

Hg	.2164	ppb	.0000	.2164				

*** Sample ID: Seq: 55 10:14:42 17 Apr 13 HG
240-22663-C-37-D

Hg	.1504	ppb	.0000	.1504				

*** Sample ID: Seq: 56 10:16:31 17 Apr 13 HG
240-22663-C-38-D

Hg	.2808	ppb	.0000	.2808				

*** Check Standard: 4 Ck4CRA\MRL Seq: 57 10:18:15 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.5	.2190	.2000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 58 10:19:57 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.3	.2106	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 59 10:21:43 17 Apr 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.7	5.486	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 60 10:24:26 17 Apr 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0077	.6000	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 : (7471:)

Run Date: 4/17/2013 Analyst: A. Sutherland Instrument: H4

Review Items				
A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?			✓	✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: [signature] Date/Time: 4/18/2013 Reviewed from 8:26 to 10:24

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: [signature] Date/Time: 4-18-13 Reviewed from 8:26 to 10:24

Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4/16/2013 Curve Time 9:55-10:25 DILUTION H20 NA

Revised 11/29/2012

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 81976 Batch Start Date: 04/15/13 16:00 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/15/13 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00492	MTHGCALW 00354	MTKMN04W 00042	
MB 240-81976/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-81976/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22663-D-5-A	079SB-0015M-0001 ,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-D-5-B MS	079SB-0015M-0001 ,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL	1 mL	15 mL	
240-22663-D-5-D DU	079SB-0015M-0001 ,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-E-16-A	073SB-0040M-0001 ,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-E-16-B MS	073SB-0040M-0001 ,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL	1 mL	15 mL	
240-22663-E-16-D DU	073SB-0040M-0001 ,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-C-1-A	079SB-0010M-0001 -SO	7471A, 7471/DOD	T	0.66 g	100 mL	5 mL		15 mL	
240-22663-C-2-A	079SB-0011M-0001 -SO	7471A, 7471/DOD	T	0.63 g	100 mL	5 mL		15 mL	
240-22663-C-3-A	079SB-0013M-0001 -SO	7471A, 7471/DOD	T	0.63 g	100 mL	5 mL		15 mL	
240-22663-G-4-A	079SB-0014M-0001 -SO	7471A, 7471/DOD	T	0.62 g	100 mL	5 mL		15 mL	
240-22663-C-6-A	079SB-0016M-0001 -SO	7471A, 7471/DOD	T	0.61 g	100 mL	5 mL		15 mL	
240-22663-G-7-A	079SB-0017M-0001 -SO	7471A, 7471/DOD	T	0.69 g	100 mL	5 mL		15 mL	
240-22663-C-8-A	079SB-0020M-0001 -SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22663-B-9-A	079SB-0019M-0001 -SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22663-C-11-A	073SS-0035M-0001 -SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22663-C-12-A	073SB-0036M-0001 -SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22663-C-13-A	073SB-0037M-0001 -SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22663-C-14-A	073SB-0038M-0001 -SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22663-C-15-A	073SB-0039M-0001 -SO	7471A, 7471/DOD	T	0.61 g	100 mL	5 mL		15 mL	

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 81976 Batch Start Date: 04/15/13 16:00 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/15/13 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00492	MTHGCALW 00354	MTKMN04W 00042	
240-22663-G-17-A	073SB-0041M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22663-C-18-A	073SB-0042M-0001-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-C-19-A	073SB-0043M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22663-C-20	073SB-0044-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b 038
Blank Soil Lot Number	f556-2f002
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 82099 Batch Start Date: 04/16/13 09:55 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/16/13 10:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00493	MTHGCALW 00355	MTHgStd 00009	MTKMN04W 00042
ICV 240-82099/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-82099/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-82099/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-82099/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-82099/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383366-383364-383389
Digestion Tube/Cup Lot #	612122

Basis	Basis Description

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 82179 Batch Start Date: 04/16/13 15:50 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/16/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00493	MTHGCALW 00355	MTKMN04W 00042	
MB 240-82179/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-82179/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22663-E-24-A	079SB-0024M-0001,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-E-24-D DU	079SB-0024M-0001,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-E-24-B MS	079SB-0024M-0001,0002-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL	1 mL	15 mL	
240-22663-C-21-A	079SB-0021M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22663-C-22-A	079SB-0022M-0001-SO	7471A, 7471/DOD	T	0.63 g	100 mL	5 mL		15 mL	
240-22663-C-23-A	079SB-0023M-0001-SO	7471A, 7471/DOD	T	0.69 g	100 mL	5 mL		15 mL	
240-22663-C-25-A	079SB-0025M-0001-SO	7471A, 7471/DOD	T	0.59 g	100 mL	5 mL		15 mL	
240-22663-G-26-A	079SB-0026M-0001-SO	7471A, 7471/DOD	T	0.67 g	100 mL	5 mL		15 mL	
240-22663-C-27-A	079SB-0027M-0001-SO	7471A, 7471/DOD	T	0.65 g	100 mL	5 mL		15 mL	
240-22663-G-28-A	079SB-0028M-0001-SO	7471A, 7471/DOD	T	0.62 g	100 mL	5 mL		15 mL	
240-22663-C-29	079SB-0029-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	
240-22663-C-31-A	068SB-0017M-0001-SO	7471A, 7471/DOD	T	0.53 g	100 mL	5 mL		15 mL	
240-22663-C-32-A	068SB-0018M-0001-SO	7471A, 7471/DOD	T	0.55 g	100 mL	5 mL		15 mL	
240-22663-C-33-A	068SB-0019M-0001-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-C-34-A	068SB-0022M-0001-SO	7471A, 7471/DOD	T	0.59 g	100 mL	5 mL		15 mL	
240-22663-C-35-A	068SB-0020M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22663-C-36-A	068SB-0023M-0001-SO	7471A, 7471/DOD	T	0.54 g	100 mL	5 mL		15 mL	
240-22663-C-37-A	068SB-0024M-0001-SO	7471A, 7471/DOD	T	0.60 g	100 mL	5 mL		15 mL	
240-22663-C-38-A	068SB-0025M-0001-SO	7471A, 7471/DOD	T	0.56 g	100 mL	5 mL		15 mL	

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 82179 Batch Start Date: 04/16/13 15:50 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/16/13 16:20

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	g228-2i025
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 82367 Batch Start Date: 04/17/13 14:55 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/17/13 15:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00494	MTHGCALW 00356	MTKMN04W 00042	
MB 240-82367/1		7471A, 7471/DOD		0.60 g	100 mL	5 mL		15 mL	
LCS 240-82367/2		7471A, 7471/DOD		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-22663-C-39	068SB-0032-0001-SO	7471A, 7471/DOD	T	0.67 g	100 mL	5 mL		15 mL	
240-22663-C-40-A	068SB-0027M-0001-SO	7471A, 7471/DOD	T	0.61 g	100 mL	5 mL		15 mL	
240-22663-C-41-A	068SB-0028M-0001-SO	7471A, 7471/DOD	T	0.64 g	100 mL	5 mL		15 mL	
240-22663-C-43-A	068SB-0030M-0001-SO	7471A, 7471/DOD	T	0.57 g	100 mL	5 mL		15 mL	
240-22663-C-44-A	068SB-0031M-0001-SO	7471A, 7471/DOD	T	0.64 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	g228-2i025
Pipette ID	383364-383366-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 82640 Batch Start Date: 04/19/13 08:15 Batch Analyst: Sutherland, Aaron

Batch Method: 7471A Batch End Date: 04/19/13 08:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00496	MTHGCALW 00358	MTHgStd 00009	MTKMN04W 00043
ICV 240-82640/7		7471A, 7471/DOD		100 mL	100 mL	5 mL		0.25 mL	15 mL
ICB 240-82640/8		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL
CRA 240-82640/9		7471A, 7471/DOD		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-82640/10		7471A, 7471/DOD		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-82640/11		7471A, 7471/DOD		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Pipette ID	383366-383364-383389
Digestion Tube/Cup Lot #	122612

Basis	Basis Description

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Batch Number: 69114 Batch Start Date: 04/15/13 08:35 Batch Analyst: Ferguson, Caitlin N

Batch Method: 3050B Batch End Date: 04/15/13 12:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00020
MB 180-69114/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.17 g	100 mL			
LCS 180-69114/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.10 g	100 mL	1 mL	1 mL	1 mL
240-22663-B-1	079SB-0010M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.17 g	100 mL			
240-22663-B-2	079SB-0011M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.06 g	100 mL			
240-22663-B-3	079SB-0013M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.09 g	100 mL			
240-22663-E-4	079SB-0014M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.16 g	100 mL			
240-22663-C-5	079SB-0015M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.11 g	100 mL			
240-22663-A-5 DU	079SB-0015M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.15 g	100 mL			
240-22663-A-5 MS	079SB-0015M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.12 g	100 mL	1 mL	1 mL	1 mL
240-22663-B-6	079SB-0016M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.19 g	100 mL			
240-22663-E-7	079SB-0017M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22663-B-8	079SB-0020M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.08 g	100 mL			
240-22663-C-9	079SB-0019M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.07 g	100 mL			
240-22663-B-11	073SS-0035M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.09 g	100 mL			
240-22663-B-12	073SB-0036M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.15 g	100 mL			
240-22663-B-13	073SB-0037M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.24 g	100 mL			
240-22663-B-14	073SB-0038M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.08 g	100 mL			
240-22663-B-15	073SB-0039M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.24 g	100 mL			

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Batch Number: 69114 Batch Start Date: 04/15/13 08:35 Batch Analyst: Ferguson, Caitlin N

Batch Method: 3050B Batch End Date: 04/15/13 12:35

Batch Notes	
Analyst	CNF
Balance ID	P1856710
Batch Comment	METALS A4
Blank Soil Lot Number	783730
First End time	12:35
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10mL 781344
Logbook ID for diluted Nitric	10mL 785050
Lot # of Nitric Acid	5mL 790265
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	96 Degrees C
Pipette ID	J1201611U
Person's name who witnessed reagent drop	CNF
Perform Calculation (0=No, 1=Yes)	1
First Start time	08:35
Temperature	96 Degrees C
ID number of the thermometer	IP9 (0.0) E2
Digestion Tube/Cup Lot #	MH21KK06 / 121015
Uncorrected Temperature	96 Celsius

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Batch Number: 69160 Batch Start Date: 04/15/13 12:30 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/15/13 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00020
MB 180-69160/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.12 g	100 mL			
LCS 180-69160/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.04 g	100 mL	1 mL	1 mL	1 mL
240-22663-C-16	073SB-0040M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22663-A-16 DU	073SB-0040M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22663-A-16 MS	073SB-0040M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL	1 mL	1 mL	1 mL
240-22663-E-17	073SB-0041M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22663-B-18	073SB-0042M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-19	073SB-0043M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22663-B-20	073SB-0044-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22663-B-21	079SB-0021M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22663-B-22	079SB-0022M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22663-B-23	079SB-0023M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-25	079SB-0025M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22663-E-26	079SB-0026M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22663-B-27	079SB-0027M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22663-E-28	079SB-0028M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.05 g	100 mL			

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Batch Number: 69160 Batch Start Date: 04/15/13 12:30 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/15/13 14:30

Batch Notes	
Analyst	CH
Balance ID	P1856710
Batch Comment	METALS A4
Blank Soil Lot Number	783730
First End time	1430
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10ML 781344
Logbook ID for diluted Nitric	10ML 785050
Lot # of Nitric Acid	5ML 790266
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	98 Degrees C
Pipette ID	L1201611U
Perform Calculation (0=No, 1=Yes)	1
First Start time	1230
Temperature	98 Degrees C
ID number of the thermometer	IP9 (0.0) A5
Digestion Tube/Cup Lot #	MH21KK06
Uncorrected Temperature	98 Celsius

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Batch Number: 69260 Batch Start Date: 04/16/13 12:30 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/16/13 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MTAPITTICPMS 00014	MTAPITTMSA 00014	MTAPITTMSC 00020
MB 180-69260/1		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.02 g	100 mL			
LCS 180-69260/2		3050B, 6020/DOD		NO %SOLIDS FOUND	00001.05 g	100 mL	1 mL	1 mL	1 mL
240-22663-C-24	079SB-0024M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22663-A-24 DU	079SB-0024M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22663-A-24 MS	079SB-0024M-0001 ,0002-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL	1 mL	1 mL	1 mL
240-22663-B-29	079SB-0029-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			
240-22663-B-31	068SB-0017M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22663-B-32	068SB-0018M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-33	068SB-0019M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22663-B-34	068SB-0022M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22663-B-35	068SB-0020M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-36	068SB-0023M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-37	068SB-0024M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-38	068SB-0025M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.00 g	100 mL			
240-22663-B-39	068SB-0032-0001-SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.01 g	100 mL			
240-22663-B-40	068SB-0027M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.03 g	100 mL			
240-22663-B-41	068SB-0028M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.02 g	100 mL			
240-22663-B-43	068SB-0030M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.05 g	100 mL			
240-22663-B-44	068SB-0031M-0001 -SO	3050B, 6020/DOD	T	NO %SOLIDS FOUND	00001.04 g	100 mL			

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 240-22663-1

SDG No.:

Batch Number: 69260 Batch Start Date: 04/16/13 12:30 Batch Analyst: Haluck, Caitlyn

Batch Method: 3050B Batch End Date: 04/16/13 14:30

Batch Notes	
Analyst	CH
Balance ID	P1856710
Batch Comment	METALS A7
Blank Soil Lot Number	783730
First End time	1430
Filter Paper Lot Number	6326666B
Hydrogen peroxide lot number	10ML 781344
Logbook ID for diluted Nitric	10ML 785050
Lot # of Nitric Acid	5ML 790266
Hot Block ID number	#10
Nominal Amount Used	1.0 g
Oven, Bath or Block Temperature 1	97 Degrees C
Pipette ID	L1201611U
Perform Calculation (0=No, 1=Yes)	1
First Start time	1230
Temperature	97 Degrees C
ID number of the thermometer	IP9 (0.0) G1
Digestion Tube/Cup Lot #	MH21KK06
Uncorrected Temperature	97 Celsius

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0010M-0001-SO	240-22663-1
079SB-0011M-0001-SO	240-22663-2
079SB-0013M-0001-SO	240-22663-3
079SB-0014M-0001-SO	240-22663-4
079SB-0015M-0001,0002-SO	240-22663-5
079SB-0016M-0001-SO	240-22663-6
079SB-0017M-0001-SO	240-22663-7
079SB-0020M-0001-SO	240-22663-8
079SB-0019M-0001-SO	240-22663-9
070SB-0046M-0001-SB	240-22663-10
073SS-0035M-0001-SO	240-22663-11
073SB-0036M-0001-SO	240-22663-12
073SB-0037M-0001-SO	240-22663-13
073SB-0038M-0001-SO	240-22663-14
073SB-0039M-0001-SO	240-22663-15
073SB-0040M-0001,0002-SO	240-22663-16
073SB-0041M-0001-SO	240-22663-17
073SB-0042M-0001-SO	240-22663-18
073SB-0043M-0001-SO	240-22663-19
073SB-0044-0001-SO	240-22663-20
079SB-0021M-0001-SO	240-22663-21
079SB-0022M-0001-SO	240-22663-22
079SB-0023M-0001-SO	240-22663-23
079SB-0024M-0001,0002-SO	240-22663-24
079SB-0025M-0001-SO	240-22663-25
079SB-0026M-0001-SO	240-22663-26
079SB-0027M-0001-SO	240-22663-27
079SB-0028M-0001-SO	240-22663-28
079SB-0029-0001-SO	240-22663-29
068SB-0017M-0001-SO	240-22663-31
068SB-0018M-0001-SO	240-22663-32
068SB-0019M-0001-SO	240-22663-33
068SB-0022M-0001-SO	240-22663-34
068SB-0020M-0001-SO	240-22663-35
068SB-0023M-0001-SO	240-22663-36
068SB-0024M-0001-SO	240-22663-37
068SB-0025M-0001-SO	240-22663-38
068SB-0032-0001-SO	240-22663-39
068SB-0027M-0001-SO	240-22663-40
068SB-0028M-0001-SO	240-22663-41
068SB-0030M-0001-SO	240-22663-43
068SB-0031M-0001-SO	240-22663-44

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-22663-1

SDG No.:

Project: RVAAP - ECC

Client Sample ID	Lab Sample ID
079SB-0014M-0001-SO	240-22663-4
079SB-0017M-0001-SO	240-22663-7
073SB-0041M-0001-SO	240-22663-17
079SB-0026M-0001-SO	240-22663-26
079SB-0028M-0001-SO	240-22663-28

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0014M-0001-SO
Lab Sample ID: 240-22663-4
Lab Name: TestAmerica Sacramento
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:12
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	0.76	4.7	1.7	0.73	mg/Kg	J		1	WS-WC-0050

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0017M-0001-SO
Lab Sample ID: 240-22663-7
Lab Name: TestAmerica Sacramento
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 09:24
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	1.8	5.0	1.8	0.77	mg/Kg	U		1	WS-WC-0050

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 073SB-0041M-0001-SO
Lab Sample ID: 240-22663-17
Lab Name: TestAmerica Sacramento
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 13:03
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	0.91	5.0	1.8	0.78	mg/Kg	J		1	WS-WC-0050

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0026M-0001-SO
Lab Sample ID: 240-22663-26
Lab Name: TestAmerica Sacramento
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:37
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	0.81	5.0	1.8	0.78	mg/Kg	J		1	WS-WC-0050

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SB-0028M-0001-SO
Lab Sample ID: 240-22663-28
Lab Name: TestAmerica Sacramento
Job No.: 240-22663-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/01/2013 10:43
Reporting Basis: WET
Date Received: 04/02/2013 08:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	2.5	4.8	1.7	0.75	mg/Kg	J		1	WS-WC-0050

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Analyst: JS Batch Start Date: 04/23/2013

Reporting Units: mg/L Analytical Batch No.: 14914

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICV	12:31	Nitrocellulose	8.22	8.40	98	90-110		WC-353.2-ICV_00022
9	ICB	12:33	Nitrocellulose	1.0				U	
22	CCV	12:59	Nitrocellulose	8.56	8.40	102	90-110		WC-353.2-L4_00016
23	CCB	13:01	Nitrocellulose	1.0				U	
36	CCV	13:27	Nitrocellulose	8.56	8.40	102	90-110		WC-353.2-L4_00016
37	CCB	13:29	Nitrocellulose	1.0				U	
43	CCV	13:41	Nitrocellulose	8.56	8.40	102	90-110		WC-353.2-L4_00016
44	CCB	13:43	Nitrocellulose	1.0				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 14914	Date: 04/23/2013 12:45	Prep Batch: 14752	Date: 04/22/2013 06:13				
WS-WC-0050	MB 320-14670/1-B	Nitrocellulose	1.8	U	mg/Kg	5.0	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 14914	Date: 04/23/2013 12:47		Prep Batch: 14752			Date: 04/22/2013 06:13					
						LCS Source: HPNCSP_00008					
WS-WC-0050	LCS 320-14670/2-B	Nitrocellulose	31.8		mg/Kg	50.6	63	34-115			

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

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 14914	Date: 04/23/2013 12:35										
						LCS Source:	WC-353.2-L1_00022				
WS-WC-0050	MRL 320-14914/10	Nitrocellulose	1.0	U	mg/L	0.420	106	70-130			
Batch ID: 14914	Date: 04/23/2013 12:57										
						LCS Source:	WC-353.2-L1_00022				
WS-WC-0050	MRL 320-14914/21	Nitrocellulose	0.538	J	mg/L	0.420	128	70-130			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: FS4

Method: WS-WC-0050 DL Date: 03/15/2011 14:37

Prep Method: 353 (NCell-Hyd)

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Nitrocellulose		5	0.78

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-22663-1

SDG Number:

Matrix: Solid Instrument ID: FS4

Method: WS-WC-0050 XMDL Date: 03/15/2011 14:36

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrocellulose		2	0.475

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No: 240-22663-1

SDG No.:

Instrument ID: FS4 Date: 07/31/2011 19:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Nitrocellulose		16.8	WS-WC-0050

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Prep Method: 353 (NCell-Hyd)

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 320-14670/1-B	04/22/2013 06:13	14752		45	40
LCS 320-14670/2-B	04/22/2013 06:13	14752		45	40
240-22663-4	04/22/2013 06:13	14752		45	40
240-22663-7	04/22/2013 06:13	14752		45	40
240-22663-17	04/22/2013 06:13	14752		45	40
240-22663-26	04/22/2013 06:13	14752		45	40
240-22663-28	04/22/2013 06:13	14752		45	40

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 11:14 End Date: 04/08/2013 11:14

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:14	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 11:14 End Date: 04/08/2013 11:14

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:14	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 11:14 End Date: 04/08/2013 11:14

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:14	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 11:14 End Date: 04/08/2013 11:14

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
ZZZZZZ			11:14																					
240-22663-1	1	T	11:14	X	X																			
240-22663-2	1	T	11:14	X	X																			
240-22663-3	1	T	11:14	X	X																			
240-22663-4	1	T	11:14	X	X																			
240-22663-5	1	T	11:14	X	X																			
240-22663-5 DU	1	T	11:14	X	X																			
240-22663-6	1	T	11:14	X	X																			
240-22663-7	1	T	11:14	X	X																			
240-22663-8	1	T	11:14	X	X																			
240-22663-9	1	T	11:14	X	X																			
240-22663-10	1	T	11:14	X	X																			
240-22663-11	1	T	11:14	X	X																			
240-22663-12	1	T	11:14	X	X																			
240-22663-13	1	T	11:14	X	X																			
240-22663-14	1	T	11:14	X	X																			
240-22663-15	1	T	11:14	X	X																			
240-22663-16	1	T	11:14	X	X																			
240-22663-16 DU	1	T	11:14	X	X																			
240-22663-17	1	T	11:14	X	X																			
240-22663-18	1	T	11:14	X	X																			
240-22663-19	1	T	11:14	X	X																			
240-22663-20	1	T	11:14	X	X																			
240-22663-21	1	T	11:14	X	X																			
240-22663-22	1	T	11:14	X	X																			
240-22663-23	1	T	11:14	X	X																			
240-22663-24	1	T	11:14	X	X																			
240-22663-24 DU	1	T	11:14	X	X																			
240-22663-25	1	T	11:14	X	X																			
240-22663-26	1	T	11:14	X	X																			
240-22663-27	1	T	11:14	X	X																			
240-22663-28	1	T	11:14	X	X																			
240-22663-29	1	T	11:14	X	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 11:14 End Date: 04/08/2013 11:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
240-22663-31	1	T	11:14	X	X																		
240-22663-32	1	T	11:14	X	X																		
240-22663-33	1	T	11:14	X	X																		
240-22663-34	1	T	11:14	X	X																		
240-22663-35	1	T	11:14	X	X																		
240-22663-36	1	T	11:14	X	X																		
240-22663-37	1	T	11:14	X	X																		
240-22663-37 DU	1	T	11:14	X	X																		
240-22663-38	1	T	11:14	X	X																		
240-22663-39	1	T	11:14	X	X																		
240-22663-39 DU	1	T	11:14	X	X																		
240-22663-40	1	T	11:14	X	X																		
240-22663-41	1	T	11:14	X	X																		
ZZZZZZ			11:14																				
240-22663-43	1	T	11:14	X	X																		
240-22663-44	1	T	11:14	X	X																		
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
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ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				
ZZZZZZ			11:14																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: FS4 Method: WS-WC-0050

Start Date: 04/23/2013 12:17 End Date: 04/23/2013 15:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				NCL																			
ZZZZZZ			12:17																				
STD 320-14914/2 IC			12:19	X																			
STD 320-14914/3 IC			12:21	X																			
STD 320-14914/4 IC			12:23	X																			
STD 320-14914/5 IC			12:25	X																			
STD 320-14914/6 IC			12:27	X																			
STD 320-14914/7 IC			12:29	X																			
ICV 320-14914/8	1		12:31	X																			
ICB 320-14914/9	1		12:33	X																			
MRL 320-14914/10	1	T	12:35	X																			
ZZZZZZ			12:37																				
ZZZZZZ			12:39																				
ZZZZZZ			12:41																				
ZZZZZZ			12:43																				
MB 320-14670/1-B	1	T	12:45	X																			
LCS 320-14670/2-B	1	T	12:47	X																			
ZZZZZZ			12:49																				
ZZZZZZ			12:51																				
ZZZZZZ			12:53																				
ZZZZZZ			12:55																				
MRL 320-14914/21	1	T	12:57	X																			
CCV 320-14914/22	1		12:59	X																			
CCB 320-14914/23	1		13:01	X																			
ZZZZZZ			13:03																				
ZZZZZZ			13:05																				
ZZZZZZ			13:07																				
ZZZZZZ			13:09																				
ZZZZZZ			13:11																				
240-22663-4	1	T	13:13	X																			
240-22663-7	1	T	13:15	X																			
240-22663-17	1	T	13:17	X																			
240-22663-26	1	T	13:19	X																			
240-22663-28	1	T	13:21	X																			
ZZZZZZ			13:23																				
ZZZZZZ			13:25																				
CCV 320-14914/36	1		13:27	X																			
CCB 320-14914/37	1		13:29	X																			
ZZZZZZ			13:31																				
ZZZZZZ			13:33																				
ZZZZZZ			13:35																				
ZZZZZZ			13:37																				
ZZZZZZ			13:39																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: FS4 Method: WS-WC-0050

Start Date: 04/23/2013 12:17 End Date: 04/23/2013 15:07

Lab Sample ID	D / F	Type	Time	Analytes																				
				NCL																				
CCV 320-14914/43	1		13:41	X																				
CCB 320-14914/44	1		13:43	X																				
ZZZZZZ			13:45																					
ZZZZZZ			13:47																					
ZZZZZZ			13:49																					
ZZZZZZ			13:51																					
ZZZZZZ			13:53																					
ZZZZZZ			13:55																					
CCV 320-14914/51			13:57																					
CCB 320-14914/52			13:59																					
ZZZZZZ			14:01																					
ZZZZZZ			14:03																					
ZZZZZZ			14:05																					
ZZZZZZ			14:07																					
ZZZZZZ			14:09																					
ZZZZZZ			14:11																					
ZZZZZZ			14:13																					
ZZZZZZ			14:15																					
ZZZZZZ			14:17																					
ZZZZZZ			14:19																					
ZZZZZZ			14:21																					
CCV 320-14914/64			14:23																					
CCB 320-14914/65			14:25																					
ZZZZZZ			14:27																					
ZZZZZZ			14:29																					
ZZZZZZ			14:31																					
ZZZZZZ			14:33																					
ZZZZZZ			14:35																					
ZZZZZZ			14:37																					
ZZZZZZ			14:39																					
ZZZZZZ			14:41																					
ZZZZZZ			14:43																					
ZZZZZZ			14:45																					
ZZZZZZ			14:47																					
CCV 320-14914/77			14:49																					
CCB 320-14914/78			14:51																					
ZZZZZZ			14:53																					
ZZZZZZ			14:55																					
ZZZZZZ			14:57																					
ZZZZZZ			14:59																					
ZZZZZZ			15:01																					
CCV 320-14914/84			15:03																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Instrument ID: FS4 Method: WS-WC-0050

Start Date: 04/23/2013 12:17 End Date: 04/23/2013 15:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				NCL																			
CCB 320-14914/85			15:05																				
ZZZZZZ			15:07																				

Prep Types

T = Total/NA

Peak Table:Nitrate/Nitrite

File name: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\042313A.RST
Date: 23-Apr-13
Operator: JRS

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	103	sync	1	SYNC	1	1	116865	0.981765	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
3	102	Cal 5	1	C	1	1	240248	2.005871	
4	103	Cal 4	1	C	1	1	118042	0.991536	
5	104	Cal 3	1	C	1	1	45998	0.393554	
6	105	Cal 2	1	C	1	1	22161	0.195706	
7	106	Cal 1	1	C	1	1	4991	0.053186	
8	0	Cal 0	1	C	1	1	-195	0.010147	
9	107	ICV	1	U	1	1	116468	0.978471	
10	0	BLANK/ICB	1	BLNK	1	1	-309	0.009198	
11	106	MRL	1	U	1	1	4949	0.052836	
12	108	NO2 1PPM	1	U	1	1	113655	0.955118	
13	109	NO3 1PPM	1	U	1	1	117086	0.983603	
14	0	Blank	1	BLNK	1	1	110	0.012673	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
16	113	mb 320-14670/1-b 1	U		1	1	886	0.019116	
17	114	lcs 320-14670/2-b 1	U		1	1	112512	0.945635	
18	115	240-22648-f-13-d 1	U		1	1	6484	0.065583	
19	116	240-22648-f-29-d 1	U		1	1	4184	0.046490	
20	117	240-22648-f-30-d 1	U		1	1	3944	0.044495	
21	118	240-22648-f-36-d 1	U		1	1	4115	0.045917	
22	106	MRL	1	U	1	1	6299	0.064048	
23	103	CCV	1	U	1	1	121395	1.019365	
24	0	BLANK	1	BLNK	1	1	487	0.015807	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
26	119	240-22648-f-38-d 1	U		1	1	1984	0.028230	
27	120	240-22648-f-40-d 1	U		1	1	789	0.018314	
28	121	240-22648-f-43-d 1	U		1	1	851	0.018828	
29	122	240-22648-f-53-d 1	U		1	1	1659	0.025533	
30	123	240-22663-f-4-h 1	U		1	1	1500	0.024212	
31	124	240-22663-f-7-d 1	U		1	1	1024	0.020261	
32	125	240-22663-f-17-d 1	U		1	1	1886	0.027420	
33	126	240-22663-f-26-d 1	U		1	1	1494	0.024166	
34	127	240-22663-f-28-d 1	U		1	1	8021	0.078334	
35	128	240-22804-f-4-d 1	U		1	1	1212	0.021821	
36	106	MRL	1	U	1	1	5684	0.058942	
37	103	CCV	1	U	1	1	121355	1.019036	
38	0	BLANK	1	BLNK	1	1	278	0.014069	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
40	129	240-22852-g-1-j 1	U		1	1	1824	0.026898	
41	130	240-22852-g-1-k ms 1	U		1	1	42292	0.362790	
42	131	240-22852-g-1-l msd 1	U		1	1	40069	0.344343	
43	106	MRL	1	U	1	1	5330	0.055999	
44	103	CCV	1	U	1	1	121367	1.019132	
45	0	BLANK	1	BLNK	1	1	348	0.014653	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
47	132	mb 320-14751/1-b 1	U		1	1	1578	0.024856	
48	133	lcs 320-14751/2-b 1	U		1	1	72680	0.615020	
49	134	320-2137-a-1-m	1	U	1	1	29830	0.259360	
50	135	320-2137-a-1-n ms 1	U		1	1	119436	1.003104	
51	136	320-2137-a-1-o msd 1	U		1	1	131250	1.101166	
52	103	CCV	1	U	1	1	121428	1.019641	
53	0	BLANK	1	BLNK	1	1	65	0.012300	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
55	137	mb 320-14749/1-b 1	U		1	1	696	0.017541	
56	138	lcs 320-14749/2-b 1	U		1	1	102701	0.864204	
57	139	320-2307-a-19-b 1	U		1	1	2528	0.032741	
58	140	320-2307-a-20-b 1	U		1	1	2850	0.035421	
59	141	320-2307-a-21-b 1	U		1	1	5044	0.053631	
60	142	320-2307-a-22-b 1	U		1	1	41181	0.353574	
61	143	320-2307-a-23-b 1	U		1	1	48293	0.412601	
62	144	320-2307-a-24-b 1	U		1	1	27087	0.236593	
63	145	320-2307-a-25-b 1	U		1	1	12489	0.115421	
64	146	320-2307-b-25-c ms 1	U		1	1	63937	0.542448	
65	103	CCV	1	U	1	1	126659	1.063061	
66	0	BLANK	1	BLNK	1	1	-112	0.010835	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
68	147	320-2307-b-25-d msd 1	U		1	1	62177	0.527844	
69	148	320-2307-b-26-b 1	U		1	1	4206	0.046672	
70	149	320-2307-a-27-b 1	U		1	1	2975	0.036452	

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
71	150	320-2307-a-28-b	1	U	1	1	3488	0.040716	
72	151	320-2307-a-29-b	1	U	1	1	3955	0.044591	
73	152	320-2307-a-30-b	1	U	1	1	4754	0.051224	
74	153	320-2307-a-31-c	1	U	1	1	3259	0.038811	
75	154	320-2307-a-31-d ms	1	U	1	1	63584	0.539518	
76	155	320-2307-b-31-b msd	1	U	1	1	50424	0.430294	
77	156	320-2307-b-32-b	1	U	1	1	3065	0.037198	
78	103	CCV	1	U	1	1	125765	1.055634	
79	0	BLANK	1	BLNK	1	1	271	0.014011	
B	0	Baseline	1	RB	1	1	0	0.011762	BL
81	157	320-2307-b-33-b	1	U	1	1	5134	0.054376	
82	158	320-2307-b-34-d	1	U	1	1	4154	0.046239	
83	159	320-2307-b-34-e ms	1	U	1	1	54687	0.465676	
84	160	320-2307-b-34-f msd	1	U	1	1	41660	0.357546	
85	103	CCV	1	U	1	1	125349	1.052184	
86	0	BLANK	1	BLNK	1	1	142	0.012939	
B	0	Baseline	1	RB	1	1	0	0.011762	BL

Report Results by Sample
Result path: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\042313A.RST
Sample table path: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\042313a.tbl
Method path: Y:\no3_no2.mth
Date acquired: 23-Apr-13
Time acquired: 15:12

Facility Name:
Facility Location:
Department:

Operator Name: JRS
Operator ID: JRS

Platform: FS III/IV
Software Rev Code: 210
Data system ID: 57

Channel: 1
Analysis: Nitrate/Nitrite
CAS Number:
Methodology: NO2+NO3-353.2/N02-353.2/WS-WC-0050

	Temp	Warmup	Run time	Reps
rack 1	Off	1134:03:50	1:38:15	14
rack 2	Off	1134:03:50	1:38:15	14
rack 3	Off	1134:03:50	1:38:15	14

Notes

Cup	Name	S	1:Time	1:Value	1:S
0	Baseline	C	12:17:23	0.01	[C]
102	Cal 5	C	12:19:23	2.01	[C]
103	Cal 4	C	12:21:23	0.99	[C]
104	Cal 3	C	12:23:24	0.39	[C]
105	Cal 2	C	12:25:24	0.20	[C]
106	Cal 1	C	12:27:24	0.05	[C]
0	Cal 0	C	12:29:24	0.01	[C]
107	ICV	-	12:31:24	0.98	[-]
0	BLANK/ICB	C	12:33:24	0.01	[C]
106	MRL	-	12:35:25	0.05	[-]
108	NO2 1PPM	-	12:37:25	0.96	[-]
109	NO3 1PPM	-	12:39:25	0.98	[-]
0	Blank	C	12:41:25	0.01	[C]
0	Baseline	C	12:43:25	0.01	[C]
113	mb 320-14670/1-b	-	12:45:26	0.02	[-]
114	lcs 320-14670/2-b	-	12:47:26	0.95	[-]
115	240-22648-f-13-d	-	12:49:26	0.07	[-]
116	240-22648-f-29-d	-	12:51:26	0.05	[-]
117	240-22648-f-30-d	-	12:53:26	0.04	[-]
118	240-22648-f-36-d	-	12:55:26	0.05	[-]
106	MRL	-	12:57:27	0.06	[-]
103	CCV	-	12:59:27	1.02	[-]
0	BLANK	C	13:01:27	0.02	[C]
0	Baseline	C	13:03:27	0.01	[C]
119	240-22648-f-38-d	-	13:05:27	0.03	[-]
120	240-22648-f-40-d	-	13:07:27	0.02	[-]
121	240-22648-f-43-d	-	13:09:28	0.02	[-]
122	240-22648-f-53-d	-	13:11:28	0.03	[-]
123	240-22663-f-4-h	-	13:13:28	0.02	[-]
124	240-22663-f-7-d	-	13:15:28	0.02	[-]
125	240-22663-f-17-d	-	13:17:28	0.03	[-]
126	240-22663-f-26-d	-	13:19:29	0.02	[-]
127	240-22663-f-28-d	-	13:21:29	0.08	[-]
128	240-22804-f-4-d	-	13:23:29	0.02	[-]
106	MRL	-	13:25:29	0.06	[-]
103	CCV	-	13:27:29	1.02	[-]
0	BLANK	C	13:29:29	0.01	[C]
0	Baseline	C	13:31:30	0.01	[C]
129	240-22852-g-1-j	-	13:33:30	0.03	[-]
130	240-22852-g-1-k ms	-	13:35:30	0.36	[-]
131	240-22852-g-1-l msd	-	13:37:30	0.34	[-]
106	MRL	-	13:39:30	0.06	[-]
103	CCV	-	13:41:30	1.02	[-]
0	BLANK	C	13:43:31	0.01	[C]
0	Baseline	C	13:45:31	0.01	[C]
132	mb 320-14751/1-b	-	13:47:31	0.02	[-]
133	lcs 320-14751/2-b	-	13:49:31	0.62	[-]
134	320-2137-a-1-m	-	13:51:31	0.26	[-]
135	320-2137-a-1-n ms	-	13:53:31	1.00	[-]
136	320-2137-a-1-o msd	-	13:55:32	1.10	[-]
103	CCV	-	13:57:32	1.02	[-]
0	BLANK	C	13:59:32	0.01	[C]
0	Baseline	C	14:01:32	0.01	[C]
137	mb 320-14749/1-b	-	14:03:32	0.02	[-]
138	lcs 320-14749/2-b	-	14:05:32	0.86	[-]
139	320-2307-a-19-b	-	14:07:33	0.03	[-]
140	320-2307-a-20-b	-	14:09:33	0.04	[-]
141	320-2307-a-21-b	-	14:11:33	0.05	[-]
142	320-2307-a-22-b	-	14:13:33	0.35	[-]
143	320-2307-a-23-b	-	14:15:33	0.41	[-]
144	320-2307-a-24-b	-	14:17:34	0.24	[-]
145	320-2307-a-25-b	-	14:19:34	0.12	[-]
146	320-2307-b-25-c ms	-	14:21:34	0.54	[-]
103	CCV	-	14:23:34	1.06	[-]
0	BLANK	C	14:25:34	0.01	[C]
0	Baseline	C	14:27:34	0.01	[C]
147	320-2307-b-25-d msd	-	14:29:35	0.53	[-]
148	320-2307-b-26-b	-	14:31:35	0.05	[-]
149	320-2307-a-27-b	-	14:33:35	0.04	[-]
150	320-2307-a-28-b	-	14:35:35	0.04	[-]
151	320-2307-a-29-b	-	14:37:35	0.04	[-]
152	320-2307-a-30-b	-	14:39:35	0.05	[-]
153	320-2307-a-31-c	-	14:41:36	0.04	[-]
154	320-2307-a-31-d ms	-	14:43:36	0.54	[-]
155	320-2307-b-31-b msd	-	14:45:36	0.43	[-]
156	320-2307-b-32-b	-	14:47:36	0.04	[-]

```
103 CCV                  -  14:49:36         1.06 [-]
0   BLANK                C  14:51:37         0.01 [C]
0   Baseline             C  14:53:37         0.01 [C]
157 320-2307-b-33-b      -  14:55:37         0.05 [-]
158 320-2307-b-34-d      -  14:57:37         0.05 [-]
159 320-2307-b-34-e ms   -  14:59:37         0.47 [-]
160 320-2307-b-34-f msd  -  15:01:37          0.36 [-]
103 CCV                  -  15:03:38         1.05 [-]
0   BLANK                C  15:05:38         0.01 [C]
0   Baseline             C  15:07:38         0.01 [C]
```

Nitrate/Nitrite:Calibration 1: Peak 3-87

File name: Z:\GENCHEM\ALPKEM~2\2013\NITROC~1\042313A.RST
Date: 23-Apr-13
Operator: JRS

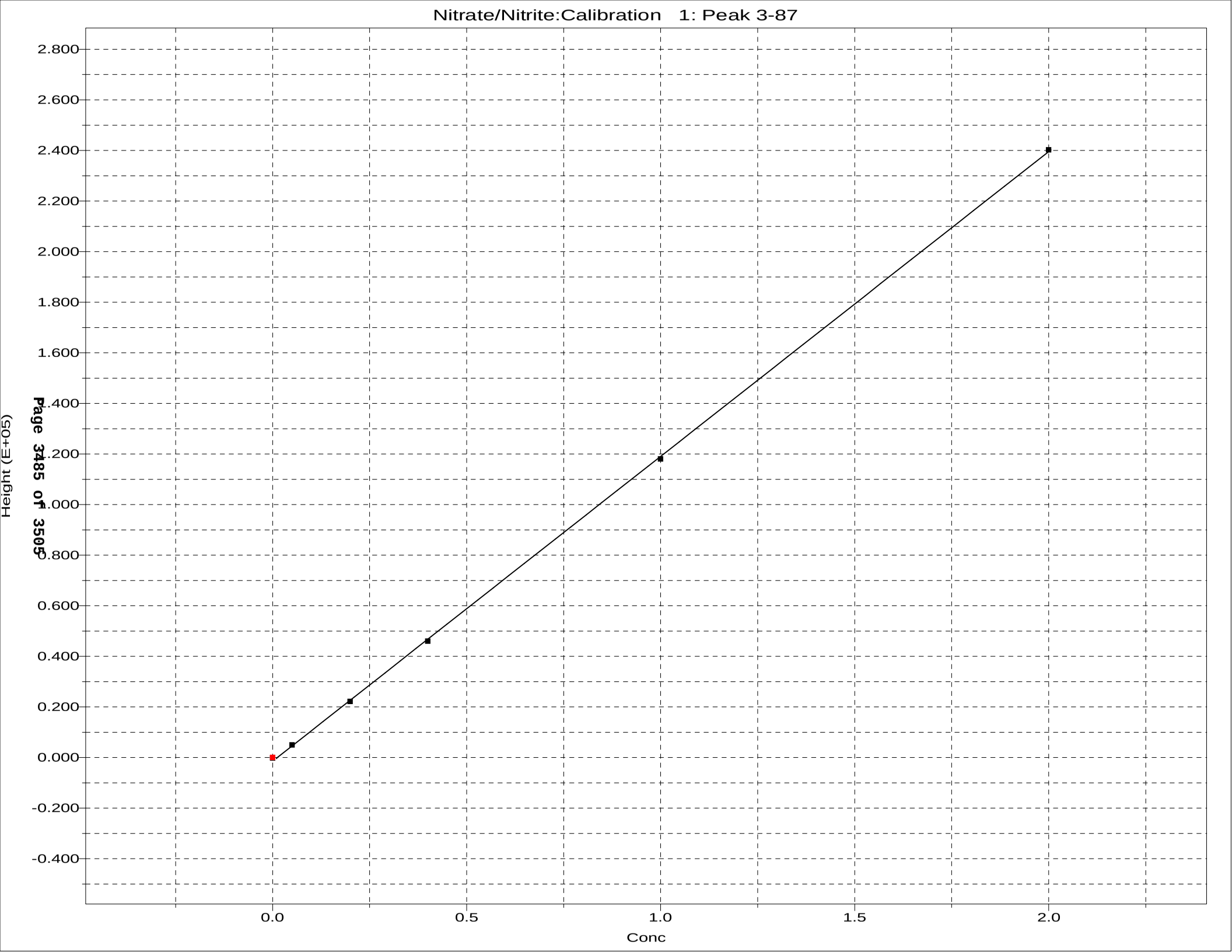
*	Name	Conc	Height
*	Cal 5	2.000000	240248.328125
*	Cal 4	1.000000	118042.242188
*	Cal 3	0.400000	45997.898438
*	Cal 2	0.200000	22161.398438
*	Cal 1	0.050000	4990.754883
*	Cal 0	0.000000	-194.564941

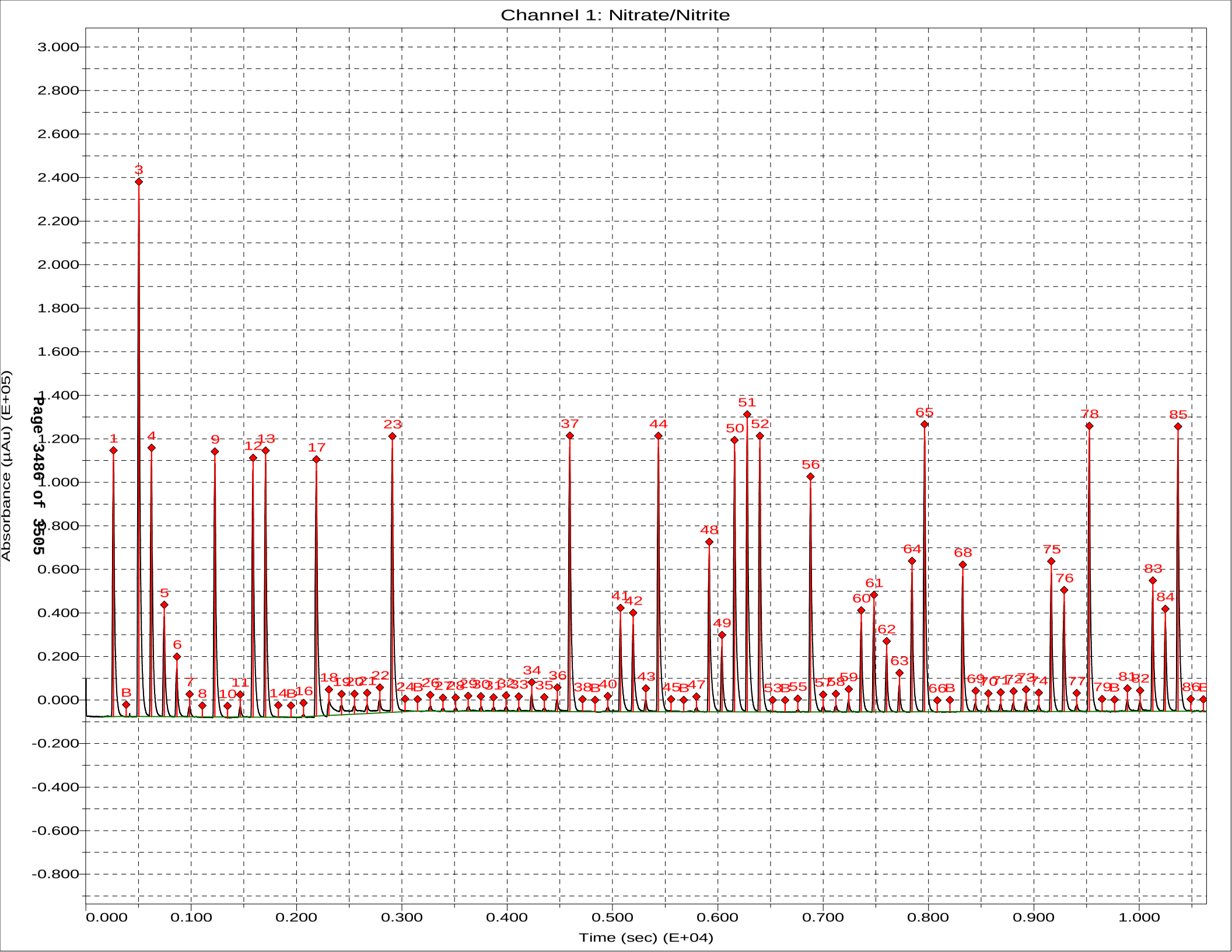
Calib Coef:
y=bx+a
a: (intercept) -1.4171e+03
b: 1.2048e+05

Corr Coef: 0.999953

Carryover: n/a

No Drift Peaks


Nitrate/Nitrite:Calibration 1: Peak 3-87
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
Height (E+05)
0.0
0.5
1.0
1.5
2.0
Conc


Channel 1: Nitrate/Nitrite
Absorbance (µAu) (E+05)
Time (sec) (E+04)
Page 3486 of 3505

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 80985 Batch Start Date: 04/08/13 11:14 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/09/13 10:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22663-A-1	079SB-0010M-0001-SO	Moisture	T	4.4306 g	8.9053 g	8.8563 g			
240-22663-A-2	079SB-0011M-0001-SO	Moisture	T	4.4306 g	9.5280 g	9.4737 g			
240-22663-A-3	079SB-0013M-0001-SO	Moisture	T	4.4306 g	9.7842 g	9.7071 g			
240-22663-D-4	079SB-0014M-0001-SO	Moisture	T	4.4306 g	9.7493 g	9.2711 g			
240-22663-A-5	079SB-0015M-0001,0002-SO	Moisture	T	4.4306 g	10.7397 g	10.6538 g			
240-22663-B-5 DU	079SB-0015M-0001,0002-SO	Moisture	T	4.4306 g	8.7074 g	8.6500 g			
240-22663-A-6	079SB-0016M-0001-SO	Moisture	T	4.4306 g	10.0862 g	10.0105 g			
240-22663-D-7	079SB-0017M-0001-SO	Moisture	T	4.4306 g	10.5107 g	9.4366 g			
240-22663-A-8	079SB-0020M-0001-SO	Moisture	T	4.4306 g	9.3804 g	9.3099 g			
240-22663-A-9	079SB-0019M-0001-SO	Moisture	T	4.4306 g	8.4074 g	8.3467 g			
240-22663-A-10	070SB-0046M-0001-SB	Moisture	T	4.4306 g	9.0706 g	9.0132 g			
240-22663-A-11	073SS-0035M-0001-SO	Moisture	T	4.4306 g	9.1137 g	9.0604 g			
240-22663-A-12	073SB-0036M-0001-SO	Moisture	T	4.4306 g	10.1429 g	10.1003 g			
240-22663-A-13	073SB-0037M-0001-SO	Moisture	T	4.4306 g	11.3430 g	11.3046 g			
240-22663-A-14	073SB-0038M-0001-SO	Moisture	T	4.4306 g	8.1720 g	8.1498 g			
240-22663-A-15	073SB-0039M-0001-SO	Moisture	T	4.4306 g	10.6765 g	10.6396 g			
240-22663-A-16	073SB-0040M-0001,0002-SO	Moisture	T	4.4306 g	8.5540 g	8.5244 g			
240-22663-B-16 DU	073SB-0040M-0001,0002-SO	Moisture	T	4.4306 g	8.9658 g	8.9354 g			
240-22663-D-17	073SB-0041M-0001-SO	Moisture	T	4.4306 g	10.7796 g	10.0427 g			
240-22663-A-18	073SB-0042M-0001-SO	Moisture	T	4.4306 g	11.5193 g	11.4475 g			
240-22663-A-19	073SB-0043M-0001-SO	Moisture	T	4.4306 g	9.7488 g	9.7127 g			

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 80985 Batch Start Date: 04/08/13 11:14 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/09/13 10:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22663-A-20	073SB-0044-0001-SO	Moisture	T	4.4306 g	18.5932 g	17.2898 g			
240-22663-A-21	079SB-0021M-0001-SO	Moisture	T	4.4306 g	9.5971 g	9.5335 g			
240-22663-A-22	079SB-0022M-0001-SO	Moisture	T	4.4306 g	8.8997 g	8.8385 g			
240-22663-A-23	079SB-0023M-0001-SO	Moisture	T	4.4306 g	10.1381 g	10.0567 g			
240-22663-A-24	079SB-0024M-0001,0002-SO	Moisture	T	4.4306 g	8.0183 g	7.9670 g			
240-22663-B-24 DU	079SB-0024M-0001,0002-SO	Moisture	T	4.4306 g	8.1037 g	8.0513 g			
240-22663-A-25	079SB-0025M-0001-SO	Moisture	T	4.4306 g	9.0623 g	9.0045 g			
240-22663-D-26	079SB-0026M-0001-SO	Moisture	T	4.4306 g	10.3777 g	9.1934 g			
240-22663-A-27	079SB-0027M-0001-SO	Moisture	T	4.4306 g	9.5039 g	9.4368 g			
240-22663-D-28	079SB-0028M-0001-SO	Moisture	T	4.4306 g	10.3431 g	9.0884 g			
240-22663-A-29	079SB-0029-0001-SO	Moisture	T	4.4306 g	14.0885 g	13.5092 g			
240-22663-A-31	068SB-0017M-0001-SO	Moisture	T	4.4306 g	8.8181 g	8.7717 g			
240-22663-A-32	068SB-0018M-0001-SO	Moisture	T	4.4306 g	12.9950 g	12.9203 g			
240-22663-A-33	068SB-0019M-0001-SO	Moisture	T	4.4306 g	8.9879 g	8.9427 g			
240-22663-A-34	068SB-0022M-0001-SO	Moisture	T	4.4306 g	13.7082 g	13.6046 g			
240-22663-A-35	068SB-0020M-0001-SO	Moisture	T	4.4306 g	9.3902 g	9.3469 g			
240-22663-A-36	068SB-0023M-0001-SO	Moisture	T	4.4306 g	8.0517 g	8.0060 g			
240-22663-A-37	068SB-0024M-0001-SO	Moisture	T	4.4306 g	7.0979 g	7.0764 g			
240-22663-A-37 DU	068SB-0024M-0001-SO	Moisture	T	4.4306 g	8.1545 g	8.1246 g			
240-22663-A-38	068SB-0025M-0001-SO	Moisture	T	4.4306 g	10.0618 g	10.0086 g			
240-22663-A-39	068SB-0032-0001-SO	Moisture	T	4.4306 g	12.1654 g	11.2046 g			

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-22663-1

SDG No.:

Batch Number: 80985 Batch Start Date: 04/08/13 11:14 Batch Analyst: Stiller, Jennifer

Batch Method: Moisture Batch End Date: 04/09/13 10:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-22663-A-39 DU	068SB-0032-0001-SO	Moisture	T	4.4306 g	11.7274 g	10.6875 g			
240-22663-A-40	068SB-0027M-0001-SO	Moisture	T	4.4306 g	8.7557 g	8.6977 g			
240-22663-A-41	068SB-0028M-0001-SO	Moisture	T	4.4306 g	11.4262 g	11.3780 g			
240-22663-A-43	068SB-0030M-0001-SO	Moisture	T	4.4306 g	10.6295 g	10.5633 g			
240-22663-A-44	068SB-0031M-0001-SO	Moisture	T	4.4306 g	9.9888 g	9.9386 g			

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4-8-13
Oven Temp when samples are put in oven	102.0 Degrees C
Time samples were place in the oven	12:20pm
Date samples were removed from oven	4-9-13
Oven Temp when samples removed from oven	103.4 Degrees C
Time Samples were removed from oven	5:30
Oven ID	002
ID number of the thermometer	TEMPGUARD BOX C #6

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14670 Batch Start Date: 04/19/13 06:02 Batch Analyst: Phan, Tuan

Batch Method: 353.2 (NCell) Batch End Date: 04/19/13 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNCSP 00008			
MB 320-14670/1		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		10.00 g	45 mL				
LCS 320-14670/2		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		10.00 g	45 mL	1 mL			
240-22663-F-4	079SB-0014M-0001 -SO	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	10.64 g	45 mL				
240-22663-F-7	079SB-0017M-0001 -SO	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	10.08 g	45 mL				
240-22663-F-17	073SB-0041M-0001 -SO	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	9.97 g	45 mL				
240-22663-F-26	079SB-0026M-0001 -SO	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	10.00 g	45 mL				
240-22663-F-28	079SB-0028M-0001 -SO	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	10.46 g	45 mL				

Batch Notes	
1:1 MeOH/H2O	HPMeOH/H2O_00010
Acetone Lot #	BAKER 0000010624
Centrifuge Tube	BD FALCOM 2142558

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14752 Batch Start Date: 04/22/13 05:45 Batch Analyst: Phan, Tuan

Batch Method: 353 (NCell-Hyd) Batch End Date: 04/22/13 09:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 320-14670/1-A		353 (NCell-Hyd), WS-WC-0050		45 mL	40 mL				
LCS 320-14670/2-A		353 (NCell-Hyd), WS-WC-0050		45 mL	40 mL				
240-22663-F-4-G	079SB-0014M-0001 -SO	353 (NCell-Hyd), WS-WC-0050	T	45 mL	40 mL				
240-22663-F-7-C	079SB-0017M-0001 -SO	353 (NCell-Hyd), WS-WC-0050	T	45 mL	40 mL				
240-22663-F-17-C	073SB-0041M-0001 -SO	353 (NCell-Hyd), WS-WC-0050	T	45 mL	40 mL				
240-22663-F-26-C	079SB-0026M-0001 -SO	353 (NCell-Hyd), WS-WC-0050	T	45 mL	40 mL				
240-22663-F-28-C	079SB-0028M-0001 -SO	353 (NCell-Hyd), WS-WC-0050	T	45 mL	40 mL				

Batch Notes	
0.45 Filter Vendor/Lot	MILLIPORE R2SA72748
Centrifuge Tube	BD FALCOM 2142558
Sulfuric Acid Lot Number	Sulfuric Acid_00001
Millipore Water Dispense Date	4/21/13
NaOH Lot #	1NNaOH_00002

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-22663-1

SDG No.:

Batch Number: 14914 Batch Start Date: 04/23/13 12:17 Batch Analyst: Stredny, Joseph

Batch Method: WS-WC-0050 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC-353.2-ICV 00022	WC-353.2-L1 00022	WC-353.2-L4 00016			
ICV 320-14914/8		WS-WC-0050		# mL					
MRL 320-14914/10		WS-WC-0050			# mL				
MRL 320-14914/21		WS-WC-0050			# mL				
CCV 320-14914/22		WS-WC-0050				# mL			
CCV 320-14914/36		WS-WC-0050				# mL			
CCV 320-14914/43		WS-WC-0050				# mL			

Batch Notes	
Nitrocellulose Assay	0.119
Color Reagent 1 ID	4525-wc-21-3, Exp: 07/5/13
NO2/NO3 Indicator ID #	4525-WC-21-7, Exp: 05/31/13

Basis	Basis Description

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

Subcontract Data

Shipping and Receiving Documents

Loeb, Mark

From: Jeff Donovan [JDonovan@ecc.net]
Sent: Thursday, April 04, 2013 2:45 PM
To: Loeb, Mark
Cc: Jackson Kiker
Subject: Fwd: Cancel analysis on this sample 2:45 pm

Hi Mark, go ahead and cancel the analysis on this sample

068SB-0029M-0001-SO

Coll 29-Mar-13 1253 COC 008872

I will be collecting a replacement
sample today or tomorrow.
Thanks
Jeff

Jeff Donovan
Senior Environmental Scientist
ECC
33 Boston Post Road West-Suite 420
Marlborough, MA 01752
Tel: (508) 229-2270 ext. 22123
Cell:(508) 509-1784
Fax:(508) 229-7737
>>> Jeff Donovan 4/4/2013 4:34 AM >>>
Hi again, hold off on canceling this sample until I call you this morning, thanks Mark,
Jeff

Jeff Donovan
Senior Environmental Scientist
ECC
33 Boston Post Road West-Suite 420
Marlborough, MA 01752
Tel: (508) 229-2270 ext. 22123
Cell:(508) 509-1784
Fax:(508) 229-7737
>>> Jeff Donovan 4/4/2013 4:05 AM >>>
Morning Mark, can you please cancel the analysis on the following sample:

068SB-0029M-0001-SO

Coll 29-Mar-13 1253 COC 008872

I will be collecting a replacement sample today or tomorrow.
Thanks
Jeff

Jeff Donovan
Senior Environmental Scientist
ECC
33 Boston Post Road West-Suite 420
Marlborough, MA 01752
Tel: (508) 229-2270 ext. 22123
Cell:(508) 509-1784
Fax:(508) 229-7737

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. Easterday	4/1/13	008879
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 5**
35 Boston Post Rd W. #320	(508) 229-2210		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Marlborough / MA / 01752	J. Donovan	Mark Lobb	
Project Name and Location (State)	**Carrier/Waybill Number**		
Ravenna - OH	CAB pick up		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Metals SPLP Full Suite	Pesticides	VOC	SVOC	Explosives	PAHs/Alkanes	PCB	Special Instructions/ Conditions of Receipt
079SB-0010M-0001-SD	4/1/13	1007			X		X						X							
-0011M-0001-SD		1007											X							
-0013M-0001-SD		1009											X							
-0014M-0001-SD		1012											X	X	X	X	X	X	X	Full Suite
-0015M-0001-SD		1001											X							
-0015M-0002-SD		1001											X							MS/MSD
-0016M-0001-SD		0915											X							
-0017M-0001-SD		0924												X						
-0020M-0001-SD		0924											X							
-0019M-0001-SD		0945											X							
070SB-0046M-0001-SB	4-1-13	1500												X						

240-22663 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4-1-13	1711	1. Received By	4-1-13	1711
2. Relinquished By	4-1-13	1824	2. Received By	4-2-13	0800
3. Relinquished By			3. Received By		

Comments
MS/MSD

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Page 3497 of 3505

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ELC	A. Easterday	4/1/13	008877
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 5**
33 Boston Post Rd W. #420	(508) 229-2270		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Marlborough / MA / 01752	J. Donovan	Mark Locb	
Project Name and Location (State)	**Carrier/Waybill Number**		
Ravenna - OH			
Contract/Purchase Order/Quote No.			

Page 3498 of 3505

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Metals	Ext Suite	VOC	SVOC	Pesticide	PCB	Herbicide	Phenol	% Solid	Special Instructions/ Conditions of Receipt
D73SS-0035M-0001-SO	4/1/13	1420				X	X						X									
D73SB-0036M-0001-SO		1345											X									
-0037M-0001-SO		1350											X									
-0038M-0001-SO		1240											X									
-0039M-0001-SO		1240											X									
-0040M-0001-SO		1253											X									
-0041M-0001-SO		1303											X	X	X	X	X	X	X	X		For Suite
-0042M-0001-SO		1351											X									
-0043M-0001-SO		1324											X									
-0044-0001-SO		1329											X									Discrete MS/MSD
-0040M-0002-SO		1253					4						X									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4-1-13	1711	1. Received By	4-1-13	1711
2. Relinquished By	4-1-13	1824	2. Received By	4-2-13	0800
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
EW	A. Easterday	4/1/13	008878
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 5**
55 Boston Post Rd W. #420	(508) 229-2270		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Marlborough / MA / 01752	J. Donovan	Mark Laub.	
Project Name and Location (State)	**Carrier/Waybill Number**		
Kavanna - OH			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Other	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	MeOH	Other	Analysis: Metals	Full Suite VOC	SVOC	PCB	Pesticides	Explosives	Propellants	% Solids	Special Instructions/ Conditions of Receipt
079SB-0021M-0001-SO	4/1/13	1121				X		X								X								
-0022M-0001-SO		1124														X								
-0023M-0001-SO		1124														X								
-0024M-0001-SO		1129														X								
-0024M-0002-SO		1129														X								MS/MSD
-0025M-0001-SO		1023														X								
-0026M-0001-SO		1037							X						X	X	X	X	X	X	X	X		Full Suite
-0027M-0001-SO		1112														X								
-0028M-0001-SO		1043							X						X	X	X	X	X	X	X	X		Full Suite
-0029-0001-SO		1055														X								Dissolved
068SB-0026-0001-TB		0800		X													X							TRIP BLK

Page 3499 of 3505

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4-1-13	1711	1. Received By	4-1-13	1711
2. Relinquished By	4-1-13	1824	2. Received By	4-2-13	0800
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. Easterday	4/1/13	008876
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 4 of 5**
33 Boston Post Rd W. #420	(508) 229-2270		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Marlborough / MA / 01752	J. Donovan	Mark Laub	
Project Name and Location (State)	**Carrier/Waybill Number**		
Ravenna - OH	Lab pick up		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Metals TAL	PCB	SVOC	Special Instructions/ Conditions of Receipt
0608B-0017M-0001-SO	3/29/13	1542				X	X						X	X	X	
0608B-0018M-0001-SO		1543											X	X	X	
0608B-0019M-0001-SO		1521											X	X	X	
0608B-0022M-0001-SO		1521											X	X	X	
0608B-0020M-0001-SO		1550											X	X	X	
0608B-0023M-0001-SO		1440											X	X	X	
0608B-0024M-0001-SO		1420											X	X	X	
0608B-0025M-0001-SO		1445											X	X	X	
0608B-0032-0001-SO		1530											X	X	X	Discrete

Page 3500 of 3505

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4-1-13	1711	1. Received By	4-1-13	1711
2. Relinquished By	4-1-13	1824	2. Received By	4-2-13	0800
3. Relinquished By			3. Received By		

Comments
-0032- IS A DISCRETE SAMPLE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
ECC	A. Easterday	4/1/13	008872
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 5 of 5**
33 Boston Post Rd W #420	(508) 229-2270		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Marlborough / MA / 01752	J. Donovan	Mark Lobb	
Project Name and Location (State)	**Carrier/Waybill Number**		
Ravenna - DH	LAB pick up		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Metals TAL	PCB	SVOC	Special Instructions/ Conditions of Receipt
06SB-0027M-0001-SO	3/29/13	1400				X	X						X	X	X	
06SB-0028M-0001-SO		1402											X	X	X	
06SB-0029M-0001-SO		1753											X	X	X	
06SB-0030M-0001-SO		1405											X	X	X	
06SB-0031M-0001-SO		1344											X	X	X	

Page 3501 of 3505

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4-1-13	1711	1. Received By	4-1-13	1711
2. Relinquished By	4-1-13	1824	2. Received By	4-2-13	0800
3. Relinquished By			3. Received By		

Comments
MC 15m

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica Canton Sample Receipt Form/Narrative Login # : 22663

Client ECC Site Name _____ By: _____

Cooler Received on 4-1-13 Opened on 4-1-13 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Couriers Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp._____°C Corrected Sample Temp._____°C

IR GUN# 4G (CF 0 °C) Observed Sample Temp._____°C Corrected Sample Temp._____°C

IR GUN# 5G (CF 0 °C) Observed Sample Temp._____°C Corrected Sample Temp._____°C

IR GUN# 8 (+1) (CF ~~0 °C~~) Observed Sample Temp._____°C Corrected Sample Temp._____°C

☐ Multiple on Back

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity_____ Yes No

-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were custody seals on the bottle(s)? Yes No

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Did all bottles arrive in good condition (Unbroken)? Yes No

7. Could all bottle labels be reconciled with the COC? Yes No

8. Were correct bottle(s) used for the test(s) indicated? Yes No

9. Sufficient quantity received to perform indicated analyses? Yes No

10. Were sample(s) at the correct pH upon receipt? Yes No NA

11. Were VOAs on the COC? Yes No

12. Were air bubbles >6 mm in any VOA vials? Yes No NA

13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

- Sample 07958-0017M-0001-SO (4-1-13 @ 924) on COC # 8879 only marked for Full Suite, but is crossed off on COC. Rec'd 1xL 3x40 for Full Suite.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 051012-H2SO4; Sodium Hydroxide Lot# 121809 Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What Lot/Trace # preservative added to sample(s)?

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22663-1

Login Number: 22663
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 04/09/13 01:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-22663-1

Login Number: 22663
List Number: 1
Creator: Hall, Megan

List Source: TestAmerica Sacramento
List Creation: 04/09/13 03:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Job Description: RVAAP - AAP

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 420
Marlborough, MA 01752

Attention: Mr. Jackson Kiker

Approved for release.
Mark J Loeb
Project Manager II
4/29/2015 9:41 AM

Mark J Loeb, Project Manager II
4101 Shuffel Street NW, North Canton, OH, 44720
(330)966-9387
mark.loeb@testamericainc.com
04/29/2015

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

Table of Contents

Cover Title Page 1

Data Summaries 8

- Definitions 8
- Case Narrative 10
- Detection Summary 14
- Client Sample Results 17
- Default Detection Limits 24
- Surrogate Summary 29
- QC Sample Results 33
- QC Association 68
- Chronicle 74
- Certification Summary 76
- Method Summary 78
- Sample Summary 79
- Manual Integration Summary 80
- Reagent Traceability 103
  - COAs 250

Organic Sample Data 551

- GC/MS VOA 551
  - Method 8260B DOD 551
    - Method 8260B DOD QC Summary 552
    - Method 8260B DOD Sample Data 577
    - Standards Data 595
      - Method 8260B DOD ICAL Data 595
      - Method 8260B DOD CCAL Data 717
    - Raw QC Data 763

Table of Contents

Method 8260B DOD Tune Data 763

Method 8260B DOD Blank Data 789

Method 8260B DOD LCS/LCSD Data 813

Method 8260B DOD Run Logs 873

Method 8260B DOD Prep Data 879

GC/MS Semi VOA 880

Method 8270C DOD 880

Method 8270C DOD QC Summary 881

Method 8270C DOD Sample Data 894

Standards Data 920

Method 8270C DOD ICAL Data 920

Method 8270C DOD Resolution Data 988

Method 8270C DOD CCAL Data 994

Raw QC Data 1055

Method 8270C DOD Tune Data 1055

Method 8270C DOD Blank Data 1073

Method 8270C DOD LCS/LCSD Data 1084

Method 8270C DOD Run Logs 1113

Method 8270C DOD Prep Data 1115

GC Semi VOA 1117

Method 8081 DOD 1117

Method 8081 DOD QC Summary 1118

Method 8081 DOD Sample Data 1138

Standards Data 1148

Method 8081 DOD ICAL Data 1148

Method 8081 DOD Resolution Data 1242

Table of Contents

Method 8081 DOD PEM Data 1248

Method 8081 DOD CCAL Data 1272

Raw QC Data 1406

Method 8081 DOD Blank Data 1406

Method 8081 DOD LCS/LCSD Data 1416

Method 8081 DOD MS/MSD Data 1529

Method 8081 DOD Run Logs 1549

Method 8081 DOD Prep Data 1555

Method 8082 DOD 1557

Method 8082 DOD QC Summary 1558

Method 8082 DOD Sample Data 1576

Standards Data 1588

Method 8082 DOD ICAL Data 1588

Method 8082 DOD Resolution Data 1778

Method 8082 DOD CCAL Data 1782

Raw QC Data 1949

Method 8082 DOD Blank Data 1949

Method 8082 DOD LCS/LCSD Data 1961

Method 8082 DOD MS/MSD Data 2021

Method 8082 DOD Run Logs 2053

Method 8082 DOD Prep Data 2059

HPLC/IC 2061

Method 8330 Nitroguanidine 2061

Method 8330 Nitroguanidine QC Summary 2062

Method 8330 Nitroguanidine Sample Data 2066

Standards Data 2069

Table of Contents

Method 8330 Nitroguanidine ICAL Data 2069

Method 8330 Nitroguanidine CCAL Data 2086

Raw QC Data 2113

Method 8330 Nitroguanidine Blank Data 2113

Method 8330 Nitroguanidine LCS/LCSD Data 2116

Method 8330 Nitroguanidine MS/MSD Data 2120

Method 8330 Nitroguanidine Run Logs 2126

Method 8330 Nitroguanidine Prep Data 2128

Method 8330B 2139

Method 8330B QC Summary 2140

Method 8330B Sample Data 2146

Standards Data 2149

Method 8330B ICAL Data 2149

Method 8330B CCAL Data 2212

Raw QC Data 2266

Method 8330B Blank Data 2266

Method 8330B LCS/LCSD Data 2269

Method 8330B MS/MSD Data 2273

Method 8330B Run Logs 2284

Method 8330B Prep Data 2286

Inorganic Sample Data 2300

Metals Data 2300

Met Cover Page 2301

Met Sample Data 2302

Met QC Data 2305

Met ICV/CCV 2305

Table of Contents

Met CRQL 2310

Met Blanks 2314

Met ICSA/ICSAB 2321

Met MS/MSD/PDS 2325

Met Dup/Trip 2327

Met LCS/LCSD 2328

Met Serial Dilution 2331

Met MDL 2332

Met Linear Ranges 2336

Met Preparation Log 2338

Met Analysis Run Log 2340

Met ICP/MS Int Stds 2350

Met Raw Data 2354

Met Prep Data 2702

General Chemistry Data 2708

Gen Chem Cover Page 2709

Gen Chem Sample Data 2711

Gen Chem QC Data 2712

Gen Chem ICV/CCV 2712

Gen Chem Blanks 2713

Gen Chem LCS/LCSD 2714

Gen Chem MDL 2716

Gen Chem Linear Ranges 2722

Gen Chem Preparation Log 2723

Gen Chem Analysis Run Log 2724

Gen Chem Raw Data 2731

Table of Contents

Gen Chem Prep Data 2740
Subcontracted Data 2746
Shipping and Receiving Documents 2747
Client Chain of Custody 2748
Sample Receipt Checklist 2751

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
^	Instrument related QC is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
^	Instrument related QC is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
^	Instrument related QC is outside acceptance limits.
M	Manual integrated compound.

HPLC/IC

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
M	Manual integrated compound.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
D	The reported value is from a dilution.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: RVAAP - AAP

Report Number: 240-49071-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 353.2 Nitrocellulose, and 8330B Explosives analyses were performed at the TestAmerica Sacramento Laboratory.

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

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

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 4/8/2015 7:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample 079SS-0342M-0001-SO (240-49071-1) was analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B DoD. The sample was prepared on 04/08/2015 and analyzed on 04/11/2015 and 04/14/2015.

Acetone was detected in method blank MB 240-176387/33 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Methylene

Chloride was detected in method blank MB 240-176387/33 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Toluene-d8 (Surr) failed the surrogate recovery criteria high for 079SS-0342M-0001-SO (240-49071-1), and 240-49085-I-9-A MSD. Refer to the QC report for details.

trans-1,3-Dichloropropene failed the recovery criteria low for MRL 240-176026/35.

1,2-Dichloroethane, 4-Methyl-2-pentanone (MIBK), Acetone, Chloroethane, Chloroform and Methylene Chloride failed the recovery criteria high for MRL 240-176387/30.

1,1-Dichloroethene, Acetone, Chloroethane, Chloromethane and Methylene Chloride failed the recovery criteria high for MRL 240-176387/6. Refer to the QC report for details.

Surrogate recovery for the following sample was outside of acceptance limits: 079SS-0342M-0001-SO (240-49071-1). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

The MRL opener and closer have Methylene Chloride and Acetone recovering greater than 140 percent. These two compounds are common lab contaminates which are out of the MSVOA lab control. At the reporting limit this contamination has a greater effect even if the Method Blank has these compounds below the reporting limit. The samples affected are: 079SS-0342M-0001-SO (240-49071-1), (MB 240-176387/33), (MRL 240-176387/30), and (MRL 240-176387/6).

Internal standard (ISTD) response for the following sample was outside of acceptance limits: 079SS-0342M-0001-SO (240-49071-1). The sample was not re-analyzed due to insufficient volume.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176387 on this sample: 079SS-0342M-0001-SO (240-49071-1).

The following analyte recovered outside control limits for the MRL (closing) associated with: trans 1,3-Dichloropropene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

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

VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample 079SS-0379-0001-TB (240-49071-5) was analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B DoD. The sample was analyzed on 04/09/2015.

Acetone was detected in method blank MB 240-175731/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Bromoform, cis-1,3-Dichloropropene, Dibromochloromethane, Methylene Chloride and trans-1,3-Dichloropropene failed the recovery criteria low for MRL 240-175731/15.

Bromomethane, Chloroethane, Chloromethane and Vinyl chloride failed the recovery criteria high for MRL 240-175731/5. Refer to the QC report for details.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 175731: 079SS-0379-0001-TB (240-49071-5).

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

POLYCHLORINATED BIPHENYLS (PCBS) WITH INCREMENTAL SAMPLE PREPARATION

Sample 079SS-0342M-0001,0002-SO (240-49071-2) was analyzed for Polychlorinated biphenyls (PCBs) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8082 DOD. The samples began the drying process on 04/08/2015, were extracted on 04/20/2015 and analyzed on 04/23/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: 079SS-0342M-0001,0002-SO (240-49071-2), (240-49071-A-2-E MS), and (240-49071-A-2-F MSD). Reagents: 1942873, 1848564, and 1931921.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS) WITH INCREMENTAL SAMPLE PREPARATION

Sample 079SS-0342M-0001,0002-SO (240-49071-2) was analyzed for semivolatile organic compounds (GCMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8270 DoD. The samples began the drying process on 04/08/2015, were extracted on 04/14/2015 and analyzed on 04/22/2015.

Butyl benzyl phthalate was detected in method blank MB 240-176319/23-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

CHLORINATED PESTICIDES WITH INCREMENTAL SAMPLE PREPARATION

Sample 079SS-0342M-0001,0002-SO (240-49071-2) was analyzed for chlorinated pesticides with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8081 DoD. The samples began the drying process on 04/08/2015, were extracted on 04/20/2015 and analyzed on 04/22/2015.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for 079SS-0342M-0001,0002-SOMSD (240-49071-2MSD). Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MSD of sample 079SS-0342M-0001,0002-SOMSD (240-49071-2) in batch 240-177258. Several analytes exceeded the RPD limit. The MS and LCS passed acceptance criteria indicating an anomaly with the MSD. Samples were passed the recommended hold time for extraction and no further action was initiated. 079SS-0342M-0001,0002-SO (240-49071-2), (240-49071-A-2-Q MS), and (240-49071-A-2-R MSD)

The continuing calibration verification (CCV) associated with batch 177258 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SS-0342M-0001,0002-SO (240-49071-2).

The continuing calibration verification (CCV) associated with batch 177463 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (LCS 240-177037/8-A).

The MRL failed low for DDT on the confirmation column. DDT passed on the primary column. Samples are ND. Data reported: 079SS-0342M-0001,0002-SO (240-49071-2), (240-49071-A-2-Q MS), and (240-49071-A-2-R MSD).

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

NITROGUANIDINE (HPLC)

Sample 079SS-0342M-0001,0002-SO (240-49071-2) was analyzed for nitroguanidine (HPLC) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8330_Ngu. The sample began the drying process on 04/08/2015, was prepared on 04/18/2015 and analyzed on 04/22/2015.

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

EXPLOSIVES

Sample 079SS-0342M-0001,0002-SO (240-49071-2) was analyzed for explosives with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 8330B. The sample began the drying process on 04/08/2015, was extracted on 04/18/2015 and analyzed on 04/23/2015.

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

TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATION

Samples 079SS-0342M-0001,0002-SO (240-49071-2), 079SS-0343M-0001-SO (240-49071-3) and 079SS-0344M-0001-SO (240-49071-4) were analyzed for total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 6020 DoD. The samples began the drying process on 04/08/2015, were digested on 04/15/2015 and analyzed on 04/20/2015 and 04/21/2015.

Several analytes were detected in method blank MB 240-176562/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Antimony and Calcium failed the recovery criteria low for the MS of sample 079SS-0342M-0001,0002-SOMS (240-49071-2) in batch 240-177351. Aluminum, Iron and Manganese failed the recovery criteria high.

Antimony, Calcium and Nickel exceeded the RPD limit for the duplicate of sample 079SS-0342M-0001,0002-SODU (240-49071-2). Refer to the QC report for details.

Samples 079SS-0342M-0001,0002-SO (240-49071-2)[50X], 079SS-0343M-0001-SO (240-49071-3)[50X] and 079SS-0344M-0001-SO (240-49071-4)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

MERCURY WITH INCREMENTAL SAMPLE PREPARATION

Samples 079SS-0342M-0001,0002-SO (240-49071-2), 079SS-0343M-0001-SO (240-49071-3) and 079SS-0344M-0001-SO (240-49071-4) were analyzed for mercury with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 Method 7471A DOD. The samples began the drying process on 04/08/2015, were prepared on 04/15/2015 and analyzed on 04/16/2015.

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

NITROCELLULOSE

Sample 079SS-0342M-0001,0002-SO (240-49071-2) was analyzed for Nitrocellulose with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA Method 353.2. The sample was prepared on 04/21/2015 and analyzed on 04/22/2015.

Nitrocellulose was detected in method blank MB 320-71507/1-B at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

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

TOTAL SOLIDS/PERCENT MOISTURE

Samples 079SS-0342M-0001,0002-SO (240-49071-2), 079SS-0343M-0001-SO (240-49071-3) and 079SS-0344M-0001-SO (240-49071-4) were analyzed for Total Solids/Percent Moisture with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and Percent Moisture method. The samples began the drying process on 04/08/2015 and were analyzed on 04/13/2015.

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

PERCENT SOLIDS

Sample 079SS-0342M-0001-SO (240-49071-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The sample was analyzed on 04/08/2015.

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

Detection Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001-SO — Lab Sample ID: 240-49071-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.5	J	21	1.5	ug/Kg	1	☼	8260B	Total/NA
Acetone	23	Q	18	5.6	ug/Kg	1	☼	8260B	Total/NA
Methylene Chloride	3.9	J Q B	4.4	0.59	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: 079SS-0342M-0001,0002-SO — Lab Sample ID: 240-49071-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	3.5	J	6.8	0.79	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	18		6.8	0.64	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	18		6.8	0.65	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	29		6.8	0.60	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	13		6.8	0.35	ug/Kg	1	☼	8270C	Total/NA
Benzoic acid	800		670	36	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	15	M	6.8	0.69	ug/Kg	1	☼	8270C	Total/NA
Bis(2-ethylhexyl) phthalate	99		71	19	ug/Kg	1	☼	8270C	Total/NA
Chrysene	29		6.8	1.1	ug/Kg	1	☼	8270C	Total/NA
Di-n-butyl phthalate	15	J	71	15	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	45		6.8	0.56	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	12	M	6.8	0.35	ug/Kg	1	☼	8270C	Total/NA
Isophorone	64		51	13	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	13		6.8	0.51	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	12		6.8	0.83	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	25		6.8	0.74	ug/Kg	1	☼	8270C	Total/NA
Pyrene	36		6.8	0.45	ug/Kg	1	☼	8270C	Total/NA
beta-BHC - RE	2.4	J	3.6	0.37	ug/Kg	1	☼	8081A	Total/NA
Aluminum	10000	D J	480	15	mg/Kg	50	☼	6020	Total/NA
Antimony	0.14	J D	0.39	0.014	mg/Kg	2	☼	6020	Total/NA
Arsenic	8.1	D	0.97	0.025	mg/Kg	2	☼	6020	Total/NA
Barium	51	J D	0.97	0.21	mg/Kg	2	☼	6020	Total/NA
Beryllium	0.40	D	0.19	0.011	mg/Kg	2	☼	6020	Total/NA
Cadmium	0.18	J D	0.39	0.0036	mg/Kg	2	☼	6020	Total/NA
Calcium	2100	J D	390	21	mg/Kg	2	☼	6020	Total/NA
Chromium	14	D	0.97	0.058	mg/Kg	2	☼	6020	Total/NA
Cobalt	5.7	D	0.19	0.0016	mg/Kg	2	☼	6020	Total/NA
Copper	9.4	D	0.77	0.094	mg/Kg	2	☼	6020	Total/NA
Iron	19000	D J	2400	77	mg/Kg	50	☼	6020	Total/NA
Lead	15	D	0.58	0.043	mg/Kg	2	☼	6020	Total/NA
Magnesium	1400	D	190	3.9	mg/Kg	2	☼	6020	Total/NA
Manganese	380	J D	0.97	0.12	mg/Kg	2	☼	6020	Total/NA
Nickel	36	D	0.97	0.038	mg/Kg	2	☼	6020	Total/NA
Potassium	470	D	190	4.7	mg/Kg	2	☼	6020	Total/NA
Selenium	0.84	J D	0.97	0.039	mg/Kg	2	☼	6020	Total/NA
Silver	0.043	J D	0.19	0.0014	mg/Kg	2	☼	6020	Total/NA
Sodium	28	J D	190	8.4	mg/Kg	2	☼	6020	Total/NA
Thallium	0.16	J D	0.39	0.018	mg/Kg	2	☼	6020	Total/NA
Vanadium	20	D	0.97	0.036	mg/Kg	2	☼	6020	Total/NA
Zinc	55	D	7.7	0.48	mg/Kg	2	☼	6020	Total/NA
Mercury	0.039	J	0.11	0.016	mg/Kg	1	☼	7471A	Total/NA
Nitrocellulose	1.3	J	5.1	0.80	mg/Kg	1	☼	WS-WC-0050	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Client Sample ID: 079SS-0343M-0001-SO — Lab Sample ID: 240-49071-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8900	D	450	14	mg/Kg	50	☼	6020	Total/NA
Antimony	0.11	J D	0.36	0.013	mg/Kg	2	☼	6020	Total/NA
Arsenic	9.5	D	0.89	0.023	mg/Kg	2	☼	6020	Total/NA
Barium	52	D	0.89	0.20	mg/Kg	2	☼	6020	Total/NA
Beryllium	0.48	D	0.18	0.0098	mg/Kg	2	☼	6020	Total/NA
Cadmium	0.16	J D	0.36	0.0033	mg/Kg	2	☼	6020	Total/NA
Calcium	4700	D	360	20	mg/Kg	2	☼	6020	Total/NA
Chromium	17	D	0.89	0.054	mg/Kg	2	☼	6020	Total/NA
Cobalt	7.4	D	0.18	0.0015	mg/Kg	2	☼	6020	Total/NA
Copper	11	D	0.72	0.087	mg/Kg	2	☼	6020	Total/NA
Iron	21000	D	2200	72	mg/Kg	50	☼	6020	Total/NA
Lead	16	D	0.54	0.040	mg/Kg	2	☼	6020	Total/NA
Magnesium	2500	D	180	3.6	mg/Kg	2	☼	6020	Total/NA
Manganese	670	D	22	2.7	mg/Kg	50	☼	6020	Total/NA
Nickel	19	D	0.89	0.035	mg/Kg	2	☼	6020	Total/NA
Potassium	640	D	180	4.4	mg/Kg	2	☼	6020	Total/NA
Selenium	0.75	J D	0.89	0.036	mg/Kg	2	☼	6020	Total/NA
Silver	0.030	J D	0.18	0.0013	mg/Kg	2	☼	6020	Total/NA
Sodium	31	J D	180	7.8	mg/Kg	2	☼	6020	Total/NA
Thallium	0.15	J D	0.36	0.017	mg/Kg	2	☼	6020	Total/NA
Vanadium	17	D	0.89	0.033	mg/Kg	2	☼	6020	Total/NA
Zinc	52	D	7.2	0.45	mg/Kg	2	☼	6020	Total/NA
Mercury	0.030	J	0.12	0.017	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: 079SS-0344M-0001-SO — Lab Sample ID: 240-49071-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9400	D	420	13	mg/Kg	50	☼	6020	Total/NA
Antimony	0.11	J D	0.34	0.012	mg/Kg	2	☼	6020	Total/NA
Arsenic	9.9	D	0.85	0.022	mg/Kg	2	☼	6020	Total/NA
Barium	51	D	0.85	0.19	mg/Kg	2	☼	6020	Total/NA
Beryllium	0.45	D	0.17	0.0093	mg/Kg	2	☼	6020	Total/NA
Cadmium	0.15	J D	0.34	0.0031	mg/Kg	2	☼	6020	Total/NA
Calcium	5500	D	340	19	mg/Kg	2	☼	6020	Total/NA
Chromium	16	D	0.85	0.051	mg/Kg	2	☼	6020	Total/NA
Cobalt	6.2	D	0.17	0.0014	mg/Kg	2	☼	6020	Total/NA
Copper	13	D	0.68	0.082	mg/Kg	2	☼	6020	Total/NA
Iron	22000	D	2100	68	mg/Kg	50	☼	6020	Total/NA
Lead	17	D	0.51	0.038	mg/Kg	2	☼	6020	Total/NA
Magnesium	2300	D	170	3.4	mg/Kg	2	☼	6020	Total/NA
Manganese	450	D	21	2.5	mg/Kg	50	☼	6020	Total/NA
Nickel	18	D	0.85	0.033	mg/Kg	2	☼	6020	Total/NA
Potassium	670	D	170	4.2	mg/Kg	2	☼	6020	Total/NA
Selenium	0.75	J D	0.85	0.034	mg/Kg	2	☼	6020	Total/NA
Silver	0.030	J D	0.17	0.0012	mg/Kg	2	☼	6020	Total/NA
Sodium	29	J D	170	7.4	mg/Kg	2	☼	6020	Total/NA
Thallium	0.14	J D	0.34	0.016	mg/Kg	2	☼	6020	Total/NA
Vanadium	16	D	0.85	0.031	mg/Kg	2	☼	6020	Total/NA
Zinc	53	D	6.8	0.42	mg/Kg	2	☼	6020	Total/NA
Mercury	0.031	J	0.12	0.016	mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Client Sample ID: 079SS-0379-0001-TB

Lab Sample ID: 240-49071-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	10	0.94	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 079SS-0342M-0001-SO
Date Collected: 04/06/15 16:30
Date Received: 04/08/15 07:00

Lab Sample ID: 240-49071-1
Matrix: Solid
Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.3	0.59	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,1,2,2-Tetrachloroethane	1.1	U	5.3	0.36	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,1,2-Trichloroethane	1.1	U	5.3	0.41	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,1-Dichloroethane	1.1	U	5.3	0.38	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,1-Dichloroethene	1.1	U	5.3	0.55	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,2-Dibromoethane	1.1	U Q	5.3	0.53	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,2-Dichloroethane	1.1	U	5.3	0.36	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,2-Dichloroethene, Total	2.1	U	11	0.38	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
1,2-Dichloropropane	2.1	U	5.3	0.73	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
2-Butanone (MEK)	**1.5**	**J**	21	1.5	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
2-Hexanone	1.1	U	21	0.66	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
4-Methyl-2-pentanone (MIBK)	1.1	U	21	0.57	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Acetone	**23**	**Q**	18	5.6	ug/Kg	☼	04/08/15 13:15	04/14/15 20:08	1
Benzene	0.53	U	5.3	0.24	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Bromochloromethane	2.1	U	5.3	0.75	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Bromodichloromethane	0.53	U	5.3	0.30	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Bromoform	1.1	U Q	5.3	0.35	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Bromomethane	1.1	U	5.3	0.57	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Carbon disulfide	1.1	U	5.3	0.46	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Carbon tetrachloride	1.1	U	5.3	0.39	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Chlorobenzene	1.1	U	5.3	0.35	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Chloroethane	1.1	U	5.3	0.91	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Chloroform	0.53	U	5.3	0.31	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Chloromethane	0.53	U	5.3	0.43	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
cis-1,3-Dichloropropene	1.1	U	5.3	0.36	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Dibromochloromethane	1.1	U Q	5.3	0.58	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Ethylbenzene	0.53	U Q	5.3	0.27	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Methyl tert-butyl ether	1.1	U	5.3	0.45	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Methylene Chloride	**3.9**	**J Q B**	4.4	0.59	ug/Kg	☼	04/08/15 13:15	04/14/15 20:08	1
Styrene	0.53	U Q	5.3	0.16	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Tetrachloroethene	1.1	U Q	5.3	0.55	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Toluene	0.53	U	5.3	0.28	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
trans-1,3-Dichloropropene	1.1	U	5.3	0.57	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Trichloroethene	1.1	U	5.3	0.44	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Vinyl chloride	1.1	U	5.3	0.41	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1
Xylenes, Total	2.1	U Q	11	0.37	ug/Kg	☼	04/08/15 13:15	04/11/15 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*61 - 130*	*04/08/15 13:15*	*04/11/15 03:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*	*Q*	*61 - 130*	*04/08/15 13:15*	*04/14/15 20:08*	*1*
4-Bromofluorobenzene (Surr)	*92*		*85 - 120*	*04/08/15 13:15*	*04/11/15 03:26*	*1*
4-Bromofluorobenzene (Surr)	*96*	*Q*	*85 - 120*	*04/08/15 13:15*	*04/14/15 20:08*	*1*
Dibromofluoromethane (Surr)	*107*		*59 - 138*	*04/08/15 13:15*	*04/11/15 03:26*	*1*
Dibromofluoromethane (Surr)	*95*	*Q*	*59 - 138*	*04/08/15 13:15*	*04/14/15 20:08*	*1*
Toluene-d8 (Surr)	*117*	*Q*	*85 - 115*	*04/08/15 13:15*	*04/11/15 03:26*	*1*
Toluene-d8 (Surr)	*105*	*Q*	*85 - 115*	*04/08/15 13:15*	*04/14/15 20:08*	*1*

Client Sample ID: 079SS-0342M-0001,0002-SO

Date Collected: 04/06/15 16:30
Date Received: 04/08/15 07:00

Lab Sample ID: 240-49071-2

Matrix: Solid
Percent Solids: 97.7

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.8	0.77	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Acenaphthylene	1.7	U	6.8	0.35	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Anthracene	**3.5**	**J**	6.8	0.79	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzo[a]anthracene	**18**		6.8	0.64	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzo[a]pyrene	**18**		6.8	0.65	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzo[b]fluoranthene	**29**		6.8	0.60	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzo[g,h,i]perylene	**13**		6.8	0.35	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzoic acid	**800**		670	36	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzo[k]fluoranthene	**15**	**M**	6.8	0.69	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Benzyl alcohol	68	U	330	21	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Bis(2-chloroethoxy)methane	68	U	100	22	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
bis (2-chloroisopropyl) ether	34	U	100	9.6	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Bis(2-ethylhexyl) phthalate	**99**		71	19	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4-Bromophenyl phenyl ether	34	U	51	13	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Butyl benzyl phthalate	34	U	71	10	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Carbazole	34	U	51	27	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4-Chloroaniline	68	U	150	17	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4-Chloro-3-methylphenol	68	U	150	21	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2-Chloronaphthalene	1.7	U	51	0.46	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2-Chlorophenol	34	U	51	8.3	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4-Chlorophenyl phenyl ether	34	U	51	13	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Chrysene	**29**		6.8	1.1	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Dibenz(a,h)anthracene	3.3	U	6.8	0.67	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Dibenzofuran	3.3	U	51	0.67	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
1,2-Dichlorobenzene	34	U	51	9.8	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
1,3-Dichlorobenzene	34	U	51	11	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
1,4-Dichlorobenzene	34	U	51	20	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
3,3'-Dichlorobenzidine	68	U	100	18	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,4-Dichlorophenol	68	U	150	20	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Diethyl phthalate	34	U	71	16	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,4-Dimethylphenol	68	U	150	20	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Dimethyl phthalate	34	U	71	17	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Di-n-butyl phthalate	**15**	**J**	71	15	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4,6-Dinitro-2-methylphenol	34	U	150	9.3	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,4-Dinitrophenol	68	U	330	21	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,4-Dinitrotoluene	68	U	200	17	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,6-Dinitrotoluene	68	U	200	21	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Di-n-octyl phthalate	34	U	71	8.0	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Fluoranthene	**45**		6.8	0.56	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Fluorene	3.3	U	6.8	0.54	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Hexachlorobenzene	3.3	U	6.8	2.1	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Hexachlorobutadiene	34	U	51	5.7	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Hexachlorocyclopentadiene	34	U	330	8.2	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Hexachloroethane	34	U	51	9.1	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Indeno[1,2,3-cd]pyrene	**12**	**M**	6.8	0.35	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Isophorone	**64**		51	13	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2-Methylnaphthalene	**13**		6.8	0.51	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2-Methylphenol	68	U	200	11	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1

Client Sample ID: 079SS-0342M-0001,0002-SO
Date Collected: 04/06/15 16:30
Date Received: 04/08/15 07:00

Lab Sample ID: 240-49071-2
Matrix: Solid
Percent Solids: 97.7

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	68	U	410	20	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Naphthalene	**12**		6.8	0.83	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2-Nitroaniline	34	U	200	9.2	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
3-Nitroaniline	68	U	200	16	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4-Nitroaniline	68	U	200	26	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2-Nitrophenol	34	U	51	8.4	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
4-Nitrophenol	68	U	330	17	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
N-Nitrosodi-n-propylamine	34	U	51	6.4	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
N-Nitrosodiphenylamine	34	U	51	21	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Pentachlorophenol	34	U	150	9.2	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Phenanthrene	**25**		6.8	0.74	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Phenol	34	U	51	7.4	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
Pyrene	**36**		6.8	0.45	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
1,2,4-Trichlorobenzene	17	U	51	3.5	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,4,5-Trichlorophenol	68	U	150	25	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1
2,4,6-Trichlorophenol	34	U	150	9.0	ug/Kg	☼	04/14/15 08:47	04/22/15 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*45 - 105*	*04/14/15 08:47*	*04/22/15 13:54*	*1*
2-Fluorophenol (Surr)	*80*		*35 - 105*	*04/14/15 08:47*	*04/22/15 13:54*	*1*
Nitrobenzene-d5 (Surr)	*65*		*35 - 100*	*04/14/15 08:47*	*04/22/15 13:54*	*1*
Phenol-d5 (Surr)	*79*		*40 - 100*	*04/14/15 08:47*	*04/22/15 13:54*	*1*
Terphenyl-d14 (Surr)	*75*		*30 - 125*	*04/14/15 08:47*	*04/22/15 13:54*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*35 - 125*	*04/14/15 08:47*	*04/22/15 13:54*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - RE

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.44	U Q J	2.1	0.21	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
4,4'-DDE	0.44	U Q J	1.8	0.28	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
4,4'-DDT	0.86	U Q J	2.1	0.32	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Aldrin	0.86	U J	4.2	0.21	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
alpha-BHC	1.8	U Q J	2.6	0.62	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
alpha-Chlordane	0.86	U J	3.1	0.26	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
beta-BHC	**2.4**	**J**	3.6	0.37	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
delta-BHC	0.86	U J	4.2	0.23	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Dieldrin	0.44	U Q J	1.8	0.17	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Endosulfan I	0.86	U J	1.8	0.26	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Endosulfan II	0.86	U Q J	2.6	0.40	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Endosulfan sulfate	0.86	U Q J	3.1	0.35	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Endrin	0.86	U Q J	1.8	0.22	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Endrin aldehyde	0.86	U J	3.1	0.33	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Endrin ketone	1.8	U J	2.1	0.44	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
gamma-BHC (Lindane)	1.8	U Q J	2.6	0.48	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
gamma-Chlordane	1.8	U J	1.8	0.90	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Heptachlor	1.8	U Q J	3.6	0.73	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Heptachlor epoxide	1.8	U Q J	2.6	0.42	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Methoxychlor	1.8	U Q J	5.2	0.56	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1
Toxaphene	17	U	70	10	ug/Kg	☼	04/20/15 09:00	04/22/15 00:45	1

Client Sample ID: 079SS-0342M-0001,0002-SO

Date Collected: 04/06/15 16:30
Date Received: 04/08/15 07:00

Lab Sample ID: 240-49071-2

Matrix: Solid
Percent Solids: 97.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*	*Q*	*55 - 130*	*04/20/15 09:00*	*04/22/15 00:45*	*1*
DCB Decachlorobiphenyl	*78*	*Q*	*55 - 130*	*04/20/15 09:00*	*04/22/15 00:45*	*1*
Tetrachloro-m-xylene	*72*	*Q*	*70 - 125*	*04/20/15 09:00*	*04/22/15 00:45*	*1*
Tetrachloro-m-xylene	*140*	*Q*	*70 - 125*	*04/20/15 09:00*	*04/22/15 00:45*	*1*

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	34	U	52	17	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1
Aroclor-1016	34	U	68	12	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1
Aroclor-1232	34	U	47	21	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1
Aroclor-1242	34	U	42	11	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1
Aroclor-1248	34	U	57	8.3	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1
Aroclor-1254	34	U	57	15	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1
Aroclor-1260	34	U	57	9.4	ug/Kg	☼	04/20/15 09:04	04/23/15 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*40 - 140*	*04/20/15 09:04*	*04/23/15 19:26*	*1*
Tetrachloro-m-xylene	*74*		*40 - 140*	*04/20/15 09:04*	*04/23/15 19:26*	*1*
DCB Decachlorobiphenyl	*70*		*60 - 125*	*04/20/15 09:04*	*04/23/15 19:26*	*1*
DCB Decachlorobiphenyl	*80*		*60 - 125*	*04/20/15 09:04*	*04/23/15 19:26*	*1*

Method: 8330 Modified - Nitroguanidine (HPLC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.039	U	0.25	0.020	mg/Kg		04/18/15 14:00	04/22/15 16:15	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.013	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.010	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
1,3-Dinitrobenzene	0.050	U	0.25	0.0042	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
2,4-Dinitrotoluene	0.050	U	0.25	0.0053	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
2,6-Dinitrotoluene	0.050	U	0.25	0.0073	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
HMX	0.050	U	0.25	0.012	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
Nitrobenzene	0.050	U	0.25	0.018	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
Nitroglycerin	0.25	U	0.50	0.015	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
2-Nitrotoluene	0.050	U	0.25	0.013	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
3-Nitrotoluene	0.050	U	0.25	0.016	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
4-Nitrotoluene	0.050	U	0.25	0.018	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
PETN	0.25	U	0.50	0.025	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
RDX	0.050	U	0.25	0.012	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
Tetryl	0.050	U	0.25	0.010	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
1,3,5-Trinitrobenzene	0.050	U	0.25	0.010	mg/Kg		04/18/15 14:00	04/23/15 19:44	1
2,4,6-Trinitrotoluene	0.050	U	0.25	0.019	mg/Kg		04/18/15 14:00	04/23/15 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*89*		*78 - 118*	*04/18/15 14:00*	*04/23/15 19:44*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**	**D J**	480	15	mg/Kg	☼	04/15/15 11:42	04/21/15 20:59	50
Antimony	**0.14**	**J D**	0.39	0.014	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2

Client Sample ID: 079SS-0342M-0001,0002-SO

Lab Sample ID: 240-49071-2

Date Collected: 04/06/15 16:30
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.7

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1	D	0.97	0.025	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Barium	51	J D	0.97	0.21	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Beryllium	0.40	D	0.19	0.011	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Cadmium	0.18	J D	0.39	0.0036	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Calcium	2100	J D	390	21	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Chromium	14	D	0.97	0.058	mg/Kg	☼	04/15/15 11:42	04/21/15 22:08	2
Cobalt	5.7	D	0.19	0.0016	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Copper	9.4	D	0.77	0.094	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Iron	19000	D J	2400	77	mg/Kg	☼	04/15/15 11:42	04/21/15 20:59	50
Lead	15	D	0.58	0.043	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Magnesium	1400	D	190	3.9	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Manganese	380	J D	0.97	0.12	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Nickel	36	D	0.97	0.038	mg/Kg	☼	04/15/15 11:42	04/21/15 22:08	2
Potassium	470	D	190	4.7	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Selenium	0.84	J D	0.97	0.039	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Silver	0.043	J D	0.19	0.0014	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Sodium	28	J D	190	8.4	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Thallium	0.16	J D	0.39	0.018	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Vanadium	20	D	0.97	0.036	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2
Zinc	55	D	7.7	0.48	mg/Kg	☼	04/15/15 11:42	04/20/15 18:22	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	J	0.11	0.016	mg/Kg	☼	04/15/15 15:00	04/16/15 09:29	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.3	J	5.1	0.80	mg/Kg	☼	04/21/15 06:29	04/22/15 13:57	1

Client Sample ID: 079SS-0343M-0001-SO

Lab Sample ID: 240-49071-3

Date Collected: 04/06/15 14:00
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8900	D	450	14	mg/Kg	☼	04/15/15 11:42	04/21/15 21:18	50
Antimony	0.11	J D	0.36	0.013	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Arsenic	9.5	D	0.89	0.023	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Barium	52	D	0.89	0.20	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Beryllium	0.48	D	0.18	0.0098	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Cadmium	0.16	J D	0.36	0.0033	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Calcium	4700	D	360	20	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Chromium	17	D	0.89	0.054	mg/Kg	☼	04/15/15 11:42	04/21/15 22:34	2
Cobalt	7.4	D	0.18	0.0015	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Copper	11	D	0.72	0.087	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Iron	21000	D	2200	72	mg/Kg	☼	04/15/15 11:42	04/21/15 21:18	50
Lead	16	D	0.54	0.040	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Magnesium	2500	D	180	3.6	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Manganese	670	D	22	2.7	mg/Kg	☼	04/15/15 11:42	04/21/15 21:18	50
Nickel	19	D	0.89	0.035	mg/Kg	☼	04/15/15 11:42	04/21/15 22:34	2

Client Sample ID: 079SS-0343M-0001-SO

Lab Sample ID: 240-49071-3

Date Collected: 04/06/15 14:00
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.3

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	640	D	180	4.4	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Selenium	0.75	J D	0.89	0.036	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Silver	0.030	J D	0.18	0.0013	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Sodium	31	J D	180	7.8	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Thallium	0.15	J D	0.36	0.017	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Vanadium	17	D	0.89	0.033	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2
Zinc	52	D	7.2	0.45	mg/Kg	☼	04/15/15 11:42	04/20/15 18:41	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	J	0.12	0.017	mg/Kg	☼	04/15/15 15:00	04/16/15 09:39	1

Client Sample ID: 079SS-0344M-0001-SO

Lab Sample ID: 240-49071-4

Date Collected: 04/06/15 00:00
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	D	420	13	mg/Kg	☼	04/15/15 11:42	04/21/15 21:22	50
Antimony	0.11	J D	0.34	0.012	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Arsenic	9.9	D	0.85	0.022	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Barium	51	D	0.85	0.19	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Beryllium	0.45	D	0.17	0.0093	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Cadmium	0.15	J D	0.34	0.0031	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Calcium	5500	D	340	19	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Chromium	16	D	0.85	0.051	mg/Kg	☼	04/15/15 11:42	04/21/15 22:38	2
Cobalt	6.2	D	0.17	0.0014	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Copper	13	D	0.68	0.082	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Iron	22000	D	2100	68	mg/Kg	☼	04/15/15 11:42	04/21/15 21:22	50
Lead	17	D	0.51	0.038	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Magnesium	2300	D	170	3.4	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Manganese	450	D	21	2.5	mg/Kg	☼	04/15/15 11:42	04/21/15 21:22	50
Nickel	18	D	0.85	0.033	mg/Kg	☼	04/15/15 11:42	04/21/15 22:38	2
Potassium	670	D	170	4.2	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Selenium	0.75	J D	0.85	0.034	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Silver	0.030	J D	0.17	0.0012	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Sodium	29	J D	170	7.4	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Thallium	0.14	J D	0.34	0.016	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Vanadium	16	D	0.85	0.031	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2
Zinc	53	D	6.8	0.42	mg/Kg	☼	04/15/15 11:42	04/20/15 18:45	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031	J	0.12	0.016	mg/Kg	☼	04/15/15 15:00	04/16/15 09:40	1

Client Sample ID: 079SS-0379-0001-TB

Date Collected: 04/06/15 08:00
Date Received: 04/08/15 07:00

Lab Sample ID: 240-49071-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/09/15 13:37	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/09/15 13:37	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/09/15 13:37	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/09/15 13:37	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/09/15 13:37	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/09/15 13:37	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/09/15 13:37	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/09/15 13:37	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/09/15 13:37	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/09/15 13:37	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/09/15 13:37	1
Acetone	**1.6**	**J**	10	0.94	ug/L			04/09/15 13:37	1
Benzene	1.0	U	1.0	0.35	ug/L			04/09/15 13:37	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/09/15 13:37	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/09/15 13:37	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/09/15 13:37	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/09/15 13:37	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/09/15 13:37	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/09/15 13:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/09/15 13:37	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/09/15 13:37	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/09/15 13:37	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/09/15 13:37	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/09/15 13:37	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/09/15 13:37	1
Styrene	0.50	U	1.0	0.45	ug/L			04/09/15 13:37	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/09/15 13:37	1
Toluene	1.0	U	1.0	0.23	ug/L			04/09/15 13:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/09/15 13:37	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/09/15 13:37	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/09/15 13:37	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/09/15 13:37	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/09/15 13:37	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/09/15 13:37	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/09/15 13:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/09/15 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*85 - 120*		*04/09/15 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 120*		*04/09/15 13:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/09/15 13:37*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*04/09/15 13:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	LOQ	DL	Units	Method
1,1,1-Trichloroethane	5.0	0.56	ug/Kg	8260B
1,1,1-Trichloroethane	1.0	0.44	ug/L	8260B
1,1,2,2-Tetrachloroethane	5.0	0.34	ug/Kg	8260B
1,1,2,2-Tetrachloroethane	1.0	0.22	ug/L	8260B
1,1,2-Trichloroethane	5.0	0.39	ug/Kg	8260B
1,1,2-Trichloroethane	1.0	0.24	ug/L	8260B
1,1-Dichloroethane	5.0	0.36	ug/Kg	8260B
1,1-Dichloroethane	1.0	0.30	ug/L	8260B
1,1-Dichloroethene	5.0	0.52	ug/Kg	8260B
1,1-Dichloroethene	1.0	0.45	ug/L	8260B
1,2-Dibromoethane	5.0	0.50	ug/Kg	8260B
1,2-Dibromoethane	1.0	0.32	ug/L	8260B
1,2-Dichloroethane	5.0	0.34	ug/Kg	8260B
1,2-Dichloroethane	1.0	0.23	ug/L	8260B
1,2-Dichloroethene, Total	10	0.36	ug/Kg	8260B
1,2-Dichloroethene, Total	2.0	0.20	ug/L	8260B
1,2-Dichloropropane	5.0	0.69	ug/Kg	8260B
1,2-Dichloropropane	1.0	0.25	ug/L	8260B
2-Butanone (MEK)	20	1.4	ug/Kg	8260B
2-Butanone (MEK)	10	0.53	ug/L	8260B
2-Hexanone	20	0.63	ug/Kg	8260B
2-Hexanone	10	0.48	ug/L	8260B
4-Methyl-2-pentanone (MIBK)	20	0.54	ug/Kg	8260B
4-Methyl-2-pentanone (MIBK)	10	0.99	ug/L	8260B
Acetone	20	6.3	ug/Kg	8260B
Acetone	10	0.94	ug/L	8260B
Benzene	5.0	0.23	ug/Kg	8260B
Benzene	1.0	0.35	ug/L	8260B
Bromochloromethane	5.0	0.71	ug/Kg	8260B
Bromochloromethane	1.0	0.50	ug/L	8260B
Bromodichloromethane	5.0	0.28	ug/Kg	8260B
Bromodichloromethane	1.0	0.29	ug/L	8260B
Bromoform	5.0	0.33	ug/Kg	8260B
Bromoform	1.0	0.56	ug/L	8260B
Bromomethane	5.0	0.54	ug/Kg	8260B
Bromomethane	1.0	0.44	ug/L	8260B
Carbon disulfide	5.0	0.44	ug/Kg	8260B
Carbon disulfide	1.0	0.38	ug/L	8260B
Carbon tetrachloride	5.0	0.37	ug/Kg	8260B
Carbon tetrachloride	1.0	0.43	ug/L	8260B
Chlorobenzene	5.0	0.33	ug/Kg	8260B
Chlorobenzene	1.0	0.25	ug/L	8260B
Chloroethane	5.0	0.86	ug/Kg	8260B
Chloroethane	1.0	0.32	ug/L	8260B
Chloroform	5.0	0.29	ug/Kg	8260B
Chloroform	1.0	0.25	ug/L	8260B
Chloromethane	5.0	0.41	ug/Kg	8260B
Chloromethane	1.0	0.44	ug/L	8260B
cis-1,3-Dichloropropene	5.0	0.34	ug/Kg	8260B
cis-1,3-Dichloropropene	1.0	0.46	ug/L	8260B
Dibromochloromethane	5.0	0.55	ug/Kg	8260B
Dibromochloromethane	1.0	0.43	ug/L	8260B

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

Analyte	LOQ	DL	Units	Method
Ethylbenzene	5.0	0.26	ug/Kg	8260B
Ethylbenzene	1.0	0.25	ug/L	8260B
Methyl tert-butyl ether	5.0	0.43	ug/Kg	8260B
Methyl tert-butyl ether	1.0	0.20	ug/L	8260B
Methylene Chloride	5.0	0.67	ug/Kg	8260B
Methylene Chloride	1.0	0.33	ug/L	8260B
Styrene	5.0	0.15	ug/Kg	8260B
Styrene	1.0	0.45	ug/L	8260B
Tetrachloroethene	5.0	0.52	ug/Kg	8260B
Tetrachloroethene	1.0	0.31	ug/L	8260B
Toluene	5.0	0.27	ug/Kg	8260B
Toluene	1.0	0.23	ug/L	8260B
trans-1,3-Dichloropropene	5.0	0.54	ug/Kg	8260B
trans-1,3-Dichloropropene	1.0	0.56	ug/L	8260B
Trichloroethene	5.0	0.42	ug/Kg	8260B
Trichloroethene	1.0	0.22	ug/L	8260B
Vinyl chloride	5.0	0.39	ug/Kg	8260B
Vinyl chloride	1.0	0.29	ug/L	8260B
Xylenes, Total	10	0.35	ug/Kg	8260B
Xylenes, Total	2.0	0.52	ug/L	8260B

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

Analyte	LOQ	DL	Units	Method
1,2,4-Trichlorobenzene	50	3.5	ug/Kg	8270C
1,2-Dichlorobenzene	50	9.7	ug/Kg	8270C
1,3-Dichlorobenzene	50	11	ug/Kg	8270C
1,4-Dichlorobenzene	50	20	ug/Kg	8270C
2,4,5-Trichlorophenol	150	25	ug/Kg	8270C
2,4,6-Trichlorophenol	150	8.9	ug/Kg	8270C
2,4-Dichlorophenol	150	20	ug/Kg	8270C
2,4-Dimethylphenol	150	20	ug/Kg	8270C
2,4-Dinitrophenol	330	21	ug/Kg	8270C
2,4-Dinitrotoluene	200	17	ug/Kg	8270C
2,6-Dinitrotoluene	200	21	ug/Kg	8270C
2-Chloronaphthalene	50	0.45	ug/Kg	8270C
2-Chlorophenol	50	8.2	ug/Kg	8270C
2-Methylnaphthalene	6.7	0.50	ug/Kg	8270C
2-Methylphenol	200	11	ug/Kg	8270C
2-Nitroaniline	200	9.1	ug/Kg	8270C
2-Nitrophenol	50	8.3	ug/Kg	8270C
3 & 4 Methylphenol	400	20	ug/Kg	8270C
3,3'-Dichlorobenzidine	100	18	ug/Kg	8270C
3-Nitroaniline	200	16	ug/Kg	8270C
4,6-Dinitro-2-methylphenol	150	9.2	ug/Kg	8270C
4-Bromophenyl phenyl ether	50	13	ug/Kg	8270C
4-Chloro-3-methylphenol	150	21	ug/Kg	8270C
4-Chloroaniline	150	17	ug/Kg	8270C
4-Chlorophenyl phenyl ether	50	13	ug/Kg	8270C
4-Nitroaniline	200	26	ug/Kg	8270C
4-Nitrophenol	330	17	ug/Kg	8270C
Acenaphthene	6.7	0.76	ug/Kg	8270C

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

Analyte	LOQ	DL	Units	Method
Acenaphthylene	6.7	0.35	ug/Kg	8270C
Anthracene	6.7	0.78	ug/Kg	8270C
Benzo[a]anthracene	6.7	0.63	ug/Kg	8270C
Benzo[a]pyrene	6.7	0.64	ug/Kg	8270C
Benzo[b]fluoranthene	6.7	0.59	ug/Kg	8270C
Benzo[g,h,i]perylene	6.7	0.35	ug/Kg	8270C
Benzo[k]fluoranthene	6.7	0.68	ug/Kg	8270C
Benzoic acid	660	36	ug/Kg	8270C
Benzyl alcohol	330	21	ug/Kg	8270C
bis (2-chloroisopropyl) ether	100	9.5	ug/Kg	8270C
Bis(2-chloroethoxy)methane	100	22	ug/Kg	8270C
Bis(2-chloroethyl)ether	100	2.0	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate	70	19	ug/Kg	8270C
Butyl benzyl phthalate	70	10	ug/Kg	8270C
Carbazole	50	27	ug/Kg	8270C
Chrysene	6.7	1.1	ug/Kg	8270C
Dibenz(a,h)anthracene	6.7	0.66	ug/Kg	8270C
Dibenzofuran	50	0.66	ug/Kg	8270C
Diethyl phthalate	70	16	ug/Kg	8270C
Dimethyl phthalate	70	17	ug/Kg	8270C
Di-n-butyl phthalate	70	15	ug/Kg	8270C
Di-n-octyl phthalate	70	7.9	ug/Kg	8270C
Fluoranthene	6.7	0.55	ug/Kg	8270C
Fluorene	6.7	0.53	ug/Kg	8270C
Hexachlorobenzene	6.7	2.1	ug/Kg	8270C
Hexachlorobutadiene	50	5.6	ug/Kg	8270C
Hexachlorocyclopentadiene	330	8.1	ug/Kg	8270C
Hexachloroethane	50	9.0	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene	6.7	0.35	ug/Kg	8270C
Isophorone	50	13	ug/Kg	8270C
Naphthalene	6.7	0.82	ug/Kg	8270C
Nitrobenzene	100	2.2	ug/Kg	8270C
N-Nitrosodi-n-propylamine	50	6.3	ug/Kg	8270C
N-Nitrosodiphenylamine	50	21	ug/Kg	8270C
Pentachlorophenol	150	9.1	ug/Kg	8270C
Phenanthrene	6.7	0.73	ug/Kg	8270C
Phenol	50	7.3	ug/Kg	8270C
Pyrene	6.7	0.44	ug/Kg	8270C

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	LOQ	DL	Units	Method
4,4'-DDD	2.0	0.20	ug/Kg	8081A
4,4'-DDE	1.7	0.27	ug/Kg	8081A
4,4'-DDT	2.0	0.31	ug/Kg	8081A
Aldrin	4.0	0.20	ug/Kg	8081A
alpha-BHC	2.5	0.60	ug/Kg	8081A
alpha-Chlordane	3.0	0.25	ug/Kg	8081A
beta-BHC	3.5	0.36	ug/Kg	8081A
delta-BHC	4.0	0.22	ug/Kg	8081A
Dieldrin	1.7	0.16	ug/Kg	8081A
Endosulfan I	1.7	0.25	ug/Kg	8081A

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

Analyte	LOQ	DL	Units	Method
Endosulfan II	2.5	0.38	ug/Kg	8081A
Endosulfan sulfate	3.0	0.34	ug/Kg	8081A
Endrin	1.7	0.21	ug/Kg	8081A
Endrin aldehyde	3.0	0.32	ug/Kg	8081A
Endrin ketone	2.0	0.42	ug/Kg	8081A
gamma-BHC (Lindane)	2.5	0.46	ug/Kg	8081A
gamma-Chlordane	1.7	0.86	ug/Kg	8081A
Heptachlor	3.5	0.70	ug/Kg	8081A
Heptachlor epoxide	2.5	0.40	ug/Kg	8081A
Methoxychlor	5.0	0.54	ug/Kg	8081A
Toxaphene	67	9.8	ug/Kg	8081A

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

Analyte	LOQ	DL	Units	Method
Aroclor-1016	65	12	ug/Kg	8082
Aroclor-1221	50	16	ug/Kg	8082
Aroclor-1232	45	20	ug/Kg	8082
Aroclor-1242	40	11	ug/Kg	8082
Aroclor-1248	55	8.0	ug/Kg	8082
Aroclor-1254	55	14	ug/Kg	8082
Aroclor-1260	55	9.0	ug/Kg	8082

Method: 8330 Modified - Nitroguanidine (HPLC)

Analyte	LOQ	DL	Units	Method
Nitroguanidine	0.25	0.020	mg/Kg	8330 Modified

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	LOQ	DL	Units	Method
1,3,5-Trinitrobenzene	0.25	0.010	mg/Kg	8330B
1,3-Dinitrobenzene	0.25	0.0042	mg/Kg	8330B
2,4,6-Trinitrotoluene	0.25	0.019	mg/Kg	8330B
2,4-Dinitrotoluene	0.25	0.0053	mg/Kg	8330B
2,6-Dinitrotoluene	0.25	0.0073	mg/Kg	8330B
2-Amino-4,6-dinitrotoluene	0.25	0.013	mg/Kg	8330B
2-Nitrotoluene	0.25	0.013	mg/Kg	8330B
3-Nitrotoluene	0.25	0.016	mg/Kg	8330B
4-Amino-2,6-dinitrotoluene	0.25	0.010	mg/Kg	8330B
4-Nitrotoluene	0.25	0.018	mg/Kg	8330B
HMX	0.25	0.012	mg/Kg	8330B
Nitrobenzene	0.25	0.018	mg/Kg	8330B
Nitroglycerin	0.50	0.015	mg/Kg	8330B
PETN	0.50	0.025	mg/Kg	8330B
RDX	0.25	0.012	mg/Kg	8330B
Tetryl	0.25	0.010	mg/Kg	8330B

Method: 6020 - Metals (ICP/MS)

Analyte	LOQ	DL	Units	Method
Aluminum	20	0.62	mg/Kg	6020

Default Detection Limits

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

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

Analyte	LOQ	DL	Units	Method
Antimony	0.40	0.014	mg/Kg	6020
Arsenic	1.0	0.026	mg/Kg	6020
Barium	1.0	0.22	mg/Kg	6020
Beryllium	0.20	0.011	mg/Kg	6020
Cadmium	0.40	0.0037	mg/Kg	6020
Calcium	400	22	mg/Kg	6020
Chromium	1.0	0.060	mg/Kg	6020
Cobalt	0.20	0.0017	mg/Kg	6020
Copper	0.80	0.097	mg/Kg	6020
Iron	100	3.2	mg/Kg	6020
Lead	0.60	0.045	mg/Kg	6020
Magnesium	200	4.0	mg/Kg	6020
Manganese	1.0	0.12	mg/Kg	6020
Nickel	1.0	0.039	mg/Kg	6020
Potassium	200	4.9	mg/Kg	6020
Selenium	1.0	0.040	mg/Kg	6020
Silver	0.20	0.0014	mg/Kg	6020
Sodium	200	8.7	mg/Kg	6020
Thallium	0.40	0.019	mg/Kg	6020
Vanadium	1.0	0.037	mg/Kg	6020
Zinc	8.0	0.50	mg/Kg	6020

Method: 7471A - Mercury (CVAA)

Analyte	LOQ	DL	Units	Method
Mercury	0.10	0.014	mg/Kg	7471A

General Chemistry

Analyte	LOQ	DL	Units	Method
Nitrocellulose	5.0	0.78	mg/Kg	WS-WC-0050

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(61-130)	(85-120)	(59-138)	(85-115)
240-49071-1	079SS-0342M-0001-SO	104	92	107	117 Q
240-49071-1	079SS-0342M-0001-SO	109 Q	96 Q	95 Q	105 Q
LCS 240-176026/6	Lab Control Sample	92	101	107	113
LCS 240-176387/5	Lab Control Sample	99	101	96	102
MB 240-175865/2-A	Method Blank	98	97	106	113
MB 240-176387/33	Method Blank	105	96	95	103

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176026/35	Lab Control Sample	94	115	102	103
MRL 240-176026/7	Lab Control Sample	93	111	98	103
MRL 240-176387/30	Lab Control Sample	110	107	102	98
MRL 240-176387/6	Lab Control Sample	104	108	100	101

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-120)	(70-120)	(75-120)	(85-115)
240-49071-5	079SS-0379-0001-TB	94	95	97	93
LCS 240-175731/4	Lab Control Sample	96	93	98	94
MB 240-175731/6	Method Blank	96	94	98	93

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-175731/15	Lab Control Sample	92	96	97	91
MRL 240-175731/5	Lab Control Sample	96	95	99	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(45-105)	(35-105)	(35-100)	(40-100)	(30-125)	(35-125)
240-49071-2	079SS-0342M-0001,0002-SO	72	80	65	79	75	78
LCS 240-176319/24-A	Lab Control Sample	76	81	74	81	83	63
MB 240-176319/23-A	Method Blank	75	67	68	76	75	36

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177355/18	Lab Control Sample	99	104	95	101	95	106
MRL 240-177355/3	Lab Control Sample	99	106	93	100	95	103

Surrogate Legend

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

Method: 8081A - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(55-130)	(55-130)	(70-125)	(70-125)
240-49071-2 - RE	079SS-0342M-0001,0002-SO	73 Q	78 Q	72 Q	140 Q
240-49071-2 MS	079SS-0342M-0001,0002-SO	96	94	108	109
240-49071-2 MSD	079SS-0342M-0001,0002-SO	44 Q	42 Q	39 Q	76
LCS 240-177037/8-A	Lab Control Sample	95	89	90	84
MB 240-177037/7-A	Method Blank	105	103	100	98

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177258/31	Lab Control Sample	123	123	116	120
MRL 240-177258/49	Lab Control Sample	116	117	117	118
MRL 240-177463/18	Lab Control Sample	114	110	108	113
MRL 240-177463/21	Lab Control Sample	114	115	111	117

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(60-125)	(60-125)
240-49071-2	079SS-0342M-0001,0002-SO	73	74	70	80
240-49071-2 MS	079SS-0342M-0001,0002-SO	92	86	82	87
240-49071-2 MSD	079SS-0342M-0001,0002-SO	81	79	73	78
LCS 240-177040/5-A	Lab Control Sample	81	77	86	85
MB 240-177040/4-A	Method Blank	118	115	116	119

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177609/15	Lab Control Sample	101	101	98	98
MRL 240-177609/9	Lab Control Sample	96	97	97	96
MRL 240-177830/19	Lab Control Sample	94	95	94	100

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)								
		DNT1								
Lab Sample ID	Client Sample ID	(78-118)								
240-49071-2	079SS-0342M-0001,0002-SO	89								
240-49071-2 MS	079SS-0342M-0001,0002-SO	93								
240-49071-2 MSD	079SS-0342M-0001,0002-SO	90								
LCS 320-71481/2-A	Lab Control Sample	92								
MB 320-71481/1-A	Method Blank	90								

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-175731/6
Matrix: Water
Analysis Batch: 175731

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/09/15 12:06	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/09/15 12:06	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/09/15 12:06	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/09/15 12:06	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/09/15 12:06	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/09/15 12:06	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/09/15 12:06	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/09/15 12:06	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/09/15 12:06	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/09/15 12:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/09/15 12:06	1
Acetone	1.64	J	10	0.94	ug/L			04/09/15 12:06	1
Benzene	1.0	U	1.0	0.35	ug/L			04/09/15 12:06	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/09/15 12:06	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/09/15 12:06	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/09/15 12:06	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/09/15 12:06	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/09/15 12:06	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/09/15 12:06	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/09/15 12:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/09/15 12:06	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/09/15 12:06	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/09/15 12:06	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/09/15 12:06	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/09/15 12:06	1
Styrene	0.50	U	1.0	0.45	ug/L			04/09/15 12:06	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/09/15 12:06	1
Toluene	1.0	U	1.0	0.23	ug/L			04/09/15 12:06	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/09/15 12:06	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/09/15 12:06	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/09/15 12:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/09/15 12:06	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/09/15 12:06	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/09/15 12:06	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/09/15 12:06	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/09/15 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 120*		*04/09/15 12:06*	*1*
Toluene-d8 (Surr)	*96*		*85 - 120*		*04/09/15 12:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*04/09/15 12:06*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*04/09/15 12:06*	*1*

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

Lab Sample ID: LCS 240-175731/4
Matrix: Water
Analysis Batch: 175731

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	65 - 130
1,1,2,2-Tetrachloroethane	10.0	9.71		ug/L		97	65 - 130
1,1,2-Trichloroethane	10.0	9.84		ug/L		98	75 - 125
1,1-Dichloroethane	10.0	10.5		ug/L		105	70 - 135
1,1-Dichloroethene	10.0	10.7		ug/L		107	70 - 130
1,2-Dichloroethane	10.0	10.4		ug/L		104	70 - 130
1,2-Dichloropropane	10.0	10.1		ug/L		101	75 - 125
2-Butanone (MEK)	20.0	19.9		ug/L		100	30 - 150
2-Hexanone	20.0	19.2		ug/L		96	55 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.1		ug/L		100	60 - 135
Acetone	20.0	17.4		ug/L		87	40 - 140
Benzene	10.0	10.1		ug/L		101	80 - 120
Bromoform	10.0	9.74		ug/L		97	70 - 130
Bromomethane	10.0	8.58		ug/L		86	30 - 145
Carbon disulfide	10.0	10.9		ug/L		109	35 - 160
Carbon tetrachloride	10.0	10.8		ug/L		108	65 - 140
Chlorobenzene	10.0	9.79		ug/L		98	80 - 120
Bromodichloromethane	10.0	9.81		ug/L		98	75 - 120
Chloromethane	10.0	8.18		ug/L		82	40 - 125
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	70 - 130
Dibromochloromethane	10.0	10.0		ug/L		100	60 - 135
Ethylbenzene	10.0	10.1		ug/L		101	75 - 125
Methyl tert-butyl ether	10.0	10.3		ug/L		103	65 - 125
Methylene Chloride	10.0	10.5		ug/L		105	55 - 140
Styrene	10.0	9.36		ug/L		94	65 - 135
Tetrachloroethene	10.0	10.1		ug/L		101	45 - 150
Toluene	10.0	10.0		ug/L		100	75 - 120
Chloroform	10.0	10.1		ug/L		101	65 - 135
Bromochloromethane	10.0	9.90		ug/L		99	65 - 130
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	55 - 140
Trichloroethene	10.0	10.4		ug/L		104	70 - 125
Vinyl chloride	10.0	8.68		ug/L		87	50 - 145
Chloroethane	10.0	8.70		ug/L		87	60 - 135
Xylenes, Total	20.0	19.9		ug/L		100	75 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 120*
Toluene-d8 (Surr)	*96*		*85 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane (Surr)	*94*		*85 - 115*

Lab Sample ID: MRL 240-175731/15
Matrix: Water
Analysis Batch: 175731

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00100	0.000744	J	ng/uL		74	70 - 130
1,1,2,2-Tetrachloroethane	0.00100	0.000753	J	ng/uL		75	70 - 130

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

Lab Sample ID: MRL 240-175731/15
Matrix: Water
Analysis Batch: 175731

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	0.00100	0.000744	J	ng/uL		74	70 - 130
1,1-Dichloroethane	0.00100	0.000783	J	ng/uL		78	70 - 130
1,1-Dichloroethene	0.00100	0.000789	J	ng/uL		79	70 - 130
1,2-Dichloroethane	0.00100	0.000765	J	ng/uL		77	70 - 130
1,2-Dichloropropane	0.00100	0.000802	J	ng/uL		80	70 - 130
2-Butanone (MEK)	0.0100	0.00776	J	ng/uL		78	70 - 130
2-Hexanone	0.0100	0.00812	J	ng/uL		81	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00860	J	ng/uL		86	70 - 130
Acetone	0.0100	0.00793	J	ng/uL		79	70 - 130
Benzene	0.00100	0.000821	J	ng/uL		82	70 - 130
Bromoform	0.00100	0.000604	J ^	ng/uL		60	70 - 130
Bromomethane	0.00100	0.000895	J	ng/uL		89	70 - 130
Carbon disulfide	0.00100	0.000710	J	ng/uL		71	70 - 130
Carbon tetrachloride	0.00100	0.000754	J	ng/uL		75	70 - 130
Chlorobenzene	0.00100	0.000781	J	ng/uL		78	70 - 130
Bromodichloromethane	0.00100	0.000754	J	ng/uL		75	70 - 130
Chloromethane	0.00100	0.000884	J	ng/uL		88	70 - 130
cis-1,3-Dichloropropene	0.00100	0.000683	J ^	ng/uL		68	70 - 130
Dibromochloromethane	0.00100	0.000689	J ^	ng/uL		69	70 - 130
Ethylbenzene	0.00100	0.000758	J	ng/uL		76	70 - 130
Methyl tert-butyl ether	0.00100	0.000789	J	ng/uL		79	70 - 130
Methylene Chloride	0.00100	0.000685	J ^	ng/uL		69	70 - 130
Styrene	0.00100	0.000702	J	ng/uL		70	70 - 130
Tetrachloroethene	0.00100	0.000746	J	ng/uL		75	70 - 130
Toluene	0.00100	0.000797	J	ng/uL		80	70 - 130
Chloroform	0.00100	0.000830	J	ng/uL		83	70 - 130
Bromochloromethane	0.00100	0.000739	J	ng/uL		74	70 - 130
trans-1,3-Dichloropropene	0.00100	0.000682	J ^	ng/uL		68	70 - 130
Trichloroethene	0.00100	0.000777	J	ng/uL		78	70 - 130
Vinyl chloride	0.00100	0.000866	J	ng/uL		87	70 - 130
Chloroethane	0.00100	0.000955	J	ng/uL		96	70 - 130
Xylenes, Total	0.00200	0.00152	J	ng/uL		76	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 150*
Toluene-d8 (Surr)	*96*		*50 - 150*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*
Dibromofluoromethane (Surr)	*91*		*50 - 150*

Lab Sample ID: MRL 240-175731/5
Matrix: Water
Analysis Batch: 175731

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00100	0.00105		ng/uL		105	70 - 130
1,1,2,2-Tetrachloroethane	0.00100	0.000994	J	ng/uL		99	70 - 130
1,1,2-Trichloroethane	0.00100	0.000994	J	ng/uL		99	70 - 130
1,1-Dichloroethane	0.00100	0.00110		ng/uL		110	70 - 130

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

Lab Sample ID: MRL 240-175731/5
Matrix: Water
Analysis Batch: 175731

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.00104		ng/uL		104	70 - 130
1,2-Dichloroethane	0.00100	0.00110		ng/uL		110	70 - 130
1,2-Dichloropropane	0.00100	0.00105		ng/uL		105	70 - 130
2-Butanone (MEK)	0.0100	0.00874	J	ng/uL		87	70 - 130
2-Hexanone	0.0100	0.00878	J	ng/uL		88	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00931	J	ng/uL		93	70 - 130
Acetone	0.0100	0.00914	J	ng/uL		91	70 - 130
Benzene	0.00100	0.00104		ng/uL		104	70 - 130
Bromoform	0.00100	0.000955	J	ng/uL		96	70 - 130
Bromomethane	0.00100	0.00157	^	ng/uL		157	70 - 130
Carbon disulfide	0.00100	0.00103		ng/uL		103	70 - 130
Carbon tetrachloride	0.00100	0.00108		ng/uL		108	70 - 130
Chlorobenzene	0.00100	0.00103		ng/uL		103	70 - 130
Bromodichloromethane	0.00100	0.000974	J	ng/uL		97	70 - 130
Chloromethane	0.00100	0.00156	^	ng/uL		156	70 - 130
cis-1,3-Dichloropropene	0.00100	0.000989	J	ng/uL		99	70 - 130
Dibromochloromethane	0.00100	0.000885	J	ng/uL		89	70 - 130
Ethylbenzene	0.00100	0.00102		ng/uL		102	70 - 130
Methyl tert-butyl ether	0.00100	0.00101		ng/uL		101	70 - 130
Methylene Chloride	0.00100	0.000838	J	ng/uL		84	70 - 130
Styrene	0.00100	0.000965	J	ng/uL		96	70 - 130
Tetrachloroethene	0.00100	0.00107		ng/uL		107	70 - 130
Toluene	0.00100	0.00100		ng/uL		100	70 - 130
Chloroform	0.00100	0.00101		ng/uL		101	70 - 130
Bromochloromethane	0.00100	0.00101		ng/uL		101	70 - 130
trans-1,3-Dichloropropene	0.00100	0.000936	J	ng/uL		94	70 - 130
Trichloroethene	0.00100	0.00104		ng/uL		104	70 - 130
Vinyl chloride	0.00100	0.00149	^	ng/uL		149	70 - 130
Chloroethane	0.00100	0.00152	^	ng/uL		152	70 - 130
Xylenes, Total	0.00200	0.00199	J	ng/uL		100	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*50 - 150*
Toluene-d8 (Surr)	*95*		*50 - 150*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*
Dibromofluoromethane (Surr)	*94*		*50 - 150*

Lab Sample ID: MB 240-175865/2-A
Matrix: Solid
Analysis Batch: 176026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175865

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	5.0	0.56	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,1,2,2-Tetrachloroethane	1.0	U	5.0	0.34	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,1,2-Trichloroethane	1.0	U	5.0	0.39	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,1-Dichloroethane	1.0	U	5.0	0.36	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,1-Dichloroethene	1.0	U	5.0	0.52	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,2-Dichloroethane	1.0	U	5.0	0.34	ug/Kg		04/10/15 05:23	04/11/15 03:04	1

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

Lab Sample ID: MB 240-175865/2-A
Matrix: Solid
Analysis Batch: 176026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 175865

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	2.0	U	10	0.36	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,2-Dichloropropane	2.0	U	5.0	0.69	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
2-Butanone (MEK)	4.0	U	20	1.4	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
2-Hexanone	1.0	U	20	0.63	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
4-Methyl-2-pentanone (MIBK)	1.0	U	20	0.54	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Benzene	0.50	U	5.0	0.23	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Bromoform	1.0	U	5.0	0.33	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Bromomethane	1.0	U	5.0	0.54	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Carbon disulfide	1.0	U	5.0	0.44	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Carbon tetrachloride	1.0	U	5.0	0.37	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Chlorobenzene	1.0	U	5.0	0.33	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Bromodichloromethane	0.50	U	5.0	0.28	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Chloromethane	0.50	U	5.0	0.41	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Dibromochloromethane	1.0	U	5.0	0.55	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Ethylbenzene	0.50	U	5.0	0.26	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Methyl tert-butyl ether	1.0	U	5.0	0.43	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Methylene Chloride	2.0	U	5.0	0.67	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Styrene	0.50	U	5.0	0.15	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Tetrachloroethene	1.0	U	5.0	0.52	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Toluene	0.50	U	5.0	0.27	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Chloroform	0.50	U	5.0	0.29	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Bromochloromethane	2.0	U	5.0	0.71	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
1,2-Dibromoethane	1.0	U	5.0	0.50	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.54	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Trichloroethene	1.0	U	5.0	0.42	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Vinyl chloride	1.0	U	5.0	0.39	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Chloroethane	1.0	U	5.0	0.86	ug/Kg		04/10/15 05:23	04/11/15 03:04	1
Xylenes, Total	2.0	U	10	0.35	ug/Kg		04/10/15 05:23	04/11/15 03:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 130*	*04/10/15 05:23*	*04/11/15 03:04*	*1*
Toluene-d8 (Surr)	*113*		*85 - 115*	*04/10/15 05:23*	*04/11/15 03:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 120*	*04/10/15 05:23*	*04/11/15 03:04*	*1*
Dibromofluoromethane (Surr)	*106*		*59 - 138*	*04/10/15 05:23*	*04/11/15 03:04*	*1*

Lab Sample ID: LCS 240-176026/6
Matrix: Solid
Analysis Batch: 176026

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.2		ug/Kg		98	70 - 135
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/Kg		102	55 - 130
1,1,2-Trichloroethane	50.0	50.3		ug/Kg		101	60 - 125
1,1-Dichloroethane	50.0	49.0		ug/Kg		98	75 - 125
1,1-Dichloroethene	50.0	49.8		ug/Kg		100	65 - 135
1,2-Dichloroethane	50.0	44.4		ug/Kg		89	70 - 135
1,2-Dichloropropane	50.0	50.5		ug/Kg		101	70 - 120

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

Lab Sample ID: LCS 240-176026/6
Matrix: Solid
Analysis Batch: 176026

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	89.7		ug/Kg		90	30 - 160
2-Hexanone	100	99.8		ug/Kg		100	45 - 145
4-Methyl-2-pentanone (MIBK)	100	101		ug/Kg		101	45 - 145
Benzene	50.0	50.4		ug/Kg		101	75 - 125
Bromoform	50.0	47.2		ug/Kg		94	55 - 135
Bromomethane	50.0	50.1		ug/Kg		100	30 - 160
Carbon disulfide	50.0	54.7		ug/Kg		109	45 - 160
Carbon tetrachloride	50.0	52.0		ug/Kg		104	65 - 135
Chlorobenzene	50.0	49.9		ug/Kg		100	75 - 125
Bromodichloromethane	50.0	53.2		ug/Kg		106	70 - 130
Chloromethane	50.0	35.3		ug/Kg		71	50 - 130
cis-1,3-Dichloropropene	50.0	56.4		ug/Kg		113	70 - 125
Dibromochloromethane	50.0	55.2		ug/Kg		110	65 - 130
Ethylbenzene	50.0	51.8		ug/Kg		104	75 - 125
Methyl tert-butyl ether	50.0	49.1		ug/Kg		98	70 - 130
Methylene Chloride	50.0	49.5		ug/Kg		99	55 - 140
Styrene	50.0	53.1		ug/Kg		106	75 - 125
Tetrachloroethene	50.0	49.9		ug/Kg		100	65 - 140
Toluene	50.0	51.1		ug/Kg		102	70 - 125
Chloroform	50.0	47.9		ug/Kg		96	70 - 125
Bromochloromethane	50.0	51.7		ug/Kg		103	70 - 125
trans-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	65 - 125
Trichloroethene	50.0	52.6		ug/Kg		105	75 - 125
Vinyl chloride	50.0	38.7		ug/Kg		77	60 - 125
Chloroethane	50.0	46.4		ug/Kg		93	40 - 155
Xylenes, Total	100	108		ug/Kg		108	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 130*
Toluene-d8 (Surr)	*113*		*85 - 115*
4-Bromofluorobenzene (Surr)	*101*		*85 - 120*
Dibromofluoromethane (Surr)	*107*		*59 - 138*

Lab Sample ID: MRL 240-176026/35
Matrix: Solid
Analysis Batch: 176026

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00500	0.00412		ng/uL		82	70 - 130
1,1,2,2-Tetrachloroethane	0.00500	0.00510		ng/uL		102	70 - 130
1,1,2-Trichloroethane	0.00500	0.00537		ng/uL		107	70 - 130
1,1-Dichloroethane	0.00500	0.00453		ng/uL		91	70 - 130
1,1-Dichloroethene	0.00500	0.00445		ng/uL		89	70 - 130
1,2-Dichloroethane	0.00500	0.00462		ng/uL		92	70 - 130
1,2-Dichloropropane	0.00500	0.00468		ng/uL		94	70 - 130
2-Butanone (MEK)	0.0100	0.0112		ng/uL		112	70 - 130
2-Hexanone	0.0100	0.0107		ng/uL		107	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.0104		ng/uL		104	70 - 130

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

Lab Sample ID: MRL 240-176026/35
Matrix: Solid
Analysis Batch: 176026

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00500	0.00474		ng/uL		95	70 - 130
Bromoform	0.00500	0.00381		ng/uL		76	70 - 130
Bromomethane	0.00500	0.00523		ng/uL		105	70 - 130
Carbon disulfide	0.00500	0.00353		ng/uL		71	70 - 130
Carbon tetrachloride	0.00500	0.00373		ng/uL		75	70 - 130
Chlorobenzene	0.00500	0.00489		ng/uL		98	70 - 130
Bromodichloromethane	0.00500	0.00401		ng/uL		80	70 - 130
Chloromethane	0.00500	0.00495		ng/uL		99	70 - 130
cis-1,3-Dichloropropene	0.00500	0.00384		ng/uL		77	70 - 130
Dibromochloromethane	0.00500	0.00360		ng/uL		72	70 - 130
Ethylbenzene	0.00500	0.00470		ng/uL		94	70 - 130
Methyl tert-butyl ether	0.00500	0.00472		ng/uL		94	70 - 130
Styrene	0.00500	0.00441		ng/uL		88	70 - 130
Tetrachloroethene	0.00500	0.00449		ng/uL		90	70 - 130
Toluene	0.00500	0.00481		ng/uL		96	70 - 130
Chloroform	0.00500	0.00438		ng/uL		88	70 - 130
Bromochloromethane	0.00500	0.00486		ng/uL		97	70 - 130
trans-1,3-Dichloropropene	0.00500	0.00347	^	ng/uL		69	70 - 130
Trichloroethene	0.00500	0.00502		ng/uL		100	70 - 130
Vinyl chloride	0.00500	0.00488		ng/uL		98	70 - 130
Chloroethane	0.00500	0.00495		ng/uL		99	70 - 130
Xylenes, Total	0.0100	0.00940		ng/uL		94	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*50 - 150*
Toluene-d8 (Surr)	*115*		*50 - 150*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*
Dibromofluoromethane (Surr)	*103*		*50 - 150*

Lab Sample ID: MRL 240-176026/7
Matrix: Solid
Analysis Batch: 176026

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00500	0.00488		ng/uL		98	70 - 130
1,1,2,2-Tetrachloroethane	0.00500	0.00517		ng/uL		103	70 - 130
1,1,2-Trichloroethane	0.00500	0.00498		ng/uL		100	70 - 130
1,1-Dichloroethane	0.00500	0.00475		ng/uL		95	70 - 130
1,1-Dichloroethene	0.00500	0.00507		ng/uL		101	70 - 130
1,2-Dichloroethane	0.00500	0.00430		ng/uL		86	70 - 130
1,2-Dichloropropane	0.00500	0.00483		ng/uL		97	70 - 130
2-Butanone (MEK)	0.0100	0.0101		ng/uL		101	70 - 130
2-Hexanone	0.0100	0.0102		ng/uL		102	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00970	J	ng/uL		97	70 - 130
Benzene	0.00500	0.00501		ng/uL		100	70 - 130
Bromoform	0.00500	0.00435		ng/uL		87	70 - 130
Bromomethane	0.00500	0.00517		ng/uL		103	70 - 130
Carbon disulfide	0.00500	0.00462		ng/uL		92	70 - 130

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

Lab Sample ID: MRL 240-176026/7
Matrix: Solid
Analysis Batch: 176026

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	0.00500	0.00457		ng/uL		91	70 - 130
Chlorobenzene	0.00500	0.00513		ng/uL		103	70 - 130
Bromodichloromethane	0.00500	0.00450		ng/uL		90	70 - 130
Chloromethane	0.00500	0.00461		ng/uL		92	70 - 130
cis-1,3-Dichloropropene	0.00500	0.00429		ng/uL		86	70 - 130
Dibromochloromethane	0.00500	0.00435		ng/uL		87	70 - 130
Ethylbenzene	0.00500	0.00498		ng/uL		100	70 - 130
Methyl tert-butyl ether	0.00500	0.00463		ng/uL		93	70 - 130
Styrene	0.00500	0.00508		ng/uL		102	70 - 130
Tetrachloroethene	0.00500	0.00491		ng/uL		98	70 - 130
Toluene	0.00500	0.00509		ng/uL		102	70 - 130
Chloroform	0.00500	0.00481		ng/uL		96	70 - 130
Bromochloromethane	0.00500	0.00512		ng/uL		102	70 - 130
trans-1,3-Dichloropropene	0.00500	0.00418		ng/uL		84	70 - 130
Trichloroethene	0.00500	0.00524		ng/uL		105	70 - 130
Vinyl chloride	0.00500	0.00497		ng/uL		99	70 - 130
Chloroethane	0.00500	0.00486		ng/uL		97	70 - 130
Xylenes, Total	0.0100	0.00995		ng/uL		100	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 150*
Toluene-d8 (Surr)	*111*		*50 - 150*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*
Dibromofluoromethane (Surr)	*103*		*50 - 150*

Lab Sample ID: MB 240-176387/33
Matrix: Solid
Analysis Batch: 176387

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	5.0	0.56	ug/Kg			04/14/15 15:28	1
1,1,2,2-Tetrachloroethane	1.0	U	5.0	0.34	ug/Kg			04/14/15 15:28	1
1,1,2-Trichloroethane	1.0	U	5.0	0.39	ug/Kg			04/14/15 15:28	1
1,1-Dichloroethane	1.0	U	5.0	0.36	ug/Kg			04/14/15 15:28	1
1,1-Dichloroethene	1.0	U	5.0	0.52	ug/Kg			04/14/15 15:28	1
1,2-Dichloroethane	1.0	U	5.0	0.34	ug/Kg			04/14/15 15:28	1
1,2-Dichloroethene, Total	2.0	U	10	0.36	ug/Kg			04/14/15 15:28	1
1,2-Dichloropropane	2.0	U	5.0	0.69	ug/Kg			04/14/15 15:28	1
2-Butanone (MEK)	4.0	U	20	1.4	ug/Kg			04/14/15 15:28	1
2-Hexanone	1.0	U	20	0.63	ug/Kg			04/14/15 15:28	1
4-Methyl-2-pentanone (MIBK)	1.0	U	20	0.54	ug/Kg			04/14/15 15:28	1
Acetone	8.91	J	20	6.3	ug/Kg			04/14/15 15:28	1
Benzene	0.50	U	5.0	0.23	ug/Kg			04/14/15 15:28	1
Bromoform	1.0	U	5.0	0.33	ug/Kg			04/14/15 15:28	1
Bromomethane	1.0	U	5.0	0.54	ug/Kg			04/14/15 15:28	1
Carbon disulfide	1.0	U	5.0	0.44	ug/Kg			04/14/15 15:28	1
Carbon tetrachloride	1.0	U	5.0	0.37	ug/Kg			04/14/15 15:28	1
Chlorobenzene	1.0	U	5.0	0.33	ug/Kg			04/14/15 15:28	1

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

Lab Sample ID: MB 240-176387/33
Matrix: Solid
Analysis Batch: 176387

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.50	U	5.0	0.28	ug/Kg			04/14/15 15:28	1
Chloromethane	0.50	U	5.0	0.41	ug/Kg			04/14/15 15:28	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/Kg			04/14/15 15:28	1
Dibromochloromethane	1.0	U	5.0	0.55	ug/Kg			04/14/15 15:28	1
Ethylbenzene	0.50	U	5.0	0.26	ug/Kg			04/14/15 15:28	1
Methyl tert-butyl ether	1.0	U	5.0	0.43	ug/Kg			04/14/15 15:28	1
Methylene Chloride	2.50	J	5.0	0.67	ug/Kg			04/14/15 15:28	1
Styrene	0.50	U	5.0	0.15	ug/Kg			04/14/15 15:28	1
Tetrachloroethene	1.0	U	5.0	0.52	ug/Kg			04/14/15 15:28	1
Toluene	0.50	U	5.0	0.27	ug/Kg			04/14/15 15:28	1
Chloroform	0.50	U	5.0	0.29	ug/Kg			04/14/15 15:28	1
Bromochloromethane	2.0	U	5.0	0.71	ug/Kg			04/14/15 15:28	1
1,2-Dibromoethane	1.0	U	5.0	0.50	ug/Kg			04/14/15 15:28	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.54	ug/Kg			04/14/15 15:28	1
Trichloroethene	1.0	U	5.0	0.42	ug/Kg			04/14/15 15:28	1
Vinyl chloride	1.0	U	5.0	0.39	ug/Kg			04/14/15 15:28	1
Chloroethane	1.0	U	5.0	0.86	ug/Kg			04/14/15 15:28	1
Xylenes, Total	2.0	U	10	0.35	ug/Kg			04/14/15 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 130*		*04/14/15 15:28*	*1*
Toluene-d8 (Surr)	*103*		*85 - 115*		*04/14/15 15:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 120*		*04/14/15 15:28*	*1*
Dibromofluoromethane (Surr)	*95*		*59 - 138*		*04/14/15 15:28*	*1*

Lab Sample ID: LCS 240-176387/5
Matrix: Solid
Analysis Batch: 176387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	58.3		ug/Kg		117	70 - 135
1,1,2,2-Tetrachloroethane	50.0	50.6		ug/Kg		101	55 - 130
1,1,2-Trichloroethane	50.0	51.9		ug/Kg		104	60 - 125
1,1-Dichloroethane	50.0	55.1		ug/Kg		110	75 - 125
1,1-Dichloroethene	50.0	57.2		ug/Kg		114	65 - 135
1,2-Dichloroethane	50.0	54.0		ug/Kg		108	70 - 135
1,2-Dichloropropane	50.0	53.6		ug/Kg		107	70 - 120
2-Butanone (MEK)	100	95.2		ug/Kg		95	30 - 160
2-Hexanone	100	96.5		ug/Kg		96	45 - 145
4-Methyl-2-pentanone (MIBK)	100	106		ug/Kg		106	45 - 145
Acetone	100	107		ug/Kg		107	20 - 160
Benzene	50.0	52.6		ug/Kg		105	75 - 125
Bromoform	50.0	44.9		ug/Kg		90	55 - 135
Bromomethane	50.0	52.2		ug/Kg		104	30 - 160
Carbon disulfide	50.0	58.9		ug/Kg		118	45 - 160
Carbon tetrachloride	50.0	59.3		ug/Kg		119	65 - 135
Chlorobenzene	50.0	51.4		ug/Kg		103	75 - 125
Bromodichloromethane	50.0	54.2		ug/Kg		108	70 - 130

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

Lab Sample ID: LCS 240-176387/5
Matrix: Solid
Analysis Batch: 176387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	56.9		ug/Kg		114	50 - 130
cis-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 125
Dibromochloromethane	50.0	56.1		ug/Kg		112	65 - 130
Ethylbenzene	50.0	52.1		ug/Kg		104	75 - 125
Methyl tert-butyl ether	50.0	53.6		ug/Kg		107	70 - 130
Methylene Chloride	50.0	58.5		ug/Kg		117	55 - 140
Styrene	50.0	55.7		ug/Kg		111	75 - 125
Tetrachloroethene	50.0	52.8		ug/Kg		106	65 - 140
Toluene	50.0	51.0		ug/Kg		102	70 - 125
Chloroform	50.0	54.4		ug/Kg		109	70 - 125
Bromochloromethane	50.0	52.0		ug/Kg		104	70 - 125
trans-1,3-Dichloropropene	50.0	60.5		ug/Kg		121	65 - 125
Trichloroethene	50.0	52.7		ug/Kg		105	75 - 125
Vinyl chloride	50.0	55.0		ug/Kg		110	60 - 125
Chloroethane	50.0	56.6		ug/Kg		113	40 - 155
Xylenes, Total	100	107		ug/Kg		107	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*
Toluene-d8 (Surr)	*102*		*85 - 115*
4-Bromofluorobenzene (Surr)	*101*		*85 - 120*
Dibromofluoromethane (Surr)	*96*		*59 - 138*

Lab Sample ID: MRL 240-176387/30
Matrix: Solid
Analysis Batch: 176387

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00500	0.00614		ng/uL		123	70 - 130
1,1,2,2-Tetrachloroethane	0.00500	0.00551		ng/uL		110	70 - 130
1,1,2-Trichloroethane	0.00500	0.00568		ng/uL		114	70 - 130
1,1-Dichloroethane	0.00500	0.00646		ng/uL		129	70 - 130
1,1-Dichloroethene	0.00500	0.00573		ng/uL		115	70 - 130
1,2-Dichloroethane	0.00500	0.00676	^	ng/uL		135	70 - 130
1,2-Dichloropropane	0.00500	0.00584		ng/uL		117	70 - 130
2-Butanone (MEK)	0.0100	0.0125		ng/uL		125	70 - 130
2-Hexanone	0.0100	0.0114		ng/uL		114	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.0132	^	ng/uL		132	70 - 130
Acetone	0.0100	0.0248	^	ng/uL		248	70 - 130
Benzene	0.00500	0.00601		ng/uL		120	70 - 130
Bromoform	0.00500	0.00532		ng/uL		106	70 - 130
Bromomethane	0.00500	0.00634		ng/uL		127	70 - 130
Carbon disulfide	0.00500	0.00465		ng/uL		93	70 - 130
Carbon tetrachloride	0.00500	0.00575		ng/uL		115	70 - 130
Chlorobenzene	0.00500	0.00557		ng/uL		111	70 - 130
Bromodichloromethane	0.00500	0.00496		ng/uL		99	70 - 130
Chloromethane	0.00500	0.00580		ng/uL		116	70 - 130
cis-1,3-Dichloropropene	0.00500	0.00459		ng/uL		92	70 - 130

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

Lab Sample ID: MRL 240-176387/30
Matrix: Solid
Analysis Batch: 176387

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	0.00500	0.00463		ng/uL		93	70 - 130
Ethylbenzene	0.00500	0.00583		ng/uL		117	70 - 130
Methyl tert-butyl ether	0.00500	0.00590		ng/uL		118	70 - 130
Methylene Chloride	0.00500	0.00857	^	ng/uL		171	70 - 130
Styrene	0.00500	0.00523		ng/uL		105	70 - 130
Tetrachloroethene	0.00500	0.00555		ng/uL		111	70 - 130
Toluene	0.00500	0.00613		ng/uL		123	70 - 130
Chloroform	0.00500	0.00653	^	ng/uL		131	70 - 130
Bromochloromethane	0.00500	0.00561		ng/uL		112	70 - 130
trans-1,3-Dichloropropene	0.00500	0.00503		ng/uL		101	70 - 130
Trichloroethene	0.00500	0.00540		ng/uL		108	70 - 130
Vinyl chloride	0.00500	0.00570		ng/uL		114	70 - 130
Chloroethane	0.00500	0.00666	^	ng/uL		133	70 - 130
Xylenes, Total	0.0100	0.0110		ng/uL		110	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*50 - 150*
Toluene-d8 (Surr)	*107*		*50 - 150*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*
Dibromofluoromethane (Surr)	*98*		*50 - 150*

Lab Sample ID: MRL 240-176387/6
Matrix: Solid
Analysis Batch: 176387

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00500	0.00642		ng/uL		128	70 - 130
1,1,2,2-Tetrachloroethane	0.00500	0.00555		ng/uL		111	70 - 130
1,1,2-Trichloroethane	0.00500	0.00526		ng/uL		105	70 - 130
1,1-Dichloroethane	0.00500	0.00609		ng/uL		122	70 - 130
1,1-Dichloroethene	0.00500	0.00658	^	ng/uL		132	70 - 130
1,2-Dichloroethane	0.00500	0.00630		ng/uL		126	70 - 130
1,2-Dichloropropane	0.00500	0.00627		ng/uL		125	70 - 130
2-Butanone (MEK)	0.0100	0.0109		ng/uL		109	70 - 130
2-Hexanone	0.0100	0.0111		ng/uL		111	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.0110		ng/uL		110	70 - 130
Acetone	0.0100	0.0174	^	ng/uL		174	70 - 130
Benzene	0.00500	0.00612		ng/uL		122	70 - 130
Bromoform	0.00500	0.00512		ng/uL		102	70 - 130
Bromomethane	0.00500	0.00638		ng/uL		128	70 - 130
Carbon disulfide	0.00500	0.00563		ng/uL		113	70 - 130
Carbon tetrachloride	0.00500	0.00638		ng/uL		128	70 - 130
Chlorobenzene	0.00500	0.00635		ng/uL		127	70 - 130
Bromodichloromethane	0.00500	0.00515		ng/uL		103	70 - 130
Chloromethane	0.00500	0.00659	^	ng/uL		132	70 - 130
cis-1,3-Dichloropropene	0.00500	0.00484		ng/uL		97	70 - 130
Dibromochloromethane	0.00500	0.00496		ng/uL		99	70 - 130
Ethylbenzene	0.00500	0.00576		ng/uL		115	70 - 130

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

Lab Sample ID: MRL 240-176387/6
Matrix: Solid
Analysis Batch: 176387

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.00500	0.00575		ng/uL		115	70 - 130
Methylene Chloride	0.00500	0.00803	^	ng/uL		161	70 - 130
Styrene	0.00500	0.00542		ng/uL		108	70 - 130
Tetrachloroethene	0.00500	0.00550		ng/uL		110	70 - 130
Toluene	0.00500	0.00583		ng/uL		117	70 - 130
Chloroform	0.00500	0.00618		ng/uL		124	70 - 130
Bromochloromethane	0.00500	0.00580		ng/uL		116	70 - 130
trans-1,3-Dichloropropene	0.00500	0.00529		ng/uL		106	70 - 130
Trichloroethene	0.00500	0.00579		ng/uL		116	70 - 130
Vinyl chloride	0.00500	0.00636		ng/uL		127	70 - 130
Chloroethane	0.00500	0.00772	^	ng/uL		154	70 - 130
Xylenes, Total	0.0100	0.0116		ng/uL		116	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*50 - 150*
Toluene-d8 (Surr)	*108*		*50 - 150*
4-Bromofluorobenzene (Surr)	*100*		*50 - 150*
Dibromofluoromethane (Surr)	*101*		*50 - 150*

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

Lab Sample ID: MB 240-176319/23-A
Matrix: Solid
Analysis Batch: 177355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176319

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	U	6.7	0.76	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Acenaphthylene	1.7	U	6.7	0.35	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Anthracene	3.3	U	6.7	0.78	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzo[a]anthracene	3.3	U	6.7	0.63	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzo[a]pyrene	3.3	U	6.7	0.64	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzo[b]fluoranthene	3.3	U	6.7	0.59	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzo[g,h,i]perylene	1.7	U	6.7	0.35	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzoic acid	130	U	660	36	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzo[k]fluoranthene	3.3	U	6.7	0.68	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Benzyl alcohol	67	U	330	21	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Bis(2-chloroethoxy)methane	67	U	100	22	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Bis(2-chloroethyl)ether	3.3	U	100	2.0	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
bis (2-chloroisopropyl) ether	33	U	100	9.5	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Bis(2-ethylhexyl) phthalate	33	U	70	19	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4-Bromophenyl phenyl ether	33	U	50	13	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Butyl benzyl phthalate	12.3	J	70	10	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Carbazole	33	U	50	27	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4-Chloroaniline	67	U	150	17	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4-Chloro-3-methylphenol	67	U	150	21	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2-Chloronaphthalene	1.7	U	50	0.45	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2-Chlorophenol	33	U	50	8.2	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4-Chlorophenyl phenyl ether	33	U	50	13	ug/Kg		04/14/15 08:47	04/22/15 09:19	1

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

Lab Sample ID: MB 240-176319/23-A
Matrix: Solid
Analysis Batch: 177355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176319

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	3.3	U	6.7	1.1	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Dibenz(a,h)anthracene	3.3	U	6.7	0.66	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Dibenzofuran	3.3	U	50	0.66	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
1,2-Dichlorobenzene	33	U	50	9.7	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
1,3-Dichlorobenzene	33	U	50	11	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
1,4-Dichlorobenzene	33	U	50	20	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
3,3'-Dichlorobenzidine	67	U	100	18	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,4-Dichlorophenol	67	U	150	20	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Diethyl phthalate	33	U	70	16	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,4-Dimethylphenol	67	U	150	20	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Dimethyl phthalate	33	U	70	17	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Di-n-butyl phthalate	33	U	70	15	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4,6-Dinitro-2-methylphenol	33	U	150	9.2	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,4-Dinitrophenol	67	U	330	21	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,4-Dinitrotoluene	67	U	200	17	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,6-Dinitrotoluene	67	U	200	21	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Di-n-octyl phthalate	33	U	70	7.9	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Fluoranthene	3.3	U	6.7	0.55	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Fluorene	3.3	U	6.7	0.53	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Hexachlorobenzene	3.3	U	6.7	2.1	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Hexachlorobutadiene	33	U	50	5.6	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Hexachlorocyclopentadiene	33	U	330	8.1	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Hexachloroethane	33	U	50	9.0	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Indeno[1,2,3-cd]pyrene	1.7	U	6.7	0.35	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Isophorone	33	U	50	13	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2-Methylnaphthalene	3.3	U	6.7	0.50	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2-Methylphenol	67	U	200	11	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
3 & 4 Methylphenol	67	U	400	20	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Naphthalene	3.3	U	6.7	0.82	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2-Nitroaniline	33	U	200	9.1	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
3-Nitroaniline	67	U	200	16	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4-Nitroaniline	67	U	200	26	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Nitrobenzene	3.3	U	100	2.2	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2-Nitrophenol	33	U	50	8.3	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
4-Nitrophenol	67	U	330	17	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
N-Nitrosodi-n-propylamine	33	U	50	6.3	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
N-Nitrosodiphenylamine	33	U	50	21	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Pentachlorophenol	33	U	150	9.1	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Phenanthrene	3.3	U	6.7	0.73	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Phenol	33	U	50	7.3	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
Pyrene	1.7	U	6.7	0.44	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
1,2,4-Trichlorobenzene	17	U	50	3.5	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,4,5-Trichlorophenol	67	U	150	25	ug/Kg		04/14/15 08:47	04/22/15 09:19	1
2,4,6-Trichlorophenol	33	U	150	8.9	ug/Kg		04/14/15 08:47	04/22/15 09:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*45 - 105*	*04/14/15 08:47*	*04/22/15 09:19*	*1*
2-Fluorophenol (Surr)	*67*		*35 - 105*	*04/14/15 08:47*	*04/22/15 09:19*	*1*

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

Lab Sample ID: MB 240-176319/23-A
Matrix: Solid
Analysis Batch: 177355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176319

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	68		35 - 100	04/14/15 08:47	04/22/15 09:19	1
Phenol-d5 (Surr)	76		40 - 100	04/14/15 08:47	04/22/15 09:19	1
Terphenyl-d14 (Surr)	75		30 - 125	04/14/15 08:47	04/22/15 09:19	1
2,4,6-Tribromophenol (Surr)	36		35 - 125	04/14/15 08:47	04/22/15 09:19	1

Lab Sample ID: LCS 240-176319/24-A
Matrix: Solid
Analysis Batch: 177355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	540		ug/Kg		81	45 - 110
Acenaphthylene	667	526		ug/Kg		79	45 - 105
Anthracene	667	584		ug/Kg		88	55 - 105
Benzo[a]anthracene	667	580		ug/Kg		87	50 - 110
Benzo[a]pyrene	667	592		ug/Kg		89	50 - 110
Benzo[b]fluoranthene	667	588		ug/Kg		88	45 - 115
Benzo[g,h,i]perylene	667	586		ug/Kg		88	40 - 125
Benzoic acid	1330	172	J	ug/Kg		13	0 - 110
Benzo[k]fluoranthene	667	600		ug/Kg		90	45 - 125
Benzyl alcohol	667	518		ug/Kg		78	20 - 125
Bis(2-chloroethoxy)methane	667	562		ug/Kg		84	45 - 110
Bis(2-chloroethyl)ether	667	525		ug/Kg		79	40 - 105
bis (2-chloroisopropyl) ether	667	612		ug/Kg		92	20 - 115
Bis(2-ethylhexyl) phthalate	667	610		ug/Kg		92	45 - 125
4-Bromophenyl phenyl ether	667	613		ug/Kg		92	45 - 115
Butyl benzyl phthalate	667	577		ug/Kg		86	50 - 125
Carbazole	667	625		ug/Kg		94	45 - 115
4-Chloroaniline	667	439		ug/Kg		66	10 - 110
4-Chloro-3-methylphenol	667	566		ug/Kg		85	45 - 115
2-Chloronaphthalene	667	526		ug/Kg		79	45 - 105
2-Chlorophenol	667	529		ug/Kg		79	45 - 105
4-Chlorophenyl phenyl ether	667	548		ug/Kg		82	45 - 110
Chrysene	667	613		ug/Kg		92	55 - 110
Dibenz(a,h)anthracene	667	587		ug/Kg		88	40 - 125
Dibenzofuran	667	550		ug/Kg		82	50 - 105
1,2-Dichlorobenzene	667	503		ug/Kg		75	45 - 110
1,3-Dichlorobenzene	667	492		ug/Kg		74	40 - 100
1,4-Dichlorobenzene	667	477		ug/Kg		72	35 - 105
3,3'-Dichlorobenzidine	1330	976		ug/Kg		73	10 - 130
2,4-Dichlorophenol	667	537		ug/Kg		81	45 - 110
Diethyl phthalate	667	550		ug/Kg		82	50 - 115
2,4-Dimethylphenol	667	375		ug/Kg		56	30 - 105
Dimethyl phthalate	667	574		ug/Kg		86	50 - 110
Di-n-butyl phthalate	667	650		ug/Kg		98	55 - 110
4,6-Dinitro-2-methylphenol	1330	798		ug/Kg		60	30 - 135
2,4-Dinitrophenol	1330	472		ug/Kg		35	15 - 130
2,4-Dinitrotoluene	667	572		ug/Kg		86	50 - 115
2,6-Dinitrotoluene	667	563		ug/Kg		85	50 - 110

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

Lab Sample ID: LCS 240-176319/24-A
Matrix: Solid
Analysis Batch: 177355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	667	588		ug/Kg		88	40 - 130
Fluoranthene	667	633		ug/Kg		95	55 - 115
Fluorene	667	539		ug/Kg		81	50 - 110
Hexachlorobenzene	667	567		ug/Kg		85	45 - 120
Hexachlorobutadiene	667	465		ug/Kg		70	40 - 115
Hexachlorocyclopentadiene	667	296	J	ug/Kg		44	12 - 110
Hexachloroethane	667	483		ug/Kg		72	35 - 110
Indeno[1,2,3-cd]pyrene	667	602		ug/Kg		90	40 - 120
Isophorone	667	526		ug/Kg		79	45 - 110
2-Methylnaphthalene	667	500		ug/Kg		75	45 - 105
2-Methylphenol	667	531		ug/Kg		80	40 - 105
3 & 4 Methylphenol	667	549		ug/Kg		82	40 - 105
Naphthalene	667	514		ug/Kg		77	40 - 105
2-Nitroaniline	667	587		ug/Kg		88	45 - 120
3-Nitroaniline	667	572		ug/Kg		86	25 - 110
4-Nitroaniline	667	575		ug/Kg		86	35 - 115
Nitrobenzene	667	515		ug/Kg		77	40 - 115
2-Nitrophenol	667	497		ug/Kg		75	40 - 110
4-Nitrophenol	1330	1040		ug/Kg		78	15 - 140
N-Nitrosodi-n-propylamine	667	539		ug/Kg		81	40 - 115
N-Nitrosodiphenylamine	1330	1230		ug/Kg		92	50 - 115
Pentachlorophenol	1330	770		ug/Kg		58	25 - 120
Phenanthrene	667	568		ug/Kg		85	50 - 110
Phenol	667	551		ug/Kg		83	40 - 100
Pyrene	667	592		ug/Kg		89	45 - 125
1,2,4-Trichlorobenzene	667	497		ug/Kg		74	45 - 110
2,4,5-Trichlorophenol	667	497		ug/Kg		74	50 - 110
2,4,6-Trichlorophenol	667	442		ug/Kg		66	45 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*45 - 105*
2-Fluorophenol (Surr)	*81*		*35 - 105*
Nitrobenzene-d5 (Surr)	*74*		*35 - 100*
Phenol-d5 (Surr)	*81*		*40 - 100*
Terphenyl-d14 (Surr)	*83*		*30 - 125*
2,4,6-Tribromophenol (Surr)	*63*		*35 - 125*

Lab Sample ID: MRL 240-177355/18
Matrix: Solid
Analysis Batch: 177355

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	5.00	5.11		ng/uL		102	70 - 130
Acenaphthylene	5.00	5.13		ng/uL		103	70 - 130
Anthracene	5.00	5.06		ng/uL		101	70 - 130
Benzo[a]anthracene	5.00	4.78		ng/uL		96	70 - 130
Benzo[a]pyrene	5.00	4.88		ng/uL		98	70 - 130
Benzo[b]fluoranthene	5.00	4.96		ng/uL		99	70 - 130

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

Lab Sample ID: MRL 240-177355/18
Matrix: Solid
Analysis Batch: 177355

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	5.00	4.78		ng/uL		96	70 - 130
Benzoic acid	10.0	7.20	M	ng/uL		72	70 - 130
Benzo[k]fluoranthene	5.00	4.71		ng/uL		94	70 - 130
Benzyl alcohol	5.00	4.60		ng/uL		92	70 - 130
Bis(2-chloroethoxy)methane	5.00	5.34		ng/uL		107	70 - 130
Bis(2-chloroethyl)ether	5.00	4.94		ng/uL		99	70 - 130
bis (2-chloroisopropyl) ether	5.00	5.57		ng/uL		111	70 - 130
Bis(2-ethylhexyl) phthalate	5.00	4.97		ng/uL		99	70 - 130
4-Bromophenyl phenyl ether	5.00	4.99		ng/uL		100	70 - 130
Butyl benzyl phthalate	5.00	4.81		ng/uL		96	70 - 130
Carbazole	5.00	4.87		ng/uL		97	70 - 130
4-Chloroaniline	5.00	5.14		ng/uL		103	70 - 130
4-Chloro-3-methylphenol	5.00	4.83		ng/uL		97	70 - 130
2-Chloronaphthalene	5.00	4.99		ng/uL		100	70 - 130
2-Chlorophenol	5.00	4.92		ng/uL		98	70 - 130
4-Chlorophenyl phenyl ether	5.00	5.04		ng/uL		101	70 - 130
Chrysene	5.00	5.07		ng/uL		101	70 - 130
Dibenz(a,h)anthracene	5.00	4.81		ng/uL		96	70 - 130
Dibenzofuran	5.00	5.14		ng/uL		103	70 - 130
1,2-Dichlorobenzene	5.00	5.01		ng/uL		100	70 - 130
1,3-Dichlorobenzene	5.00	4.88		ng/uL		98	70 - 130
1,4-Dichlorobenzene	5.00	4.98		ng/uL		100	70 - 130
3,3'-Dichlorobenzidine	10.0	9.70		ng/uL		97	70 - 130
2,4-Dichlorophenol	5.00	4.95		ng/uL		99	70 - 130
Diethyl phthalate	5.00	5.30		ng/uL		106	70 - 130
2,4-Dimethylphenol	5.00	4.93		ng/uL		99	70 - 130
Dimethyl phthalate	5.00	5.18		ng/uL		104	70 - 130
Di-n-butyl phthalate	5.00	4.81		ng/uL		96	70 - 130
4,6-Dinitro-2-methylphenol	10.0	4.67	^	ng/uL		47	70 - 130
2,4-Dinitrophenol	10.0	3.89	^	ng/uL		39	70 - 130
2,4-Dinitrotoluene	5.00	5.09		ng/uL		102	70 - 130
2,6-Dinitrotoluene	5.00	4.95		ng/uL		99	70 - 130
Di-n-octyl phthalate	5.00	4.81		ng/uL		96	70 - 130
Fluoranthene	5.00	4.76		ng/uL		95	70 - 130
Fluorene	5.00	5.18		ng/uL		104	70 - 130
Hexachlorobenzene	5.00	4.64		ng/uL		93	70 - 130
Hexachlorobutadiene	5.00	4.73		ng/uL		95	70 - 130
Hexachlorocyclopentadiene	5.00	3.15	^	ng/uL		63	70 - 130
Hexachloroethane	5.00	5.10		ng/uL		102	70 - 130
Indeno[1,2,3-cd]pyrene	5.00	4.82		ng/uL		96	70 - 130
Isophorone	5.00	5.00		ng/uL		100	70 - 130
2-Methylnaphthalene	5.00	4.81		ng/uL		96	70 - 130
2-Methylphenol	5.00	5.22		ng/uL		104	70 - 130
3 & 4 Methylphenol	5.00	5.13		ng/uL		103	70 - 130
Naphthalene	5.00	4.81		ng/uL		96	70 - 130
2-Nitroaniline	5.00	5.25		ng/uL		105	70 - 130
3-Nitroaniline	5.00	5.78		ng/uL		116	70 - 130
4-Nitroaniline	5.00	5.23		ng/uL		105	70 - 130

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

Lab Sample ID: MRL 240-177355/18
Matrix: Solid
Analysis Batch: 177355

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	5.00	4.91		ng/uL		98	70 - 130
2-Nitrophenol	5.00	4.71		ng/uL		94	70 - 130
4-Nitrophenol	10.0	9.26		ng/uL		93	70 - 130
N-Nitrosodi-n-propylamine	5.00	5.17		ng/uL		103	70 - 130
N-Nitrosodiphenylamine	10.0	10.2		ng/uL		102	70 - 130
Pentachlorophenol	10.0	6.27	^	ng/uL		63	70 - 130
Phenanthrene	5.00	4.95		ng/uL		99	70 - 130
Phenol	5.00	5.15		ng/uL		103	70 - 130
Pyrene	5.00	4.82		ng/uL		96	70 - 130
1,2,4-Trichlorobenzene	5.00	4.81		ng/uL		96	70 - 130
2,4,5-Trichlorophenol	5.00	5.09		ng/uL		102	70 - 130
2,4,6-Trichlorophenol	5.00	5.01		ng/uL		100	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*99*		*50 - 150*
2-Fluorophenol (Surr)	*104*		*50 - 150*
Nitrobenzene-d5 (Surr)	*95*		*50 - 150*
Phenol-d5 (Surr)	*101*		*50 - 150*
Terphenyl-d14 (Surr)	*95*		*50 - 150*
2,4,6-Tribromophenol (Surr)	*106*		*50 - 150*

Lab Sample ID: MRL 240-177355/3
Matrix: Solid
Analysis Batch: 177355

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	5.00	4.98		ng/uL		100	70 - 130
Acenaphthylene	5.00	5.15		ng/uL		103	70 - 130
Anthracene	5.00	4.89		ng/uL		98	70 - 130
Benzo[a]anthracene	5.00	4.77		ng/uL		95	70 - 130
Benzo[a]pyrene	5.00	4.86		ng/uL		97	70 - 130
Benzo[b]fluoranthene	5.00	4.86		ng/uL		97	70 - 130
Benzo[g,h,i]perylene	5.00	4.98		ng/uL		100	70 - 130
Benzoic acid	10.0	9.19	M	ng/uL		92	70 - 130
Benzo[k]fluoranthene	5.00	4.88		ng/uL		98	70 - 130
Benzyl alcohol	5.00	4.79		ng/uL		96	70 - 130
Bis(2-chloroethoxy)methane	5.00	5.15		ng/uL		103	70 - 130
Bis(2-chloroethyl)ether	5.00	5.13		ng/uL		103	70 - 130
bis (2-chloroisopropyl) ether	5.00	5.31		ng/uL		106	70 - 130
Bis(2-ethylhexyl) phthalate	5.00	5.03		ng/uL		101	70 - 130
4-Bromophenyl phenyl ether	5.00	5.11		ng/uL		102	70 - 130
Butyl benzyl phthalate	5.00	4.88		ng/uL		98	70 - 130
Carbazole	5.00	4.78		ng/uL		96	70 - 130
4-Chloroaniline	5.00	4.97		ng/uL		99	70 - 130
4-Chloro-3-methylphenol	5.00	4.99		ng/uL		100	70 - 130
2-Chloronaphthalene	5.00	4.96		ng/uL		99	70 - 130
2-Chlorophenol	5.00	4.86		ng/uL		97	70 - 130
4-Chlorophenyl phenyl ether	5.00	4.94		ng/uL		99	70 - 130

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

Lab Sample ID: MRL 240-177355/3
Matrix: Solid
Analysis Batch: 177355

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	5.00	4.97		ng/uL		99	70 - 130
Dibenz(a,h)anthracene	5.00	4.94		ng/uL		99	70 - 130
Dibenzofuran	5.00	5.05		ng/uL		101	70 - 130
1,2-Dichlorobenzene	5.00	4.99		ng/uL		100	70 - 130
1,3-Dichlorobenzene	5.00	4.96		ng/uL		99	70 - 130
1,4-Dichlorobenzene	5.00	5.09		ng/uL		102	70 - 130
3,3'-Dichlorobenzidine	10.0	9.89		ng/uL		99	70 - 130
2,4-Dichlorophenol	5.00	4.77		ng/uL		95	70 - 130
Diethyl phthalate	5.00	5.07		ng/uL		101	70 - 130
2,4-Dimethylphenol	5.00	4.99		ng/uL		100	70 - 130
Dimethyl phthalate	5.00	5.02		ng/uL		100	70 - 130
Di-n-butyl phthalate	5.00	4.93		ng/uL		99	70 - 130
4,6-Dinitro-2-methylphenol	10.0	8.81		ng/uL		88	70 - 130
2,4-Dinitrophenol	10.0	8.42		ng/uL		84	70 - 130
2,4-Dinitrotoluene	5.00	4.95		ng/uL		99	70 - 130
2,6-Dinitrotoluene	5.00	5.04		ng/uL		101	70 - 130
Di-n-octyl phthalate	5.00	4.79		ng/uL		96	70 - 130
Fluoranthene	5.00	4.86		ng/uL		97	70 - 130
Fluorene	5.00	5.12		ng/uL		102	70 - 130
Hexachlorobenzene	5.00	4.79		ng/uL		96	70 - 130
Hexachlorobutadiene	5.00	4.57		ng/uL		91	70 - 130
Hexachlorocyclopentadiene	5.00	4.42		ng/uL		88	70 - 130
Hexachloroethane	5.00	5.00		ng/uL		100	70 - 130
Indeno[1,2,3-cd]pyrene	5.00	4.98		ng/uL		100	70 - 130
Isophorone	5.00	4.90		ng/uL		98	70 - 130
2-Methylnaphthalene	5.00	4.69		ng/uL		94	70 - 130
2-Methylphenol	5.00	5.26		ng/uL		105	70 - 130
3 & 4 Methylphenol	5.00	5.08		ng/uL		102	70 - 130
Naphthalene	5.00	4.83		ng/uL		97	70 - 130
2-Nitroaniline	5.00	5.27		ng/uL		105	70 - 130
3-Nitroaniline	5.00	5.51		ng/uL		110	70 - 130
4-Nitroaniline	5.00	5.03		ng/uL		101	70 - 130
Nitrobenzene	5.00	4.76		ng/uL		95	70 - 130
2-Nitrophenol	5.00	4.75		ng/uL		95	70 - 130
4-Nitrophenol	10.0	9.44		ng/uL		94	70 - 130
N-Nitrosodi-n-propylamine	5.00	5.03		ng/uL		101	70 - 130
N-Nitrosodiphenylamine	10.0	10.6		ng/uL		106	70 - 130
Pentachlorophenol	10.0	8.73		ng/uL		87	70 - 130
Phenanthrene	5.00	4.90		ng/uL		98	70 - 130
Phenol	5.00	5.20		ng/uL		104	70 - 130
Pyrene	5.00	4.76		ng/uL		95	70 - 130
1,2,4-Trichlorobenzene	5.00	4.85		ng/uL		97	70 - 130
2,4,5-Trichlorophenol	5.00	5.11		ng/uL		102	70 - 130
2,4,6-Trichlorophenol	5.00	4.92		ng/uL		98	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*99*		*50 - 150*
2-Fluorophenol (Surr)	*106*		*50 - 150*

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

Lab Sample ID: MRL 240-177355/3
Matrix: Solid
Analysis Batch: 177355

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

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Nitrobenzene-d5 (Surr)	*93*		*50 - 150*
Phenol-d5 (Surr)	*100*		*50 - 150*
Terphenyl-d14 (Surr)	*95*		*50 - 150*
2,4,6-Tribromophenol (Surr)	*103*		*50 - 150*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-177037/7-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177037

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.42	U	2.0	0.20	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
4,4'-DDE	0.42	U	1.7	0.27	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
4,4'-DDT	0.83	U	2.0	0.31	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Aldrin	0.83	U	4.0	0.20	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
alpha-BHC	1.7	U	2.5	0.60	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
alpha-Chlordane	0.83	U	3.0	0.25	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
beta-BHC	0.83	U	3.5	0.36	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
delta-BHC	0.83	U	4.0	0.22	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Dieldrin	0.42	U	1.7	0.16	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Endosulfan I	0.83	U	1.7	0.25	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Endosulfan II	0.83	U	2.5	0.38	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Endosulfan sulfate	0.83	U	3.0	0.34	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Endrin	0.83	U	1.7	0.21	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Endrin aldehyde	0.83	U	3.0	0.32	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Endrin ketone	1.7	U	2.0	0.42	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
gamma-BHC (Lindane)	1.7	U	2.5	0.46	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
gamma-Chlordane	1.7	U	1.7	0.86	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Heptachlor	1.7	U	3.5	0.70	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Heptachlor epoxide	1.7	U	2.5	0.40	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Methoxychlor	1.7	U	5.0	0.54	ug/Kg		04/20/15 09:00	04/22/15 03:02	1
Toxaphene	17	U	67	9.8	ug/Kg		04/20/15 09:00	04/22/15 03:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*105*		*55 - 130*	*04/20/15 09:00*	*04/22/15 03:02*	*1*
DCB Decachlorobiphenyl	*103*		*55 - 130*	*04/20/15 09:00*	*04/22/15 03:02*	*1*
Tetrachloro-m-xylene	*100*		*70 - 125*	*04/20/15 09:00*	*04/22/15 03:02*	*1*
Tetrachloro-m-xylene	*98*		*70 - 125*	*04/20/15 09:00*	*04/22/15 03:02*	*1*

Lab Sample ID: LCS 240-177037/8-A
Matrix: Solid
Analysis Batch: 177463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	33.3	32.6		ug/Kg		98	30 - 135
4,4'-DDE	33.3	25.9		ug/Kg		78	70 - 125

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

Lab Sample ID: LCS 240-177037/8-A
Matrix: Solid
Analysis Batch: 177463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	33.3	30.8		ug/Kg		92	45 - 140
Aldrin	33.3	23.1		ug/Kg		69	45 - 140
alpha-BHC	33.3	28.8		ug/Kg		86	60 - 125
alpha-Chlordane	33.3	27.7		ug/Kg		83	65 - 120
beta-BHC	33.3	26.6		ug/Kg		80	60 - 125
delta-BHC	33.3	28.4		ug/Kg		85	55 - 130
Dieldrin	33.3	29.1		ug/Kg		87	65 - 125
Endosulfan I	33.3	16.8		ug/Kg		50	15 - 135
Endosulfan II	33.3	22.8		ug/Kg		68	35 - 140
Endosulfan sulfate	33.3	28.4		ug/Kg		85	60 - 135
Endrin	33.3	30.1		ug/Kg		90	60 - 135
Endrin aldehyde	33.3	27.8		ug/Kg		83	35 - 145
Endrin ketone	33.3	27.0		ug/Kg		81	65 - 135
gamma-BHC (Lindane)	33.3	29.1		ug/Kg		87	60 - 125
gamma-Chlordane	33.3	28.2		ug/Kg		85	65 - 125
Heptachlor	33.3	31.5		ug/Kg		94	50 - 140
Heptachlor epoxide	33.3	28.7		ug/Kg		86	65 - 130
Methoxychlor	33.3	30.7		ug/Kg		92	55 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*55 - 130*
DCB Decachlorobiphenyl	*89*		*55 - 130*
Tetrachloro-m-xylene	*90*		*70 - 125*
Tetrachloro-m-xylene	*84*		*70 - 125*

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 177037

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.44	U Q J	34.6	34.2		ug/Kg	☼	99	30 - 135
4,4'-DDE	0.44	U Q J	34.6	32.0		ug/Kg	☼	92	70 - 125
4,4'-DDT	0.86	U Q J	34.6	31.9		ug/Kg	☼	92	45 - 140
Aldrin	0.86	U J	34.6	25.8		ug/Kg	☼	75	45 - 140
alpha-BHC	1.8	U Q J	34.6	32.6		ug/Kg	☼	94	60 - 125
alpha-Chlordane	0.86	U J	34.6	23.3		ug/Kg	☼	67	65 - 120
beta-BHC	2.4	J J	34.6	30.8		ug/Kg	☼	82	60 - 125
delta-BHC	0.86	U J	34.6	30.8		ug/Kg	☼	89	55 - 130
Dieldrin	0.44	U Q J	34.6	31.8		ug/Kg	☼	92	65 - 125
Endosulfan I	0.86	U J	34.6	18.9		ug/Kg	☼	54	15 - 135
Endosulfan II	0.86	U Q J	34.6	25.3		ug/Kg	☼	73	35 - 140
Endosulfan sulfate	0.86	U Q J	34.6	31.1		ug/Kg	☼	90	60 - 135
Endrin	0.86	U Q J	34.6	36.3		ug/Kg	☼	105	60 - 135
Endrin aldehyde	0.86	U J	34.6	30.1		ug/Kg	☼	87	35 - 145
Endrin ketone	1.8	U J	34.6	30.7		ug/Kg	☼	89	65 - 135
gamma-BHC (Lindane)	1.8	U Q J	34.6	31.8		ug/Kg	☼	92	60 - 125
gamma-Chlordane	1.8	U J	34.6	35.0		ug/Kg	☼	101	65 - 125
Heptachlor	1.8	U Q J	34.6	33.0		ug/Kg	☼	95	50 - 140

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

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 177037

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	1.8	U Q J	34.6	31.6		ug/Kg	☼	91	65 - 130
Methoxychlor	1.8	U Q J	34.6	33.8		ug/Kg	☼	98	55 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*55 - 130*
DCB Decachlorobiphenyl	*94*		*55 - 130*
Tetrachloro-m-xylene	*108*		*70 - 125*
Tetrachloro-m-xylene	*109*		*70 - 125*

Lab Sample ID: 240-49071-2 MSD
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 177037

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.44	U Q J	34.6	13.7	Q J	ug/Kg	☼	40	30 - 135	86	30
4,4'-DDE	0.44	U Q J	34.6	12.5	Q J	ug/Kg	☼	36	70 - 125	87	30
4,4'-DDT	0.86	U Q J	34.6	12.3	Q J	ug/Kg	☼	35	45 - 140	89	30
Aldrin	0.86	U J	34.6	9.96	Q J	ug/Kg	☼	29	45 - 140	89	30
alpha-BHC	1.8	U Q J	34.6	13.0	Q J	ug/Kg	☼	38	60 - 125	86	30
alpha-Chlordane	0.86	U J	34.6	11.3	Q J	ug/Kg	☼	33	65 - 120	69	30
beta-BHC	2.4	J J	34.6	12.8	Q J	ug/Kg	☼	30	60 - 125	83	30
delta-BHC	0.86	U J	34.6	11.9	Q J	ug/Kg	☼	35	55 - 130	88	30
Dieldrin	0.44	U Q J	34.6	12.4	Q J	ug/Kg	☼	36	65 - 125	88	30
Endosulfan I	0.86	U J	34.6	7.33	Q J	ug/Kg	☼	21	15 - 135	88	30
Endosulfan II	0.86	U Q J	34.6	9.58	Q J	ug/Kg	☼	28	35 - 140	90	30
Endosulfan sulfate	0.86	U Q J	34.6	11.5	Q J	ug/Kg	☼	33	60 - 135	92	30
Endrin	0.86	U Q J	34.6	14.1	Q J	ug/Kg	☼	41	60 - 135	88	30
Endrin aldehyde	0.86	U J	34.6	10.9	Q J	ug/Kg	☼	32	35 - 145	93	30
Endrin ketone	1.8	U J	34.6	11.6	Q J	ug/Kg	☼	34	65 - 135	90	30
gamma-BHC (Lindane)	1.8	U Q J	34.6	12.5	Q J	ug/Kg	☼	36	60 - 125	87	30
gamma-Chlordane	1.8	U J	34.6	13.2	Q J	ug/Kg	☼	38	65 - 125	90	30
Heptachlor	1.8	U Q J	34.6	13.5	Q J	ug/Kg	☼	39	50 - 140	84	30
Heptachlor epoxide	1.8	U Q J	34.6	12.6	Q J	ug/Kg	☼	36	65 - 130	86	30
Methoxychlor	1.8	U Q J	34.6	12.7	Q J	ug/Kg	☼	37	55 - 145	91	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*44*	*Q*	*55 - 130*
DCB Decachlorobiphenyl	*42*	*Q*	*55 - 130*
Tetrachloro-m-xylene	*39*	*Q*	*70 - 125*
Tetrachloro-m-xylene	*76*		*70 - 125*

Lab Sample ID: MRL 240-177258/31
Matrix: Solid
Analysis Batch: 177258

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	5.36		ug/L		107	70 - 130
4,4'-DDD	5.00	5.27		ug/L		105	70 - 130

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

Lab Sample ID: MRL 240-177258/31
Matrix: Solid
Analysis Batch: 177258

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDE	5.00	5.45		ug/L		109	70 - 130
4,4'-DDE	5.00	5.62		ug/L		112	70 - 130
4,4'-DDT	5.00	4.88		ug/L		98	70 - 130
4,4'-DDT	5.00	4.99		ug/L		100	70 - 130
Aldrin	5.00	5.49		ug/L		110	70 - 130
Aldrin	5.00	5.59		ug/L		112	70 - 130
alpha-BHC	5.00	5.33		ug/L		107	70 - 130
alpha-BHC	5.00	5.41		ug/L		108	70 - 130
alpha-Chlordane	5.00	5.66		ug/L		113	70 - 130
alpha-Chlordane	5.00	5.78		ug/L		116	70 - 130
beta-BHC	5.00	6.10		ug/L		122	70 - 130
beta-BHC	5.00	6.12		ug/L		122	70 - 130
delta-BHC	5.00	5.07		ug/L		101	70 - 130
delta-BHC	5.00	5.22		ug/L		104	70 - 130
Dieldrin	5.00	5.61		ug/L		112	70 - 130
Dieldrin	5.00	5.81		ug/L		116	70 - 130
Endosulfan I	5.00	5.86		ug/L		117	70 - 130
Endosulfan I	5.00	6.00		ug/L		120	70 - 130
Endosulfan II	5.00	6.21		ug/L		124	70 - 130
Endosulfan II	5.00	6.43		ug/L		129	70 - 130
Endosulfan sulfate	5.00	6.06		ug/L		121	70 - 130
Endosulfan sulfate	5.00	6.12		ug/L		122	70 - 130
Endrin	5.00	5.75		ug/L		115	70 - 130
Endrin	5.00	5.81		ug/L		116	70 - 130
Endrin aldehyde	5.00	6.03		ug/L		121	70 - 130
Endrin aldehyde	5.00	6.07		ug/L		121	70 - 130
Endrin ketone	5.00	5.88		ug/L		118	70 - 130
Endrin ketone	5.00	5.82		ug/L		116	70 - 130
gamma-BHC (Lindane)	5.00	5.48		ug/L		110	70 - 130
gamma-BHC (Lindane)	5.00	5.54		ug/L		111	70 - 130
gamma-Chlordane	5.00	5.54		ug/L		111	70 - 130
gamma-Chlordane	5.00	5.77		ug/L		115	70 - 130
Heptachlor	5.00	5.88		ug/L		118	70 - 130
Heptachlor	5.00	6.12		ug/L		122	70 - 130
Heptachlor epoxide	5.00	5.86		ug/L		117	70 - 130
Heptachlor epoxide	5.00	6.00		ug/L		120	70 - 130
Methoxychlor	5.00	5.97		ug/L		119	70 - 130
Methoxychlor	5.00	6.05		ug/L		121	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*50 - 150*
DCB Decachlorobiphenyl	*123*		*50 - 150*
Tetrachloro-m-xylene	*116*		*50 - 150*
Tetrachloro-m-xylene	*120*		*50 - 150*

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

Lab Sample ID: MRL 240-177258/49
Matrix: Solid
Analysis Batch: 177258

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	5.35		ug/L		107	70 - 130
4,4'-DDD	5.00	5.23		ug/L		105	70 - 130
4,4'-DDE	5.00	5.35		ug/L		107	70 - 130
4,4'-DDE	5.00	5.45		ug/L		109	70 - 130
4,4'-DDT	5.00	3.49		ug/L		70	70 - 130
4,4'-DDT	5.00	3.45	^	ug/L		69	70 - 130
Aldrin	5.00	5.43		ug/L		109	70 - 130
Aldrin	5.00	5.55		ug/L		111	70 - 130
alpha-BHC	5.00	5.37		ug/L		107	70 - 130
alpha-BHC	5.00	5.38		ug/L		108	70 - 130
alpha-Chlordane	5.00	5.57		ug/L		111	70 - 130
alpha-Chlordane	5.00	5.64		ug/L		113	70 - 130
beta-BHC	5.00	5.80		ug/L		116	70 - 130
beta-BHC	5.00	6.04		ug/L		121	70 - 130
delta-BHC	5.00	4.82		ug/L		96	70 - 130
delta-BHC	5.00	4.89		ug/L		98	70 - 130
Dieldrin	5.00	5.56		ug/L		111	70 - 130
Dieldrin	5.00	5.67		ug/L		113	70 - 130
Endosulfan I	5.00	5.78		ug/L		116	70 - 130
Endosulfan I	5.00	5.87		ug/L		117	70 - 130
Endosulfan II	5.00	6.16		ug/L		123	70 - 130
Endosulfan II	5.00	6.49		ug/L		130	70 - 130
Endosulfan sulfate	5.00	5.67		ug/L		113	70 - 130
Endosulfan sulfate	5.00	5.64		ug/L		113	70 - 130
Endrin	5.00	5.61		ug/L		112	70 - 130
Endrin	5.00	5.42		ug/L		108	70 - 130
Endrin aldehyde	5.00	5.29		ug/L		106	70 - 130
Endrin aldehyde	5.00	5.21		ug/L		104	70 - 130
Endrin ketone	5.00	5.38		ug/L		108	70 - 130
Endrin ketone	5.00	5.35		ug/L		107	70 - 130
gamma-BHC (Lindane)	5.00	5.36		ug/L		107	70 - 130
gamma-BHC (Lindane)	5.00	5.46		ug/L		109	70 - 130
gamma-Chlordane	5.00	5.45		ug/L		109	70 - 130
gamma-Chlordane	5.00	5.65		ug/L		113	70 - 130
Heptachlor	5.00	5.73		ug/L		115	70 - 130
Heptachlor	5.00	5.96		ug/L		119	70 - 130
Heptachlor epoxide	5.00	5.76		ug/L		115	70 - 130
Heptachlor epoxide	5.00	5.86		ug/L		117	70 - 130
Methoxychlor	5.00	4.23		ug/L		85	70 - 130
Methoxychlor	5.00	3.94		ug/L		79	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*116*		*50 - 150*
DCB Decachlorobiphenyl	*117*		*50 - 150*
Tetrachloro-m-xylene	*117*		*50 - 150*
Tetrachloro-m-xylene	*118*		*50 - 150*

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

Lab Sample ID: MRL 240-177463/18
Matrix: Solid
Analysis Batch: 177463

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD			5.00	3.82		ug/L		76	70 - 130		
4,4'-DDD			5.00	3.99		ug/L		80	70 - 130		
4,4'-DDE			5.00	4.48		ug/L		90	70 - 130		
4,4'-DDE			5.00	4.80		ug/L		96	70 - 130		
4,4'-DDT			5.00	3.60		ug/L		72	70 - 130		
4,4'-DDT			5.00	3.63		ug/L		73	70 - 130		
Aldrin			5.00	5.08		ug/L		102	70 - 130		
Aldrin			5.00	5.27		ug/L		105	70 - 130		
alpha-BHC			5.00	4.93		ug/L		99	70 - 130		
alpha-BHC			5.00	5.04		ug/L		101	70 - 130		
alpha-Chlordane			5.00	5.13		ug/L		103	70 - 130		
alpha-Chlordane			5.00	5.27		ug/L		105	70 - 130		
beta-BHC			5.00	5.49		ug/L		110	70 - 130		
beta-BHC			5.00	5.53		ug/L		111	70 - 130		
delta-BHC			5.00	4.34		ug/L		87	70 - 130		
delta-BHC			5.00	4.37		ug/L		87	70 - 130		
Dieldrin			5.00	5.01		ug/L		100	70 - 130		
Dieldrin			5.00	5.30		ug/L		106	70 - 130		
Endosulfan I			5.00	5.27		ug/L		105	70 - 130		
Endosulfan I			5.00	5.49		ug/L		110	70 - 130		
Endosulfan II			5.00	6.00		ug/L		120	70 - 130		
Endosulfan II			5.00	6.34		ug/L		127	70 - 130		
Endosulfan sulfate			5.00	5.49		ug/L		110	70 - 130		
Endosulfan sulfate			5.00	5.32		ug/L		106	70 - 130		
Endrin			5.00	5.07		ug/L		101	70 - 130		
Endrin			5.00	5.09		ug/L		102	70 - 130		
Endrin aldehyde			5.00	4.94		ug/L		99	70 - 130		
Endrin aldehyde			5.00	4.95		ug/L		99	70 - 130		
Endrin ketone			5.00	5.28		ug/L		106	70 - 130		
Endrin ketone			5.00	5.23		ug/L		105	70 - 130		
gamma-BHC (Lindane)			5.00	4.99		ug/L		100	70 - 130		
gamma-BHC (Lindane)			5.00	5.12		ug/L		102	70 - 130		
gamma-Chlordane			5.00	5.04		ug/L		101	70 - 130		
gamma-Chlordane			5.00	5.25		ug/L		105	70 - 130		
Heptachlor			5.00	5.36		ug/L		107	70 - 130		
Heptachlor			5.00	5.78		ug/L		116	70 - 130		
Heptachlor epoxide			5.00	5.37		ug/L		107	70 - 130		
Heptachlor epoxide			5.00	5.56		ug/L		111	70 - 130		
Methoxychlor			5.00	4.76		ug/L		95	70 - 130		
Methoxychlor			5.00	4.19		ug/L		84	70 - 130		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*50 - 150*
DCB Decachlorobiphenyl	*110*		*50 - 150*
Tetrachloro-m-xylene	*108*		*50 - 150*
Tetrachloro-m-xylene	*113*		*50 - 150*

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

Lab Sample ID: MRL 240-177463/21
Matrix: Solid
Analysis Batch: 177463

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	4.20		ug/L		84	70 - 130
4,4'-DDD	5.00	4.33		ug/L		87	70 - 130
4,4'-DDE	5.00	5.09		ug/L		102	70 - 130
4,4'-DDE	5.00	5.20		ug/L		104	70 - 130
4,4'-DDT	5.00	3.95		ug/L		79	70 - 130
4,4'-DDT	5.00	3.94		ug/L		79	70 - 130
Aldrin	5.00	5.25		ug/L		105	70 - 130
Aldrin	5.00	5.43		ug/L		109	70 - 130
alpha-BHC	5.00	5.14		ug/L		103	70 - 130
alpha-BHC	5.00	5.22		ug/L		104	70 - 130
alpha-Chlordane	5.00	5.31		ug/L		106	70 - 130
alpha-Chlordane	5.00	5.60		ug/L		112	70 - 130
beta-BHC	5.00	5.58		ug/L		112	70 - 130
beta-BHC	5.00	5.96		ug/L		119	70 - 130
delta-BHC	5.00	4.62		ug/L		92	70 - 130
delta-BHC	5.00	4.61		ug/L		92	70 - 130
Dieldrin	5.00	5.39		ug/L		108	70 - 130
Dieldrin	5.00	5.65		ug/L		113	70 - 130
Endosulfan I	5.00	5.58		ug/L		112	70 - 130
Endosulfan I	5.00	5.86		ug/L		117	70 - 130
Endosulfan II	5.00	6.01		ug/L		120	70 - 130
Endosulfan II	5.00	6.55	^	ug/L		131	70 - 130
Endosulfan sulfate	5.00	5.59		ug/L		112	70 - 130
Endosulfan sulfate	5.00	5.75		ug/L		115	70 - 130
Endrin	5.00	5.44		ug/L		109	70 - 130
Endrin	5.00	5.41		ug/L		108	70 - 130
Endrin aldehyde	5.00	5.04		ug/L		101	70 - 130
Endrin aldehyde	5.00	5.05		ug/L		101	70 - 130
Endrin ketone	5.00	5.43		ug/L		109	70 - 130
Endrin ketone	5.00	5.49		ug/L		110	70 - 130
gamma-BHC (Lindane)	5.00	5.14		ug/L		103	70 - 130
gamma-BHC (Lindane)	5.00	5.37		ug/L		107	70 - 130
gamma-Chlordane	5.00	5.26		ug/L		105	70 - 130
gamma-Chlordane	5.00	5.59		ug/L		112	70 - 130
Heptachlor	5.00	5.60		ug/L		112	70 - 130
Heptachlor	5.00	6.02		ug/L		120	70 - 130
Heptachlor epoxide	5.00	5.57		ug/L		111	70 - 130
Heptachlor epoxide	5.00	5.80		ug/L		116	70 - 130
Methoxychlor	5.00	5.06		ug/L		101	70 - 130
Methoxychlor	5.00	4.61		ug/L		92	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*50 - 150*
DCB Decachlorobiphenyl	*115*		*50 - 150*
Tetrachloro-m-xylene	*111*		*50 - 150*
Tetrachloro-m-xylene	*117*		*50 - 150*

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

Lab Sample ID: MB 240-177040/4-A
Matrix: Solid
Analysis Batch: 177609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177040

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	33	U	50	16	ug/Kg		04/20/15 09:04	04/23/15 20:20	1
Aroclor-1016	33	U	65	12	ug/Kg		04/20/15 09:04	04/23/15 20:20	1
Aroclor-1232	33	U	45	20	ug/Kg		04/20/15 09:04	04/23/15 20:20	1
Aroclor-1242	33	U	40	11	ug/Kg		04/20/15 09:04	04/23/15 20:20	1
Aroclor-1248	33	U	55	8.0	ug/Kg		04/20/15 09:04	04/23/15 20:20	1
Aroclor-1254	33	U	55	14	ug/Kg		04/20/15 09:04	04/23/15 20:20	1
Aroclor-1260	33	U	55	9.0	ug/Kg		04/20/15 09:04	04/23/15 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*40 - 140*	*04/20/15 09:04*	*04/23/15 20:20*	*1*
Tetrachloro-m-xylene	*115*		*40 - 140*	*04/20/15 09:04*	*04/23/15 20:20*	*1*
DCB Decachlorobiphenyl	*116*		*60 - 125*	*04/20/15 09:04*	*04/23/15 20:20*	*1*
DCB Decachlorobiphenyl	*119*		*60 - 125*	*04/20/15 09:04*	*04/23/15 20:20*	*1*

Lab Sample ID: LCS 240-177040/5-A
Matrix: Solid
Analysis Batch: 177830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177040

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			333	254		ug/Kg		76	40 - 140		
Aroclor-1260			333	267		ug/Kg		80	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*40 - 140*
Tetrachloro-m-xylene	*77*		*40 - 140*
DCB Decachlorobiphenyl	*86*		*60 - 125*
DCB Decachlorobiphenyl	*85*		*60 - 125*

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 177609

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 177040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016	34	U	346	284		ug/Kg	☼	82	40 - 140		
Aroclor-1260	34	U	346	269		ug/Kg	☼	78	60 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*40 - 140*
Tetrachloro-m-xylene	*86*		*40 - 140*
DCB Decachlorobiphenyl	*82*		*60 - 125*
DCB Decachlorobiphenyl	*87*		*60 - 125*

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

Lab Sample ID: 240-49071-2 MSD
Matrix: Solid
Analysis Batch: 177609

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 177040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	34	U	336	254		ug/Kg	☼	76	40 - 140	11	30
Aroclor-1260	34	U	336	238		ug/Kg	☼	71	60 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*40 - 140*
Tetrachloro-m-xylene	*79*		*40 - 140*
DCB Decachlorobiphenyl	*73*		*60 - 125*
DCB Decachlorobiphenyl	*78*		*60 - 125*

Lab Sample ID: MRL 240-177609/15
Matrix: Solid
Analysis Batch: 177609

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0470	J	ng/uL		94	70 - 130
Aroclor-1016	0.0500	0.0533		ng/uL		107	70 - 130
Aroclor-1260	0.0500	0.0481	J	ng/uL		96	70 - 130
Aroclor-1260	0.0500	0.0469	J	ng/uL		94	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*50 - 150*
Tetrachloro-m-xylene	*101*		*50 - 150*
DCB Decachlorobiphenyl	*98*		*50 - 150*
DCB Decachlorobiphenyl	*98*		*50 - 150*

Lab Sample ID: MRL 240-177609/9
Matrix: Solid
Analysis Batch: 177609

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0436	J	ng/uL		87	70 - 130
Aroclor-1016	0.0500	0.0522		ng/uL		104	70 - 130
Aroclor-1260	0.0500	0.0445	J	ng/uL		89	70 - 130
Aroclor-1260	0.0500	0.0459	J	ng/uL		92	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*50 - 150*
Tetrachloro-m-xylene	*97*		*50 - 150*
DCB Decachlorobiphenyl	*97*		*50 - 150*
DCB Decachlorobiphenyl	*96*		*50 - 150*

Lab Sample ID: MRL 240-177830/19
Matrix: Solid
Analysis Batch: 177830

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0444	J	ng/uL		89	70 - 130

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

Lab Sample ID: MRL 240-177830/19
Matrix: Solid
Analysis Batch: 177830

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0478	J	ng/uL		96	70 - 130
Aroclor-1260	0.0500	0.0436	J	ng/uL		87	70 - 130
Aroclor-1260	0.0500	0.0441	J	ng/uL		88	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*50 - 150*
Tetrachloro-m-xylene	*95*		*50 - 150*
DCB Decachlorobiphenyl	*94*		*50 - 150*
DCB Decachlorobiphenyl	*100*		*50 - 150*

Method: 8330 Modified - Nitroguanidine (HPLC)

Lab Sample ID: MB 320-71482/1-A
Matrix: Solid
Analysis Batch: 71845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71482

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	0.040	U	0.25	0.020	mg/Kg		04/18/15 14:00	04/22/15 15:40	1

Lab Sample ID: LCS 320-71482/2-A
Matrix: Solid
Analysis Batch: 71845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitroguanidine	1.00	0.815	M	mg/Kg		82	72 - 121

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 71845

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 71482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitroguanidine	0.039	U	1.00	0.826		mg/Kg		83	72 - 121

Lab Sample ID: 240-49071-2 MSD
Matrix: Solid
Analysis Batch: 71845

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 71482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitroguanidine	0.039	U	1.00	0.809		mg/Kg		81	72 - 121	2	20

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 320-71481/1-A
Matrix: Solid
Analysis Batch: 71988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71481

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.013	mg/Kg		04/18/15 14:00	04/23/15 18:16	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 320-71481/1-A
Matrix: Solid
Analysis Batch: 71988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71481

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.010	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
1,3-Dinitrobenzene	0.050	U	0.25	0.0042	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
2,4-Dinitrotoluene	0.050	U	0.25	0.0053	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
2,6-Dinitrotoluene	0.050	U	0.25	0.0073	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
HMX	0.050	U	0.25	0.012	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
Nitrobenzene	0.050	U	0.25	0.018	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
Nitroglycerin	0.25	U	0.50	0.015	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
2-Nitrotoluene	0.050	U	0.25	0.013	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
3-Nitrotoluene	0.050	U	0.25	0.016	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
4-Nitrotoluene	0.050	U	0.25	0.018	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
PETN	0.25	U	0.50	0.025	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
RDX	0.050	U	0.25	0.012	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
Tetryl	0.050	U	0.25	0.010	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
1,3,5-Trinitrobenzene	0.050	U	0.25	0.010	mg/Kg		04/18/15 14:00	04/23/15 18:16	1
2,4,6-Trinitrotoluene	0.050	U	0.25	0.019	mg/Kg		04/18/15 14:00	04/23/15 18:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*90*		*78 - 118*	*04/18/15 14:00*	*04/23/15 18:16*	*1*

Lab Sample ID: LCS 320-71481/2-A
Matrix: Solid
Analysis Batch: 71988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Amino-4,6-dinitrotoluene	0.500	0.465		mg/Kg		93	79 - 119
4-Amino-2,6-dinitrotoluene	0.500	0.460		mg/Kg		92	81 - 121
1,3-Dinitrobenzene	0.500	0.471		mg/Kg		94	81 - 121
2,4-Dinitrotoluene	0.500	0.470		mg/Kg		94	79 - 119
2,6-Dinitrotoluene	0.500	0.469		mg/Kg		94	79 - 119
HMX	0.500	0.463		mg/Kg		93	80 - 120
Nitrobenzene	0.500	0.475		mg/Kg		95	80 - 120
Nitroglycerin	1.00	1.00		mg/Kg		100	76 - 116
2-Nitrotoluene	0.500	0.471		mg/Kg		94	78 - 118
3-Nitrotoluene	0.500	0.470		mg/Kg		94	77 - 117
4-Nitrotoluene	0.500	0.471		mg/Kg		94	78 - 118
PETN	1.00	0.975		mg/Kg		98	76 - 116
RDX	0.500	0.463		mg/Kg		93	82 - 122
Tetryl	0.500	0.472		mg/Kg		94	63 - 120
1,3,5-Trinitrobenzene	0.500	0.468		mg/Kg		94	81 - 121
2,4,6-Trinitrotoluene	0.500	0.470		mg/Kg		94	65 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
3,4-Dinitrotoluene	*92*		*78 - 118*

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 71988

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 71481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Amino-4,6-dinitrotoluene	0.050	U	0.500	0.459		mg/Kg		92	79 - 119
4-Amino-2,6-dinitrotoluene	0.050	U	0.500	0.435		mg/Kg		87	81 - 121
1,3-Dinitrobenzene	0.050	U	0.500	0.467		mg/Kg		93	81 - 121
2,4-Dinitrotoluene	0.050	U	0.500	0.466	M	mg/Kg		93	79 - 119
2,6-Dinitrotoluene	0.050	U	0.500	0.475	M	mg/Kg		95	79 - 119
HMX	0.050	U	0.500	0.455		mg/Kg		91	80 - 120
Nitrobenzene	0.050	U	0.500	0.475		mg/Kg		95	80 - 120
Nitroglycerin	0.25	U	1.00	0.992		mg/Kg		99	76 - 116
2-Nitrotoluene	0.050	U	0.500	0.464	M	mg/Kg		93	78 - 118
3-Nitrotoluene	0.050	U	0.500	0.494		mg/Kg		99	77 - 117
4-Nitrotoluene	0.050	U	0.500	0.487		mg/Kg		97	78 - 118
PETN	0.25	U	1.00	0.985		mg/Kg		98	76 - 116
RDX	0.050	U	0.500	0.441		mg/Kg		88	82 - 122
Tetryl	0.050	U	0.500	0.463		mg/Kg		93	63 - 120
1,3,5-Trinitrobenzene	0.050	U	0.500	0.470		mg/Kg		94	81 - 121
2,4,6-Trinitrotoluene	0.050	U	0.500	0.471		mg/Kg		94	65 - 105

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
3,4-Dinitrotoluene	*93*		*78 - 118*

Lab Sample ID: 240-49071-2 MSD
Matrix: Solid
Analysis Batch: 71988

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 71481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Amino-4,6-dinitrotoluene	0.050	U	0.502	0.454		mg/Kg		91	79 - 119	1	20
4-Amino-2,6-dinitrotoluene	0.050	U	0.502	0.429		mg/Kg		86	81 - 121	2	20
1,3-Dinitrobenzene	0.050	U	0.502	0.471		mg/Kg		94	81 - 121	1	20
2,4-Dinitrotoluene	0.050	U	0.502	0.469		mg/Kg		94	79 - 119	1	20
2,6-Dinitrotoluene	0.050	U	0.502	0.472		mg/Kg		94	79 - 119	1	20
HMX	0.050	U	0.502	0.459		mg/Kg		92	80 - 120	1	20
Nitrobenzene	0.050	U	0.502	0.472		mg/Kg		94	80 - 120	1	20
Nitroglycerin	0.25	U	1.00	1.01		mg/Kg		101	76 - 116	2	20
2-Nitrotoluene	0.050	U	0.502	0.472		mg/Kg		94	78 - 118	2	20
3-Nitrotoluene	0.050	U	0.502	0.473		mg/Kg		94	77 - 117	4	20
4-Nitrotoluene	0.050	U	0.502	0.471		mg/Kg		94	78 - 118	3	20
PETN	0.25	U	1.00	0.996		mg/Kg		99	76 - 116	1	20
RDX	0.050	U	0.502	0.442		mg/Kg		88	82 - 122	0	20
Tetryl	0.050	U	0.502	0.465		mg/Kg		93	63 - 120	0	20
1,3,5-Trinitrobenzene	0.050	U	0.502	0.473		mg/Kg		94	81 - 121	1	20
2,4,6-Trinitrotoluene	0.050	U	0.502	0.469		mg/Kg		94	65 - 105	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
3,4-Dinitrotoluene	*90*		*78 - 118*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-176562/1-A ^2
Matrix: Solid
Analysis Batch: 177115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176562

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.27	J D	20	0.62	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Antimony	0.0204	J D	0.40	0.014	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Arsenic	0.0692	J D	1.0	0.026	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Barium	0.229	J D	1.0	0.22	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Beryllium	0.0212	J D	0.20	0.011	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Cadmium	0.0232	J D	0.40	0.0037	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Calcium	100	U	400	22	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Cobalt	0.00940	J D	0.20	0.0017	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Copper	0.30	U	0.80	0.097	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Iron	30	U	100	3.2	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Lead	0.0474	J D	0.60	0.045	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Magnesium	6.19	J D	200	4.0	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Manganese	0.40	U	1.0	0.12	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Potassium	8.46	J D	200	4.9	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Selenium	0.0650	J D	1.0	0.040	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Silver	0.050	U	0.20	0.0014	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Sodium	11.5	J D	200	8.7	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Thallium	0.15	U	0.40	0.019	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Vanadium	0.0582	J D	1.0	0.037	mg/Kg		04/15/15 11:42	04/20/15 18:14	2
Zinc	2.0	U	8.0	0.50	mg/Kg		04/15/15 11:42	04/20/15 18:14	2

Lab Sample ID: MB 240-176562/1-A ^2
Matrix: Solid
Analysis Batch: 177351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176562

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.176	J D	1.0	0.060	mg/Kg		04/15/15 11:42	04/21/15 22:00	2
Nickel	0.0396	J D	1.0	0.039	mg/Kg		04/15/15 11:42	04/21/15 22:00	2

Lab Sample ID: LCS 240-176562/2-A ^2
Matrix: Solid
Analysis Batch: 177115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1000	998	D	mg/Kg		100	80 - 120
Antimony	10.0	10.4	D	mg/Kg		104	68 - 113
Arsenic	100	90.5	D	mg/Kg		90	73 - 110
Barium	100	105	D	mg/Kg		105	70 - 110
Beryllium	100	103	D	mg/Kg		103	79 - 110
Cadmium	100	95.4	D	mg/Kg		95	74 - 110
Calcium	1000	964	D	mg/Kg		96	80 - 120
Cobalt	100	94.4	D	mg/Kg		94	74 - 110
Copper	100	96.0	D	mg/Kg		96	73 - 110
Iron	1000	1050	D	mg/Kg		105	80 - 120
Lead	100	96.8	D	mg/Kg		97	75 - 110
Magnesium	1000	1030	D	mg/Kg		103	80 - 120
Manganese	100	104	D	mg/Kg		104	80 - 120
Potassium	1000	1070	D	mg/Kg		107	80 - 120

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

Lab Sample ID: LCS 240-176562/2-A ^2
Matrix: Solid
Analysis Batch: 177115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	100	89.0	D	mg/Kg		89	65 - 110
Silver	10.0	9.96	D	mg/Kg		100	60 - 114
Sodium	1000	1040	D	mg/Kg		104	80 - 120
Thallium	25.0	23.8	D	mg/Kg		95	71 - 110
Vanadium	100	106	D	mg/Kg		106	72 - 110
Zinc	100	90.2	D	mg/Kg		90	72 - 113

Lab Sample ID: LCS 240-176562/2-A ^2
Matrix: Solid
Analysis Batch: 177351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	103	D	mg/Kg		103	70 - 110
Nickel	100	95.3	D	mg/Kg		95	75 - 110

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 177115

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.14	J J D	9.66	2.68	J D	mg/Kg	☼	26	75 - 125
Arsenic	8.1	D	9.66	17.5	D	mg/Kg	☼	97	23 - 131
Barium	51	J D	9.66	63.0	4 D	mg/Kg	☼	127	10 - 199
Beryllium	0.40	D	9.66	9.67	D	mg/Kg	☼	96	58 - 112
Cadmium	0.18	J D	9.66	9.29	D	mg/Kg	☼	94	58 - 110
Calcium	2100	J D	966	1920	J D	mg/Kg	☼	-15	70 - 130
Cobalt	5.7	D	9.66	14.9	D	mg/Kg	☼	95	55 - 110
Copper	9.4	D	9.66	18.7	D	mg/Kg	☼	96	10 - 199
Lead	15	D	9.66	25.9	D	mg/Kg	☼	111	10 - 199
Magnesium	1400	D	966	2420	D	mg/Kg	☼	106	70 - 130
Potassium	470	D	966	1380	D	mg/Kg	☼	94	70 - 130
Selenium	0.84	J D	9.66	8.86	D	mg/Kg	☼	83	39 - 116
Silver	0.043	J D	9.66	9.18	D	mg/Kg	☼	95	75 - 125
Sodium	28	J D	966	938	D	mg/Kg	☼	94	70 - 130
Thallium	0.16	J D	9.66	8.40	D	mg/Kg	☼	85	82 - 110
Vanadium	20	D	9.66	30.9	D	mg/Kg	☼	116	39 - 129
Zinc	55	D	9.66	69.0	4 D	mg/Kg	☼	143	10 - 199

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 177351

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	D J	966	13000	D 4	mg/Kg	☼	280	70 - 130
Iron	19000	D J	966	22100	D 4	mg/Kg	☼	278	70 - 130
Manganese	410	D J	9.66	435	D 4	mg/Kg	☼	304	10 - 199

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

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 177351

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	14	D	9.66	24.8	D	mg/Kg	☼	109	10 - 199
Nickel	36	D	9.66	40.5	D	mg/Kg	☼	46	10 - 176

Lab Sample ID: 240-49071-2 DU
Matrix: Solid
Analysis Batch: 177115

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.14	J J D	0.171	J D	mg/Kg	☼	22	20
Arsenic	8.1	D	8.43	D	mg/Kg	☼	3	20
Barium	51	J D	48.6	D	mg/Kg	☼	4	20
Beryllium	0.40	D	0.418	D	mg/Kg	☼	4	20
Cadmium	0.18	J D	0.198	J D	mg/Kg	☼	8	20
Calcium	2100	J D	960	J D	mg/Kg	☼	73	20
Cobalt	5.7	D	5.38	D	mg/Kg	☼	6	20
Copper	9.4	D	9.46	D	mg/Kg	☼	0.2	20
Lead	15	D	15.8	D	mg/Kg	☼	4	20
Magnesium	1400	D	1400	D	mg/Kg	☼	0.4	20
Manganese	380	J D	336	D	mg/Kg	☼	13	20
Potassium	470	D	484	D	mg/Kg	☼	3	20
Selenium	0.84	J D	0.886	J D	mg/Kg	☼	5	20
Silver	0.043	J D	0.0435	J D	mg/Kg	☼	1	20
Sodium	28	J D	26.3	J D	mg/Kg	☼	6	20
Thallium	0.16	J D	0.184	J D	mg/Kg	☼	16	20
Vanadium	20	D	20.4	D	mg/Kg	☼	4	20
Zinc	55	D	54.7	D	mg/Kg	☼	1	20

Lab Sample ID: 240-49071-2 DU
Matrix: Solid
Analysis Batch: 177351

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	10000	D J	10100	D	mg/Kg	☼	2	20
Iron	19000	D J	19600	D	mg/Kg	☼	1	20

Lab Sample ID: 240-49071-2 DU
Matrix: Solid
Analysis Batch: 177351

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176562

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	14	D	15.5	D	mg/Kg	☼	8	20
Nickel	36	D	27.8	D J	mg/Kg	☼	26	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 240-176570/1-A
Matrix: Solid
Analysis Batch: 176708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176570

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	U	0.10	0.014	mg/Kg		04/15/15 15:00	04/16/15 09:25	1

Lab Sample ID: LCS 240-176570/2-A
Matrix: Solid
Analysis Batch: 176708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.836		mg/Kg		100	80 - 120

Lab Sample ID: 240-49071-2 MS
Matrix: Solid
Analysis Batch: 176708

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.039	J	0.186	0.235		mg/Kg	☼	105	80 - 120

Lab Sample ID: 240-49071-2 DU
Matrix: Solid
Analysis Batch: 176708

Client Sample ID: 079SS-0342M-0001,0002-SO
Prep Type: Total/NA
Prep Batch: 176570

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.039	J	0.0400	J	mg/Kg	☼	2	20

Method: WS-WC-0050 - Nitrocellulose

Lab Sample ID: MB 320-71507/1-B
Matrix: Solid
Analysis Batch: 72011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71631

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.07	J	5.0	0.78	mg/Kg		04/21/15 06:29	04/22/15 13:53	1

Lab Sample ID: LCS 320-71507/2-B
Matrix: Solid
Analysis Batch: 72011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrocellulose	50.7	24.3		mg/Kg		48	34 - 115

Lab Sample ID: MRL 320-72011/11
Matrix: Solid
Analysis Batch: 72011

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrocellulose	0.417	0.492	J	mg/L		118	70 - 130

Method: WS-WC-0050 - Nitrocellulose (Continued)

Lab Sample ID: MRL 320-72011/27
Matrix: Solid
Analysis Batch: 72011

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrocellulose	0.417	1.0	U	mg/L		114	70 - 130

GC/MS VOA

Analysis Batch: 175731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-5	079SS-0379-0001-TB	Total/NA	Water	8260B	
LCS 240-175731/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-175731/6	Method Blank	Total/NA	Water	8260B	
MRL 240-175731/15	Lab Control Sample	Total/NA	Water	8260B	
MRL 240-175731/5	Lab Control Sample	Total/NA	Water	8260B	

Prep Batch: 175865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-1	079SS-0342M-0001-SO	Total/NA	Solid	5035	
240-49071-1	079SS-0342M-0001-SO	Total/NA	Solid	5035	
MB 240-175865/2-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 176026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-1	079SS-0342M-0001-SO	Total/NA	Solid	8260B	175865
LCS 240-176026/6	Lab Control Sample	Total/NA	Solid	8260B	
MB 240-175865/2-A	Method Blank	Total/NA	Solid	8260B	175865
MRL 240-176026/35	Lab Control Sample	Total/NA	Solid	8260B	
MRL 240-176026/7	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 176387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-1	079SS-0342M-0001-SO	Total/NA	Solid	8260B	175865
LCS 240-176387/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 240-176387/33	Method Blank	Total/NA	Solid	8260B	
MRL 240-176387/30	Lab Control Sample	Total/NA	Solid	8260B	
MRL 240-176387/6	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

ISM Prep Batch: 176059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	

Prep Batch: 176319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
LCS 240-176319/24-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-176319/23-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 177355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	8270C	176319
LCS 240-176319/24-A	Lab Control Sample	Total/NA	Solid	8270C	176319
MB 240-176319/23-A	Method Blank	Total/NA	Solid	8270C	176319
MRL 240-177355/18	Lab Control Sample	Total/NA	Solid	8270C	
MRL 240-177355/3	Lab Control Sample	Total/NA	Solid	8270C	

GC Semi VOA

Analysis Batch: 174448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
PEM 240-174448/24	PEM		Solid	8081A	

ISM Prep Batch: 176059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 - RE	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	

Prep Batch: 177037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2 - RE	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
LCS 240-177037/8-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-177037/7-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 177040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	3540C	176059
LCS 240-177040/5-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-177040/4-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 177258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2 - RE	079SS-0342M-0001,0002-SO	Total/NA	Solid	8081A	177037
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	8081A	177037
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	8081A	177037
MB 240-177037/7-A	Method Blank	Total/NA	Solid	8081A	177037
MRL 240-177258/29	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/31	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/47	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/49	Lab Control Sample	Total/NA	Solid	8081A	
PEM 240-177258/27	PEM		Solid	8081A	

Analysis Batch: 177463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-177037/8-A	Lab Control Sample	Total/NA	Solid	8081A	177037
MRL 240-177463/17	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177463/18	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177463/20	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177463/21	Lab Control Sample	Total/NA	Solid	8081A	
PEM 240-177463/5	PEM		Solid	8081A	

Analysis Batch: 177609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	8082	177040
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	8082	177040
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	8082	177040

GC Semi VOA (Continued)

Analysis Batch: 177609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-177040/4-A	Method Blank	Total/NA	Solid	8082	177040
MRL 240-177609/15	Lab Control Sample	Total/NA	Solid	8082	
MRL 240-177609/9	Lab Control Sample	Total/NA	Solid	8082	

Analysis Batch: 177830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-177040/5-A	Lab Control Sample	Total/NA	Solid	8082	177040
MRL 240-177830/19	Lab Control Sample	Total/NA	Solid	8082	

HPLC/IC

Prep Batch: 71481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330B	
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330B	
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330B	
LCS 320-71481/2-A	Lab Control Sample	Total/NA	Solid	8330B	
MB 320-71481/1-A	Method Blank	Total/NA	Solid	8330B	

Prep Batch: 71482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	Sieve/Ultrasoni	
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	Sieve/Ultrasoni	
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	Sieve/Ultrasoni	
LCS 320-71482/2-A	Lab Control Sample	Total/NA	Solid	Sieve/Ultrasoni	
MB 320-71482/1-A	Method Blank	Total/NA	Solid	Sieve/Ultrasoni	

Analysis Batch: 71845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330 Modified	71482
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330 Modified	71482
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330 Modified	71482
LCS 320-71482/2-A	Lab Control Sample	Total/NA	Solid	8330 Modified	71482
MB 320-71482/1-A	Method Blank	Total/NA	Solid	8330 Modified	71482

Analysis Batch: 71988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330B	71481
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330B	71481
240-49071-2 MSD	079SS-0342M-0001,0002-SO	Total/NA	Solid	8330B	71481
LCS 320-71481/2-A	Lab Control Sample	Total/NA	Solid	8330B	71481
MB 320-71481/1-A	Method Blank	Total/NA	Solid	8330B	71481

Metals

ISM Prep Batch: 176059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	

Metals (Continued)

ISM Prep Batch: 176059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2 PDS	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 SD	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	Increment, Prep	
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	Increment, Prep	

Prep Batch: 176499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CRA 240-176499/9-A	DL		Solid	7471A	

Prep Batch: 176562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	3050B	176059
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	3050B	176059
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	3050B	176059
240-49071-2 PDS	079SS-0342M-0001,0002-SO	Total/NA	Solid	3050B	176059
240-49071-2 SD	079SS-0342M-0001,0002-SO	Total/NA	Solid	3050B	176059
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	3050B	176059
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	3050B	176059
LCS 240-176562/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-176562/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 176570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	7471A	176059
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	7471A	176059
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	7471A	176059
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	7471A	176059
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	7471A	176059
LCS 240-176570/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 240-176570/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 176708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	7471A	176570
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	7471A	176570
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	7471A	176570
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	7471A	176570
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	7471A	176570
CRA 240-176499/9-A	DL		Solid	7471A	176499
CRA 240-176499/9-A	DL		Solid	7471A	176499
LCS 240-176570/2-A	Lab Control Sample	Total/NA	Solid	7471A	176570
MB 240-176570/1-A	Method Blank	Total/NA	Solid	7471A	176570

Analysis Batch: 177115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 PDS	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 SD	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	6020	176562

Metals (Continued)

Analysis Batch: 177115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	6020	176562
CRI 240-177115/10	DL		Solid	6020	
CRI 240-177115/142	DL		Solid	6020	
ICSA 240-177115/11	ICS		Solid	6020	
ICSAB 240-177115/12	ICS		Solid	6020	
LCS 240-176562/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	176562
MB 240-176562/1-A ^2	Method Blank	Total/NA	Solid	6020	176562

Analysis Batch: 177351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 MS	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 PDS	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 PDS	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 SD	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-2 SD	079SS-0342M-0001,0002-SO	Total/NA	Solid	6020	176562
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	6020	176562
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	6020	176562
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	6020	176562
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	6020	176562
CRI 240-177351/9	DL		Solid	6020	
CRI 240-177351/91	DL		Solid	6020	
ICSA 240-177351/10	ICS		Solid	6020	
ICSAB 240-177351/11	ICS		Solid	6020	
LCS 240-176562/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	176562
MB 240-176562/1-A ^2	Method Blank	Total/NA	Solid	6020	176562

General Chemistry

Pre Prep Batch: 71507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	353.2 (NCell)	
LCS 320-71507/2-B	Lab Control Sample	Total/NA	Solid	353.2 (NCell)	
MB 320-71507/1-B	Method Blank	Total/NA	Solid	353.2 (NCell)	

Prep Batch: 71631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	353 (NCell-Hyd)	71507
LCS 320-71507/2-B	Lab Control Sample	Total/NA	Solid	353 (NCell-Hyd)	71507
MB 320-71507/1-B	Method Blank	Total/NA	Solid	353 (NCell-Hyd)	71507

Analysis Batch: 72011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	WS-WC-0050	71631
LCS 320-71507/2-B	Lab Control Sample	Total/NA	Solid	WS-WC-0050	71631
MB 320-71507/1-B	Method Blank	Total/NA	Solid	WS-WC-0050	71631

General Chemistry (Continued)

Analysis Batch: 72011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 320-72011/11	Lab Control Sample	Total/NA	Solid	WS-WC-0050	
MRL 320-72011/27	Lab Control Sample	Total/NA	Solid	WS-WC-0050	

Analysis Batch: 175658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-1	079SS-0342M-0001-SO	Total/NA	Solid	Moisture	

ISM Prep Batch: 176059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	Increment, Prep	
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	Increment, Prep	
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	Increment, Prep	

Analysis Batch: 176189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49071-2	079SS-0342M-0001,0002-SO	Total/NA	Solid	Moisture	176059
240-49071-2 DU	079SS-0342M-0001,0002-SO	Total/NA	Solid	Moisture	176059
240-49071-3	079SS-0343M-0001-SO	Total/NA	Solid	Moisture	176059
240-49071-4	079SS-0344M-0001-SO	Total/NA	Solid	Moisture	176059

Client Sample ID: 079SS-0342M-0001-SO

Lab Sample ID: 240-49071-1

Date Collected: 04/06/15 16:30
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			175865	04/08/15 13:15	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	176387	04/14/15 20:08	SAM	TAL CAN
Total/NA	Prep	5035			175865	04/08/15 13:15	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	176026	04/11/15 03:26	TJL2	TAL CAN
Total/NA	Analysis	Moisture		1	175658	04/08/15 16:25	SEM	TAL CAN

Client Sample ID: 079SS-0342M-0001,0002-SO

Lab Sample ID: 240-49071-2

Date Collected: 04/06/15 16:30
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3540C			176319	04/14/15 08:47	SDE	TAL CAN
Total/NA	Analysis	8270C		1	177355	04/22/15 13:54	MRU	TAL CAN
Total/NA	ISM Prep	Increment, Prep	RE		176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3540C	RE		177037	04/20/15 09:00	CSC	TAL CAN
Total/NA	Analysis	8081A	RE	1	177258	04/22/15 00:45	BPM	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3540C			177040	04/20/15 09:04	CSC	TAL CAN
Total/NA	Analysis	8082		1	177609	04/23/15 19:26	HMB	TAL CAN
Total/NA	Prep	Sieve/Ultrasoni			71482	04/18/15 14:00	HJA	TAL SAC
Total/NA	Analysis	8330 Modified		1	71845	04/22/15 16:15	YPH	TAL SAC
Total/NA	Prep	8330B			71481	04/18/15 14:00	JER	TAL SAC
Total/NA	Analysis	8330B		1	71988	04/23/15 19:44	YPH	TAL SAC
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		2	177115	04/20/15 18:22	AS1	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		50	177351	04/21/15 20:59	AMM2	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		2	177351	04/21/15 22:08	AMM2	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	7471A			176570	04/15/15 15:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	176708	04/16/15 09:29	BW	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	176189	04/13/15 11:43	SEM	TAL CAN
Total/NA	Pre Prep	353.2 (NCell)			71507	04/20/15 08:52	HJA	TAL SAC
Total/NA	Prep	353 (NCell-Hyd)			71631	04/21/15 06:29	HJA	TAL SAC
Total/NA	Analysis	WS-WC-0050		1	72011	04/22/15 13:57	JCB	TAL SAC

Client Sample ID: 079SS-0343M-0001-SO

Lab Sample ID: 240-49071-3

Date Collected: 04/06/15 14:00
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		2	177115	04/20/15 18:41	AS1	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		50	177351	04/21/15 21:18	AMM2	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		2	177351	04/21/15 22:34	AMM2	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	7471A			176570	04/15/15 15:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	176708	04/16/15 09:39	BW	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	176189	04/13/15 11:43	SEM	TAL CAN

Client Sample ID: 079SS-0344M-0001-SO

Lab Sample ID: 240-49071-4

Date Collected: 04/06/15 00:00
Matrix: Solid
Date Received: 04/08/15 07:00
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		2	177115	04/20/15 18:45	AS1	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		50	177351	04/21/15 21:22	AMM2	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	3050B			176562	04/15/15 11:42	DEE	TAL CAN
Total/NA	Analysis	6020		2	177351	04/21/15 22:38	AMM2	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Prep	7471A			176570	04/15/15 15:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	176708	04/16/15 09:40	BW	TAL CAN
Total/NA	ISM Prep	Increment, Prep			176059	04/08/15 16:00	DRJ	TAL CAN
Total/NA	Analysis	Moisture		1	176189	04/13/15 11:43	SEM	TAL CAN

Client Sample ID: 079SS-0379-0001-TB

Lab Sample ID: 240-49071-5

Date Collected: 04/06/15 08:00
Matrix: Water
Date Received: 04/08/15 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	175731	04/09/15 13:37	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	04-30-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-15
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-15
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-15
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	10-31-15
Louisiana	NELAP	6	30612	06-30-15
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-15
New Jersey	NELAP	2	CA005	06-30-15
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Oregon	NELAP Secondary AB	10	E87570	06-30-15
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-08-TX	05-31-15
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17

* Certification renewal pending - certification considered valid.

Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Washington	State Program	10	C581	05-05-15
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

Method Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8081A	Organochlorine Pesticides (GC)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
8330 Modified	Nitroguanidine (HPLC)	SW846	TAL SAC
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL SAC
6020	Metals (ICP/MS)	SW846	TAL CAN
7471A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
WS-WC-0050	Nitrocellulose	TAL-SAC	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

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

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Environmental Chemical Corp.
Project/Site: RVAAP - AAP

TestAmerica Job ID: 240-49071-1
SDG: CC 79 Area 8

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-49071-1	079SS-0342M-0001-SO	Solid	04/06/15 16:30	04/08/15 07:00
240-49071-2	079SS-0342M-0001,0002-SO	Solid	04/06/15 16:30	04/08/15 07:00
240-49071-3	079SS-0343M-0001-SO	Solid	04/06/15 14:00	04/08/15 07:00
240-49071-4	079SS-0344M-0001-SO	Solid	04/06/15 00:00	04/08/15 07:00
240-49071-5	079SS-0379-0001-TB	Water	04/06/15 08:00	04/08/15 07:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Analysis Batch Number: 177011

Lab Sample ID: STD4 240-177011/3 IC Client Sample ID:

Date Analyzed: 04/20/15 09:14 Lab File ID: 50420003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Poor Chromatography	ulmanm	04/20/15 09:44
Pyridine	3.62	Poor Chromatography	ulmanm	04/20/15 09:44
Benzoic acid	7.18	Poor Chromatography	ulmanm	04/20/15 09:44

Lab Sample ID: STD3 240-177011/4 IC Client Sample ID:

Date Analyzed: 04/20/15 09:40 Lab File ID: 50420004.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.07	Poor Chromatography	ulmanm	04/20/15 10:06
2,4-Dinitrophenol	9.02	Poor Chromatography	ulmanm	04/20/15 10:06
Dibenz(a,h)anthracene	16.31	Poor Chromatography	ulmanm	04/20/15 10:06

Lab Sample ID: STD2 240-177011/5 IC Client Sample ID:

Date Analyzed: 04/20/15 10:05 Lab File ID: 50420005.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	3.57	Poor Chromatography	ulmanm	04/20/15 11:55
Pyridine	3.63	Poor Chromatography	ulmanm	04/20/15 11:55
4-Chloroaniline	7.53	Poor Chromatography	ulmanm	04/20/15 11:55
Indeno[1,2,3-cd]pyrene	16.30	Poor Chromatography	ulmanm	04/20/15 11:55
Dibenz(a,h)anthracene	16.31	Poor Chromatography	ulmanm	04/20/15 11:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Analysis Batch Number: 177011

Lab Sample ID: STD1 240-177011/6 IC Client Sample ID:

Date Analyzed: 04/20/15 10:31 Lab File ID: 50420006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	16.30	Poor Chromatography	ulmanm	04/20/15 11:57
Dibenz(a,h)anthracene	16.31	Poor Chromatography	ulmanm	04/20/15 11:57
Benzo[g,h,i]perylene	16.90	Poor Chromatography	ulmanm	04/20/15 11:57

Lab Sample ID: STD9 240-177011/7 IC Client Sample ID:

Date Analyzed: 04/20/15 10:56 Lab File ID: 50420007.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.09	Poor Chromatography	ulmanm	04/20/15 11:59
Benzoic acid	7.26	Poor Chromatography	ulmanm	04/20/15 11:59
Caprolactam	7.84	Poor Chromatography	ulmanm	04/20/15 11:59

Lab Sample ID: STD8 240-177011/8 IC Client Sample ID:

Date Analyzed: 04/20/15 11:22 Lab File ID: 50420008.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.25	Poor Chromatography	ulmanm	04/20/15 12:02
4-Chloroaniline	7.54	Poor Chromatography	ulmanm	04/20/15 12:02
Caprolactam	7.83	Poor Chromatography	ulmanm	04/20/15 12:02

Lab Sample ID: STD7 240-177011/9 IC Client Sample ID:

Date Analyzed: 04/20/15 11:47 Lab File ID: 50420009.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.09	Poor Chromatography	ulmanm	04/20/15 12:14
Caprolactam	7.83	Poor Chromatography	ulmanm	04/20/15 12:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Analysis Batch Number: 177011

Lab Sample ID: STD6 240-177011/10 ICIS Client Sample ID:

Date Analyzed: 04/20/15 12:41 Lab File ID: 50420010.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Poor Chromatography	ulmanm	04/20/15 13:08

Lab Sample ID: ICV 240-177011/11 Client Sample ID:

Date Analyzed: 04/20/15 13:07 Lab File ID: 50420011.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Poor Chromatography	ulmanm	04/20/15 13:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Analysis Batch Number: 177355

Lab Sample ID: CCV 240-177355/2 Client Sample ID:

Date Analyzed: 04/22/15 07:35 Lab File ID: 50422002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	7.80	Poor Chromatography	ulmanm	04/22/15 08:08

Lab Sample ID: MRL 240-177355/3 Client Sample ID:

Date Analyzed: 04/22/15 08:04 Lab File ID: 50422003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.18	Poor Chromatography	ulmanm	04/22/15 08:30

Lab Sample ID: 240-49071-2 Client Sample ID: 079SS-0342M-0001,0002-SO

Date Analyzed: 04/22/15 13:54 Lab File ID: 50422017.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	13.79	Poor Chromatography	ulmanm	04/22/15 14:21
Indeno[1,2,3-cd]pyrene	16.25	Poor Chromatography	ulmanm	04/22/15 14:21

Lab Sample ID: MRL 240-177355/18 Client Sample ID:

Date Analyzed: 04/22/15 14:44 Lab File ID: 50422018.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.20	Poor Chromatography	ulmanm	04/22/15 15:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Analysis Batch Number: 177355

Lab Sample ID: LODV 240-177355/19 Client Sample ID:

Date Analyzed: 04/22/15 15:09 Lab File ID: 50422019.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	16.24	Poor Chromatography	ulmanm	04/23/15 09:11
Dibenz(a,h)anthracene	16.25	Poor Chromatography	ulmanm	04/23/15 09:11
Benzo[g,h,i]perylene	16.84	Poor Chromatography	ulmanm	04/23/15 09:11

Lab Sample ID: LODV 240-177355/20 Client Sample ID:

Date Analyzed: 04/22/15 15:34 Lab File ID: 50422020.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.00	Poor Chromatography	ulmanm	04/23/15 09:14
N-Nitrosodimethylamine	3.50	Poor Chromatography	ulmanm	04/23/15 09:14
Benzyl alcohol	6.46	Poor Chromatography	ulmanm	04/23/15 09:14

Lab Sample ID: LODV 240-177355/21 Client Sample ID:

Date Analyzed: 04/22/15 15:59 Lab File ID: 50422021.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.16	Poor Chromatography	ulmanm	04/23/15 09:31

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/12 IC Client Sample ID:

Date Analyzed: 03/31/15 15:37 Lab File ID: P3033112.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:31

Lab Sample ID: STD 240-174448/12 IC Client Sample ID:

Date Analyzed: 03/31/15 15:37 Lab File ID: P3033112.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:31

Lab Sample ID: STD 240-174448/13 IC Client Sample ID:

Date Analyzed: 03/31/15 16:01 Lab File ID: P3033113.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:31

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/13 IC Client Sample ID:

Date Analyzed: 03/31/15 16:01 Lab File ID: P3033113.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:31
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:31

Lab Sample ID: STD 240-174448/14 ICRT Client Sample ID:

Date Analyzed: 03/31/15 16:24 Lab File ID: P3033114.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	10.81	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: STD 240-174448/14 ICRT Client Sample ID:

Date Analyzed: 03/31/15 16:24 Lab File ID: P3033114.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:32

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/15 IC Client Sample ID:

Date Analyzed: 03/31/15 16:47 Lab File ID: P3033115.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: STD 240-174448/15 IC Client Sample ID:

Date Analyzed: 03/31/15 16:47 Lab File ID: P3033115.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: STD 240-174448/16 IC Client Sample ID:

Date Analyzed: 03/31/15 17:11 Lab File ID: P3033116.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 4	10.81	Baseline Event	matthewsb	04/01/15 08:41
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	04/01/15 08:41

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: STD 240-174448/16 IC Client Sample ID:

Date Analyzed: 03/31/15 17:11 Lab File ID: P3033116.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 2	11.27	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:32
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:32

Lab Sample ID: ICV 240-174448/17 Client Sample ID:

Date Analyzed: 03/31/15 17:34 Lab File ID: P3033117.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	04/01/15 08:40
Toxaphene Peak 5	10.93	Baseline Event	matthewsb	04/01/15 08:40

Lab Sample ID: ICV 240-174448/17 Client Sample ID:

Date Analyzed: 03/31/15 17:34 Lab File ID: P3033117.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.11	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 2	11.28	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 3	11.70	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 4	12.43	Baseline Event	matthewsb	04/01/15 08:42
Toxaphene Peak 5	12.52	Baseline Event	matthewsb	04/01/15 08:42

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 174448

Lab Sample ID: PEM 240-174448/24 Client Sample ID:

Date Analyzed: 03/31/15 20:11 Lab File ID: P3033124.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.18	Baseline Event	matthewsb	04/01/15 08:46

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: CCV 240-177258/8 CCVRT Client Sample ID:

Date Analyzed: 04/21/15 15:32 Lab File ID: P3042108.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/22/15 07:18

Lab Sample ID: CCV 240-177258/8 CCVRT Client Sample ID:

Date Analyzed: 04/21/15 15:32 Lab File ID: P3042108.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/22/15 07:18
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/22/15 07:18

Lab Sample ID: PEM 240-177258/27 Client Sample ID:

Date Analyzed: 04/21/15 22:49 Lab File ID: P3042127.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.05	Baseline Event	matthewsb	04/22/15 07:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: MRL 240-177258/29 Client Sample ID:

Date Analyzed: 04/21/15 23:35 Lab File ID: P3042129.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 07:29
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/22/15 07:29

Lab Sample ID: CCV 240-177258/40 Client Sample ID:

Date Analyzed: 04/22/15 03:48 Lab File ID: P3042140.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
beta-BHC	4.78	Baseline Event	matthewsb	04/22/15 07:35

Lab Sample ID: MRL 240-177258/47 Client Sample ID:

Date Analyzed: 04/22/15 06:25 Lab File ID: P3042147.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/22/15 07:37

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 177258

Lab Sample ID: MRL 240-177258/47 Client Sample ID:

Date Analyzed: 04/22/15 06:25 Lab File ID: P3042147.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/22/15 07:37
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/22/15 07:37

Lab Sample ID: CCV 240-177258/52 Client Sample ID:

Date Analyzed: 04/22/15 08:22 Lab File ID: P3042152.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/22/15 08:57
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/22/15 08:57

Lab Sample ID: CCV 240-177258/52 Client Sample ID:

Date Analyzed: 04/22/15 08:22 Lab File ID: P3042152.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/22/15 08:56
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/22/15 08:56

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 177463

Lab Sample ID: PEM 240-177463/5 Client Sample ID:

Date Analyzed: 04/22/15 16:07 Lab File ID: P3042205.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	8.09	Baseline Event	matthewsb	04/23/15 07:21

Lab Sample ID: CCV 240-177463/6 CCVRT Client Sample ID:

Date Analyzed: 04/22/15 16:30 Lab File ID: P3042206.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.63	Baseline Event	matthewsb	04/23/15 07:22
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/23/15 07:22
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/23/15 07:22
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/23/15 07:22
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/23/15 07:22

Lab Sample ID: MRL 240-177463/17 Client Sample ID:

Date Analyzed: 04/22/15 20:53 Lab File ID: P3042217.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 2	10.09	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 3	10.40	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 5	10.85	Baseline Event	matthewsb	04/23/15 07:30

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 177463

Lab Sample ID: MRL 240-177463/17 Client Sample ID:

Date Analyzed: 04/22/15 20:53 Lab File ID: P3042217.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 2	11.19	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 4	12.36	Baseline Event	matthewsb	04/23/15 07:30
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/23/15 07:30

Lab Sample ID: MRL 240-177463/20 Client Sample ID:

Date Analyzed: 04/22/15 22:04 Lab File ID: P3042220.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/23/15 07:38

Lab Sample ID: MRL 240-177463/20 Client Sample ID:

Date Analyzed: 04/22/15 22:04 Lab File ID: P3042220.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.02	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/23/15 07:38
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/23/15 07:38

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Analysis Batch Number: 177463

Lab Sample ID: CCV 240-177463/22 Client Sample ID:

Date Analyzed: 04/22/15 22:50 Lab File ID: P3042222.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.62	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 2	10.08	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 3	10.39	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 4	10.74	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 5	10.84	Baseline Event	matthewsb	04/23/15 07:39

Lab Sample ID: CCV 240-177463/22 Client Sample ID:

Date Analyzed: 04/22/15 22:50 Lab File ID: P3042222.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	11.03	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 2	11.20	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 3	11.62	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 4	12.35	Baseline Event	matthewsb	04/23/15 07:39
Toxaphene Peak 5	12.44	Baseline Event	matthewsb	04/23/15 07:39

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Analysis Batch Number: 177497

Lab Sample ID: STD01 240-177497/5 IC Client Sample ID:

Date Analyzed: 04/22/15 18:07 Lab File ID: P1200005.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	5.83	Baseline Event	hassl	04/23/15 06:16
PCB-1232 Peak 2	6.43	Baseline Event	hassl	04/23/15 06:16
PCB-1232 Peak 3	7.05	Baseline Event	hassl	04/23/15 06:16
PCB-1232 Peak 4	7.23	Baseline Event	hassl	04/23/15 06:16
PCB-1232 Peak 5	7.51	Baseline Event	hassl	04/23/15 06:16

Lab Sample ID: STD05 240-177497/13 IC Client Sample ID:

Date Analyzed: 04/22/15 20:32 Lab File ID: P1200013.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	4.93	Baseline Event	hassl	04/23/15 06:18
PCB-1242 Peak 2	5.45	Baseline Event	hassl	04/23/15 06:18
PCB-1242 Peak 3	6.10	Baseline Event	hassl	04/23/15 06:18
PCB-1242 Peak 4	6.27	Baseline Event	hassl	04/23/15 06:18
PCB-1242 Peak 5	6.35	Baseline Event	hassl	04/23/15 06:18

Lab Sample ID: ICV 240-177497/39 Client Sample ID:

Date Analyzed: 04/23/15 04:22 Lab File ID: P1200039.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	8.33	Baseline Event	hassl	04/23/15 06:23
PCB-1260 Peak 2	8.68	Baseline Event	hassl	04/23/15 06:23
PCB-1260 Peak 3	9.01	Baseline Event	hassl	04/23/15 06:23
PCB-1260 Peak 4	9.81	Baseline Event	hassl	04/23/15 06:23
PCB-1260 Peak 5	10.14	Baseline Event	hassl	04/23/15 06:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: PDA1 Analysis Batch Number: 70867

Lab Sample ID: STD03 320-70867/5 IC Client Sample ID:

Date Analyzed: 04/10/15 17:35 Lab File ID: 320-0020944-005-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.25	Incomplete Integration	huangyun	04/13/15 10:21

Lab Sample ID: STD02 320-70867/43 IC Client Sample ID:

Date Analyzed: 04/10/15 19:22 Lab File ID: STD02-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.24	Incomplete Integration	huangyun	04/13/15 10:20

Lab Sample ID: LODV 320-70867/12 Client Sample ID:

Date Analyzed: 04/10/15 19:57 Lab File ID: 320-0020944-012-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.26	Incomplete Integration	huangyun	04/13/15 10:36

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: PDA1 Analysis Batch Number: 71845

Lab Sample ID: CCVL 320-71845/3 Client Sample ID:

Date Analyzed: 04/22/15 15:04 Lab File ID: 320-0021236-003-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.15	Wrong Peak	huangyun	04/22/15 15:22

Lab Sample ID: LCS 320-71482/2-A Client Sample ID:

Date Analyzed: 04/22/15 15:57 Lab File ID: 320-0021236-006-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.16	Baseline	huangyun	04/22/15 16:14

Lab Sample ID: CCVL 320-71845/17 Client Sample ID:

Date Analyzed: 04/22/15 19:13 Lab File ID: 320-0021236-017-1.d GC Column: Luna NH2 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroguanidine	4.13	Incomplete Integration	huangyun	04/23/15 09:06

8330 Modified

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: LC10 Analysis Batch Number: 67883

Lab Sample ID: IC 320-67883/4 Client Sample ID:

Date Analyzed: 03/11/15 15:47 Lab File ID: J000007.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.41	Baseline	phant	03/12/15 06:49
2,6-Dinitrotoluene	18.50	Baseline	phant	03/12/15 06:49
2,4-Dinitrotoluene	19.06	Baseline	phant	03/12/15 06:49
2-Nitrotoluene	22.41	Baseline	phant	03/12/15 06:49
4-Nitrotoluene	24.05	Baseline	phant	03/12/15 06:49
3-Nitrotoluene	25.84	Baseline	phant	03/12/15 06:49

Lab Sample ID: IC 320-67883/5 Client Sample ID:

Date Analyzed: 03/11/15 16:31 Lab File ID: J000008.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.41	Baseline	phant	03/12/15 06:31
2-Nitrotoluene	22.44	Baseline	phant	03/12/15 06:31
4-Nitrotoluene	24.07	Baseline	phant	03/12/15 06:31
3-Nitrotoluene	25.84	Baseline	phant	03/12/15 06:31
PETN	28.30	Baseline	phant	03/12/15 06:18

Lab Sample ID: IC 320-67883/6 Client Sample ID:

Date Analyzed: 03/11/15 17:14 Lab File ID: J000009.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.40	Baseline	phant	03/12/15 06:38
2-Nitrotoluene	22.43	Baseline	phant	03/12/15 06:39
4-Nitrotoluene	24.07	Baseline	phant	03/12/15 06:39
3-Nitrotoluene	25.83	Baseline	phant	03/12/15 06:39
PETN	28.33	Baseline	phant	03/12/15 06:17

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: LC10 Analysis Batch Number: 67883

Lab Sample ID: IC 320-67883/7 Client Sample ID:

Date Analyzed: 03/11/15 17:58 Lab File ID: J000010.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.46	Baseline	phant	03/12/15 06:40
4-Nitrotoluene	24.08	Baseline	phant	03/12/15 06:40
3-Nitrotoluene	25.84	Baseline	phant	03/12/15 06:40
PETN	28.31	Baseline	phant	03/12/15 06:17

Lab Sample ID: IC 320-67883/8 Client Sample ID:

Date Analyzed: 03/11/15 18:42 Lab File ID: J000011.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.45	Baseline	phant	03/12/15 06:41
4-Nitrotoluene	24.09	Baseline	phant	03/12/15 06:41
3-Nitrotoluene	25.85	Baseline	phant	03/12/15 06:41
PETN	28.30	Baseline	phant	03/12/15 06:17

Lab Sample ID: IC 320-67883/9 Client Sample ID:

Date Analyzed: 03/11/15 19:25 Lab File ID: J000012.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	22.46	Baseline	phant	03/12/15 06:42
4-Nitrotoluene	24.09	Baseline	phant	03/12/15 06:42
3-Nitrotoluene	25.85	Baseline	phant	03/12/15 06:42
PETN	28.33	Baseline	phant	03/12/15 06:18

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: LC10 Analysis Batch Number: 67883

Lab Sample ID: IC 320-67883/10 Client Sample ID:

Date Analyzed: 03/11/15 20:09 Lab File ID: J000013.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.38	Baseline	phant	03/12/15 06:47
PETN	28.30	Baseline	phant	03/12/15 06:18

Lab Sample ID: ICV 320-67883/12 Client Sample ID:

Date Analyzed: 03/11/15 21:36 Lab File ID: J000015.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	28.31	Baseline	phant	03/12/15 06:43

Lab Sample ID: LODV 320-67883/13 Client Sample ID:

Date Analyzed: 03/11/15 22:20 Lab File ID: J000016.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	12.21	Baseline	phant	03/12/15 06:46
3,5-Dinitroaniline	12.92	Baseline	phant	03/12/15 06:46
Tetryl	13.47	Baseline	phant	03/12/15 06:46
Nitrobenzene	13.94	Baseline	phant	03/12/15 06:46
2,4,6-Trinitrotoluene	15.44	Baseline	phant	03/12/15 06:46
4-Amino-2,6-dinitrotoluene	16.11	Baseline	phant	03/12/15 06:46
3,4-Dinitrotoluene	16.55	Baseline	phant	03/12/15 06:46
2-Amino-4,6-dinitrotoluene	16.95	Baseline	phant	03/12/15 06:46
2,6-Dinitrotoluene	18.51	Baseline	phant	03/12/15 06:46
2,4-Dinitrotoluene	19.10	Baseline	phant	03/12/15 06:46
2-Nitrotoluene	22.47	Baseline	phant	03/12/15 06:46
4-Nitrotoluene	24.08	Baseline	phant	03/12/15 06:46
3-Nitrotoluene	25.88	Baseline	phant	03/12/15 06:46
PETN	28.37	Baseline	phant	03/12/15 06:46

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: LC10 Analysis Batch Number: 71988

Lab Sample ID: CCVL 320-71988/3 Client Sample ID:

Date Analyzed: 04/23/15 16:49 Lab File ID: W000003.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,6-Trinitrotoluene	15.53	Baseline	huangyun	04/23/15 17:37
4-Amino-2,6-dinitrotoluene	16.23	Baseline	huangyun	04/23/15 17:37
3,4-Dinitrotoluene	16.66	Baseline	huangyun	04/23/15 17:37
2-Amino-4,6-dinitrotoluene	17.11	Baseline	huangyun	04/23/15 17:37
2,6-Dinitrotoluene	18.62	Baseline	huangyun	04/23/15 17:37
2,4-Dinitrotoluene	19.23	Baseline	huangyun	04/23/15 17:37
2-Nitrotoluene	22.58	Baseline	huangyun	04/23/15 17:37
4-Nitrotoluene	24.21	Baseline	huangyun	04/23/15 17:37
3-Nitrotoluene	26.01	Baseline	huangyun	04/23/15 17:37

Lab Sample ID: 240-49071-2 MS Client Sample ID: 079SS-0342M-0001,0002-SO MS

Date Analyzed: 04/23/15 20:27 Lab File ID: W000008.D GC Column: Synergi C18 ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-Dinitrotoluene	18.64	Baseline	huangyun	04/24/15 16:59
2,4-Dinitrotoluene	19.21	Baseline	huangyun	04/24/15 16:59
2-Nitrotoluene	22.57	Baseline	huangyun	04/24/15 16:59

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EX10PPMSPK_00016	06/10/16	04/03/15	MEOH, Lot 0000085233	1000 mL	EXPCB1016_00006	2 mL	Aroclor-1016	10 ug/mL
					EXPCB1260_00007	2 mL	Aroclor-1260	10 ug/mL
.EXPCB1016_00006	12/20/23	AccuStandard, Inc., Lot 213121297			(Purchased Reagent)		Aroclor-1016	5000 ug/mL
.EXPCB1260_00007	02/07/23	AccuStandard, Lot B3020274-1A			(Purchased Reagent)		Aroclor-1260	5000 ug/mL
EX2/.2SURRW_00053	06/10/16	03/24/15	MEOH, Lot 0000085233	2000 mL	EXPESTSURR_00001	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EXPESTSURR_00001	05/31/21	Restek, Lot A0108779			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXBenzaldehyd_00019	05/28/15	03/23/15	MEOH, Lot 0000085233	200 mL	SMLIST1 S8_00002	4 mL	Benzaldehyde	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
.SMLIST1 S8_00002	05/28/15	Restek, Lot A0103145			(Purchased Reagent)		Benzaldehyde	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
EXBNASPIKE_00038	07/30/15	03/25/15	MEOH, Lot 0000085233	200 mL	SMLIST1 S1_00004	4 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
					SMLIST1 S2_00008	4 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SMLIST1 S7_00001	4 mL	N-Nitrosodiphenylamine	40 ug/mL
.SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.SMLIST1 S2_00008	07/30/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
EXBNASURR W_00021	06/10/16	03/16/15	MEOH, Lot 85233	2000 mL	SMLIST1 SURR_00003	8 mL	2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
exNPDES spike_00003	06/10/16	03/04/15	MEOH, Lot 82533	200 mL	exNPDES stock_00001	0.1 mL	4,4'-DDD	1 ug/mL
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							alpha-Chlordane	1 ug/mL
							beta-BHC	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							gamma-Chlordane	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
.exNPDES stock_00001	02/28/18	Restek, Lot A0101246			(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
MT1TO1HN03_00946	04/15/15	04/15/15	DIWATER, Lot DI WATER	600 mL	MTTMHNO3_00054	300 mL	Nitric acid	0.5 mL/mL
.MTTMHNO3_00054	04/07/17	Macron/Avantor, Lot 0000104740			(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00995	04/15/15	04/15/15	NA, Lot NA	80 mL	MTTMHCL_00062	60 mL	Hydrogen Chloride	0.75 mL/mL
					MTTMHNO3_00053	20 mL	Nitric acid	0.25 mL/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MTTMHCL_00062	04/02/17	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
.MTTMHNO3_00053	03/24/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTAQUAREGIA_00996	04/15/15	04/15/15	NA, Lot NA	200 mL	MTTMHCL_00062	150 mL	Hydrogen Chloride	0.75 mL/mL
					MTTMHNO3_00054	50 mL	Nitric acid	0.25 mL/mL
.MTTMHCL_00062	04/02/17	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
.MTTMHNO3_00054	04/07/17	Macron/Avantor, Lot 0000104740			(Purchased Reagent)		Nitric acid	100 %
MTH202_00041	05/13/16	Macron, Lot 0000079375			(Purchased Reagent)		Hydrogen Peroxide	30 %
MTHGCALW_00881	04/15/15	04/15/15	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00016	1 mL	Mercury	100 ug/L
					MTTMHNO3_00053	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00016	05/09/17	INORGANIC VENTURES, Lot H2-HG02126			(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00053	03/24/17	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00016	10/07/15	HPS, Lot 1509117			(Purchased Reagent)		Mercury	1 ug/mL
MTICPMS2_00020	02/01/16	Inorganic Ventures, Lot H2-MEB559070			(Purchased Reagent)		Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
MTICPMSA_00021	12/15/15	High Purity Standards, Lot 1434610			(Purchased Reagent)		Arsenic	10 ug/mL
							B	10 ug/mL
							Barium	10 ug/mL
							Beryllium	10 ug/mL
							Cadmium	10 ug/mL
							Chromium	10 ug/mL
							Cobalt	10 ug/mL
							Copper	10 ug/mL
							Lead	10 ug/mL
							Manganese	10 ug/mL
							Nickel	10 ug/mL
							Selenium	10 ug/mL
							Sr	10 ug/mL
							Thallium	10 ug/mL
							Vanadium	10 ug/mL
							Zinc	10 ug/mL
MTICPMSA_00022	02/01/16	Inorganic Ventures, Lot H2-MEB552051			(Purchased Reagent)		Arsenic	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Manganese	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sr	100 ug/mL
							Thallium	25 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL
MTICPMSB_00021	12/15/15	High Purity Standards, Lot 1434611			(Purchased Reagent)		Antimony	10 ug/mL
							Mo	10 ug/mL
							Silver	10 ug/mL
							Sn	10 ug/mL
							Ti	10 ug/mL
							W	10 ug/mL
							Zr	10 ug/mL
MTICPMSB_00022	02/01/16	Inorganic Ventures, Lot H2-MEB559071			(Purchased Reagent)		Antimony	10 ug/mL
							B	10 ug/mL
							Mo	10 ug/mL
							Silver	10 ug/mL
							Sn	100 ug/mL
							Ti	10 ug/mL
							W	10 ug/mL
MTKMN04W_00081	04/07/17	04/07/15	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00022	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00022	02/18/20	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTMSCAL2CCVW_00110	10/01/15	03/10/15	DIWATER, Lot DIWATER	500 mL	MTMSCAL3_00008	5 mL	Aluminum	250 ug/L
							Arsenic	50 ug/L
							Barium	50 ug/L
							Beryllium	50 ug/L
							Cadmium	50 ug/L
							Calcium	25000 ug/L
							Chromium	50 ug/L
							Cobalt	50 ug/L
							Copper	50 ug/L
							Iron	12500 ug/L
							Lead	50 ug/L
							Magnesium	25000 ug/L
							Manganese	250 ug/L
							Nickel	50 ug/L
							Potassium	25000 ug/L
							Selenium	50 ug/L
							Silver	50 ug/L
							Sodium	25000 ug/L
							Thallium	50 ug/L
							Vanadium	50 ug/L
							Zinc	50 ug/L
					MTMSCAL4_00009	5 mL	Antimony	50 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTMSCAL2CCVW_00116	10/01/15	04/09/15	DIWATER, Lot DIWATER	500 mL	MTMSCAL3_00008	5 mL	Aluminum	250 ug/L
							Arsenic	50 ug/L
							Barium	50 ug/L
							Beryllium	50 ug/L
							Cadmium	50 ug/L
							Calcium	25000 ug/L
							Chromium	50 ug/L
							Cobalt	50 ug/L
							Copper	50 ug/L
							Iron	12500 ug/L
							Lead	50 ug/L
							Magnesium	25000 ug/L
							Manganese	250 ug/L
							Nickel	50 ug/L
							Potassium	25000 ug/L
							Selenium	50 ug/L
							Silver	50 ug/L
							Sodium	25000 ug/L
							Thallium	50 ug/L
							Vanadium	50 ug/L
							Zinc	50 ug/L
					MTMSCAL4_00009	5 mL	Antimony	50 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTMSCAL3W_00039	10/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSCAL3_00008	5 mL	Aluminum	500 ug/L
							Arsenic	100 ug/L
							Barium	100 ug/L
							Beryllium	100 ug/L
							Cadmium	100 ug/L
							Calcium	50000 ug/L
							Chromium	100 ug/L
							Cobalt	100 ug/L
							Copper	100 ug/L
							Iron	25000 ug/L
							Lead	100 ug/L
							Magnesium	50000 ug/L
							Manganese	500 ug/L
							Nickel	100 ug/L
							Potassium	50000 ug/L
							Selenium	100 ug/L
							Silver	100 ug/L
							Sodium	50000 ug/L
							Thallium	100 ug/L
							Vanadium	100 ug/L
							Zinc	100 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
MTMSCAL4W_00035	10/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSCAL4_00009	5 mL	Antimony	100 ug/L
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTMSCRI6020AW_00019	05/18/15	03/16/15	DIWATER, Lot DIWATER	500 mL	MS6020ACRIA_00002	0.5 mL	Aluminum	50 ug/L
							Arsenic	5 ug/L
							Barium	5 ug/L
							Beryllium	1 ug/L
							Cadmium	1 ug/L
							Calcium	1000 ug/L
							Chromium	2 ug/L
							Cobalt	1 ug/L
							Copper	2 ug/L
							Iron	100 ug/L
							Lead	1 ug/L
							Magnesium	1000 ug/L
							Manganese	5 ug/L
							Nickel	2 ug/L
							Potassium	1000 ug/L
							Selenium	5 ug/L
							Sodium	1000 ug/L
							Thallium	2 ug/L
							Vanadium	5 ug/L
							Zinc	20 ug/L
					MS6020ACRIB_00002	0.5 mL	Antimony	2 ug/L
					MTAGSPIKEW_00045	0.2 mL	Silver	1 ug/L
.MS6020ACRIA_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537060			(Purchased Reagent)		Aluminum	50 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	1 ug/mL
							Cadmium	1 ug/mL
							Calcium	1000 ug/mL
							Chromium	2 ug/mL
							Cobalt	1 ug/mL
							Copper	2 ug/mL
							Iron	100 ug/mL
							Lead	1 ug/mL
							Magnesium	1000 ug/mL
							Manganese	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nickel	2 ug/mL
							Potassium	1000 ug/mL
							Selenium	5 ug/mL
							Sodium	1000 ug/mL
							Thallium	2 ug/mL
							Vanadium	5 ug/mL
							Zinc	20 ug/mL
.MS6020ACRIB_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537061			(Purchased Reagent)		Antimony	2 ug/mL
.MTAGSPIKEW_00045	05/18/15	11/18/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
..MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
MTMSCRI6020AW_00021	05/18/15	04/20/15	DIWATER, Lot DIWATER	500 mL	MS6020ACRIA_00002	0.5 mL	Aluminum	50 ug/L
							Arsenic	5 ug/L
							Barium	5 ug/L
							Beryllium	1 ug/L
							Cadmium	1 ug/L
							Calcium	1000 ug/L
							Chromium	2 ug/L
							Cobalt	1 ug/L
							Copper	2 ug/L
							Iron	100 ug/L
							Lead	1 ug/L
							Magnesium	1000 ug/L
							Manganese	5 ug/L
							Nickel	2 ug/L
							Potassium	1000 ug/L
							Selenium	5 ug/L
							Sodium	1000 ug/L
							Thallium	2 ug/L
							Vanadium	5 ug/L
							Zinc	20 ug/L
					MS6020ACRIB_00002	0.5 mL	Antimony	2 ug/L
					MTAGSPIKEW_00045	0.2 mL	Silver	1 ug/L
.MS6020ACRIA_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537060			(Purchased Reagent)		Aluminum	50 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	1 ug/mL
							Cadmium	1 ug/mL
							Calcium	1000 ug/mL
							Chromium	2 ug/mL
							Cobalt	1 ug/mL
							Copper	2 ug/mL
							Iron	100 ug/mL
							Lead	1 ug/mL
							Magnesium	1000 ug/mL
							Manganese	5 ug/mL
							Nickel	2 ug/mL
							Potassium	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Selenium	5 ug/mL
							Sodium	1000 ug/mL
							Thallium	2 ug/mL
							Vanadium	5 ug/mL
							Zinc	20 ug/mL
.MS6020ACRIB_00002	08/01/15	Inorganic Ventures, Lot H2-MEB537061			(Purchased Reagent)		Antimony	2 ug/mL
.MTAGSPIKEW_00045	05/18/15	11/18/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
..MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
MTMSICSABW_00043	05/01/15	02/20/15	DIWATER, Lot DIWATER	200 mL	MTMSICSA_00009	10 mL	Aluminum	50000 ug/L
							Calcium	50000 ug/L
							Iron	50000 ug/L
							Magnesium	50000 ug/L
							Mo	1100 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
							Ti	1100 ug/L
					MTMSICSABSOLA_00006	1 mL	Arsenic	100 ug/L
							B	100 ug/L
							Barium	100 ug/L
							Beryllium	100 ug/L
							Cadmium	100 ug/L
							Chromium	100 ug/L
							Cobalt	100 ug/L
							Copper	100 ug/L
							Lead	100 ug/L
							Manganese	100 ug/L
							Nickel	100 ug/L
							Selenium	100 ug/L
							Sr	100 ug/L
							Thallium	100 ug/L
							Vanadium	100 ug/L
							Zinc	100 ug/L
					MTMSICSABSOLB_00006	1 mL	Antimony	100 ug/L
							Mo	1100 ug/L
							Silver	100 ug/L
							Sn	100 ug/L
							Ti	1100 ug/L
							W	100 ug/L
.MTMSICSA_00009	05/01/15	INORGANIC VENTURES, Lot G2-MEB476152MCA			(Purchased Reagent)		Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Mo	20 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
							Ti	20 ug/mL
.MTMSICSABSOLA_00006	02/10/16	HIGH PURITY STANDARDS, Lot 1503726			(Purchased Reagent)		Arsenic	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							B	20 ug/mL
							Barium	20 ug/mL
							Beryllium	20 ug/mL
							Cadmium	20 ug/mL
							Chromium	20 ug/mL
							Cobalt	20 ug/mL
							Copper	20 ug/mL
							Lead	20 ug/mL
							Manganese	20 ug/mL
							Nickel	20 ug/mL
							Selenium	20 ug/mL
							Sr	20 ug/mL
							Thallium	20 ug/mL
							Vanadium	20 ug/mL
							Zinc	20 ug/mL
.MTMSICSABSOLB_00006	02/10/16	HIGH PURITY STANDARDS, Lot 1504002			(Purchased Reagent)		Antimony	20 ug/mL
							Mo	20 ug/mL
							Silver	20 ug/mL
							Sn	20 ug/mL
							Ti	20 ug/mL
							W	20 ug/mL
MTMSICSAW_00044	05/01/15	03/16/15	DIWATER, Lot DIWATER	200 mL	MTMSICSA_00009	10 mL	Aluminum	50000 ug/L
							Calcium	50000 ug/L
							Iron	50000 ug/L
							Magnesium	50000 ug/L
							Mo	1000 ug/L
							Potassium	50000 ug/L
							Sodium	50000 ug/L
							Ti	1000 ug/L
.MTMSICSA_00009	05/01/15	INORGANIC VENTURES, Lot G2-MEB476152MCA			(Purchased Reagent)		Aluminum	1000 ug/mL
							Calcium	1000 ug/mL
							Iron	1000 ug/mL
							Magnesium	1000 ug/mL
							Mo	20 ug/mL
							Potassium	1000 ug/mL
							Sodium	1000 ug/mL
							Ti	20 ug/mL
MTMSICVW_00043	08/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSICVA_00005	2.5 mL	Aluminum	200 ug/L
							Antimony	40 ug/L
							Arsenic	40 ug/L
							Barium	40 ug/L
							Beryllium	40 ug/L
							Cadmium	40 ug/L
							Chromium	40 ug/L
							Cobalt	40 ug/L
							Copper	40 ug/L
							Lead	40 ug/L

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Manganese	200 ug/L
							Nickel	40 ug/L
							Selenium	40 ug/L
							Silver	40 ug/L
							Thallium	40 ug/L
							Vanadium	40 ug/L
							Zinc	40 ug/L
					MTMSICVB_00005	2.5 mL	Calcium	20000 ug/L
							Iron	10000 ug/L
							Magnesium	20000 ug/L
							Potassium	20000 ug/L
							Sodium	20000 ug/L
.MTMSICVA_00005	08/01/15		CPI, Lot 1063211		(Purchased Reagent)		Aluminum	20 mg/L
							Antimony	4 mg/L
							Arsenic	4 mg/L
							Barium	4 mg/L
							Beryllium	4 mg/L
							Cadmium	4 mg/L
							Chromium	4 mg/L
							Cobalt	4 mg/L
							Copper	4 mg/L
							Lead	4 mg/L
							Manganese	20 mg/L
							Nickel	4 mg/L
							Selenium	4 mg/L
							Silver	4 mg/L
							Thallium	4 mg/L
							Vanadium	4 mg/L
							Zinc	4 mg/L
.MTMSICVB_00005	08/01/15		CPI, Lot 1063211		(Purchased Reagent)		Calcium	2000 mg/L
							Iron	1000 mg/L
							Magnesium	2000 mg/L
							Potassium	2000 mg/L
							Sodium	2000 mg/L
MTMSSCAL1_00014	10/01/15	03/11/15	DIWATER, Lot DIWATER	250 mL	MTMSCAL3_00008	0.5 mL	Aluminum	50 ug/L
							Arsenic	10 ug/L
							Barium	10 ug/L
							Beryllium	10 ug/L
							Cadmium	10 ug/L
							Calcium	5000 ug/L
							Chromium	10 ug/L
							Cobalt	10 ug/L
							Copper	10 ug/L
							Iron	2500 ug/L
							Lead	10 ug/L
							Magnesium	5000 ug/L
							Manganese	50 ug/L

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nickel	10 ug/L
							Potassium	5000 ug/L
							Selenium	10 ug/L
							Silver	10 ug/L
							Sodium	5000 ug/L
							Thallium	10 ug/L
							Vanadium	10 ug/L
							Zinc	10 ug/L
					MTMSCAL4_00009	0.5 mL	Antimony	10 ug/L
.MTMSCAL3_00008	10/01/15	INORGANIC VENTURES, Lot H2-MEB544052			(Purchased Reagent)		Aluminum	25 ug/mL
							Arsenic	5 ug/mL
							Barium	5 ug/mL
							Beryllium	5 ug/mL
							Cadmium	5 ug/mL
							Calcium	2500 ug/mL
							Chromium	5 ug/mL
							Cobalt	5 ug/mL
							Copper	5 ug/mL
							Iron	1250 ug/mL
							Lead	5 ug/mL
							Magnesium	2500 ug/mL
							Manganese	25 ug/mL
							Nickel	5 ug/mL
							Potassium	2500 ug/mL
							Selenium	5 ug/mL
							Silver	5 ug/mL
							Sodium	2500 ug/mL
							Thallium	5 ug/mL
							Vanadium	5 ug/mL
							Zinc	5 ug/mL
.MTMSCAL4_00009	10/01/15	INORGANIC VENTURES, Lot H2-MEB544053			(Purchased Reagent)		Antimony	5 ug/mL
MTTMHCL_00062	04/02/17	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
MTTMHNO3_00054	04/07/17	Macron/Avantor, Lot 0000104740			(Purchased Reagent)		Nitric acid	100 %
SG1221ICV@1.0_00004	07/06/15	04/09/15	HEXANE, Lot 0000086560	10 mL	SG1221ICV@10_00002	1 mL	Aroclor-1221	1 ug/mL
.SG1221ICV@10_00002	07/06/15	01/06/15	HEXANE, Lot 0000086560	10 mL	SG1221ICV@100_00001	1 mL	Aroclor-1221	10 ug/mL
..SG1221ICV@100_00001	08/20/15	08/20/14	HEXANE, Lot 0000075731	10 mL	SG 1221 ICV_00007	1 mL	Aroclor-1221	100 ug/mL
...SG 1221 ICV_00007	06/30/19	restek, Lot a094157			(Purchased Reagent)		Aroclor-1221	1000 ug/mL
SG1232ICV@1.0_00005	07/06/15	04/09/15	HEXANE, Lot 0000086560	10 mL	SG1232ICV@10_00003	1 mL	Aroclor-1232	1 ug/mL
.SG1232ICV@10_00003	07/06/15	01/06/15	HEXANE, Lot 0000086560	10 mL	SG1232ICV@100_00002	1 mL	Aroclor-1232	10 ug/mL
..SG1232ICV@100_00002	08/22/15	08/22/14	HEXANE, Lot 0000075731	10 mL	SG 1232 ICV_00007	1 mL	Aroclor-1232	100 ug/mL
...SG 1232 ICV_00007	09/30/19	restek, Lot a095877			(Purchased Reagent)		Aroclor-1232	1000 ug/mL
SG1242ICV@1.0_00004	07/06/15	04/09/15	HEXANE, Lot 0000086560	10 mL	SG1242ICV@10_00003	1 mL	Aroclor-1242	1 ug/mL
.SG1242ICV@10_00003	07/06/15	01/06/15	HEXANE, Lot 0000086560	10 mL	SG1242ICV@100_00001	1 mL	Aroclor-1242	10 ug/mL
..SG1242ICV@100_00001	08/20/15	08/20/14	HEXANE, Lot 0000075731	10 mL	SG 1242 ICV_00006	1 mL	Aroclor-1242	100 ug/mL
...SG 1242 ICV_00006	09/30/19	restek, Lot a095785			(Purchased Reagent)		Aroclor-1242	1000 ug/mL
SG1248@.05ppm_00015	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.1PPM_00012	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.2ppm_00012	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	2 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL
							PCB-1248 Peak 5	0.2 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00015	06/01/15	12/01/14	HEXANE, Lot 00000078259	100 mL	SG1248@10ppm_00006	5 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00017	09/09/15	04/22/15	HEXANE, Lot 00000086560	100 mL	SG1248@10ppm_00006	5 mL	Aroclor-1248	0.5 ug/mL
							PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	Aroclor-1248	10 ug/mL
							PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		Aroclor-1248	1000 ug/mL
							PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@1.0ppm_00010	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	10 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@2.0ppm_00010	09/09/15	03/10/15	HEXANE, Lot 0000086559	100 mL	SG1248@10ppm_00006	20 mL	PCB-1248 Peak 1	2 ug/mL
							PCB-1248 Peak 2	2 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 3	2 ug/mL
							PCB-1248 Peak 4	2 ug/mL
							PCB-1248 Peak 5	2 ug/mL
.SG1248@10ppm_00006	09/09/15	09/09/14	Hexane, Lot 0000078259	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248ICV@1.0_00004	07/06/15	04/09/15	HEXANE, Lot 0000086560	10 mL	SG1248ICV@10_00002	1 mL	Aroclor-1248	1 ug/mL
.SG1248ICV@10_00002	07/06/15	01/06/15	HEXANE, Lot 0000086560	10 mL	SG1248ICV@100_00001	1 mL	Aroclor-1248	10 ug/mL
..SG1248ICV@100_00001	08/20/15	08/20/14	HEXANE, Lot 0000075731	10 mL	SG 1248 ICV_00006	1 mL	Aroclor-1248	100 ug/mL
...SG 1248 ICV_00006	06/30/19		restek, Lot a094339		(Purchased Reagent)		Aroclor-1248	1000 ug/mL
SG1254ICV@1.0_00005	07/06/15	04/09/15	HEXANE, Lot 0000086560	10 mL	SG1254@10_00003	1 mL	Aroclor-1254	1 ug/mL
.SG1254@10_00003	07/06/15	01/06/15	HEXANE, Lot 0000086560	10 mL	SG1254ICV@100_00002	1 mL	Aroclor-1254	10 ug/mL
..SG1254ICV@100_00002	08/22/15	08/22/14	HEXANE, Lot 0000075731	10 mL	SG 1254 ICV_00007	1 mL	Aroclor-1254	100 ug/mL
...SG 1254 ICV_00007	09/30/19		restek, Lot a095778		(Purchased Reagent)		Aroclor-1254	1000 ug/mL
SG1660@.05PPM_00012	07/01/15	01/08/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260_00012	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCGSURRSTK_00005	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00012	08/25/15	08/25/14	HEXANE, Lot 0000075731	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@.05PPM_00012	07/01/15	01/08/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260_00012	0.5 mL	Aroclor-1016	0.05 ug/mL
							Aroclor-1260	0.05 ug/mL
.SG1016/1260_00012	08/25/15	08/25/14	HEXANE, Lot 0000075731	100 mL	SG1016/1260MX_00006	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
SG1660@0.2ppm_00011	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
					SGPCGSURRSTK_00005	0.5 mL	DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00046	07/31/15	04/01/15	HEXANE, Lot 0000086559	200 mL	SG1016/1260_00014	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00014	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00008	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00008	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00047	07/31/15	04/22/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260_00014	5 mL	Aroclor-1016	0.5 ug/mL
							Aroclor-1260	0.5 ug/mL
							PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00005	1.25 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00014	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00008	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00008	04/30/19		Restek, Lot a092844		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.0PPM_00011	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@2.0PPM_00012	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	20 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
					SGPCGSURRSTK_00005	5 mL	DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660ICV@1.0_00006	07/05/15	04/09/15	HEXANE, Lot 0000086560	10 mL	SG1660ICV@10_00004	1 mL	Aroclor-1016	1 ug/mL
							Aroclor-1260	1 ug/mL
.SG1660ICV@10_00004	07/05/15	01/05/15	HEXANE, Lot 0000086560	10 mL	SG1660ICV@100_00002	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
..SG1660ICV@100_00002	08/22/15	08/22/14	HEXANE, Lot 0000075731	10 mL	SG 1660 ICV_00010	1 mL	Aroclor-1016	100 ug/mL
							Aroclor-1260	100 ug/mL
...SG 1660 ICV_00010	06/30/19		restek, Lot a094336		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
SG1660STD@0.1_00012	07/31/15	02/23/15	HEXANE, Lot 86559	100 mL	SG1016/1260_00013	1 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCGSURRSTK_00005	0.25 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SG1016/1260_00013	01/12/16	01/12/15	HEXANE, Lot 0000086560	100 mL	SG1016/1260MX_00006	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00006	04/30/19		Restek, Lot a092844		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG2154@0.05PP_00008	05/22/15	12/22/14	HEXANE, Lot 000078259	100 mL	SG2154@10ppm_00008	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.2PPM_00009	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	2 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00016	05/22/15	12/22/14	HEXANE, Lot 00000078259	100 mL	SG2154@10ppm_00008	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00017	11/22/15	04/22/15	HEXANE, Lot 00000086560	100 mL	SG2154@10ppm_00008	5 mL	Aroclor-1221	0.5 ug/mL
							PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							Aroclor-1254	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	Aroclor-1221	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	Aroclor-1254	10 ug/mL
							PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		Aroclor-1221	1000 ug/mL
							PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		Aroclor-1254	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@1.0PPM_00010	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	10 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@2.0PPM_00009	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	20 mL	PCB-1221 Peak 1	2 ug/mL
							PCB-1221 Peak 2	2 ug/mL
							PCB-1221 Peak 3	2 ug/mL
							PCB-1254 Peak 1	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 2	2 ug/mL
							PCB-1254 Peak 3	2 ug/mL
							PCB-1254 Peak 4	2 ug/mL
							PCB-1254 Peak 5	2 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@O.1PPM_00010	05/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SG2154@10ppm_00008	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.SG2154@10ppm_00008	12/22/15	12/22/14	HEXANE, Lot 0000078259	100 mL	SGPCB1221_00004	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00007	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00004	12/31/18		RESTEK, Lot a090667		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00007	05/30/18		restek, Lot A093609		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG3262@.05PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	0.5 mL	PCB-1232 Peak 1	50 ug/L
							PCB-1232 Peak 2	50 ug/L
							PCB-1232 Peak 3	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 4	50 ug/L
							PCB-1232 Peak 5	50 ug/L
							PCB-1262 Peak 1	50 ug/L
							PCB-1262 Peak 2	50 ug/L
							PCB-1262 Peak 3	50 ug/L
							PCB-1262 Peak 4	50 ug/L
							PCB-1262 Peak 5	50 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@.2PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	2 mL	PCB-1232 Peak 1	200 ug/L
							PCB-1232 Peak 2	200 ug/L
							PCB-1232 Peak 3	200 ug/L
							PCB-1232 Peak 4	200 ug/L
							PCB-1232 Peak 5	200 ug/L
							PCB-1262 Peak 1	200 ug/L
							PCB-1262 Peak 2	200 ug/L
							PCB-1262 Peak 3	200 ug/L
							PCB-1262 Peak 4	200 ug/L
							PCB-1262 Peak 5	200 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@0.1PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	1 mL	PCB-1232 Peak 1	100 ug/L
							PCB-1232 Peak 2	100 ug/L
							PCB-1232 Peak 3	100 ug/L
							PCB-1232 Peak 4	100 ug/L
							PCB-1232 Peak 5	100 ug/L
							PCB-1262 Peak 1	100 ug/L
							PCB-1262 Peak 2	100 ug/L
							PCB-1262 Peak 3	100 ug/L
							PCB-1262 Peak 4	100 ug/L
							PCB-1262 Peak 5	100 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@0.5PPM_00004	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	5 mL	PCB-1232 Peak 1	500 ug/L
							PCB-1232 Peak 2	500 ug/L
							PCB-1232 Peak 3	500 ug/L
							PCB-1232 Peak 4	500 ug/L
							PCB-1232 Peak 5	500 ug/L
							PCB-1262 Peak 1	500 ug/L
							PCB-1262 Peak 2	500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 3	500 ug/L
							PCB-1262 Peak 4	500 ug/L
							PCB-1262 Peak 5	500 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@0.5PPM_00006	07/11/15	04/22/15	HEXANE, Lot 0000086560	100 mL	SG32/6210PPM_00001	5 mL	Aroclor-1232	500 ug/L
							PCB-1232 Peak 1	500 ug/L
							PCB-1232 Peak 2	500 ug/L
							PCB-1232 Peak 3	500 ug/L
							PCB-1232 Peak 4	500 ug/L
							PCB-1232 Peak 5	500 ug/L
							PCB-1262	500 ug/L
							PCB-1262 Peak 1	500 ug/L
							PCB-1262 Peak 2	500 ug/L
							PCB-1262 Peak 3	500 ug/L
							PCB-1262 Peak 4	500 ug/L
							PCB-1262 Peak 5	500 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	Aroclor-1232	10000 ug/L
							PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262	10000 ug/L
							PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		Aroclor-1232	1000 ug/mL
							PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@1.0PPM_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	10 mL	PCB-1232 Peak 1	1000 ug/L
							PCB-1232 Peak 2	1000 ug/L
							PCB-1232 Peak 3	1000 ug/L
							PCB-1232 Peak 4	1000 ug/L
							PCB-1232 Peak 5	1000 ug/L
							PCB-1262 Peak 1	1000 ug/L
							PCB-1262 Peak 2	1000 ug/L
							PCB-1262 Peak 3	1000 ug/L
							PCB-1262 Peak 4	1000 ug/L
							PCB-1262 Peak 5	1000 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG3262@2.0ppm_00002	05/30/15	12/31/14	HEXANE, Lot 0000078259	100 mL	SG32/6210PPM_00001	20 mL	PCB-1232 Peak 1	2000 ug/L
							PCB-1232 Peak 2	2000 ug/L
							PCB-1232 Peak 3	2000 ug/L
							PCB-1232 Peak 4	2000 ug/L
							PCB-1232 Peak 5	2000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 1	2000 ug/L
							PCB-1262 Peak 2	2000 ug/L
							PCB-1262 Peak 3	2000 ug/L
							PCB-1262 Peak 4	2000 ug/L
							PCB-1262 Peak 5	2000 ug/L
.SG32/6210PPM_00001	07/11/15	07/11/14	HEXANE, Lot 1561873	100 mL	SGPCB1232STD_00005	1 mL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10000 ug/L
							PCB-1262 Peak 2	10000 ug/L
							PCB-1262 Peak 3	10000 ug/L
							PCB-1262 Peak 4	10000 ug/L
							PCB-1262 Peak 5	10000 ug/L
..SGPCB1232STD_00005	04/30/18		restek, Lot A086119		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG42/68@1.0PP_00003	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	10 mL	PCB-1242 Peak 1	1000 ug/L
							PCB-1242 Peak 2	1000 ug/L
							PCB-1242 Peak 3	1000 ug/L
							PCB-1242 Peak 4	1000 ug/L
							PCB-1242 Peak 5	1000 ug/L
							PCB-1268 Peak 1	1000 ug/L
							PCB-1268 Peak 2	1000 ug/L
							PCB-1268 Peak 3	1000 ug/L
							PCB-1268 Peak 4	1000 ug/L
							PCB-1268 Peak 5	1000 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@.05PPM_00003	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	0.5 mL	PCB-1242 Peak 1	50 ug/L
							PCB-1242 Peak 2	50 ug/L
							PCB-1242 Peak 3	50 ug/L
							PCB-1242 Peak 4	50 ug/L
							PCB-1242 Peak 5	50 ug/L
							PCB-1268 Peak 1	50 ug/L
							PCB-1268 Peak 2	50 ug/L
							PCB-1268 Peak 3	50 ug/L
							PCB-1268 Peak 4	50 ug/L
							PCB-1268 Peak 5	50 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@.1PPM_00003	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	1 mL	PCB-1242 Peak 1	100 ug/L
							PCB-1242 Peak 2	100 ug/L
							PCB-1242 Peak 3	100 ug/L
							PCB-1242 Peak 4	100 ug/L
							PCB-1242 Peak 5	100 ug/L
							PCB-1268 Peak 1	100 ug/L
							PCB-1268 Peak 2	100 ug/L
							PCB-1268 Peak 3	100 ug/L
							PCB-1268 Peak 4	100 ug/L

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 5	100 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@.2PPM_00002	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	2 mL	PCB-1242 Peak 1	200 ug/L
							PCB-1242 Peak 2	200 ug/L
							PCB-1242 Peak 3	200 ug/L
							PCB-1242 Peak 4	200 ug/L
							PCB-1242 Peak 5	200 ug/L
							PCB-1268 Peak 1	200 ug/L
							PCB-1268 Peak 2	200 ug/L
							PCB-1268 Peak 3	200 ug/L
							PCB-1268 Peak 4	200 ug/L
							PCB-1268 Peak 5	200 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@0.5PPM_00003	06/11/15	12/11/14	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	5 mL	PCB-1242 Peak 1	500 ug/L
							PCB-1242 Peak 2	500 ug/L
							PCB-1242 Peak 3	500 ug/L
							PCB-1242 Peak 4	500 ug/L
							PCB-1242 Peak 5	500 ug/L
							PCB-1268 Peak 1	500 ug/L
							PCB-1268 Peak 2	500 ug/L
							PCB-1268 Peak 3	500 ug/L
							PCB-1268 Peak 4	500 ug/L
							PCB-1268 Peak 5	500 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@0.5PPM_00006	07/11/15	04/22/15	HEXANE, Lot 0000086560	100 mL	SG42/6810PPM_00001	5 mL	Aroclor-1242	500 ug/L
							PCB-1242 Peak 1	500 ug/L
							PCB-1242 Peak 2	500 ug/L
							PCB-1242 Peak 3	500 ug/L
							PCB-1242 Peak 4	500 ug/L
							PCB-1242 Peak 5	500 ug/L
							PCB-1268	500 ug/L
							PCB-1268 Peak 1	500 ug/L
							PCB-1268 Peak 2	500 ug/L
							PCB-1268 Peak 3	500 ug/L
							PCB-1268 Peak 4	500 ug/L
							PCB-1268 Peak 5	500 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	Aroclor-1242	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268	10000 ug/L
							PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		Aroclor-1242	1000 ug/mL
							PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG4268@2.0PPM_00002	07/02/15	01/02/15	HEXANE, Lot 0000078259	100 mL	SG42/6810PPM_00001	20 mL	PCB-1242 Peak 1	2000 ug/L
							PCB-1242 Peak 2	2000 ug/L
							PCB-1242 Peak 3	2000 ug/L
							PCB-1242 Peak 4	2000 ug/L
							PCB-1242 Peak 5	2000 ug/L
							PCB-1268 Peak 1	2000 ug/L
							PCB-1268 Peak 2	2000 ug/L
							PCB-1268 Peak 3	2000 ug/L
							PCB-1268 Peak 4	2000 ug/L
							PCB-1268 Peak 5	2000 ug/L
.SG42/6810PPM_00001	07/11/15	07/11/14	HEXANE, Lot 0000075731	100 mL	SG1242_00005	1 mL	PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					SGpcb1268std_00005	1 mL	PCB-1268 Peak 1	10000 ug/L
							PCB-1268 Peak 2	10000 ug/L
							PCB-1268 Peak 3	10000 ug/L
							PCB-1268 Peak 4	10000 ug/L
							PCB-1268 Peak 5	10000 ug/L
..SG1242_00005	11/30/18		Restek, Lot A090182		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 5	1000 ug/mL
..SGpcb1268std_00005	01/31/19	Restek, Lot a091468			(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SGPestAB1_00011	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	25 uL	4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							alpha-Chlordane	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							gamma-Chlordane	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB2_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	50 uL	4,4'-DDD	0.01 ug/mL
							4,4'-DDE	0.01 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDT	0.01 ug/mL
							Aldrin	0.01 ug/mL
							alpha-BHC	0.01 ug/mL
							alpha-Chlordane	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							delta-BHC	0.01 ug/mL
							Dieldrin	0.01 ug/mL
							Endosulfan I	0.01 ug/mL
							Endosulfan II	0.01 ug/mL
							Endosulfan sulfate	0.01 ug/mL
							Endrin	0.01 ug/mL
							Endrin aldehyde	0.01 ug/mL
							Endrin ketone	0.01 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							gamma-Chlordane	0.01 ug/mL
							Heptachlor	0.01 ug/mL
							Heptachlor epoxide	0.01 ug/mL
							Methoxychlor	0.01 ug/mL
							DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB3_00015	06/29/15	02/18/15	HEXANE, Lot 86560	200 mL	SGPESTABST_00010	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB4_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	250 uL	4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							alpha-Chlordane	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							gamma-Chlordane	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB5_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	500 uL	4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							alpha-Chlordane	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							gamma-Chlordane	0.1 ug/mL
							Heptachlor	0.1 ug/mL
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL
							DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB6_00010	06/29/15	12/30/14	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	1 mL	4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							alpha-Chlordane	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							gamma-Chlordane	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SGPESTABCV_00017	06/01/15	12/01/14	HEXANE, Lot 80387	100 mL	SGPESTABIC_00008	125 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
.SGPESTABIC_00008	06/01/15	12/01/14	HEXANE, Lot 80387	25 mL	SGPESTABIV_00010	0.5 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
..SGPESTABIV_00010	04/30/16	Ultra Scientific, Lot CL-1069			(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							alpha-Chlordane	1000 ug/mL
							beta-BHC	1000 ug/mL
							delta-BHC	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							Endrin ketone	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							gamma-Chlordane	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
							Methoxychlor	1000 ug/mL
SGPESTPEM_00014	07/25/15	01/26/15	HEXANE, Lot 86560	100 mL	SGPESTPEMS_00011	1 mL	4,4'-DDT	0.1 ug/mL
							alpha-BHC	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							Endrin	0.05 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							Methoxychlor	0.25 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTPEMS_00011	12/31/15		Restek, Lot A085642		(Purchased Reagent)		4,4'-DDT	10 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							Endrin	5 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Methoxychlor	25 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
SMLIST1 L1 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1PAH ST_00004	2 uL	1,1'-Biphenyl	0.1 ug/mL
							1-Methylnaphthalene	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Nitrobenzene-d5 (Surr)	0.1 ug/mL
							Terphenyl-d14 (Surr)	0.1 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19		Restek, Lot A0101020		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1PAH ST_00004	05/31/16	01/26/15	MECL2, Lot 0000093871	3 mL	SMLIST1 PAH_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SURR_00003	60 uL	2-Fluorobiphenyl (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 PAH_00004	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L1 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMLIST1PAH ST_00004	2 uL	2,4,6-Tribromophenol (Surr)	0.1 ug/mL
							2-Fluorophenol (Surr)	0.1 ug/mL
							Phenol-d5 (Surr)	0.1 ug/mL
.SMLIST1PAH ST_00004	05/31/16	01/26/15	MECL2, Lot 0000093871	3 mL	SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
SMLIST1 L2 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,3-Dinitrobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	0.5 ug/mL
							1-Methylnaphthalene	0.5 ug/mL
							2,3,4,6-Tetrachlorophenol	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dichlorophenol	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							bis (2-chloroisopropyl) ether	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	0.5 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	0.5 ug/mL
							Terphenyl-d14 (Surr)	0.5 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L3 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							bis (2-chloroisopropyl) ether	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L4 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							bis (2-chloroisopropyl) ether	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L5 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							bis (2-chloroisopropyl) ether	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L6 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L7 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	15 ug/mL
							1,2-Diphenylhydrazine	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,3-Dinitrobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							1-Methylnaphthalene	15 ug/mL
							2,3,4,6-Tetrachlorophenol	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dichlorophenol	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							bis (2-chloroisopropyl) ether	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	15 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol (Surr)	15 ug/mL
							Nitrobenzene-d5 (Surr)	15 ug/mL
							Phenol-d5 (Surr)	15 ug/mL
							Terphenyl-d14 (Surr)	15 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L8 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							bis (2-chloroisopropyl) ether	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 L9 W_00005	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMIS80PPMW_00011	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00005	500 uL	1,1'-Biphenyl	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dinitrobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							1-Methylnaphthalene	25 ug/mL
							2,3,4,6-Tetrachlorophenol	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dichlorophenol	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							bis (2-chloroisopropyl) ether	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							N-Nitrosodiphenylamine	50 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	25 ug/mL
							Benzoic acid	50 ug/mL
							Indene	50 ug/mL
							Atrazine	50 ug/mL
							Benzaldehyde	50 ug/mL
							Caprolactam	50 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Benzidine	50 ug/mL
							2,4,6-Tribromophenol (Surr)	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol (Surr)	25 ug/mL
							Nitrobenzene-d5 (Surr)	25 ug/mL
							Phenol-d5 (Surr)	25 ug/mL
							Terphenyl-d14 (Surr)	25 ug/mL
.SMIS80PPMW_00011	08/31/15	08/14/14	MECL2, Lot 0000073814	25 mL	SMIS R_00005	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00005	01/31/19	Restek, Lot A0101020			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00005	05/31/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 S1_00005	1 mL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dichlorophenol	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S10_00001	1 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SMLIST1 S11_00001	1 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMLIST1 S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SURR_00003	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 S1_00005	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SMLIST1 S11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SMLIST1 S9_00001	07/31/16		Restek, Lot A0108174		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLIST1 SS W_00004	08/31/15	01/26/15	MECL2, Lot 0000093871	2 mL	SMLIST1 SS ST_00004	200 uL	1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							bis (2-chloroisopropyl) ether	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzoic acid	20 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SMLIST1 SS ST_00004	06/30/16	01/26/15	MECL2, Lot 0000093871	10 mL	SMLIST1 SS S1_00004	1 mL	1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SS S9_00001	1 mL	3,3'-Dichlorobenzidine	200 ug/mL
					SMLIST1SS S10_00001	1 mL	Benzoic acid	200 ug/mL
					SMLIST1SS SUR_00002	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
..SMLIST1 SS S1_00004	06/30/16		Restek, Lot A0107697		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SS S9_00001	07/31/16		Restek, Lot A0108170		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
..SMLIST1SS S10_00001	06/30/16		Restek, Lot A0107944		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1SS SUR_00002	09/30/18		Restek, Lot A092712		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
TOX ChemS_00004	08/11/15	02/11/15	HEXANE, Lot 86560	50 mL	TOX ChemServ_00002	0.5 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.TOX ChemServ_00002	11/30/15		ChemService, Lot 2180700		(Purchased Reagent)		Toxaphene	1000 ug/mL
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
Tox Ultra_00008	09/05/15	03/05/15	HEXANE, Lot 86559	50 mL	Tox Ultra_00006	0.5 mL	Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.Tox Ultra_00006	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
Tox Ultra_00008	09/05/15	03/05/15	HEXANE, Lot 86559	50 mL	Tox Ultra_00006	0.5 mL	Toxaphene	10 ug/mL
.Tox Ultra_00006	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene	1000 ug/mL
vm250-IS_00021	03/12/15	09/12/14	MEOH, Lot 134079	100 mL	vmcus8126_00008	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
.vmcus8126_00008	09/30/16		Ultra Scientific, Lot CL-3192		(Purchased Reagent)		1,4-Dichlorobenzene-d4	25000 ug/mL
							Chlorobenzene-d5	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene	25000 ug/mL
VM250-IS_00028	09/13/15	03/13/15	MEOH, Lot 0000085233	100 mL	vmcus8126_00008	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
.vmcus8126_00008	09/30/16	Ultra Scientific, Lot CL-3192			(Purchased Reagent)		1,4-Dichlorobenzene-d4	25000 ug/mL
							Chlorobenzene-d5	25000 ug/mL
							Fluorobenzene	25000 ug/mL
VM250SS_00030	09/17/15	03/17/15	MEOH, Lot +161620000085233JB	50 mL	VM567650_00021	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.VM567650_00021	04/30/19	Restek, Lot A0102817			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM50IS_00048	08/06/15	02/05/15	MEOH, Lot 85233	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00192	03/07/15	02/28/15	MEOH, Lot na	2 mL	vm50ss_stk_00063	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19	Restek, Lot A0102817			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00196	04/08/15	04/01/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19	Restek, Lot A0102817			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50ss_00197	04/16/15	04/09/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00090	03/07/15	02/28/15	MEOH, Lot na	3 mL	VMACROLSTD_00023	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00023	03/31/15	02/28/15	MEOH, Lot 0000085233	20 mL	VM568720_00005	0.25 mL	Acrolein	250 ug/mL
..VM568720_00005	03/31/15		restek, Lot A0107338		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00095	04/14/15	04/07/15	MEOH, Lot na	3 mL	VMACROLSTD_00024	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00024	04/30/15	03/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00084	03/07/15	02/28/15	MEOH, Lot NA	2 mL	VMFASG_00026	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00026	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2000 ug/mL
VMFASGW_00089	04/13/15	04/07/15	MEOH, Lot NA	2 mL	VMFASG_00027	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00027	04/13/15	03/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00090	04/20/15	04/13/15	MEOH, Lot NA	2 mL	VMFASG_00028	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00028	05/13/15	04/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00087	03/04/15	02/25/15	MEOH, Lot n/a	2 mL	VMRFASP_00018	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
.VMRFASP_00018	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00003	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00003	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
VMFASPW_00093	04/11/15	04/07/15	MEOH, Lot n/a	2 mL	VMRFASP_00019	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
.VMRFASP_00019	04/11/15	03/11/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASPW_00094	04/18/15	04/11/15	MEOH, Lot n/a	2 mL	VMRFASP_00020	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
.VMRFASP_00020	05/31/15	04/11/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
VMRGAS_00092	03/07/15	02/28/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00097	04/14/15	04/07/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00114	03/07/15	02/28/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00114	03/07/15	02/28/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,2-Dichloroethene, Total	4000 ug/mL
							Xylenes, Total	4000 ug/mL
VMRPRIMW_00120	04/14/15	04/07/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00120	04/14/15	04/07/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,2-Dichloroethene, Total	4000 ug/mL
							Xylenes, Total	4000 ug/mL
VMRPRIMW_00121	04/20/15	04/13/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00121	04/20/15	04/13/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,2-Dichloroethene, Total	100 ug/mL
							Xylenes, Total	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,2-Dichloroethene, Total	4000 ug/mL
							Xylenes, Total	4000 ug/mL
VMUX8SS_00017	04/27/15	01/27/15	MEOH, Lot 0000085233	100 mL	VMCUS8125_00009	866 uL	1,2-Dichloroethane-d4 (Surr)	216.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	216.5 ug/mL
							Dibromofluoromethane (Surr)	216.5 ug/mL
							Toluene-d8 (Surr)	216.5 ug/mL
.VMCUS8125_00009	09/30/16	Ultra Scientific, Lot CJ-3208			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	25000 ug/mL
							4-Bromofluorobenzene (Surr)	25000 ug/mL
							Dibromofluoromethane (Surr)	25000 ug/mL
							Toluene-d8 (Surr)	25000 ug/mL
VMUX8SS_00018	06/18/15	03/18/15	MEOH, Lot 0000085233	100 mL	VMCUS8125_00009	866 uL	1,2-Dichloroethane-d4 (Surr)	216.5 ug/mL
							4-Bromofluorobenzene (Surr)	216.5 ug/mL
							Dibromofluoromethane (Surr)	216.5 ug/mL
							Toluene-d8 (Surr)	216.5 ug/mL
.VMCUS8125_00009	09/30/16	Ultra Scientific, Lot CJ-3208			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	25000 ug/mL
							4-Bromofluorobenzene (Surr)	25000 ug/mL
							Dibromofluoromethane (Surr)	25000 ug/mL
							Toluene-d8 (Surr)	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HP34DNTSU_00039	09/02/15	03/02/15	Acetonitrile, Lot Acetonitrile_00023	25 mL	HP8330SU_00032	1.25 mL	3,4-Dinitrotoluene	50 ug/mL
.HP8330SU_00032	03/02/16	Restek, Lot A0102330			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
HP8330IC_00028	05/07/15	03/02/15	25% 0.1%HOAc in ACN, Lot 5160-029A	10 mL	HP8330TA_00034	10 uL	1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPNGTA_00035	20 uL	Nitroglycerin	200 ng/mL
					HPPETNTA_00032	20 uL	PETN	200 ng/mL
.HP8330TA_00034	10/13/15	Cerilliant, Lot ER083011-01			(Purchased Reagent)		1,3,5-Trinitrobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							2,4,6-Trinitrotoluene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Amino-4,6-dinitrotoluene	200 ug/mL
							2-Nitrotoluene	200 ug/mL
							3-Nitrotoluene	200 ug/mL
							4-Amino-2,6-dinitrotoluene	200 ug/mL
							4-Nitrotoluene	200 ug/mL
							HMX	200 ug/mL
							Nitrobenzene	200 ug/mL
							RDX	200 ug/mL
							Tetryl	200 ug/mL
.HPNGTA_00035	05/07/15	Accustandard, Lot 212031351-01			(Purchased Reagent)		Nitroglycerin	100 ug/mL
.HPPETNTA_00032	03/01/16	Accustandard, Lot 211081055-02			(Purchased Reagent)		PETN	0.1 mg/mL
HP8330ICL_00019	04/18/15	10/18/14	25:75 HOAc/ACN, Lot 5160-001B	50 mL	HP34DNTSU_00035	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00046	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00024	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HP8330ICL_00025	10/20/15	04/23/15	25:75 HOAc/ACN, Lot 5160-041E	50 mL	HP34DNTSU_00041	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00052	5 uL	1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPNGPETNSP_00029	20 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
.HP34DNTSU_00041	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00052	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00029	10/21/15	04/21/15	Methanol, Lot 90285	10 mL	HPNGTA_00036	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00033	500 uL	PETN	50 ug/mL
..HPNGTA_00036	04/20/16		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00033	04/20/16		Restek, Lot A0106847		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L1_00021	04/18/15	02/13/15	25% 0.1%HoAC in ACN, Lot 5160-23B	50 mL	HP34DNTSU_00035	5 uL	3,4-Dinitrotoluene	5 ng/mL
					HP8330SP_00046	5 uL	3,5-Dinitroaniline	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trinitrobenzene	5 ng/mL
							1,3-Dinitrobenzene	5 ng/mL
							2,4,6-Trinitrotoluene	5 ng/mL
							2,4-Dinitrotoluene	5 ng/mL
							2,6-Dinitrotoluene	5 ng/mL
							2-Amino-4,6-dinitrotoluene	5 ng/mL
							2-Nitrotoluene	5 ng/mL
							3-Nitrotoluene	5 ng/mL
							4-Amino-2,6-dinitrotoluene	5 ng/mL
							4-Nitrotoluene	5 ng/mL
							HMX	5 ng/mL
							Nitrobenzene	5 ng/mL
							RDX	5 ng/mL
							Tetryl	5 ng/mL
					HPEGDNSP_00019	5 uL	Ethylene glycol dinitrate	5 ng/mL
					HPNGPETNSP_00024	5 uL	Nitroglycerin	5 ng/mL
					HPPASP_00022	10 uL	2,4,6-Trinitrophenol	10 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L2_00015	04/18/15	03/02/15	25% 0.1%HoAC in ACN, Lot 5160-023E	50 mL	HP34DNTSU_00035	10 uL	3,4-Dinitrotoluene	10 ng/mL
					HP8330SP_00046	10 uL	3,5-Dinitroaniline	10 ng/mL
							1,3,5-Trinitrobenzene	10 ng/mL
							1,3-Dinitrobenzene	10 ng/mL
							2,4,6-Trinitrotoluene	10 ng/mL
							2,4-Dinitrotoluene	10 ng/mL
							2,6-Dinitrotoluene	10 ng/mL
							2-Amino-4,6-dinitrotoluene	10 ng/mL
							2-Nitrotoluene	10 ng/mL
							3-Nitrotoluene	10 ng/mL
							4-Amino-2,6-dinitrotoluene	10 ng/mL
							4-Nitrotoluene	10 ng/mL
							HMX	10 ng/mL
							Nitrobenzene	10 ng/mL
							RDX	10 ng/mL
							Tetryl	10 ng/mL
					HPEGDNSP_00019	10 uL	Ethylene glycol dinitrate	10 ng/mL
					HPNGPETNSP_00024	10 uL	Nitroglycerin	10 ng/mL
							PETN	10 ng/mL
					HPPASP_00022	20 uL	2,4,6-Trinitrophenol	20 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L3_00016	04/18/15	03/11/15	25% 0.1%HoAC in ACN, Lot 5160-029A	25 mL	HP34DNTSU_00035	10 uL	3,4-Dinitrotoluene	20 ng/mL
					HP8330SP_00046	10 uL	3,5-Dinitroaniline	20 ng/mL
							1,3,5-Trinitrobenzene	20 ng/mL
							1,3-Dinitrobenzene	20 ng/mL
							2,4,6-Trinitrotoluene	20 ng/mL
							2,4-Dinitrotoluene	20 ng/mL
							2,6-Dinitrotoluene	20 ng/mL
							2-Amino-4,6-dinitrotoluene	20 ng/mL
							2-Nitrotoluene	20 ng/mL
							3-Nitrotoluene	20 ng/mL
							4-Amino-2,6-dinitrotoluene	20 ng/mL
							4-Nitrotoluene	20 ng/mL
							HMX	20 ng/mL
							Nitrobenzene	20 ng/mL
							RDX	20 ng/mL
							Tetryl	20 ng/mL
					HPEGDNSP_00019	10 uL	Ethylene glycol dinitrate	20 ng/mL
					HPNGPETNSP_00024	10 uL	Nitroglycerin	20 ng/mL
							PETN	20 ng/mL
					HPPASP_00022	25 uL	2,4,6-Trinitrophenol	50 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L4_00024	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	200 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	50 ng/mL
					HP8330SP_00046	200 uL	3,5-Dinitroaniline	50 ng/mL
							1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPEGDNSP_00019	200 uL	Ethylene glycol dinitrate	50 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
					HPPASP_00022	400 uL	2,4,6-Trinitrophenol	100 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L4_00026	10/20/15	04/20/15	25% 0.1%HoAC in ACN, Lot 5160-029A	200 mL	HP34DNTSU_00041	200 uL	3,4-Dinitrotoluene	50 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HP8330SP_00052	200 uL	1,3,5-Trinitrobenzene	50 ng/mL
							1,3-Dinitrobenzene	50 ng/mL
							2,4,6-Trinitrotoluene	50 ng/mL
							2,4-Dinitrotoluene	50 ng/mL
							2,6-Dinitrotoluene	50 ng/mL
							2-Amino-4,6-dinitrotoluene	50 ng/mL
							2-Nitrotoluene	50 ng/mL
							3-Nitrotoluene	50 ng/mL
							4-Amino-2,6-dinitrotoluene	50 ng/mL
							4-Nitrotoluene	50 ng/mL
							HMX	50 ng/mL
							Nitrobenzene	50 ng/mL
							RDX	50 ng/mL
							Tetryl	50 ng/mL
					HPNGPETNSP_00028	200 uL	Nitroglycerin	50 ng/mL
							PETN	50 ng/mL
.HP34DNTSU_00041	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00052	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00028	10/20/15	04/20/15	Methanol, Lot 90285	10 mL	HPNGTA_00036	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00033	500 uL	PETN	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..HPNGTA_00036	04/20/16	Restek, Lot A096573			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00033	04/20/16	Restek, Lot A0106847			(Purchased Reagent)		PETN	1000 ug/mL
HP8330L5_00033	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	100 mL	HP34DNTSU_00035	200 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00046	200 uL	3,5-Dinitroaniline	100 ng/mL
							1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPEGDNSP_00019	200 uL	Ethylene glycol dinitrate	100 ng/mL
					HPNGPETNSP_00024	200 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
					HPPASP_00022	400 uL	2,4,6-Trinitrophenol	200 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15	Restek, Lot A095548			(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15	Restek, Lot A0101716			(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15	Restek, Lot A0102389			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L5_00035	10/20/15	04/21/15	25% 0.1%HoAC in ACN, Lot 5160-029A	50 mL	HP34DNTSU_00041	100 uL	3,4-Dinitrotoluene	100 ng/mL
					HP8330SP_00052	100 uL	1,3,5-Trinitrobenzene	100 ng/mL
							1,3-Dinitrobenzene	100 ng/mL
							2,4,6-Trinitrotoluene	100 ng/mL
							2,4-Dinitrotoluene	100 ng/mL
							2,6-Dinitrotoluene	100 ng/mL
							2-Amino-4,6-dinitrotoluene	100 ng/mL
							2-Nitrotoluene	100 ng/mL
							3-Nitrotoluene	100 ng/mL
							4-Amino-2,6-dinitrotoluene	100 ng/mL
							4-Nitrotoluene	100 ng/mL
							HMX	100 ng/mL
							Nitrobenzene	100 ng/mL
							RDX	100 ng/mL
							Tetryl	100 ng/mL
					HPNGPETNSP_00028	100 uL	Nitroglycerin	100 ng/mL
							PETN	100 ng/mL
.HP34DNTSU_00041	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00052	10/20/15	04/20/15	Acetonitrile, Lot 91053	10 mL	HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	50 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPNGPETNSP_00028	10/20/15	04/20/15	Methanol, Lot 90285	10 mL	HPNGTA_00036	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00033	500 uL	PETN	50 ug/mL
..HPNGTA_00036	04/20/16		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00033	04/20/16		Restek, Lot A0106847		(Purchased Reagent)		PETN	1000 ug/mL
HP8330L6_00027	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	25 mL	HP34DNTSU_00035	100 uL	3,4-Dinitrotoluene	200 ng/mL
					HP8330SP_00046	100 uL	3,5-Dinitroaniline	200 ng/mL
							1,3,5-Trinitrobenzene	200 ng/mL
							1,3-Dinitrobenzene	200 ng/mL
							2,4,6-Trinitrotoluene	200 ng/mL
							2,4-Dinitrotoluene	200 ng/mL
							2,6-Dinitrotoluene	200 ng/mL
							2-Amino-4,6-dinitrotoluene	200 ng/mL
							2-Nitrotoluene	200 ng/mL
							3-Nitrotoluene	200 ng/mL
							4-Amino-2,6-dinitrotoluene	200 ng/mL
							4-Nitrotoluene	200 ng/mL
							HMX	200 ng/mL
							Nitrobenzene	200 ng/mL
							RDX	200 ng/mL
							Tetryl	200 ng/mL
					HPEGDNSP_00019	100 uL	Ethylene glycol dinitrate	200 ng/mL
					HPNGPETNSP_00024	100 uL	Nitroglycerin	200 ng/mL
							PETN	200 ng/mL
					HPPASP_00022	250 uL	2,4,6-Trinitrophenol	500 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330L7_00018	04/18/15	02/07/15	25% 0.1%HoAC in ACN, Lot 5160-023E	25 mL	HP34DNTSU_00035	250 uL	3,4-Dinitrotoluene	500 ng/mL
					HP8330SP_00046	250 uL	3,5-Dinitroaniline	500 ng/mL
							1,3,5-Trinitrobenzene	500 ng/mL
							1,3-Dinitrobenzene	500 ng/mL
							2,4,6-Trinitrotoluene	500 ng/mL
							2,4-Dinitrotoluene	500 ng/mL
							2,6-Dinitrotoluene	500 ng/mL
							2-Amino-4,6-dinitrotoluene	500 ng/mL
							2-Nitrotoluene	500 ng/mL
							3-Nitrotoluene	500 ng/mL
							4-Amino-2,6-dinitrotoluene	500 ng/mL
							4-Nitrotoluene	500 ng/mL
							HMX	500 ng/mL
							Nitrobenzene	500 ng/mL
							RDX	500 ng/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	500 ng/mL
					HPEGDNSP_00019	250 uL	Ethylene glycol dinitrate	500 ng/mL
					HPNGPETNSP_00024	250 uL	Nitroglycerin	500 ng/mL
							PETN	500 ng/mL
					HPPASP_00022	500 uL	2,4,6-Trinitrophenol	1000 ng/mL
.HP34DNTSU_00035	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP8330SU_00029	500 uL	3,4-Dinitrotoluene	50 ug/mL
..HP8330SU_00029	11/18/15		Restek, Lot A095548		(Purchased Reagent)		3,4-Dinitrotoluene	1000 ug/mL
.HP8330SP_00046	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HP35DNATA_00031	500 uL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00033	500 uL	1,3,5-Trinitrobenzene	50 ug/mL
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
..HP35DNATA_00031	11/18/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
..HP8330TA_00033	11/18/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
.HPEGDNSP_00019	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPEGDNTA_00016	500 uL	Ethylene glycol dinitrate	50 ug/mL
..HPEGDNTA_00016	11/18/15		Restek, Lot A097821		(Purchased Reagent)		Ethylene glycol dinitrate	1000 ug/mL
.HPNGPETNSP_00024	04/18/15	11/18/14	Methanol, Lot 80908	10 mL	HPNGTA_00034	500 uL	Nitroglycerin	50 ug/mL
					HPPETNTA_00031	500 uL	PETN	50 ug/mL
..HPNGTA_00034	11/18/15		Restek, Lot A096573		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
..HPPETNTA_00031	11/18/15		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
.HPPASP_00022	04/18/15	11/18/14	Acetonitrile, Lot 69312	10 mL	HPPATA_00020	500 uL	2,4,6-Trinitrophenol	50 ug/mL
..HPPATA_00020	11/18/15		restek, Lot A0101731		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
HP8330SP_00051	09/11/15	03/11/15	Acetonitrile, Lot Acetonitrile_00024	10 mL	HP35DNATA_00030	0.5 mL	3,5-Dinitroaniline	50 ug/mL
					HP8330TA_00032	0.5 mL	1,3,5-Trinitrobenzene	50 ug/mL

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	50 ug/mL
							2,4,6-Trinitrotoluene	50 ug/mL
							2,4-Dinitrotoluene	50 ug/mL
							2,6-Dinitrotoluene	50 ug/mL
							2-Amino-4,6-dinitrotoluene	50 ug/mL
							2-Nitrotoluene	50 ug/mL
							3-Nitrotoluene	50 ug/mL
							4-Amino-2,6-dinitrotoluene	50 ug/mL
							4-Nitrotoluene	50 ug/mL
							HMX	50 ug/mL
							Nitrobenzene	50 ug/mL
							RDX	50 ug/mL
							Tetryl	50 ug/mL
.HP35DNATA_00030	11/17/15		Restek, Lot A0101716		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.HP8330TA_00032	11/17/15		Restek, Lot A0102389		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
HPNCSP_00013	07/14/15	01/14/15	Acetone, Lot 0000090987	200 mL	HPNCTA_00005	0.1014 g	Nitrocellulose	507 ug/mL
.HPNCTA_00005	11/01/17		Theater Affects, Lot 4721		(Purchased Reagent)		Nitrocellulose	1 g/g
HPNGPETNSP_00026	07/29/15	01/29/15	Methanol, Lot Methanol_00025	25 mL	HPNGTA_00033	1.25 mL	Nitroglycerin	50 ug/mL
					HPPETNTA_00030	1.25 mL	PETN	50 ug/mL
.HPNGTA_00033	01/29/16		Restek, Lot A0105695		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.HPPETNTA_00030	01/29/16		Restek, Lot AO98102		(Purchased Reagent)		PETN	1000 ug/mL
HPNQIC_00007	07/03/15	04/10/15	Water, Lot M04102015	50 mL	HPNQTA_00017	250 uL	Nitroguanidine	500 ng/mL
.HPNQTA_00017	07/03/15		AccuStandard, Inc, Lot 213071053		(Purchased Reagent)		Nitroguanidine	100 ug/mL
HPNQL2_00008	04/27/15	11/19/14	Water, Lot M11172014	50 mL	HPNQSP_00016	20 uL	Nitroguanidine	20 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL3_00007	04/27/15	11/19/14	Water, Lot M11172014	25 mL	HPNQSP_00016	25 uL	Nitroguanidine	50 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL4_00009	04/27/15	10/28/14	Water, Lot M10272014	50 mL	HPNQSP_00016	100 uL	Nitroguanidine	100 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL5_00008	04/27/15	10/27/14	Water, Lot M10272014	50 mL	HPNQSP_00016	200 uL	Nitroguanidine	200 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL6_00007	04/27/15	11/19/14	Water, Lot M11172014	25 mL	HPNQSP_00016	250 uL	Nitroguanidine	500 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQL7_00007	04/27/15	11/19/14	Water, Lot M11192014	25 mL	HPNQSP_00016	500 uL	Nitroguanidine	1000 ng/mL
.HPNQSP_00016	04/27/15	10/27/14	Methanol, Lot 0000042259	5 mL	HPNQTA_00016	250 uL	Nitroguanidine	50 ug/mL
..HPNQTA_00016	09/30/15		Restek, Lot A076817		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
HPNQSP_00018	10/20/15	04/20/15	Methanol, Lot 420099	10 mL	HPNQTA_00019	0.5 mL	Nitroguanidine	50 ug/mL
.HPNQTA_00019	04/20/16		Restek, Lot A0100497		(Purchased Reagent)		Nitroguanidine	1000 ug/mL
WC-353.2-ICV_00046	05/06/15	04/06/15	DI Water, Lot xxxxxxx	100 mL	WC-N02-1000_00052	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.33333 mg/L as N
					WC-N03-1000_00028	0.05 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.33333 mg/L as N
.WC-N02-1000_00052	05/25/15		CPI International, Lot 1064466		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N
.WC-N03-1000_00028	08/12/15		CPI, Lot 1070689		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N
WC-353.2-L1_00051	05/06/15	04/06/15	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00049	0.05 mL	Nitrocellulose	0.416667 mg/L as N
.WC-353.2-INT_00049	05/06/15	04/06/15	DI Water, Lot xxxxxxx	10 mL	WC-N02SS50223_00002	0.5 mL	Nitrocellulose	833.333 mg/L as N
					WC-N03SS50223_00002	0.5 mL	Nitrocellulose	833.333 mg/L as N
..WC-N02SS50223_00002	08/23/15		ERA, Lot 070414		(Purchased Reagent)		Nitrocellulose	8333.33 mg/L as N
..WC-N03SS50223_00002	08/23/15		ERA, Lot 320614		(Purchased Reagent)		Nitrocellulose	8333.33 mg/L as N
WC-353.2-L4_00042	05/06/15	04/06/15	DI Water, Lot xxxx	100 mL	WC-353.2-INT_00049	1 mL	Nitrate Nitrite as N	1 mg/L as N
							Nitrocellulose	8.33333 mg/L as N
.WC-353.2-INT_00049	05/06/15	04/06/15	DI Water, Lot xxxxxxx	10 mL	WC-N02SS50223_00002	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	833.333 mg/L as N

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					WC-N03SS50223_00002	0.5 mL	Nitrate Nitrite as N	100 mg/L as N
							Nitrocellulose	833.333 mg/L as N
..WC-N02SS50223_00002	08/23/15	ERA, Lot 070414			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N
..WC-N03SS50223_00002	08/23/15	ERA, Lot 320614			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L as N
							Nitrocellulose	8333.33 mg/L as N

Reagent

exNPDES stock_00001

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32415 Lot No.: A0101246

Description : Organochlorine Pesticide Mix AB #3

Organochlorine Pesticide Mix AB #3 2,000 µg/mL, Hexane/Toluene (50:50), 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : February 28, 2018 Storage: 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	alpha-BHC		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 319-84-6	(Lot 27275-15)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
2	gamma-BHC (Lindane)		2,002.0 µg/mL		+/- 11.7489	µg/mL	Gravimetric
	CAS # 58-89-9	(Lot 2038100)			+/- 78.3137	µg/mL	Unstressed
	Purity 99%				+/- 124.2763	µg/mL	Stressed
3	beta-BHC		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 319-85-7	(Lot ER031313-01)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
4	delta-BHC		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 319-86-8	(Lot ER030911-01)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
5	Heptachlor		2,000.2 µg/mL		+/- 11.7382	µg/mL	Gravimetric
	CAS # 76-44-8	(Lot RM03111)			+/- 78.2425	µg/mL	Unstressed
	Purity 98%				+/- 124.1633	µg/mL	Stressed
6	Aldrin		2,001.0 µg/mL		+/- 11.7430	µg/mL	Gravimetric
	CAS # 309-00-2	(Lot 1949600)			+/- 78.2746	µg/mL	Unstressed
	Purity 99%				+/- 124.2142	µg/mL	Stressed
7	Heptachlor epoxide (isomer B)		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 1024-57-3	(Lot 34750-73)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed
8	trans-Chlordane		2,000.0 µg/mL		+/- 11.7371	µg/mL	Gravimetric
	CAS # 5103-74-2	(Lot ER061906-04)			+/- 78.2355	µg/mL	Unstressed
	Purity 99%				+/- 124.1521	µg/mL	Stressed

9	cis-Chlordane CAS # 5103-71-9 Purity 99%	(Lot ER062410-01)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	4,4'-DDE CAS # 72-55-9 Purity 99%	(Lot ER011106-01)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Endosulfan I CAS # 959-98-8 Purity 98%	(Lot ER012105-02)	2,001.2	µg/mL	+/- 11.7439 +/- 78.2809 +/- 124.2241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Dieldrin CAS # 60-57-1 Purity 98%	(Lot ER030105-03)	1,999.2	µg/mL	+/- 11.7324 +/- 78.2042 +/- 124.1025	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Endrin CAS # 72-20-8 Purity 99%	(Lot 461-108A)	2,001.0	µg/mL	+/- 11.7430 +/- 78.2746 +/- 124.2142	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4,4'-DDD CAS # 72-54-8 Purity 97%	(Lot ER061207-01)	2,002.1	µg/mL	+/- 11.7493 +/- 78.3169 +/- 124.2813	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Endosulfan II CAS # 33213-65-9 Purity 99%	(Lot ER102407-02)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	4,4'-DDT CAS # 50-29-3 Purity 98%	(Lot ER012306-03)	2,000.2	µg/mL	+/- 11.7382 +/- 78.2425 +/- 124.1633	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Endrin aldehyde CAS # 7421-93-4 Purity 98%	(Lot ER082306-01)	1,999.2	µg/mL	+/- 11.7324 +/- 78.2042 +/- 124.1025	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Methoxychlor CAS # 72-43-5 Purity 99%	(Lot 1977500)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Endosulfan sulfate CAS # 1031-07-8 Purity 99%	(Lot ER042406-04)	2,000.0	µg/mL	+/- 11.7371 +/- 78.2355 +/- 124.1521	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Endrin ketone CAS # 53494-70-5 Purity 98%	(Lot ER062806-01)	2,005.1	µg/mL	+/- 11.7669 +/- 78.4342 +/- 124.4675	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Reagent

MS6020ACRIA_00002

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICPMS-6020A-CRI-A
Lot Number:	H2-MEB537060
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Ca, K, Mg, Na, 100 µg/mL ea: Fe, 50 µg/mL ea: Al, 20 µg/mL ea: B, Zn, 10 µg/mL ea: Sr, 5 µg/mL ea: As, Ba, Mn, Se, V, 2 µg/mL ea: Cr3, Cu, Ni, Tl, 1 µg/mL ea: Be, Cd, Co, Pb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	50.02 ± 0.30 µg/mL	Arsenic, As	5.001 ± 0.032 µg/mL	Barium, Ba	5.001 ± 0.032 µg/mL
Beryllium, Be	1.000 ± 0.007 µg/mL	Boron, B	20.00 ± 0.13 µg/mL	Cadmium, Cd	0.999 ± 0.008 µg/mL
Calcium, Ca	1,000 ± 6 µg/mL	Chromium+3, Cr3	2.000 ± 0.012 µg/mL	Cobalt, Co	0.999 ± 0.008 µg/mL
Copper, Cu	2.001 ± 0.013 µg/mL	Iron, Fe	100.0 ± 0.5 µg/mL	Lead, Pb	1.000 ± 0.006 µg/mL
Magnesium, Mg	1,000 ± 5 µg/mL	Manganese, Mn	5.000 ± 0.029 µg/mL	Nickel, Ni	2.000 ± 0.012 µg/mL
Potassium, K	1,001 ± 4 µg/mL	Selenium, Se	5.000 ± 0.029 µg/mL	Sodium, Na	999 ± 4 µg/mL
Strontium, Sr	10.00 ± 0.06 µg/mL	Thallium, Tl	2.001 ± 0.013 µg/mL	Vanadium, V	5.000 ± 0.032 µg/mL
Zinc, Zn	20.02 ± 0.11 µg/mL				

Certified Density: 1.036 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 14, 2014

11.2 Expiration Date

EXPIRES
1 Aug 2015

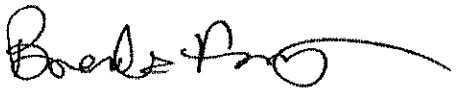
11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

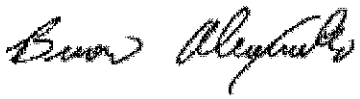
Certificate Prepared By:

Brenda Francis
Product Documentation Technician



Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MS6020ACRIB_00002

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 - USA
inorganicventures.com

tel: 800.669.6799 - 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICPMS-6020A-CRI-B
Lot Number:	H2-MEB537061
Matrix:	5% (v/v) HNO3 tr HF
Value / Analyte(s):	10 µg/mL ea: Mo, Sn, Ti, W, 2 µg/mL ea: Sb

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	2.001 ± 0.013 µg/mL	Molybdenum, Mo	10.00 ± 0.06 µg/mL	Tin, Sn	10.00 ± 0.06 µg/mL
Titanium, Ti	10.00 ± 0.07 µg/mL	Tungsten, W	10.00 ± 0.06 µg/mL		

Certified Density: 1.023 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808
W	Calculated		See Sec. 4.2
W	ICP Assay	3163	060331

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 14, 2014

11.2 Expiration Date

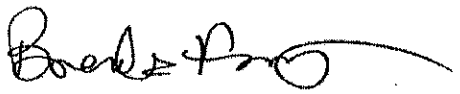
11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

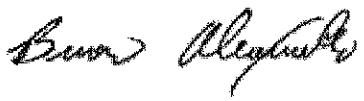
Certificate Prepared By:

Brenda Francis
Product Documentation Technician



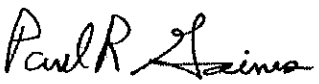
Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director



Reagent

MTAG_00005

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	Silver	Source Material:	Silver metal
Part Number:	**100051-1**	Material Purity:	99.999%
Lot Number:	**1401302**	Matrix:	2% (v/v) HNO_3

Certified Value: 1000 µg/mL ± 3 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3151 (lot number 992212) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Density: 1.008 g/mL ± 0.002 g/mL @ 21.6°C

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot at 1000 µg/mL via ICP analysis. The values are reported in µg/L.

Ag		M	Cu	<	0.1	Li	<	0.5	Rb	<	0.02	Th	<	0.02
Al	<	0.1	Dy	<	0.02	Lu	<	0.02	Re	<	0.02	Ti	<	0.02
As	<	0.05	Er	<	0.02	Mg	<	0.5	Rh	<	0.02	Tl	<	0.02
Au	<	0.02	Eu	<	0.02	Mn	<	0.1	Ru	<	0.02	Tm	<	0.02
B	<	1	Fe	<	1	Mo	<	0.02	Sb	<	0.02	U	<	0.1
Ba	<	0.02	Ga	<	0.02	Na	<	3	Sc	<	0.02	V	<	0.05
Be	<	0.02	Gd	<	0.02	Nb	<	0.02	Se	<	0.1	W	<	0.02
Bi	<	0.02	Ge	<	0.02	Nd	<	0.02	Si	<	50	Y	<	0.02
Ca	<	1	Hf	<	0.02	Ni	<	0.1	Sm	<	0.02	Yb	<	0.02
Cd	<	0.02	Ho	<	0.02	Os	<	0.02	Sn	<	1	Zn	<	1
Ce	<	0.02	In	<	0.02	Pb	<	0.05	Sr	<	0.02	Zr	<	0.02
Co	<	1	Ir	<	0.02	Pd	<	0.1	Ta	<	0.02			
Cr	<	0.1	K	<	1	Pr	<	0.02	Tb	<	0.02			
Cs	<	6	La	<	0.02	Pt	<	0.02	Te	<	0.02			

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of silver, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
   The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
b. **Volumetric Device**
   The calibration of volumetric vessels is checked annually using the ASTM method E542.
c. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
d. **Calibration Standards:**
   The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**January 13, 2014**
Shipped Date:	**6/27/14**
Expiration Date:	**12/27/15**
Certificate Issue Date:	**February 28, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Certificate Revision History: Rev No.: **5.2.1** –modified uncertainty. Rev No.: **5.2.0** – Original Certificate.

Reagent

MTHGCAL_00016

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 • USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 • 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHGN-10PPM
Lot Number:	H2-HG02126
Matrix:	10% (v/v) HNO3
Value/Analyte(s):	10 µg/mL Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1780
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.009 ± 0.077 µg/mL

Certified Density: 1.050 g/mL (measured at 20 ± 1 °C)

Assay Information:

Assay Method #1

ICP Assay NIST SRM 3133 Lot Number: 061204

Assay Method #2

EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two Methods

Certified Value, $X_{CRM/RM}$, where two methods of characterization are used is the weighted mean of the two results:

$X_{CRM/RM} = [(w_a)(X_a) + (w_b)(X_b)]$

X_a = mean of Assay Method A with standard uncertainty $u_{char\ a}$

X_b = mean of Assay Method B with standard uncertainty $u_{char\ b}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$w_a = (1/u_{char\ a})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

$w_b = (1/u_{char\ b})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a\&b} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{1/2}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a\&b} = [(w_a)^2 (u_{char\ a})^2 + (w_b)^2 (u_{char\ b})^2]^{1/2}$ where $u_{char\ a}$ and $u_{char\ b}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{sts} = short term stability standard uncertainty (transportation)

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM}$ = mean of Assay Method A with standard uncertainty $u_{char\ a}$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{sts})^{1/2}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{sts} = short term stability standard uncertainty (transportation)

No correction has been applied for transpiration that will occur after the CRM/RM bottle has been removed from the sealed aluminized bag. See Sec. 7.0 (Instructions for the Correct Use of this Reference Material) for more information.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004113	M	Er	<	0.010282	M	Mn	<	0.008226	O	S	<	0.025000	M	V	<	0.004113
O	Al			M	Eu	<	0.006169	M	Mo	<	0.004113	M	Sb	<	0.001028	M	W	<	0.020564
M	As	<	0.020564	O	Fe	<	0.001100	O	Na		0.000005	M	Sc	<	0.020564	M	Y	<	0.082257
M	Au	<	0.006169	M	Ga	<	0.002056	M	Nb	<	0.001028	M	Se	<	0.016451	M	Yb	<	0.002056
M	B	<	0.143950	M	Gd	<	0.002056	M	Nd	<	0.004113	O	Si	<	0.003400	M	Zn	<	0.041129
M	Ba	<	0.020564	O	Ge	<	0.018000	O	Ni	<	0.001000	M	Sm	<	0.002056	M	Zr	<	0.010282
M	Be	<	0.001028	M	Hf	<	0.004113	n	Os	<		M	Sn	<	0.010282				
M	Bi	<	0.000823	s	Hg	<		O	P	<	0.002600	M	Sr	<	0.001028				
O	Ca		0.000022	M	Ho	<	0.001028	M	Pb	<	0.006169	M	Ta	<	0.014395				
O	Cd	<	0.004600	M	In	<	0.020564	O	Pd	<	0.003800	M	Tb	<	0.000617				
M	Ce	<	0.010282	M	Ir	<	0.010282	M	Pr	<	0.000617	M	Te	<	0.061693				
M	Co	<	0.006169	O	K	<	0.002000	M	Pt	<	0.004113	M	Th	<	0.002056				
M	Cr	<	0.010282	M	La	<	0.001028	M	Rb	<	0.002056	M	Ti	<	0.102822				
M	Cs	<	0.000617	O	Li	<	0.000020	M	Re	<	0.002056	O	Tl	<	0.006000				
M	Cu	<	0.012339	M	Lu	<	0.000823	M	Rh	<	0.002056	M	Tm	<	0.000823				
M	Dy	<	0.012339	O	Mg		0.000006	M	Ru	<	0.004113	M	U	<	0.004113				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30°C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag keep cap tightly sealed when not in use. Store and use at 20° ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT.**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

- May 09, 2014

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec. 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year from the date of opening the sealed TCT bag or after the date given in Sec. 11.3, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.3 Lot Expiration Date

- May 09, 2017

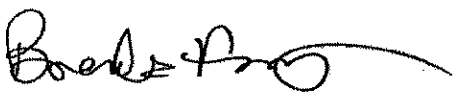
- The date after which this CRM/RM should not be used (See Sec. 11.2).

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

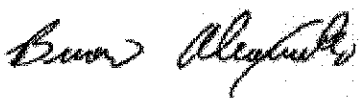
Certificate Prepared By:

Brenda Francis
Product Documentation Technician



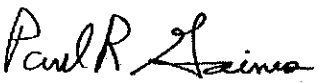
Certificate Approved By:

Brian Alexander
PhD., Technical Process Director



Certifying Officer:

Paul Gaines
PhD., Senior Technical Director



Reagent

MTHgStd_00016

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	Mercury	Source Material:	Mercury Metal
Part Number:	**1 33-1**	Material Purity:	99.9998%
Lot Number:	**1509117**	Matrix:	5% (v/v) HNO_3

Certified Value: 1.00 µg/mL ± 0.02 µg/mL

The Certified value is based on gravimetric and volumetric preparation, and confirmed against SRM 3133 (lot number 061204) by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2.

Preparation Information:

The standard solution is prepared using high purity materials and assayed by analytical methods for conformity prior to use. This standard was prepared using the methods developed at NIST for SRM Spectrometric Standard Solutions under appropriate laboratory conditions.

Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product.

Intended Use:

This Certified Reference Material (CRM) is intended for use as a calibration standard for the quantitative determination of mercury, calibration of instruments such as ICPOES, ICPMS, AAS and XRF, and validation of analytical methods. It also can be used in EPA, ASTM and other methods.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542.

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards:**
The Calibration Standard is directly traceable to SRM 3100 Series Spectrometric Standard Solutions.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for six months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**April 2, 2015**
Shipped Date:	**April 7, 2015**
Expiration Date:	**October 7, 2015**
Certificate Issue Date:	**April 2, 2015**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

ISO Guide 34:2009 (RMP) Accreditation
Certificate Number AR-1436

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPMS2_00020

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: TA-84

Lot Number: H2-MEB559070

Matrix: 3% (v/v) HNO3

Value / Analyte(s): 1 000 µg/mL ea:

Al,	Ca,	Fe,
K,	Mg,	Na

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum	1 000 ± 5 µg/mL	Calcium	1 000 ± 4 µg/mL
Iron	1 000 ± 5 µg/mL	Magnesium	1 000 ± 5 µg/mL
Potassium	1 000 ± 4 µg/mL	Sodium	1 000 ± 4 µg/mL

Certified Density: 1.035 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\sum x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2 [\Sigma(s_i)^2]^{1/2}$ 2 = the coverage factor.
$[\Sigma(s_i)^2]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 30, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 1 FEB 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Reagent

MTICPMSA_00021

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICV/LCS-1 10ppm
Part Number:	**SM-606-021 Solution A**
Lot Number:	**1434610**
Matrix:	2% HNO_3
Purity:	99.99% - 99.9999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
As	10.0 ± 0.1	3103a	100818	Pb	10.00 ± 0.06	3128	101026
Ba	10.00 ± 0.06	3104a	070222	Mn	10.0 ± 0.1	3132	050429
Be	10.0 ± 0.1	3105a	090514	Ni	10.00 ± 0.05	3136	120619
B	10.00 ± 0.05	3107	070514	Se	10.0 ± 0.1	3149	100901
Cd	10.00 ± 0.05	3108	130116	Sr	10.00 ± 0.05	3153a	990906
Cr	10.00 ± 0.05	3112a	030730	Tl	10.00 ± 0.05	3158	993012
Co	10.00 ± 0.05	3113	000630	V	10.00 ± 0.06	3165	992706
Cu	10.00 ± 0.05	3114	121207	Zn	10.00 ± 0.05	3168a	120629

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2
* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPMSA_00022

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: TA-ICPMS-1A

Lot Number: H2-MEB552051

Matrix: 5% (v/v) HNO3

Value / Analyte(s): 100 µg/mL ea:

As,	Ba,	Be,
Cd,	Co,	Cr3,
Cu,	Mn,	Ni,
Pb,	Se,	Sr,
V,	Zn,	

25 µg/mL ea:
Tl

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic	100.0 ± 0.9 µg/mL	Barium	100.0 ± 0.5 µg/mL
Beryllium	100.0 ± 0.5 µg/mL	Cadmium	100.0 ± 0.5 µg/mL
Chromium+3	100.0 ± 0.6 µg/mL	Cobalt	100.0 ± 0.6 µg/mL
Copper	100.0 ± 0.6 µg/mL	Lead	100.0 ± 0.6 µg/mL
Manganese	100.0 ± 0.6 µg/mL	Nickel	100.0 ± 0.6 µg/mL
Selenium	100.0 ± 0.6 µg/mL	Strontium	100.0 ± 0.5 µg/mL
Thallium	25.01 ± 0.15 µg/mL	Vanadium	100.0 ± 0.6 µg/mL
Zinc	100.0 ± 0.7 µg/mL		

Certified Density: 1.029 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	000630 Co
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$

2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 22, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date

EXPIRES
1 FEB 2016

Reagent

MTICPMSB_00021

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Name:	ICV/LCS-1 10ppm
Part Number:	**SM-606-021 Solution B**
Lot Number:	**1434611**
Matrix:	2% HNO_3 + Tr HF
Purity:	99.92% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Sb	10.00 ± 0.06	*		Ti	10.00 ± 0.06	3162a	130925
Mo	10.00 ± 0.06	3134	891307	W	10.00 ± 0.06	3163	080331
Ag	10.00 ± 0.05	3151	992212	Zr	10.00 ± 0.06	3169	130920
Sn	10.00 ± 0.06	3161a	070330				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**December 12, 2014**
Shipped Date:	**December 15, 2014**
Expiration Date:	**December 15, 2015**
Certificate Issue Date:	**December 12, 2014**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTICPMSB_00022

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 · ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	TA-ICPMS-1BREV1
Lot Number:	H2-MEB559071
Matrix:	5% (v/v) HNO3 tr HF
Value / Analyte(s):	100 µg/mL ea: Sn, 10 µg/mL ea: Ag, B, Mo, Sb, Ti, W

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony	10.01 ± 0.07 µg/mL	Boron	10.00 ± 0.06 µg/mL
Molybdenum	10.00 ± 0.06 µg/mL	Silver	10.00 ± 0.07 µg/mL
Tin	100.0 ± 0.5 µg/mL	Titanium	10.01 ± 0.06 µg/mL
Tungsten	10.00 ± 0.06 µg/mL		

Certified Density: 1.025 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	Calculated		See Sec. 4.2
Ti	ICP Assay	3162a	060808
W	Calculated		See Sec. 4.2
W	ICP Assay	3163	080331

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{½}$ 2 = the coverage factor.
$[\ \Sigma(s_i)^2\ ]^{½}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

- N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

- **HF Note:** This standard should not be prepared or stored in glass.

- **Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 30, 2014

11.2 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.3. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

11.3 Expiration Date EXPIRES 1 FEB 2016

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Donna Senn
Product Documentation Technician

Donna Senn

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTMSCAL3_00008

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: STLPA-CAL-SPECA-REV

Lot Number: H2-MEB544052

Matrix: 3% (v/v) HNO3

Value / Analyte(s):

2 500 µg/mL ea:
Ca, K, Mg, Na,
1 250 µg/mL ea:
Fe,
25 µg/mL ea:
Al, Mn,
5 µg/mL ea:
Ag, As, Ba, Be, Cd, Co,
Cr3, Cu, Ni, Pb, Se, Sr,
Tl, V, Zn

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	25.01 ± 0.17 µg/mL	Arsenic, As	5.000 ± 0.032 µg/mL	Barium, Ba	5.002 ± 0.029 µg/mL
Beryllium, Be	4.999 ± 0.029 µg/mL	Cadmium, Cd	4.999 ± 0.032 µg/mL	Calcium, Ca	2 500 ± 11 µg/mL
Chromium+3, Cr3	5.002 ± 0.029 µg/mL	Cobalt, Co	5.000 ± 0.032 µg/mL	Copper, Cu	4.998 ± 0.032 µg/mL
Iron, Fe	1 250 ± 6 µg/mL	Lead, Pb	5.002 ± 0.025 µg/mL	Magnesium, Mg	2 500 ± 12 µg/mL
Manganese, Mn	25.01 ± 0.17 µg/mL	Nickel, Ni	5.000 ± 0.029 µg/mL	Potassium, K	2 501 ± 11 µg/mL
Selenium, Se	5.001 ± 0.029 µg/mL	Silver, Ag	4.999 ± 0.036 µg/mL	Sodium, Na	2 500 ± 11 µg/mL
Strontium, Sr	5.001 ± 0.032 µg/mL	Thallium, Tl	4.998 ± 0.032 µg/mL	Vanadium, V	5.000 ± 0.032 µg/mL
Zinc, Zn	5.002 ± 0.029 µg/mL				

Certified Density: 1.052 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
As	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Ba	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	070222
Be	Calculated		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Co	EDTA	928	928
Cr3	Calculated		See Sec. 4.2
Cr3	ICP Assay	3112a	030730
Cu	ICP Assay	3114	011017
Cu	EDTA	928	928
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	120715
Ni	ICP Assay	3136	000612
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Sr	ICP Assay	3153a	990906
Sr	EDTA	928	928
Tl	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean

x_i = individual results

n = number of measurements

Uncertainty $(\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$ 2 = the coverage factor.

$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 22, 2014

11.2 Expiration Date

EXPIRES
1 2015

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTMSCAL4_00009

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (SAI Global File Number (010105).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CAL-SPECC
Lot Number:	H2-MEB544053
Matrix:	3% (v/v) HNO_3 tr. HF
Value / Analyte(s):	5 µg/mL ea: B, Mo, Sb, Sn, Ti, W

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	5.001 ± 0.047 µg/mL	Boron, B	5.000 ± 0.032 µg/mL	Molybdenum, Mo	5.001 ± 0.039 µg/mL
Tin, Sn	5.001 ± 0.036 µg/mL	Titanium, Ti	5.001 ± 0.043 µg/mL	Tungsten, W	5.002 ± 0.032 µg/mL

Certified Density: 1.017 g/mL (measured at 20 ± 1 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	Calculated		See Sec. 4.2
B	ICP Assay	3107	070514
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102A	061229
Sn	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	070330
Ti	ICP Assay	3162a	060808
W	Calculated		See Sec. 4.2
W	ICP Assay	3163	080331

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$ ($\bar{x}$) = mean
x_i = individual results
n = number of measurements

Uncertainty (±) = $2\ [\ \Sigma(s_i)^2\ ]^{1/2}$ 2 = the coverage factor.
$[\ \Sigma(s_i)^2\ ]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipette from the container. Do not return removed aliquots to container.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

10.2 10CFR21 - Nuclear Regulatory Commission

- Reporting defects and Non-Compliance

10.3 ISO 9001 Quality Management System Registration

- SAI Global File Number 010105

10.4 ISO/IEC Guide 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.5 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 22, 2014

11.2 Expiration Date

EXPIRES
1 2015

11.3 Period of Validity

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is handled and stored in accordance with instructions given in Sec 7.0 and used prior to the date given in Sec 11.2. This certification is nullified if the CRM/RM is damaged, contaminated, or otherwise modified.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Christy Shortridge
Product Documentation Technician

Christy Shortridge

Certificate Approved By:

Brian Alexander
PhD., Technical Process Director

Brian Alexander

Certifying Officer:

Paul Gaines
PhD., Senior Technical Director

Paul R Gaines

Reagent

MTMSICSA_00009

INORGANIC VENTURES™
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 960.02

2.0 **DESCRIPTION OF CRM**

Stock Solution

Catalog No.: 6020ICS-0A

Lot Number: **G2-MEB476152MCA**

Matrix: 1.4% HNO3(v/v)

10,000 µg/mL ea:
Chloride,

2,000 µg/mL ea:
C,

1,000 µg/mL ea:
Al, Ca, Fe, K, Mg, Na, P, S,

20 µg/mL ea:
Mo, Ti

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	1,002 ± 6 µg/mL	Calcium, Ca	1,002 ± 6 µg/mL	Carbon, C	2,004 ± 13 µg/mL
Chloride, Chloride	10,020.0 ± 50.0 µg/mL	Iron, Fe	1,002 ± 7 µg/mL	Magnesium, Mg	1,002 ± 4 µg/mL
Molybdenum, Mo	20.04 ± 0.14 µg/mL	Phosphorus, P	1,002 ± 7 µg/mL	Potassium, K	1,002 ± 4 µg/mL
Sodium, Na	1,002 ± 7 µg/mL	Sulfur, S	1,002 ± 5 µg/mL	Titanium, Ti	20.04 ± 0.13 µg/mL

Certified Density: 1.034 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$$\text{Uncertainty } (\pm) = 2\,[\,\Sigma(s_i)^2\,]^{1/2}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
2 = the coverage factor.
$[\,\Sigma(s_i)^2\,]^{1/2}$ = The square root of the sum of the squares of the most common errors (where 's' stands for the standard deviation) from instrumental measurement, density, NIST SRM uncertainty, weighing, dilution to volume, homogeneity, long term stability and short term stability.

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.
- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a NIST SRM/RM. See section 4.2 for balance traceability.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	060502
Al	EDTA	928	928
C	Gravimetric		See Sec. 4.2
Ca	ICP Assay	3109a	050825
Ca	EDTA	928	928
Chloride	Acidimetric	84L	84L
Fe	ICP Assay	3126a	051031
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
K	ICP Assay	3141a	051220
Mg	ICP Assay	3131a	050302
Mg	EDTA	928	928
Mo	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	891307
Na	Gravimetric		See Sec. 4.2
Na	ICP Assay	3152a	010728
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84k	84k
Ti	ICP Assay	3162a	060808

4.2 BALANCE CALIBRATION - All analytical balances are calibrated yearly by an accredited calibration laboratory and are traceable to a class E 2 analytical weight set with NIST Traceability. All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST).

4.3 THERMOMETER CALIBRATION - All thermometers are NIST traceable through thermometers that are calibrated by an A2LA accredited calibration laboratory.

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL

Custom-Grade solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Al		M	Dy	< 0.000100	O	Li	0.002000	M	Pr	< 0.000100	M	Te	< 0.012007
M	Sb	< 0.000600	M	Er	< 0.000100	M	Lu	< 0.000100	M	Re	< 0.000100	M	Tb	< 0.000100
O	As	< 0.020000	M	Eu	< 0.000100	s	Mg		M	Rh	< 0.000100	M	Tl	< 0.000100
O	Ba	< 0.000200	M	Gd	< 0.000100	O	Mn	0.003000	M	Rb	< 0.020012	M	Th	< 0.000100
O	Be	< 0.000090	M	Ga	< 0.001001	O	Hg	< 0.005000	M	Ru	< 0.000100	M	Tm	< 0.000100
M	Bi	< 0.005003	O	Ge	< 0.015000	s	Mo		M	Sm	< 0.000100	M	Sn	< 0.003002
O	B	< 0.005000	M	Au	< 0.001001	M	Nd	< 0.000100	O	Sc	< 0.000700	s	Tl	
O	Cd	0.003400	M	Hf	< 0.002001	O	Ni	< 0.002000	M	Se	< 0.050029	O	W	< 0.007000
s	Ca		M	Ho	< 0.000100	M	Nb	< 0.002001	n	Si		M	U	< 0.000100
M	Ce	< 0.000500	M	In	< 0.001001	n	Os		M	Ag	< 0.001001	O	V	< 0.004000
M	Cs	< 0.001001	M	Ir	< 0.000100	M	Pd	< 0.003002	s	Na		M	Yb	< 0.000100
O	Cr	< 0.010000	s	Fe		s	P		O	Sr	0.005000	M	Y	< 0.000100
M	Co	< 0.001001	M	La	< 0.000200	M	Pt	< 0.000100	s	S		M	Zn	0.016610
O	Cu	< 0.020000	M	Pb	0.002001	s	K		M	Ta	< 0.001001	M	Zr	< 0.004002

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Electrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohm doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Uranium Note: If uranium is present in this standard, it is natural abundance unless specified in Section 3.0.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous.

Inorganic Ventures homogeneity data indicate that the end user should take a minimum sample size of 0.2mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration
- SAI Global File Number 010105

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission
- Reporting Defects and Non-Compliance

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

11.3 Chemical Stability - Studies have been conducted on this or similar CRMs and it has been demonstrated that this CRM is chemically stable for a period of not less than two years provided the "Storage & Handling" conditions are followed that are described in section 7.0.

Certification Date: July 12, 2013

Expiration Date:

EXPIRES
01 Mo 2015

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Zach Saunders
Product Documentation Technician

Certificate Approved By: Allyson Gulliams
Quality Control Supervisor

Certifying Officer: Paul Gaines
PhD., Senior Technical Director

Reagent

MTMSICSABSOLA_00006

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7906

Certificate of Analysis

Product Description:

Part Number:	**SM-606-031**
	Solution A
Lot Number:	**1503726**
Matrix:	2% HNO_3
Purity:	99.99% - 99.9995%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
As	20.0 ± 0.2	3103a	100818	Pb	20.00 ± 0.12	3128	101026
Ba	20.00 ± 0.12	3104a	070222	Mn	20.0 ± 0.2	3132	050429
Be	20.0 ± 0.2	3105a	090514	Ni	20.0 ± 0.1	3136	120619
B	20.0 ± 0.1	3107	070514	Se	20.0 ± 0.2	3149	100901
Cd	20.0 ± 0.1	3108	130116	Sr	20.0 ± 0.1	3153a	990906
Cr	20.0 ± 0.1	3112a	030730	Tl	20.0 ± 0.1	3158	993012
Co	20.0 ± 0.1	3113	000630	V	20.00 ± 0.12	3165	992706
Cu	20.0 ± 0.1	3114	121207	Zn	20.0 ± 0.1	3168a	120629

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor *k* is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**
The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.
The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**February 6, 2015**
Shipped Date:	**February 10, 2015**
Expiration Date:	**February 10, 2016**
Certificate Issue Date:	**February 6, 2015**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTMSICSABSOLB_00006

HIGH-PURITY STANDARDS
www.highpuritystandards.com

P.O. Box 41727
Charleston, SC 29423
Phone (843) 767-7900
Fax (843) 767-7908

Certificate of Analysis

Product Description:

Part Number:	**SM-606-031**
	Solution B
Lot Number:	**1504002**
Matrix:	2% HNO_3 + Tr HF
Purity:	99.92% - 99.999%

Certified Values:

Element	(µg/mL)	SRM ID	SRM Lot#	Element	(µg/mL)	SRM ID	SRM Lot#
Sb	20.00 ± 0.12	*		Ti	20.00 ± 0.12	3162a	130925
Mo	20.00 ± 0.12	3134	891307	W	20.00 ± 0.12	3163	080331
Ag	20.0 ± 0.1	3151	992212	Zr	20.00 ± 0.12	3169	130920
Sn	20.00 ± 0.12	3161a	070330				

The Certified values are based on gravimetric and volumetric preparation, and verified against SRM 3100 series developed by National Institute of Standards and Technology (NIST) via inductively coupled plasma optical emission spectrometry (ICP-OES) using an internal laboratory developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2

* Refer to Traceability Information, Section d

Preparation Information:

The standard is generally prepared from single element standard solutions that are ISO Guide 34 certified reference materials. Highest purity source materials were purchased from qualified vendors per ISO 9001:2008 guidelines and assayed by ICP-OES for conformity prior to use. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

a. **Standard Weight and Analytical Balance**

The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in "NIST Weights and Measures Measurement Assurance Program" with a certificate of measurement traceability to NIST primary standards.

The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.

High-Purity Standards is certified to ISO 9001:2008 and accredited to ISO/IEC 17025:2005 and ISO Guide 34:2009.

b. **Volumetric Device**
The calibration of volumetric vessels is checked annually using the ASTM method E542

c. **Thermometer**
The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.

d. **Calibration Standards**
The Calibration Standards are traceable to SRM 3100 Series Spectrometric Standard Solutions or second sources.

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Refer to Material Safety Datasheet (MSDS) for hazardous information.

Expiration Information:

The expiry date is guaranteed to be valid for twelve months from the shipping date provided. For this reason, standards from the same lot may have different expiration dates.

Preparation Date:	**February 9, 2015**
Shipped Date:	**February 10, 2015**
Expiration Date:	**February 10, 2016**
Certificate Issue Date:	**February 9, 2015**

Quality Information:

ISO/IEC 17025:2005 Accreditation
Certificate Number AT-1529

Angel Sellers
Quality Manager

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High Purity Standards.

Reagent

MTMSICVA_00005

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Additional Information:

Date Received: 29/Aug/2014

Container: 4 oz (125 mL) Narrow Mouth, LDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Aluminum	Al	7429-90-5	3101	060502	7001.46.7P	99.9995	20	0.09
Manganese	Mn	7439-96-5	3132	050429	7017.46.5P	99.95	20	0.07
Silver	Ag	7440-22-4	3151	992212	7000.29.1P	99.999	4	0.04001
Arsenic	As	7440-38-2	3103	010713	7002.46.5P	99.9999	4	0.04
Boron	B	7440-42-8	3107	070514	7003.46.5P	99.999	4	0.04
Barium	Ba	7440-39-3	3104	070222	7004.29.2P	99.997	4	0.04
Beryllium	Be	7440-41-7	3105	892707	7005.46.5P	99.999	4	0.04
Cadmium	Cd	7440-43-9	3108	060531	7007.46.3P	99.9999	4	0.04002
Cobalt	Co	7440-48-4	3113	000630	7008.46.8P	99.995	4	0.04003
Chromium	Cr	7440-47-3	3112	030730	7009.46.3P	99.998	4	0.044
Copper	Cu	7440-50-8	3114	011017	7011.46.5P	99.9995	4	0.04001
Molybdenum	Mo	7439-98-7	3134	891307	7018.29.3P	99.999	4	0.04
Nickel	Ni	7440-02-0	3136	000612	7021.46.8P	99.995	4	0.04001
Lead	Pb	7439-92-1	3128	030721	7023.29.2P	99.999	4	0.04001
Antimony	Sb	7440-36-0	3102	061229	7026.46.3P	99.999	4	0.04002
Selenium	Se	7782-49-2	3149	992106	7027.46.4P	99.999	4	0.04001
Tin	Sn	7440-31-5	3161	070330	7029.46.4P	99.999	4	0.04
Strontium	Sr	7440-24-6	3153	990906	7030.46.4P	99.998	4	0.04001
Titanium	Ti	7440-32-6	3162	060808	7033.343.1P	99.995	4	0.04001
Thallium	Tl	7440-28-0	3158	993012	7034.29.3P	99.999	4	0.04
Vanadium	V	7440-62-2	3165	992706	7036.46.5P	99.99	4	0.04
Tungsten	W	7440-33-7	3163	080331	7072.46.2P	99.99	4	0.044011
Zinc	Zn	7440-66-6	3168	080123	7037.46.5P	99.9995	4	0.04002
Calcium	Ca	7440-70-2	3109	050825	7006.29.2P	99.999	2000	7
Potassium	K	7440-09-7	3141	051220	7013.46.9P	99.999	2000	7
Magnesium	Mg	7439-95-4	3131	050302	7016.46.5P	99.99	2000	7
Sodium	Na	7440-23-5	3152	010728	7020.46.7P	99.999	2000	7
Iron	Fe	7439-89-6	3126	051031	7012.46.14P	99.99	1000	3.5

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 7/18/2014

Certified By:

Zachary Spinelli

Certified Date:7/21/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 7/22/2014

Reagent

MTMSICVB_00005

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Additional Information:

Date Received: 29/Aug/2014

Container: 4 oz (125 mL) Narrow Mouth, LDPE clean

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
Aluminum	Al	7429-90-5	3101	060502	7001.46.7P	99.9995	20	0.09
Manganese	Mn	7439-96-5	3132	050429	7017.46.5P	99.95	20	0.07
Silver	Ag	7440-22-4	3151	992212	7000.29.1P	99.999	4	0.04001
Arsenic	As	7440-38-2	3103	010713	7002.46.5P	99.9999	4	0.04
Boron	B	7440-42-8	3107	070514	7003.46.5P	99.999	4	0.04
Barium	Ba	7440-39-3	3104	070222	7004.29.2P	99.997	4	0.04
Beryllium	Be	7440-41-7	3105	892707	7005.46.5P	99.999	4	0.04
Cadmium	Cd	7440-43-9	3108	060531	7007.46.3P	99.9999	4	0.04002
Cobalt	Co	7440-48-4	3113	000630	7008.46.8P	99.995	4	0.04003
Chromium	Cr	7440-47-3	3112	030730	7009.46.3P	99.998	4	0.044
Copper	Cu	7440-50-8	3114	011017	7011.46.5P	99.9995	4	0.04001
Molybdenum	Mo	7439-98-7	3134	891307	7018.29.3P	99.999	4	0.04
Nickel	Ni	7440-02-0	3136	000612	7021.46.8P	99.995	4	0.04001
Lead	Pb	7439-92-1	3128	030721	7023.29.2P	99.999	4	0.04001
Antimony	Sb	7440-36-0	3102	061229	7026.46.3P	99.999	4	0.04002
Selenium	Se	7782-49-2	3149	992106	7027.46.4P	99.999	4	0.04001
Tin	Sn	7440-31-5	3161	070330	7029.46.4P	99.999	4	0.04
Strontium	Sr	7440-24-6	3153	990906	7030.46.4P	99.998	4	0.04001
Titanium	Ti	7440-32-6	3162	060808	7033.343.1P	99.995	4	0.04001
Thallium	Tl	7440-28-0	3158	993012	7034.29.3P	99.999	4	0.04
Vanadium	V	7440-62-2	3165	992706	7036.46.5P	99.99	4	0.04
Tungsten	W	7440-33-7	3163	080331	7072.46.2P	99.99	4	0.044011
Zinc	Zn	7440-66-6	3168	080123	7037.46.5P	99.9995	4	0.04002
Calcium	Ca	7440-70-2	3109	050825	7006.29.2P	99.999	2000	7
Potassium	K	7440-09-7	3141	051220	7013.46.9P	99.999	2000	7
Magnesium	Mg	7439-95-4	3131	050302	7016.46.5P	99.99	2000	7
Sodium	Na	7440-23-5	3152	010728	7020.46.7P	99.999	2000	7
Iron	Fe	7439-89-6	3126	051031	7012.46.14P	99.99	1000	3.5

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

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F: 707.545.7901

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The Netherlands

Certificate of Analysis

Rev 1

Comment: Ca, K, Mg, Na, Fe, Shipped Separately

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-4400 -130611AM02	1063211	1-Aug-2015	5% HNO_3 + Tr HF	Z-G34-4400-130611AM02, 100 mL mg/L in 5% HNO_3 + Tr HF Solution A

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Tiffany Kwasigroch

Manufacture Date: 7/18/2014

Certified By:

Zachary Spinelli

Certified Date:7/21/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 7/22/2014

Reagent

SG 1221 ICV_00007

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007.sec **Lot No.:** A094157

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : June 2019 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11104-28-2.SEC		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

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

Reagent

SG 1232 ICV_00007

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32008.sec **Lot No.:** A095877

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : September 30, 2019 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 11141-16-5.SEC (Lot 130604JLM)		+/- 20.8959 µg/mL	Unstressed
	Purity ----%		+/- 34.3792 µg/mL	Stressed

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

1638047
ID: SG 1232 ICV_00007
Exp: 09/30/19 Prpd: HMB
Aroclor 1232 ICV @ 1000pp

Rec'd 8.22.14
HB

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

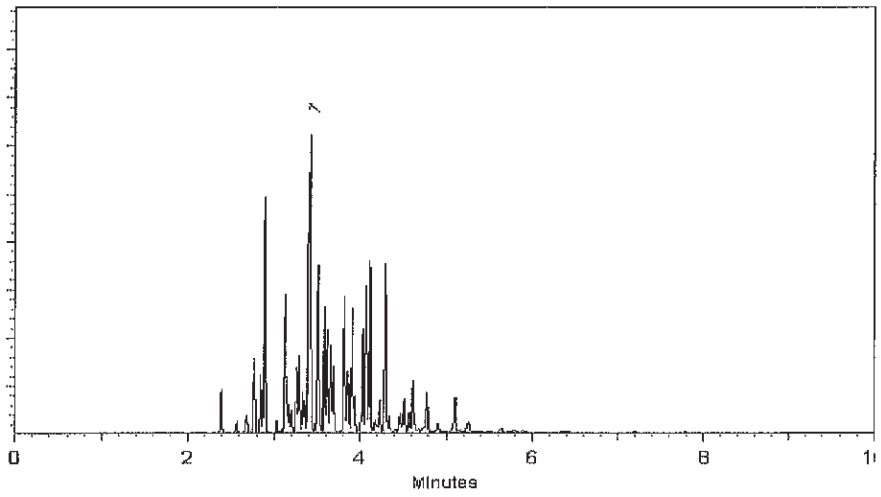
Carrier Gas:
hellium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 07-Jun-2013 **Balance:** 1128353505

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 11-Jun-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SG 1242 ICV_00006

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009.sec **Lot No.:** A095785

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : September 30, 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1242	1,004.0 µg/mL	+/- 5.9635 µg/mL	Gravimetric
	CAS # 53469-21-9.SEC (Lot NTO1020)		+/- 20.9795 µg/mL	Unstressed
	Purity ----%		+/- 34.5167 µg/mL	Stressed

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

Reagent

SG 1248 ICV_00006

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010.sec **Lot No.:** A094339

Description : Aroclor® 1248 Standard

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

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

Expiration Date : June 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248	1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 12672-29-6.SEC		+/- 20.9168	µg/mL	Unstressed
	Purity ----%		+/- 34.4136	µg/mL	Stressed

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

Reagent

SG 1254 ICV_00007

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32011.sec **Lot No.:** A095778

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : September 30, 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Aroclor 1254	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 11097-69-1,SEC (Lot RM00922)		+/- 20.9377 µg/mL	Unstressed
	Purity ----%		+/- 34.4480 µg/mL	Stressed

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

1638220
ID: SG 1254 ICV_00007
Exp: 09/30/19 Prpd: HMB
Aroclor 1254 ICV @ 1000pp

Rec'd 8.22.14
HMB

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

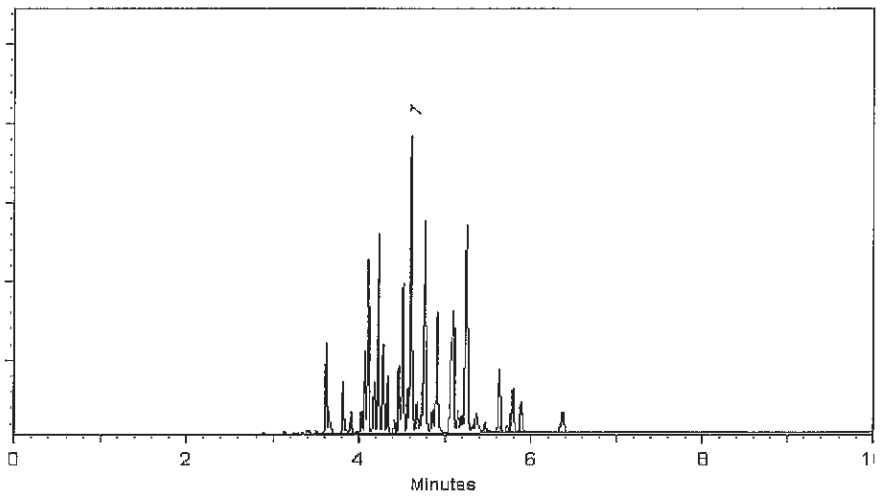
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 03-Jun-2013 **Balance:** 1128353505

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 05-Jun-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SG 1660 ICV_00010

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039.sec **Lot No.:** A094336

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : June 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

1637993
ID: SG 1660 ICV_00010
Exp: 06/30/19 Prpd: LSH
Arochlor 1016/1260 sec

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 12674-11-2.SEC		+/- 20.8758	µg/mL	Unstressed
	Purity ----%		+/- 34.3670	µg/mL	Stressed
2	Aroclor 1260	1,000.5 µg/mL	+/- 5.8715	µg/mL	Gravimetric
	CAS # 11096-82-5.SEC		+/- 20.8863	µg/mL	Unstressed
	Purity ----%		+/- 34.3842	µg/mL	Stressed

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

RECEIVED 8/22/14
SH

Reagent

SG1016/1260MX_00006

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A092844

Description : Aroclor® 1016/1260 Mix

Aroclor 1016/1260 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 12674-11-2		+/- 20.8643	µg/mL	Unstressed
	Purity 99%		+/- 34.3600	µg/mL	Stressed
2	Aroclor 1260	1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 11096-82-5		+/- 20.8643	µg/mL	Unstressed
	Purity ----%		+/- 34.3600	µg/mL	Stressed

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

Reagent

SG1242_00005

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32009 **Lot No.:** A090182

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : November 30, 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,000.0	µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)			+/- 20.8643	µg/mL	Unstressed
	Purity ----%				+/- 34.3600	µg/mL	Stressed

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

Reagent

SG1248_00003

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A086044

Description : Aroclor® 1248 Standard

Aroclor 1248 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 2018 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 12672-29-6		+/- 20.8758	µg/mL	Unstressed
	Purity ----%		+/- 34.3670	µg/mL	Stressed

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

RECEIVED 1/2/13 USH

Reagent

SGPCB1221_00004

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32007 **Lot No.:** A090667

Description : Aroclor® 1221 Standard

Aroclor 1221 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 2018 **Storage:** 25°C nominal

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11104-28-2		+/- 20.8758	µg/mL	Unstressed
	Purity -----%		+/- 34.3670	µg/mL	Stressed

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

Reagent

SGPCB1232STD_00005

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Catalog No. : 32008 **Lot No.:** A086119

Description : Aroclor® 1232 Standard

Aroclor 1232 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 2018 **Storage:** 25°C nominal

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11141-16-5		+/- 20.8758	µg/mL	Unstressed
	Purity 99%		+/- 34.3670	µg/mL	Stressed

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

2 UNITS
RECEIVED 1/2/13

Reagent

SGPCB1254_00007

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Catalog No. : 32011 **Lot No.:** A093609

Description : Aroclor® 1254 Standard

Aroclor 1254 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1254	1,000.0 µg/mL	+/- 5.8686	µg/mL	Gravimetric
	CAS # 11097-69-1		+/- 20.8758	µg/mL	Unstressed
	Purity 99%		+/- 34.3670	µg/mL	Stressed

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

Reagent

SGPCB1262STD_00004

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Catalog No. : 32409 **Lot No.:** A092660

Description : Aroclor® 1262 Standard

Aroclor 1262 Std 1000µg/mL, 1mL/ampul, Hexane

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

Expiration Date : March 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1262	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 37324-23-5		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

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

Reagent

SGpcb1268std_00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32410 **Lot No.:** A091468

Description : Aroclor® 1268 Standard

Aroclor 1268 Std 1000µg/mL, 1mL/ampul, Hexane

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

Expiration Date : January 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1268	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11100-14-4		+/- 20.8959	µg/mL	Unstressed
	Purity ----%		+/- 34.3792	µg/mL	Stressed

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

recd 7-1-13

Reagent

SGPCBSURRMX_00007

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A092533

Description : Pesticide Surrogate Mix

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

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

Expiration Date : March 2019 **Storage:** 10°C or colder

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	200.1 µg/mL	+/- 1.1662	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 4.1753	µg/mL	Unstressed
	Purity 98%		+/- 6.8760	µg/mL	Stressed
2	Decachlorobiphenyl	200.0 µg/mL	+/- 1.1655	µg/mL	Gravimetric
	CAS # 2051-24-3		+/- 4.1729	µg/mL	Unstressed
	Purity 99%		+/- 6.8720	µg/mL	Stressed

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

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Reagent

SGPESTAB #3_00003

Reagent

SGPESTABIV_00010

Certificate of Analysis

Organochlorine Pesticides Mixture

Product Number: PPM-808C **Page:** 1 of 2

Lot Number: CL-1069 **Lot Issue Date:** 24-Mar-2014 **Expiration Date:** 30-Apr-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
aldrin	000309-00-2	RM00635	1004 ± 5 µg/mL
alpha-BHC	000319-84-6	RM02725	1003 ± 5 µg/mL
beta-BHC	000319-85-7	RM06986	1003 ± 5 µg/mL
delta-BHC	000319-86-8	RM05696	1003 ± 5 µg/mL
gamma-BHC	000058-89-9	RM02694	1003 ± 5 µg/mL
cis-chlordane	005103-71-9	RM02742	1003 ± 5 µg/mL
trans-chlordane	005103-74-2	RM02726	1003 ± 5 µg/mL
4,4'-DDD	000072-54-8	RM00615	1004 ± 5 µg/mL
4,4'-DDE	000072-55-9	RM02892	1004 ± 5 µg/mL
4,4'-DDT	000050-29-3	RM06888	1003 ± 5 µg/mL
dieldrin	000060-57-1	RM03957	1003 ± 5 µg/mL
endosulfan I	000959-98-8	RM00834	1003 ± 5 µg/mL
endosulfan II	033213-65-9	RM07039	1003 ± 5 µg/mL
endosulfan sulfate	001031-07-8	RM06741	1003 ± 5 µg/mL
endrin	000072-20-8	NT01979	1003 ± 5 µg/mL
endrin aldehyde	007421-93-4	RM04131	1003 ± 5 µg/mL
endrin ketone	053494-70-5	RM07329	1003 ± 5 µg/mL
heptachlor	000076-44-8	RM03111	1004 ± 5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM05373	1003 ± 5 µg/mL
methoxychlor	000072-43-5	RM07523	1004 ± 5 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1006

250 Smith Street, North Kingstown, RI 02852 USA
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www.ultrasci.com

William J. Leary
Quality Assurance Manager

Reagent

SGPESTPEMS_00011

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

1361168
ID: SGPESTPEMS_00011
Exp:12/31/15 Prpd:RES Opn:01/29/14
PEM Source RESTEK

1361167
ID: SGPESTPEMS_00011
Exp:12/31/15 Prpd:RES Opn:01/29/14
PEM Source RESTEK

1361166
ID: SGPESTPEMS_00011
Exp:12/31/15 Prpd:RES Opn:01/29/14
PEM Source RESTEK

Catalog No. : 32074 **Lot No.:** A085642

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene **CAS #** 877-09-8 **Purity** 98%	2.0 ug/mL	+/- 0.0332 +/- 0.0770 +/- 0.1256	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
2	alpha-BHC **CAS #** 319-84-6 **Purity** 99%	1.0 ug/mL	+/- 0.0166 +/- 0.0385 +/- 0.0628	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
3	gamma-BHC (Lindane) **CAS #** 58-89-9 **Purity** 99%	1.0 ug/mL	+/- 0.0166 +/- 0.0385 +/- 0.0628	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
4	beta-BHC **CAS #** 319-85-7 **Purity** 98%	1.0 ug/mL	+/- 0.0166 +/- 0.0385 +/- 0.0628	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
5	Endrin **CAS #** 72-20-8 **Purity** 99%	5.0 ug/mL	+/- 0.0808 +/- 0.1917 +/- 0.3135	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
6	4,4'-DDT **CAS #** 50-29-3 **Purity** 99%	10.0 ug/mL	+/- 0.1615 +/- 0.3834 +/- 0.6269	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
7	Methoxychlor **CAS #** 72-43-5 **Purity** 99%	25.0 ug/mL	+/- 0.4032 +/- 0.9583 +/- 1.5672	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed
8	Decachlorobiphenyl **CAS #** 2051-24-3 **Purity** 99%	2.0 ug/mL	+/- 0.0332 +/- 0.0771 +/- 0.1256	ug/mL ug/mL ug/mL	Gravimetric Unstressed Stressed

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

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

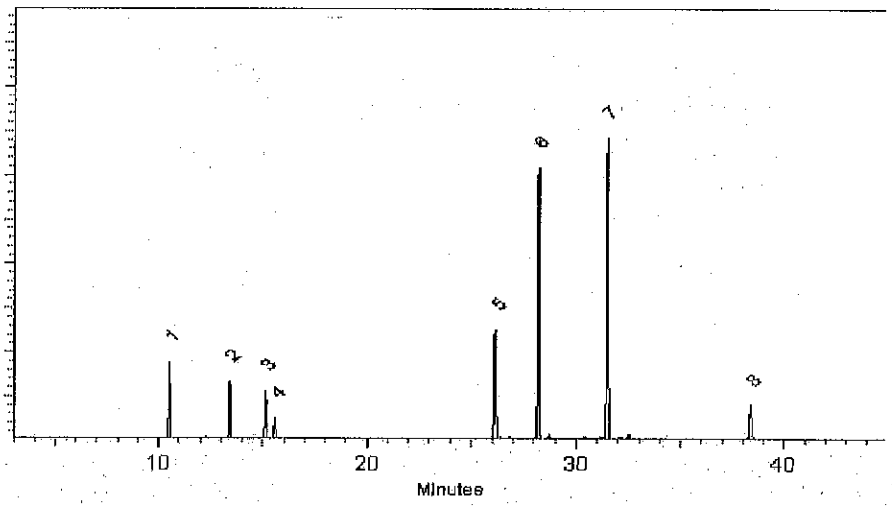
Carrier Gas:
helium-constant pressure 7 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



Diane Shaffer - QA Analyst

Date Passed: 22-Dec-2011 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

SGPESTSURR_00006

Reagent

SMIS R_00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A0101020

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2019 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	2,005.4 µg/mL	+/- 11.6596	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-18488)		+/- 89.1010	µg/mL	Unstressed
	Purity 99%		+/- 97.8939	µg/mL	Stressed
2	Naphthalene-d8	2,005.8 µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 1146-65-2 (Lot PR-20449)		+/- 89.1187	µg/mL	Unstressed
	Purity 99%		+/- 97.9134	µg/mL	Stressed
3	Acenaphthene-d10	1,998.2 µg/mL	+/- 11.6177	µg/mL	Gravimetric
	CAS # 15067-26-2 (Lot PR-21070)		+/- 88.7811	µg/mL	Unstressed
	Purity 97%		+/- 97.5424	µg/mL	Stressed
4	Phenanthrene-d10	2,001.2 µg/mL	+/- 11.6351	µg/mL	Gravimetric
	CAS # 1517-22-2 (Lot PR-23065)		+/- 88.9144	µg/mL	Unstressed
	Purity 99%		+/- 97.6889	µg/mL	Stressed
5	Chrysene-d12	1,999.6 µg/mL	+/- 11.6258	µg/mL	Gravimetric
	CAS # 1719-03-5 (Lot PR-24875)		+/- 88.8429	µg/mL	Unstressed
	Purity 98%		+/- 97.6104	µg/mL	Stressed
6	Perylene-d12	2,002.6 µg/mL	+/- 11.6433	µg/mL	Gravimetric
	CAS # 1520-96-3 (Lot PR-24113)		+/- 88.9766	µg/mL	Unstressed
	Purity 99%		+/- 97.7572	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

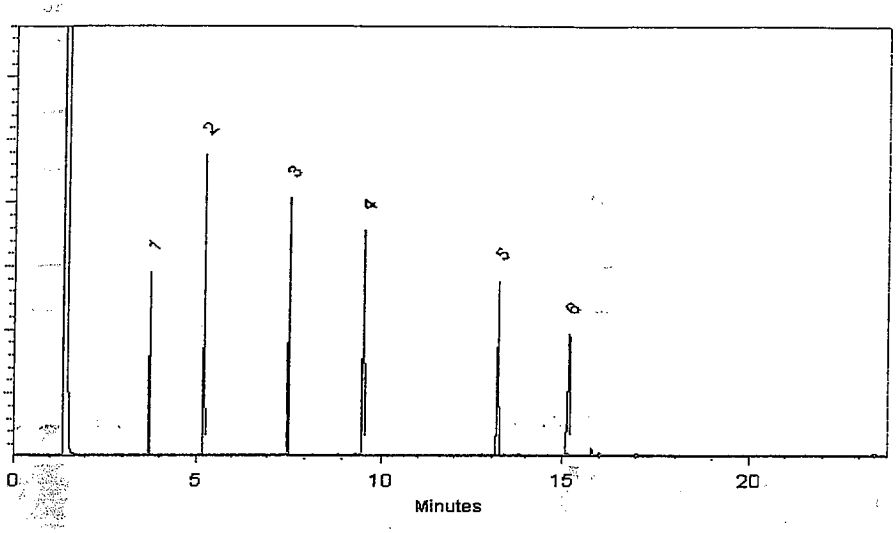
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 30-Jan-2014 **Balance:** 1128342313

Jennifer L. Pollino - QC Analyst

Date Passed: 03-Feb-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 PAH_00004

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Catalog No. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD8744V)	1,004.4 µg/mL	+/- 5.8397 µg/mL +/- 10.9969 µg/mL +/- 18.6525 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBC7174V)	1,001.0 µg/mL	+/- 5.8199 µg/mL +/- 10.9596 µg/mL +/- 18.5894 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 3213100)	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 10.9509 µg/mL +/- 18.5745 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot K22Z462)	1,002.3 µg/mL	+/- 5.8275 µg/mL +/- 10.9739 µg/mL +/- 18.6135 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1,000.8 µg/mL	+/- 5.8187 µg/mL +/- 10.9575 µg/mL +/- 18.5856 µg/mL	Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,006.9 µg/mL	+/- 5.8542 µg/mL +/- 11.0242 µg/mL +/- 18.6989 µg/mL	Gravimetric Unstressed Stressed

8	n-Decane (C10)		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 124-18-5	(Lot SHBF1587V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
9	1,4-Dichlorobenzene		1,005.3	µg/mL	+/-	5.8449	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBL3891V)			+/-	11.0067	µg/mL	Unstressed
	Purity 99%				+/-	18.6692	µg/mL	Stressed
10	1,3-Dichlorobenzene		1,002.0	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBC1891V)			+/-	10.9706	µg/mL	Unstressed
	Purity 99%				+/-	18.6079	µg/mL	Stressed
11	1,2-Dichlorobenzene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot 68996CMV)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
12	Benzyl alcohol		1,000.4	µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBC1850V)			+/-	10.9531	µg/mL	Unstressed
	Purity 99%				+/-	18.5782	µg/mL	Stressed
13	2,2'-oxybis(1-chloropropane)		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 2-EAW-18-3)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
14	2-Methylphenol (o-cresol)		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBC1479V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
15	Hexachloroethane		1,005.9	µg/mL	+/-	5.8484	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot 4H3SF)			+/-	11.0133	µg/mL	Unstressed
	Purity 99%				+/-	18.6804	µg/mL	Stressed
16	Acetophenone		1,002.7	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot MKBR7156V)			+/-	10.9783	µg/mL	Unstressed
	Purity 99%				+/-	18.6209	µg/mL	Stressed
17	N-Nitroso-di-n-propylamine		1,003.9	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot OPAGF)			+/-	10.9914	µg/mL	Unstressed
	Purity 99%				+/-	18.6432	µg/mL	Stressed
18	4-Methylphenol (p-cresol)		500.4	µg/mL	+/-	2.9161	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot 49396APV)			+/-	5.4823	µg/mL	Unstressed
	Purity 99%				+/-	9.2949	µg/mL	Stressed
19	3-Methylphenol (m-cresol)		500.2	µg/mL	+/-	2.9149	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot SHBD0627V)			+/-	5.4801	µg/mL	Unstressed
	Purity 99%				+/-	9.2912	µg/mL	Stressed
20	Nitrobenzene		1,001.1	µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 65096APV)			+/-	10.9607	µg/mL	Unstressed
	Purity 99%				+/-	18.5912	µg/mL	Stressed
21	Isophorone		999.3	µg/mL	+/-	5.8100	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot 06705DE)			+/-	10.9410	µg/mL	Unstressed
	Purity 97%				+/-	18.5577	µg/mL	Stressed
22	2-Nitrophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCBH7602V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
23	2,4-Dimethylphenol		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot 10165155)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,004.5	µg/mL	+/-	5.8402	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 317200)			+/-	10.9980	µg/mL	Unstressed
	Purity 99%				+/-	18.6544	µg/mL	Stressed
25	2,4-Dichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
27	Naphthalene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
29	4-Chloroaniline		1,000.3	µg/mL	+/-	5.8157	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9518	µg/mL	Unstressed
	Purity 98%				+/-	18.5761	µg/mL	Stressed
30	Hexachlorobutadiene		999.9	µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9475	µg/mL	Unstressed
	Purity 98%				+/-	18.5688	µg/mL	Stressed
31	2-Methylnaphthalene		998.6	µg/mL	+/-	5.8059	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	10.9333	µg/mL	Unstressed
	Purity 96%				+/-	18.5446	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,002.4	µg/mL	+/-	5.8280	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3140300)			+/-	10.9750	µg/mL	Unstressed
	Purity 99%				+/-	18.6154	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
39	Biphenyl		1,006.1	µg/mL	+/-	5.8496	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0155	µg/mL	Unstressed
	Purity 99%				+/-	18.6841	µg/mL	Stressed

40	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKBK7597V)	1,004.6	µg/mL	+/- 5.8408 +/- 10.9991 +/- 18.6562	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene **CAS #** 208-96-8 **Purity** 99%	(Lot ER030707-01)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot BCBB1436V)	1,006.4	µg/mL	+/- 5.8513 +/- 11.0188 +/- 18.6896	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,001.0	µg/mL	+/- 5.8199 +/- 10.9596 +/- 18.5894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dimitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot 1437483V)	1,001.6	µg/mL	+/- 5.8234 +/- 10.9662 +/- 18.6005	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKBP0384V)	1,001.8	µg/mL	+/- 5.8246 +/- 10.9684 +/- 18.6042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot MKBP5833V)	2,008.7	µg/mL	+/- 11.6788 +/- 21.9927 +/- 37.3031	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKBK2375V)	1,001.8	µg/mL	+/- 5.8246 +/- 10.9684 +/- 18.6042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKBH5131V)	1,001.3	µg/mL	+/- 5.8216 +/- 10.9629 +/- 18.5949	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,001.7	µg/mL	+/- 5.8240 +/- 10.9673 +/- 18.6024	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKBK1842V)	2,001.0	µg/mL	+/- 11.6340 +/- 21.9083 +/- 37.1601	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot FN10221307)	1,002.1	µg/mL	+/- 5.8263 +/- 10.9717 +/- 18.6098	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene **CAS #** 86-73-7 **Purity** 98%	(Lot 10174662)	1,000.5	µg/mL	+/- 5.8169 +/- 10.9540 +/- 18.5797	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKBL1347V)	1,000.4	µg/mL	+/- 5.8164 +/- 10.9531 +/- 18.5782	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	n-Hexadecane (C16) **CAS #** 544-76-3 **Purity** 99%	(Lot SHBD4570V)	1,002.2	µg/mL	+/- 5.8269 +/- 10.9728 +/- 18.6116	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot MKBJ3578V)	1,001.1	µg/mL	+/- 5.8205 +/- 10.9607 +/- 18.5912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

72	Chrysene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot ER120810-02)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBK2695V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 3128600)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER03101401)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,003.3	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER041513-01)			+/-	10.9848	µg/mL	Unstressed
	Purity 99%				+/-	18.6321	µg/mL	Stressed
77	Benzo(a)pyrene		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,004.4	µg/mL	+/-	5.8397	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	10.9969	µg/mL	Unstressed
	Purity 99%				+/-	18.6525	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

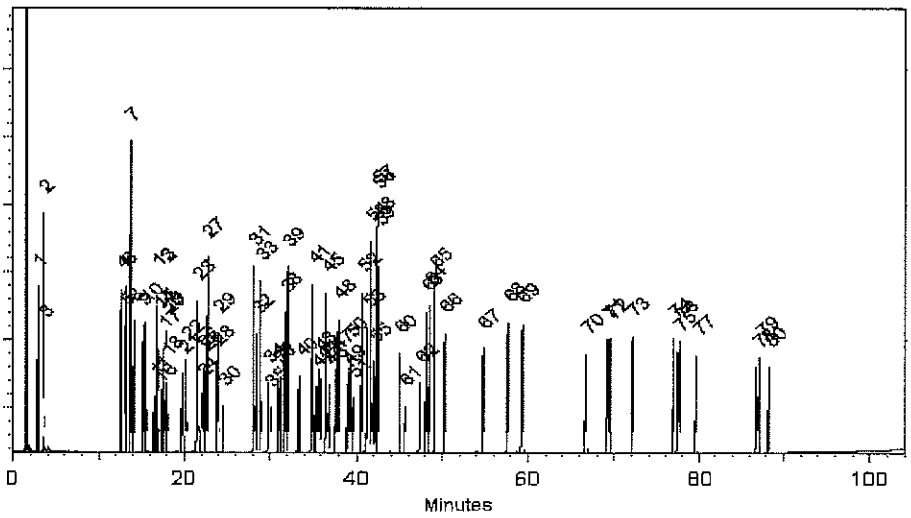
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 S1_00004

SMList 1 SI_00004

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Reference Material Producer
Certificate #3222.01

Certificate of Analysis

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ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567672 **Lot No.:** A0101615

Description : 8270 List 1 / Std #1 MegaMix

8270 List 1 / Std #1 MegaMix 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2015 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane		1,006.4 µg/mL	+/- 5.8510	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBD4119V)		+/- 11.0182	µg/mL	Unstressed
	Purity 99%			+/- 18.6887	µg/mL	Stressed
2	Pyridine		1,001.7 µg/mL	+/- 5.8237	µg/mL	Gravimetric
	CAS # 110-86-1	(Lot 02718MW)		+/- 10.9668	µg/mL	Unstressed
	Purity 99%			+/- 18.6014	µg/mL	Stressed
3	N-Nitrosodimethylamine		1,001.4 µg/mL	+/- 5.8222	µg/mL	Gravimetric
	CAS # 62-75-9	(Lot 2179300)		+/- 10.9640	µg/mL	Unstressed
	Purity 99%			+/- 18.5968	µg/mL	Stressed
4	Aniline		1,009.3 µg/mL	+/- 5.8682	µg/mL	Gravimetric
	CAS # 62-53-3	(Lot 68396APV)		+/- 11.0505	µg/mL	Unstressed
	Purity 99%			+/- 18.7435	µg/mL	Stressed
5	Phenol		1,009.5 µg/mL	+/- 5.8690	µg/mL	Gravimetric
	CAS # 108-95-2	(Lot SHBC6998V)		+/- 11.0522	µg/mL	Unstressed
	Purity 99%			+/- 18.7463	µg/mL	Stressed
6	Bis(2-chloroethyl)ether		1,005.2 µg/mL	+/- 5.8440	µg/mL	Gravimetric
	CAS # 111-44-4	(Lot 45296HKV)		+/- 11.0051	µg/mL	Unstressed
	Purity 99%			+/- 18.6664	µg/mL	Stressed
7	2-Chlorophenol		1,006.4 µg/mL	+/- 5.8510	µg/mL	Gravimetric
	CAS # 95-57-8	(Lot MKBD3900V)		+/- 11.0182	µg/mL	Unstressed
	Purity 99%			+/- 18.6887	µg/mL	Stressed
8	1,3-Dichlorobenzene		1,009.2 µg/mL	+/- 5.8673	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBC1891V)		+/- 11.0489	µg/mL	Unstressed
	Purity 99%			+/- 18.7407	µg/mL	Stressed

9	1,4-Dichlorobenzene		1,003.8	µg/mL	+/-	5.8359	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBL3891V)			+/-	10.9898	µg/mL	Unstressed
	Purity 99%				+/-	18.6404	µg/mL	Stressed
10	1,2-Dichlorobenzene		1,001.3	µg/mL	+/-	5.8214	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot 68996CMV)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5940	µg/mL	Stressed
11	Benzyl alcohol		1,006.0	µg/mL	+/-	5.8490	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBC1850V)			+/-	11.0144	µg/mL	Unstressed
	Purity 99%				+/-	18.6822	µg/mL	Stressed
12	2,2'-oxybis(1-chloropropane)		998.6	µg/mL	+/-	5.8060	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 22-GHZ-160-1)			+/-	10.9335	µg/mL	Unstressed
	Purity 97%				+/-	18.5451	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBC1479V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
14	Acetophenone		1,003.2	µg/mL	+/-	5.8324	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot MKBH7920V)			+/-	10.9832	µg/mL	Unstressed
	Purity 99%				+/-	18.6293	µg/mL	Stressed
15	Hexachloroethane		1,008.3	µg/mL	+/-	5.8621	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot 4H3SF)			+/-	11.0390	µg/mL	Unstressed
	Purity 99%				+/-	18.7240	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine		1,003.7	µg/mL	+/-	5.8356	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot OPAGF)			+/-	10.9892	µg/mL	Unstressed
	Purity 99%				+/-	18.6395	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		501.5	µg/mL	+/-	2.9155	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot 49396APV)			+/-	5.4902	µg/mL	Unstressed
	Purity 99%				+/-	9.3123	µg/mL	Stressed
18	3-Methylphenol (m-cresol)		500.0	µg/mL	+/-	2.9070	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot SHBD0627V)			+/-	5.4743	µg/mL	Unstressed
	Purity 99%				+/-	9.2854	µg/mL	Stressed
19	n-Decane (C10)		1,007.6	µg/mL	+/-	5.8583	µg/mL	Gravimetric
	CAS # 124-18-5	(Lot SHBC4624V)			+/-	11.0319	µg/mL	Unstressed
	Purity 99%				+/-	18.7119	µg/mL	Stressed
20	n-Octadecane (C18)		1,004.5	µg/mL	+/-	5.8402	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	10.9980	µg/mL	Unstressed
	Purity 99%				+/-	18.6544	µg/mL	Stressed
21	Nitrobenzene		1,000.7	µg/mL	+/-	5.8179	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBB0245V)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5829	µg/mL	Stressed
22	Isophorone		1,000.1	µg/mL	+/-	5.8148	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot 06705DE)			+/-	10.9500	µg/mL	Unstressed
	Purity 97%				+/-	18.5730	µg/mL	Stressed
23	2-Nitrophenol		1,005.1	µg/mL	+/-	5.8437	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCBH7602V)			+/-	11.0045	µg/mL	Unstressed
	Purity 99%				+/-	18.6655	µg/mL	Stressed
24	2,4-Dimethylphenol		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot 10165155)			+/-	10.9711	µg/mL	Unstressed
	Purity 99%				+/-	18.6089	µg/mL	Stressed

25	Bis(2-chloroethoxy)methane		1,006.3	µg/mL	+/-	5.8507	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 2238100)			+/-	11.0177	µg/mL	Unstressed
	Purity 99%				+/-	18.6878	µg/mL	Stressed
26	2,4-Dichlorophenol		1,009.7	µg/mL	+/-	5.8705	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	11.0549	µg/mL	Unstressed
	Purity 99%				+/-	18.7509	µg/mL	Stressed
27	1,2,4-Trichlorobenzene		1,000.7	µg/mL	+/-	5.8179	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5829	µg/mL	Stressed
28	Naphthalene		1,001.0	µg/mL	+/-	5.8196	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9591	µg/mL	Unstressed
	Purity 99%				+/-	18.5884	µg/mL	Stressed
29	4-Chloroaniline		999.5	µg/mL	+/-	5.8112	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9432	µg/mL	Unstressed
	Purity 98%				+/-	18.5615	µg/mL	Stressed
30	Hexachlorobutadiene		1,001.9	µg/mL	+/-	5.8249	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9690	µg/mL	Unstressed
	Purity 98%				+/-	18.6052	µg/mL	Stressed
31	2-Methylnaphthalene		1,006.1	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	11.0158	µg/mL	Unstressed
	Purity 96%				+/-	18.6846	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,004.2	µg/mL	+/-	5.8382	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9941	µg/mL	Unstressed
	Purity 99%				+/-	18.6479	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.6	µg/mL	+/-	5.8173	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 5250.00-10)			+/-	10.9547	µg/mL	Unstressed
	Purity 99%				+/-	18.5810	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,009.5	µg/mL	+/-	5.8690	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 2220500)			+/-	11.0522	µg/mL	Unstressed
	Purity 99%				+/-	18.7463	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,008.9	µg/mL	+/-	5.8658	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	11.0461	µg/mL	Unstressed
	Purity 99%				+/-	18.7361	µg/mL	Stressed
38	2-Chloronaphthalene		1,004.8	µg/mL	+/-	5.8417	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	11.0007	µg/mL	Unstressed
	Purity 99%				+/-	18.6590	µg/mL	Stressed
39	Biphenyl		1,005.6	µg/mL	+/-	5.8464	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0095	µg/mL	Unstressed
	Purity 99%				+/-	18.6739	µg/mL	Stressed
40	2-Nitroaniline		1,007.1	µg/mL	+/-	5.8551	µg/mL	Gravimetric
	CAS # 88-74-4	(Lot MKBF9132V)			+/-	11.0259	µg/mL	Unstressed
	Purity 99%				+/-	18.7017	µg/mL	Stressed

41	Acenaphthylene		1,005.6	µg/mL	+/-	5.8466	µg/mL	Gravimetric
	CAS # 208-96-8	(Lot ER030707-01)			+/-	11.0100	µg/mL	Unstressed
	Purity 99%				+/-	18.6748	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,006.2	µg/mL	+/-	5.8498	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)			+/-	11.0160	µg/mL	Unstressed
	Purity 99%				+/-	18.6850	µg/mL	Stressed
43	Dimethylphthalate		1,004.0	µg/mL	+/-	5.8371	µg/mL	Gravimetric
	CAS # 131-11-3	(Lot 10117699)			+/-	10.9919	µg/mL	Unstressed
	Purity 99%				+/-	18.6441	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,003.3	µg/mL	+/-	5.8330	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6311	µg/mL	Stressed
45	Acenaphthene		1,003.7	µg/mL	+/-	5.8353	µg/mL	Gravimetric
	CAS # 83-32-9	(Lot MKBJ4871V)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6386	µg/mL	Stressed
46	3-Nitroaniline		1,004.4	µg/mL	+/-	5.8396	µg/mL	Gravimetric
	CAS # 99-09-2	(Lot MKBH5131V)			+/-	10.9967	µg/mL	Unstressed
	Purity 97%				+/-	18.6522	µg/mL	Stressed
47	2,4-Dinitrophenol		2,009.3	µg/mL	+/-	11.6820	µg/mL	Gravimetric
	CAS # 51-28-5	(Lot MKBP5833V)			+/-	21.9987	µg/mL	Unstressed
	Purity 99%				+/-	37.3133	µg/mL	Stressed
48	Dibenzofuran		1,008.5	µg/mL	+/-	5.8635	µg/mL	Gravimetric
	CAS # 132-64-9	(Lot MKBK2375V)			+/-	11.0418	µg/mL	Unstressed
	Purity 99%				+/-	18.7286	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,004.8	µg/mL	+/-	5.8417	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)			+/-	11.0007	µg/mL	Unstressed
	Purity 99%				+/-	18.6590	µg/mL	Stressed
50	4-Nitrophenol		2,000.6	µg/mL	+/-	11.6317	µg/mL	Gravimetric
	CAS # 100-02-7	(Lot MKBK1842V)			+/-	21.9040	µg/mL	Unstressed
	Purity 99%				+/-	37.1527	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 58-90-2	(Lot ER100206-01)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
52	Fluorene		1,000.4	µg/mL	+/-	5.8161	µg/mL	Gravimetric
	CAS # 86-73-7	(Lot BCBF8646V)			+/-	10.9525	µg/mL	Unstressed
	Purity 99%				+/-	18.5773	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,001.3	µg/mL	+/-	5.8214	µg/mL	Gravimetric
	CAS # 7005-72-3	(Lot MKBM4925V)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5940	µg/mL	Stressed
54	Diethylphthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 84-66-2	(Lot MKBJ3578V)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
55	4-Nitroaniline		1,006.9	µg/mL	+/-	5.8539	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	11.0237	µg/mL	Unstressed
	Purity 99%				+/-	18.6980	µg/mL	Stressed
56	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,003.0	µg/mL	+/-	11.6456	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC02329V)			+/-	21.9302	µg/mL	Unstressed
	Purity 99%				+/-	37.1973	µg/mL	Stressed

57	Azobenzene		1,006.5	µg/mL	+/-	5.8516	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot 130305JLM)			+/-	11.0193	µg/mL	Unstressed
	Purity 99%				+/-	18.6906	µg/mL	Stressed
58	4-Bromophenyl phenyl ether		1,003.7	µg/mL	+/-	5.8353	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6386	µg/mL	Stressed
59	Hexachlorobenzene		1,008.0	µg/mL	+/-	5.8606	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LB93343V)			+/-	11.0363	µg/mL	Unstressed
	Purity 99%				+/-	18.7193	µg/mL	Stressed
60	Pentachlorophenol		2,006.3	µg/mL	+/-	11.6648	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 130826JLM)			+/-	21.9664	µg/mL	Unstressed
	Purity 99%				+/-	37.2586	µg/mL	Stressed
61	Phenanthrene		1,004.4	µg/mL	+/-	5.8394	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBJ4205V)			+/-	10.9963	µg/mL	Unstressed
	Purity 99%				+/-	18.6516	µg/mL	Stressed
62	Anthracene		1,007.3	µg/mL	+/-	5.8565	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	11.0286	µg/mL	Unstressed
	Purity 99%				+/-	18.7064	µg/mL	Stressed
63	n-Hexadecane (C16)		1,001.9	µg/mL	+/-	5.8248	µg/mL	Gravimetric
	CAS # 544-76-3	(Lot SHBC3991V)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.6051	µg/mL	Stressed
64	Carbazole		1,001.8	µg/mL	+/-	5.8246	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9685	µg/mL	Unstressed
	Purity 98%				+/-	18.6043	µg/mL	Stressed
65	Di-n-butylphthalate		1,002.5	µg/mL	+/-	5.8286	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBG1851V)			+/-	10.9761	µg/mL	Unstressed
	Purity 99%				+/-	18.6172	µg/mL	Stressed
66	Fluoranthene		1,009.4	µg/mL	+/-	5.8685	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot 00828AJ)			+/-	11.0511	µg/mL	Unstressed
	Purity 98%				+/-	18.7444	µg/mL	Stressed
67	Pyrene		1,004.0	µg/mL	+/-	5.8371	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9921	µg/mL	Unstressed
	Purity 98%				+/-	18.6443	µg/mL	Stressed
68	Benzyl butyl phthalate		1,005.4	µg/mL	+/-	5.8452	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	11.0073	µg/mL	Unstressed
	Purity 99%				+/-	18.6701	µg/mL	Stressed
69	Benz(a)anthracene		1,006.4	µg/mL	+/-	5.8513	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	11.0188	µg/mL	Unstressed
	Purity 99%				+/-	18.6896	µg/mL	Stressed
70	Chrysene		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot PR121912-01)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed
71	Bis(2-ethylhexyl)phthalate		1,000.9	µg/mL	+/-	5.8190	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBH9511V)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5866	µg/mL	Stressed
72	Di-n-octyl phthalate		1,002.3	µg/mL	+/-	5.8272	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 1674300)			+/-	10.9733	µg/mL	Unstressed
	Purity 99%				+/-	18.6126	µg/mL	Stressed

73	Benzo(b)fluoranthene		999.5	µg/mL	+/-	5.8109	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER022008-02)			+/-	10.9427	µg/mL	Unstressed
	Purity 99%				+/-	18.5606	µg/mL	Stressed
74	Benzo(k)fluoranthene		1,003.9	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER061608-02)			+/-	10.9914	µg/mL	Unstressed
	Purity 99%				+/-	18.6432	µg/mL	Stressed
75	Benzo(a)pyrene		1,008.3	µg/mL	+/-	5.8621	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/-	11.0390	µg/mL	Unstressed
	Purity 99%				+/-	18.7240	µg/mL	Stressed
76	Indeno(1,2,3-cd)pyrene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
77	Dibenz(a,h)anthracene		999.4	µg/mL	+/-	5.8103	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	10.9416	µg/mL	Unstressed
	Purity 99%				+/-	18.5587	µg/mL	Stressed
78	Benzo(g,h,i)perylene		1,001.7	µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/-	10.9673	µg/mL	Unstressed
	Purity 99%				+/-	18.6024	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

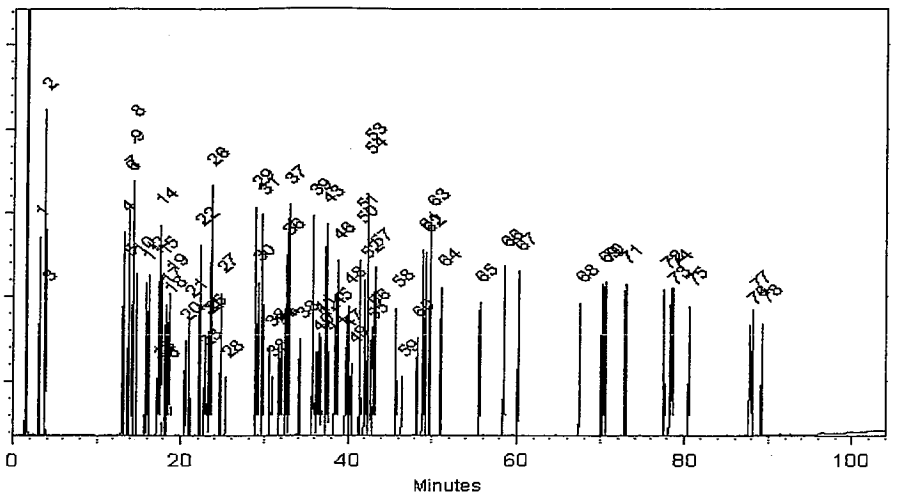
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawver

Date Mixed: 26-Feb-2014 **Balance:** 1128360905

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 04-Mar-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 S1_00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD8744V)	1,004.4 µg/mL	+/- 5.8397 µg/mL +/- 10.9969 µg/mL +/- 18.6525 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBC7174V)	1,001.0 µg/mL	+/- 5.8199 µg/mL +/- 10.9596 µg/mL +/- 18.5894 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 3213100)	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 10.9509 µg/mL +/- 18.5745 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot K22Z462)	1,002.3 µg/mL	+/- 5.8275 µg/mL +/- 10.9739 µg/mL +/- 18.6135 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1,000.8 µg/mL	+/- 5.8187 µg/mL +/- 10.9575 µg/mL +/- 18.5856 µg/mL	Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,006.9 µg/mL	+/- 5.8542 µg/mL +/- 11.0242 µg/mL +/- 18.6989 µg/mL	Gravimetric Unstressed Stressed

8	n-Decane (C10)		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 124-18-5	(Lot SHBF1587V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
9	1,4-Dichlorobenzene		1,005.3	µg/mL	+/-	5.8449	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBL3891V)			+/-	11.0067	µg/mL	Unstressed
	Purity 99%				+/-	18.6692	µg/mL	Stressed
10	1,3-Dichlorobenzene		1,002.0	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBC1891V)			+/-	10.9706	µg/mL	Unstressed
	Purity 99%				+/-	18.6079	µg/mL	Stressed
11	1,2-Dichlorobenzene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot 68996CMV)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
12	Benzyl alcohol		1,000.4	µg/mL	+/-	5.8164	µg/mL	Gravimetric
	CAS # 100-51-6	(Lot SHBC1850V)			+/-	10.9531	µg/mL	Unstressed
	Purity 99%				+/-	18.5782	µg/mL	Stressed
13	2,2'-oxybis(1-chloropropane)		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-60-1	(Lot 2-EAW-18-3)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
14	2-Methylphenol (o-cresol)		1,003.6	µg/mL	+/-	5.8350	µg/mL	Gravimetric
	CAS # 95-48-7	(Lot SHBC1479V)			+/-	10.9881	µg/mL	Unstressed
	Purity 99%				+/-	18.6376	µg/mL	Stressed
15	Hexachloroethane		1,005.9	µg/mL	+/-	5.8484	µg/mL	Gravimetric
	CAS # 67-72-1	(Lot 4H3SF)			+/-	11.0133	µg/mL	Unstressed
	Purity 99%				+/-	18.6804	µg/mL	Stressed
16	Acetophenone		1,002.7	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 98-86-2	(Lot MKBR7156V)			+/-	10.9783	µg/mL	Unstressed
	Purity 99%				+/-	18.6209	µg/mL	Stressed
17	N-Nitroso-di-n-propylamine		1,003.9	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 621-64-7	(Lot OPAGF)			+/-	10.9914	µg/mL	Unstressed
	Purity 99%				+/-	18.6432	µg/mL	Stressed
18	4-Methylphenol (p-cresol)		500.4	µg/mL	+/-	2.9161	µg/mL	Gravimetric
	CAS # 106-44-5	(Lot 49396APV)			+/-	5.4823	µg/mL	Unstressed
	Purity 99%				+/-	9.2949	µg/mL	Stressed
19	3-Methylphenol (m-cresol)		500.2	µg/mL	+/-	2.9149	µg/mL	Gravimetric
	CAS # 108-39-4	(Lot SHBD0627V)			+/-	5.4801	µg/mL	Unstressed
	Purity 99%				+/-	9.2912	µg/mL	Stressed
20	Nitrobenzene		1,001.1	µg/mL	+/-	5.8205	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot 65096APV)			+/-	10.9607	µg/mL	Unstressed
	Purity 99%				+/-	18.5912	µg/mL	Stressed
21	Isophorone		999.3	µg/mL	+/-	5.8100	µg/mL	Gravimetric
	CAS # 78-59-1	(Lot 06705DE)			+/-	10.9410	µg/mL	Unstressed
	Purity 97%				+/-	18.5577	µg/mL	Stressed
22	2-Nitrophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5	(Lot BCBH7602V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
23	2,4-Dimethylphenol		1,003.2	µg/mL	+/-	5.8327	µg/mL	Gravimetric
	CAS # 105-67-9	(Lot 10165155)			+/-	10.9837	µg/mL	Unstressed
	Purity 99%				+/-	18.6302	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,004.5	µg/mL	+/-	5.8402	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 317200)			+/-	10.9980	µg/mL	Unstressed
	Purity 99%				+/-	18.6544	µg/mL	Stressed
25	2,4-Dichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot 26896BM)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
27	Naphthalene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
29	4-Chloroaniline		1,000.3	µg/mL	+/-	5.8157	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9518	µg/mL	Unstressed
	Purity 98%				+/-	18.5761	µg/mL	Stressed
30	Hexachlorobutadiene		999.9	µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot K22W009)			+/-	10.9475	µg/mL	Unstressed
	Purity 98%				+/-	18.5688	µg/mL	Stressed
31	2-Methylnaphthalene		998.6	µg/mL	+/-	5.8059	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	10.9333	µg/mL	Unstressed
	Purity 96%				+/-	18.5446	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
33	1-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,002.4	µg/mL	+/-	5.8280	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3140300)			+/-	10.9750	µg/mL	Unstressed
	Purity 99%				+/-	18.6154	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBH7393V)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
39	Biphenyl		1,006.1	µg/mL	+/-	5.8496	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	11.0155	µg/mL	Unstressed
	Purity 99%				+/-	18.6841	µg/mL	Stressed

40	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKBK7597V)	1,004.6	µg/mL	+/- 5.8408 +/- 10.9991 +/- 18.6562	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthylene **CAS #** 208-96-8 **Purity** 99%	(Lot ER030707-01)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot BCBB1436V)	1,006.4	µg/mL	+/- 5.8513 +/- 11.0188 +/- 18.6896	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,001.0	µg/mL	+/- 5.8199 +/- 10.9596 +/- 18.5894	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	2,6-Dimitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot 1437483V)	1,001.6	µg/mL	+/- 5.8234 +/- 10.9662 +/- 18.6005	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKBP0384V)	1,001.8	µg/mL	+/- 5.8246 +/- 10.9684 +/- 18.6042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot MKBP5833V)	2,008.7	µg/mL	+/- 11.6788 +/- 21.9927 +/- 37.3031	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKBK2375V)	1,001.8	µg/mL	+/- 5.8246 +/- 10.9684 +/- 18.6042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKBH5131V)	1,001.3	µg/mL	+/- 5.8216 +/- 10.9629 +/- 18.5949	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,001.7	µg/mL	+/- 5.8240 +/- 10.9673 +/- 18.6024	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKBK1842V)	2,001.0	µg/mL	+/- 11.6340 +/- 21.9083 +/- 37.1601	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot FN10221307)	1,002.1	µg/mL	+/- 5.8263 +/- 10.9717 +/- 18.6098	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Fluorene **CAS #** 86-73-7 **Purity** 98%	(Lot 10174662)	1,000.5	µg/mL	+/- 5.8169 +/- 10.9540 +/- 18.5797	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKBL1347V)	1,000.4	µg/mL	+/- 5.8164 +/- 10.9531 +/- 18.5782	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	n-Hexadecane (C16) **CAS #** 544-76-3 **Purity** 99%	(Lot SHBD4570V)	1,002.2	µg/mL	+/- 5.8269 +/- 10.9728 +/- 18.6116	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot MKBJ3578V)	1,001.1	µg/mL	+/- 5.8205 +/- 10.9607 +/- 18.5912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

72	Chrysene		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot ER120810-02)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 117-81-7	(Lot MKBK2695V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 117-84-0	(Lot 3128600)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,000.1	µg/mL	+/-	5.8147	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot ER03101401)			+/-	10.9498	µg/mL	Unstressed
	Purity 99%				+/-	18.5726	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,003.3	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot ER041513-01)			+/-	10.9848	µg/mL	Unstressed
	Purity 99%				+/-	18.6321	µg/mL	Stressed
77	Benzo(a)pyrene		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot ER071309-02)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/-	5.8176	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot ER082107-02)			+/-	10.9553	µg/mL	Unstressed
	Purity 99%				+/-	18.5819	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,004.4	µg/mL	+/-	5.8397	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	10.9969	µg/mL	Unstressed
	Purity 99%				+/-	18.6525	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot ER020708-08)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

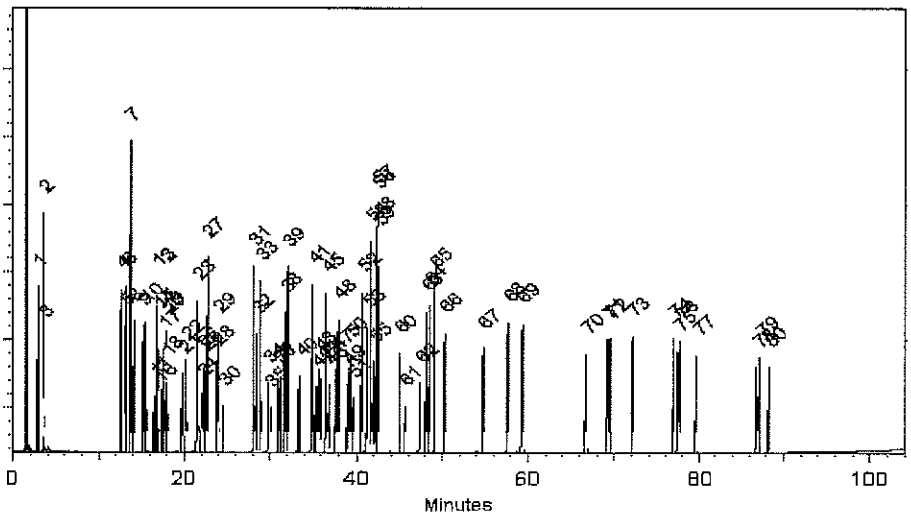
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0107943

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Indene		2,001.4	µg/mL	+/- 11.6363	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBP3098V)			+/- 22.5687	µg/mL	Unstressed
	Purity 99%				+/- 25.9700	µg/mL	Stressed
2	Benzoic acid		2,005.8	µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)			+/- 22.6183	µg/mL	Unstressed
	Purity 99%				+/- 26.0271	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

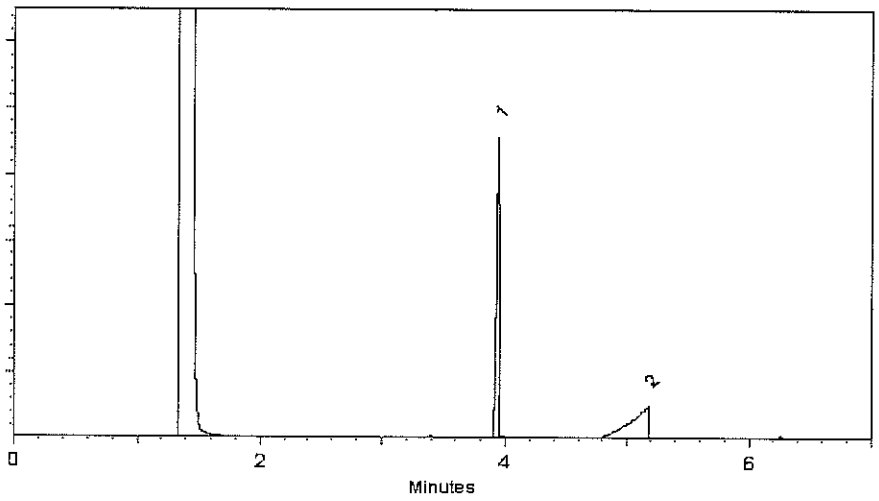
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 22-Dec-2014 **Balance:** 1128360905

Tyler Brown - QA Analyst

Date Passed: 29-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569732 **Lot No.:** A0108035

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzaldehyde **CAS #** 100-52-7 (Lot SHBD3510V) **Purity** 99%	2,000.6 µg/mL	+/- 11.6317 µg/mL +/- 64.1305 µg/mL +/- 74.5493 µg/mL	Gravimetric Unstressed Stressed
2	epsilon-Caprolactam **CAS #** 105-60-2 (Lot I16X016) **Purity** 99%	2,001.2 µg/mL	+/- 11.6351 µg/mL +/- 64.1498 µg/mL +/- 74.5716 µg/mL	Gravimetric Unstressed Stressed
3	Atrazine **CAS #** 1912-24-9 (Lot TZ8ED) **Purity** 98%	2,004.3 µg/mL	+/- 11.6532 µg/mL +/- 64.2490 µg/mL +/- 74.6870 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

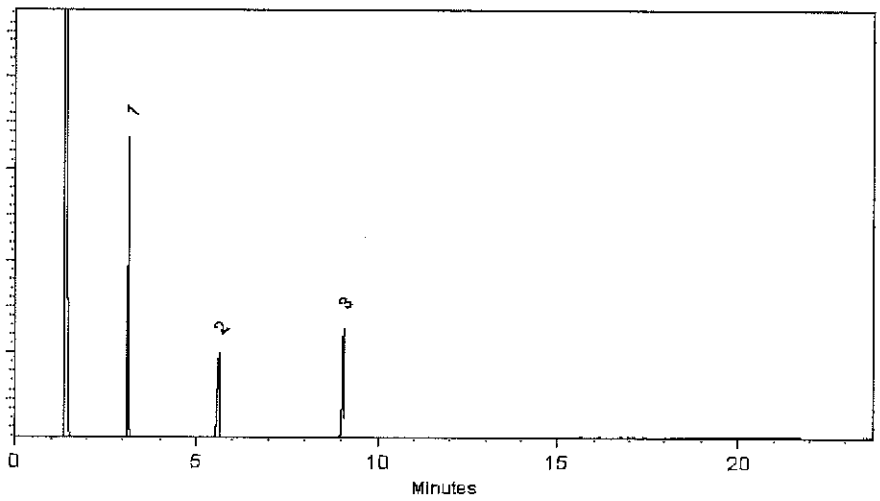
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 30-Dec-2014 **Balance:** 1128360905

Jennifer L. Pollino - QC Analyst

Date Passed: 02-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567673 **Lot No.:** A0100824

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	epsilon-Caprolactam **CAS #** 105-60-2 (Lot 10000218) **Purity** 99%	2,004.8 µg/mL	+/- 11.7653 µg/mL +/- 22.0081 µg/mL +/- 37.2650 µg/mL	Gravimetric Unstressed Stressed
2	Atrazine **CAS #** 1912-24-9 (Lot TZ8ED) **Purity** 98%	2,000.4 µg/mL	+/- 11.7393 µg/mL +/- 21.9596 µg/mL +/- 37.1828 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 140107JLM) **Purity** 99%	2,010.4 µg/mL	+/- 11.7982 µg/mL +/- 22.0696 µg/mL +/- 37.3691 µg/mL	Gravimetric Unstressed Stressed
4	3,3'-Dichlorobenzidine **CAS #** 91-94-1 (Lot 140109JLM) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 21.9554 µg/mL +/- 37.1758 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

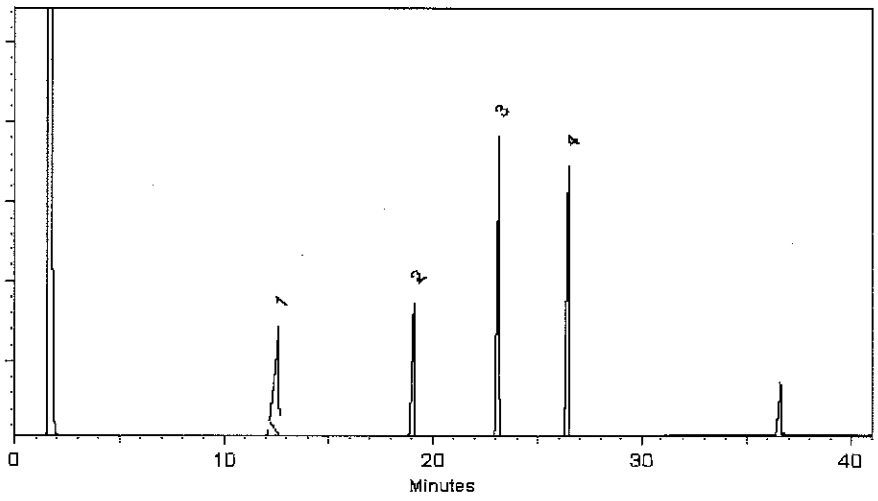
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawyer

Date Mixed: 22-Jan-2014 **Balance:** 1128360905

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 26-Jan-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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SM LIST1 57_ 00001

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568725 **Lot No.:** A0101573

Description : 8270 List 1/ Std #7 Diphenylamine

8270 List 1/ Std #7 Diphenylamine 1,710 µg/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diphenylamine	1,706.8 µg/mL	+/- 10.0165	µg/mL	Gravimetric
	CAS # 122-39-4 (Lot 07525MF)		+/- 18.7368	µg/mL	Unstressed
	Purity 99%		+/- 31.7258	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.

Tech Tips:

N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

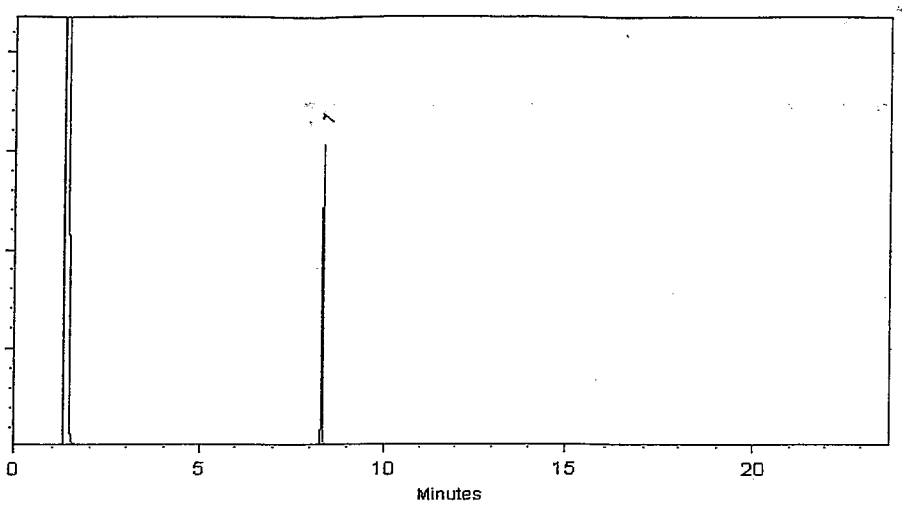
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sauver

Jennifer L Pollino

Jennifer L. Pollino - QC Analyst

Date Mixed: 25-Feb-2014 **Balance:** 1128360905

Date Passed: 27-Feb-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568724 **Lot No.:** A0105548

Description : 8270 List 1/ Std #8

8270 List 1/ Std #8 2,000 µg/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde		2,008.0 µg/mL	+/- 11.7841	µg/mL	Gravimetric
	CAS # 100-52-7	(Lot SHBC6366V)		+/- 64.3877	µg/mL	Unstressed
	Purity 99%			+/- 74.8422	µg/mL	Stressed
2	Indene		2,004.0 µg/mL	+/- 11.7606	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBH4027V)		+/- 64.2594	µg/mL	Unstressed
	Purity 99%			+/- 74.6931	µg/mL	Stressed
3	Benzoic acid		2,013.0 µg/mL	+/- 11.8134	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)		+/- 64.5480	µg/mL	Unstressed
	Purity 99%			+/- 75.0285	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

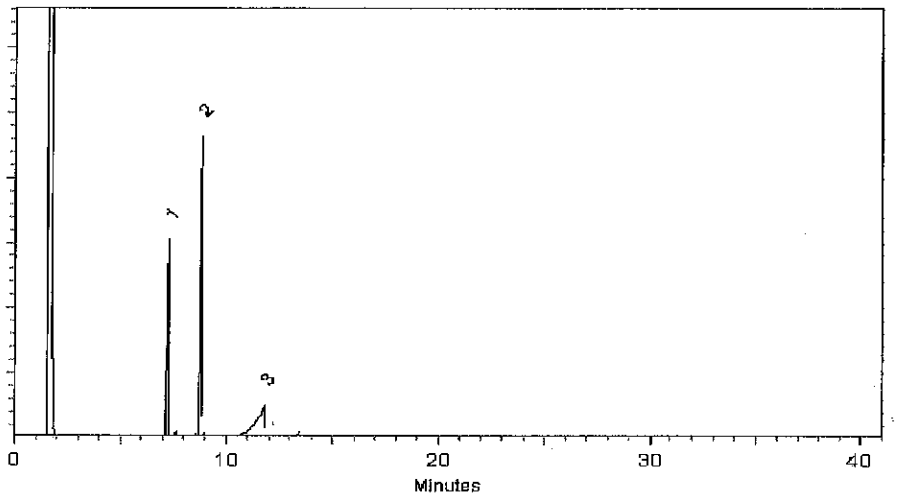
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 22-Aug-2014 **Balance:** 1128342313

Jennifer L. Pollino - QC Analyst

Date Passed: 26-Aug-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730 **Lot No.:** A0108174

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	2,008.4 µg/mL	+/- 11.6770 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 141208JLM)		+/- 21.9894 µg/mL	Unstressed
	Purity 99%		+/- 37.2976 µg/mL	Stressed
2	3,3'-Dichlorobenzidine	2,003.0 µg/mL	+/- 11.6456 µg/mL	Gravimetric
	CAS # 91-94-1 (Lot 141205JLM)		+/- 21.9302 µg/mL	Unstressed
	Purity 99%		+/- 37.1973 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

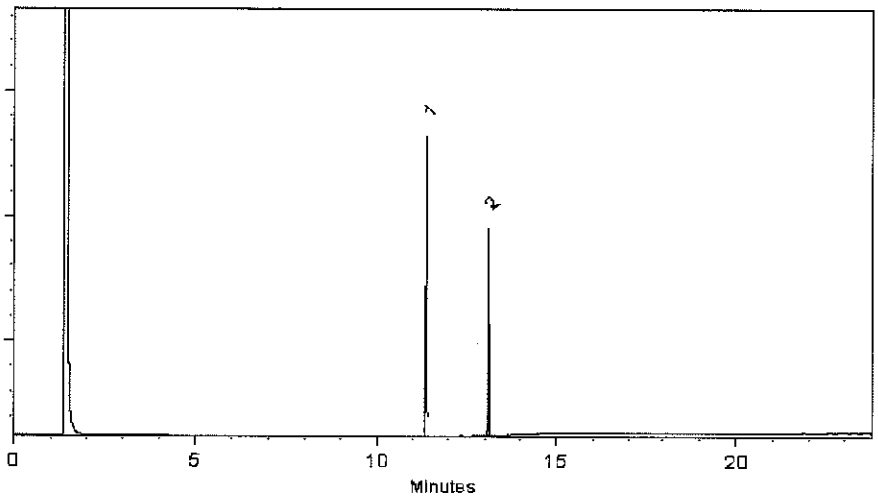
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sauver

Jennifer L. Pollino - QC Analyst

Date Mixed: 07-Jan-2015 **Balance:** 1122030677

Date Passed: 13-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729.SEC **Lot No.:** A0107697

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane **CAS #** 123-91-1.SEC (Lot CHA4A) **Purity** 99%	1,005.6 µg/mL	+/- 5.8602 µg/mL +/- 11.0172 µg/mL +/- 18.6790 µg/mL	Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1.SEC (Lot QN8DK) **Purity** 99%	1,000.2 µg/mL	+/- 5.8287 µg/mL +/- 10.9580 µg/mL +/- 18.5787 µg/mL	Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9.SEC (Lot 41B67) **Purity** 98%	1,004.1 µg/mL	+/- 5.8515 µg/mL +/- 11.0008 µg/mL +/- 18.6513 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3.SEC (Lot ZCD3N) **Purity** 99%	1,002.8 µg/mL	+/- 5.8438 µg/mL +/- 10.9865 µg/mL +/- 18.6270 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4.SEC (Lot FA010143) **Purity** 99%	1,002.4 µg/mL	+/- 5.8415 µg/mL +/- 10.9821 µg/mL +/- 18.6196 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8.SEC (Lot GJ01) **Purity** 99%	1,006.0 µg/mL	+/- 5.8625 µg/mL +/- 11.0216 µg/mL +/- 18.6864 µg/mL	Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2.SEC (Lot EDPYN) **Purity** 99%	1,004.2 µg/mL	+/- 5.8520 µg/mL +/- 11.0019 µg/mL +/- 18.6530 µg/mL	Gravimetric Unstressed Stressed

8	n-Decane (C10)		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 124-18-5.SEC	(Lot UCVNN)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
9	1,4-Dichlorobenzene		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	11.0128	µg/mL	Unstressed
	Purity 99%				+/-	18.6716	µg/mL	Stressed
10	1,3-Dichlorobenzene		1,004.2	µg/mL	+/-	5.8520	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD-KA)			+/-	11.0019	µg/mL	Unstressed
	Purity 99%				+/-	18.6530	µg/mL	Stressed
11	1,2-Dichlorobenzene		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot 4NRGF-OT)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
12	Benzyl alcohol		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 100-51-6.SEC	(Lot QZBUO)			+/-	11.0084	µg/mL	Unstressed
	Purity 99%				+/-	18.6642	µg/mL	Stressed
13	2,2'-oxybis(1-chloropropane)		1,002.2	µg/mL	+/-	5.8403	µg/mL	Gravimetric
	CAS # 108-60-1 *	(Lot 2-EAW-18-3)			+/-	10.9799	µg/mL	Unstressed
	Purity 99%				+/-	18.6159	µg/mL	Stressed
14	2-Methylphenol (o-cresol)		1,002.9	µg/mL	+/-	5.8446	µg/mL	Gravimetric
	CAS # 95-48-7.SEC	(Lot NC7HL)			+/-	10.9880	µg/mL	Unstressed
	Purity 98%				+/-	18.6295	µg/mL	Stressed
15	Hexachloroethane		1,005.1	µg/mL	+/-	5.8572	µg/mL	Gravimetric
	CAS # 67-72-1.SEC	(Lot 10173016)			+/-	11.0116	µg/mL	Unstressed
	Purity 98%				+/-	18.6695	µg/mL	Stressed
16	Acetophenone		1,004.4	µg/mL	+/-	5.8532	µg/mL	Gravimetric
	CAS # 98-86-2.SEC	(Lot NSGTI)			+/-	11.0040	µg/mL	Unstressed
	Purity 99%				+/-	18.6567	µg/mL	Stressed
17	N-Nitroso-di-n-propylamine		1,001.2	µg/mL	+/-	5.8345	µg/mL	Gravimetric
	CAS # 621-64-7.SEC	(Lot 1528900)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.5973	µg/mL	Stressed
18	4-Methylphenol (p-cresol)		500.8	µg/mL	+/-	2.9184	µg/mL	Gravimetric
	CAS # 106-44-5.SEC	(Lot 65S2E)			+/-	5.4867	µg/mL	Unstressed
	Purity 99%				+/-	9.3024	µg/mL	Stressed
19	3-Methylphenol (m-cresol)		502.8	µg/mL	+/-	2.9301	µg/mL	Gravimetric
	CAS # 108-39-4.SEC	(Lot 6LHTM)			+/-	5.5086	µg/mL	Unstressed
	Purity 99%				+/-	9.3395	µg/mL	Stressed
20	Nitrobenzene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 98-95-3.SEC	(Lot FLYIG)			+/-	10.9668	µg/mL	Unstressed
	Purity 99%				+/-	18.5936	µg/mL	Stressed
21	Isophorone		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 78-59-1.SEC	(Lot XHGJI)			+/-	10.9909	µg/mL	Unstressed
	Purity 99%				+/-	18.6344	µg/mL	Stressed
22	2-Nitrophenol		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 88-75-5.SEC	(Lot GXJ7J)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
23	2,4-Dimethylphenol		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 105-67-9.SEC	(Lot MKBL3650V)			+/-	10.9756	µg/mL	Unstressed
	Purity 99%				+/-	18.6084	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,005.0	µg/mL	+/-	5.8567	µg/mL	Gravimetric
	CAS # 111-91-1 *	(Lot 317200)			+/-	11.0106	µg/mL	Unstressed
	Purity 99%				+/-	18.6679	µg/mL	Stressed
25	2,4-Dichlorophenol		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 120-83-2.SEC	(Lot FHM01)			+/-	10.9734	µg/mL	Unstressed
	Purity 99%				+/-	18.6047	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot OGO01)			+/-	10.9778	µg/mL	Unstressed
	Purity 99%				+/-	18.6121	µg/mL	Stressed
27	Naphthalene		1,006.4	µg/mL	+/-	5.8648	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	11.0260	µg/mL	Unstressed
	Purity 99%				+/-	18.6939	µg/mL	Stressed
28	2,6-Dichlorophenol		1,005.6	µg/mL	+/-	5.8602	µg/mL	Gravimetric
	CAS # 87-65-0.SEC	(Lot SIDBB)			+/-	11.0172	µg/mL	Unstressed
	Purity 99%				+/-	18.6790	µg/mL	Stressed
29	4-Chloroaniline		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 106-47-8.SEC	(Lot 10171860)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
30	Hexachlorobutadiene		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 2009400)			+/-	10.9821	µg/mL	Unstressed
	Purity 97%				+/-	18.6195	µg/mL	Stressed
31	2-Methylnaphthalene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	10.9668	µg/mL	Unstressed
	Purity 99%				+/-	18.5936	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,006.8	µg/mL	+/-	5.8671	µg/mL	Gravimetric
	CAS # 59-50-7.SEC	(Lot FDO02)			+/-	11.0303	µg/mL	Unstressed
	Purity 99%				+/-	18.7013	µg/mL	Stressed
33	1-Methylnaphthalene		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 90-12-0.SEC	(Lot UATSA)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 95-94-3.SEC	(Lot AF02)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 77-47-4.SEC	(Lot 0012013)			+/-	10.9997	µg/mL	Unstressed
	Purity 99%				+/-	18.6493	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,006.7	µg/mL	+/-	5.8663	µg/mL	Gravimetric
	CAS # 88-06-2.SEC	(Lot UUMYM)			+/-	11.0288	µg/mL	Unstressed
	Purity 98%				+/-	18.6986	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,002.8	µg/mL	+/-	5.8438	µg/mL	Gravimetric
	CAS # 95-95-4.SEC	(Lot MKBQ9937V)			+/-	10.9864	µg/mL	Unstressed
	Purity 97%				+/-	18.6267	µg/mL	Stressed
38	2-Chloronaphthalene		1,006.4	µg/mL	+/-	5.8648	µg/mL	Gravimetric
	CAS # 91-58-7.SEC	(Lot LC03928V)			+/-	11.0260	µg/mL	Unstressed
	Purity 99%				+/-	18.6939	µg/mL	Stressed
39	Biphenyl		1,005.8	µg/mL	+/-	5.8613	µg/mL	Gravimetric
	CAS # 92-52-4.SEC	(Lot 330QE)			+/-	11.0194	µg/mL	Unstressed
	Purity 99%				+/-	18.6827	µg/mL	Stressed

40	4-Nitroaniline		1,005.4	µg/mL	+/-	5.8590	µg/mL	Gravimetric
	CAS # 100-01-6.SEC	(Lot 5ITRC)			+/-	11.0150	µg/mL	Unstressed
	Purity 99%				+/-	18.6753	µg/mL	Stressed
41	Acenaphthylene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 208-96-8.SEC	(Lot 062013)			+/-	10.9558	µg/mL	Unstressed
	Purity 98%				+/-	18.5748	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 99-65-0.SEC	(Lot 3XXLB)			+/-	11.0084	µg/mL	Unstressed
	Purity 99%				+/-	18.6642	µg/mL	Stressed
43	Dimethylphthalate		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 131-11-3.SEC	(Lot 483WC)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5861	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,006.8	µg/mL	+/-	5.8671	µg/mL	Gravimetric
	CAS # 606-20-2.SEC	(Lot GE01)			+/-	11.0303	µg/mL	Unstressed
	Purity 99%				+/-	18.7013	µg/mL	Stressed
45	Acenaphthene		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 83-32-9.SEC	(Lot BWZJE)			+/-	10.9756	µg/mL	Unstressed
	Purity 99%				+/-	18.6084	µg/mL	Stressed
46	2,4-Dinitrophenol		2,006.2	µg/mL	+/-	11.6642	µg/mL	Gravimetric
	CAS # 51-28-5.SEC	(Lot 2TXXH)			+/-	21.9653	µg/mL	Unstressed
	Purity 99%				+/-	37.2567	µg/mL	Stressed
47	Dibenzofuran		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 132-64-9.SEC	(Lot 27ZGC)			+/-	10.9646	µg/mL	Unstressed
	Purity 99%				+/-	18.5899	µg/mL	Stressed
48	3-Nitroaniline		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 99-09-2.SEC	(Lot FGN03)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
49	2,4-Dinitrotoluene		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 121-14-2.SEC	(Lot SHRSA)			+/-	10.9953	µg/mL	Unstressed
	Purity 99%				+/-	18.6419	µg/mL	Stressed
50	4-Nitrophenol		2,004.2	µg/mL	+/-	11.6526	µg/mL	Gravimetric
	CAS # 100-02-7.SEC	(Lot 2J5LB)			+/-	21.9434	µg/mL	Unstressed
	Purity 99%				+/-	37.2196	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,005.4	µg/mL	+/-	5.8590	µg/mL	Gravimetric
	CAS # 58-90-2.SEC	(Lot LB98980V)			+/-	11.0150	µg/mL	Unstressed
	Purity 99%				+/-	18.6753	µg/mL	Stressed
52	Fluorene		995.1	µg/mL	+/-	5.7989	µg/mL	Gravimetric
	CAS # 86-73-7.SEC	(Lot 1240200)			+/-	10.9021	µg/mL	Unstressed
	Purity 98%				+/-	18.4838	µg/mL	Stressed
53	4-Chlorophenyl phenyl ether		1,005.4	µg/mL	+/-	5.8590	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC	(Lot P31G)			+/-	11.0150	µg/mL	Unstressed
	Purity 99%				+/-	18.6753	µg/mL	Stressed
54	n-Hexadecane (C16)		1,005.4	µg/mL	+/-	5.8590	µg/mL	Gravimetric
	CAS # 544-76-3.SEC	(Lot A0328141)			+/-	11.0150	µg/mL	Unstressed
	Purity 99%				+/-	18.6753	µg/mL	Stressed
55	Diethylphthalate		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 84-66-2.SEC	(Lot UMBJC)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed

56	Azobenzene		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 103-33-3.SEC	(Lot JUWAG)			+/-	10.9909	µg/mL	Unstressed
	Purity 99%				+/-	18.6344	µg/mL	Stressed
57	Diphenylamine		1,711.8	µg/mL	+/-	9.9756	µg/mL	Gravimetric
	CAS # 122-39-4.SEC	(Lot 10164691)			+/-	18.7542	µg/mL	Unstressed
	Purity 99%				+/-	31.7967	µg/mL	Stressed
58	2-Nitroaniline		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 88-74-4.SEC	(Lot T6E7B)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,009.8	µg/mL	+/-	11.6852	µg/mL	Gravimetric
	CAS # 534-52-1.SEC	(Lot 1791900)			+/-	22.0047	µg/mL	Unstressed
	Purity 99%				+/-	37.3236	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,003.8	µg/mL	+/-	5.8497	µg/mL	Gravimetric
	CAS # 101-55-3.SEC	(Lot 84C6D)			+/-	10.9975	µg/mL	Unstressed
	Purity 99%				+/-	18.6456	µg/mL	Stressed
61	Hexachlorobenzene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 118-74-1.SEC	(Lot 20625)			+/-	10.9558	µg/mL	Unstressed
	Purity 98%				+/-	18.5748	µg/mL	Stressed
62	Pentachlorophenol		2,002.2	µg/mL	+/-	11.6410	µg/mL	Gravimetric
	CAS # 87-86-5.SEC	(Lot 1239600)			+/-	21.9215	µg/mL	Unstressed
	Purity 99%				+/-	37.1824	µg/mL	Stressed
63	Phenanthrene		1,004.4	µg/mL	+/-	5.8532	µg/mL	Gravimetric
	CAS # 85-01-8.SEC	(Lot 1238300)			+/-	11.0040	µg/mL	Unstressed
	Purity 99%				+/-	18.6567	µg/mL	Stressed
64	n-Octadecane (C18)		1,001.2	µg/mL	+/-	5.8345	µg/mL	Gravimetric
	CAS # 593-45-3.SEC	(Lot G14U045)			+/-	10.9690	µg/mL	Unstressed
	Purity 99%				+/-	18.5973	µg/mL	Stressed
65	Anthracene		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 120-12-7.SEC	(Lot WDFNJ)			+/-	10.9624	µg/mL	Unstressed
	Purity 99%				+/-	18.5861	µg/mL	Stressed
66	Carbazole		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 86-74-8.SEC	(Lot LMIZB)			+/-	10.9756	µg/mL	Unstressed
	Purity 99%				+/-	18.6084	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 84-74-2.SEC	(Lot 42FSG)			+/-	10.9646	µg/mL	Unstressed
	Purity 99%				+/-	18.5899	µg/mL	Stressed
68	Fluoranthene		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 206-44-0.SEC	(Lot FREGF)			+/-	10.9843	µg/mL	Unstressed
	Purity 99%				+/-	18.6233	µg/mL	Stressed
69	Pyrene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 129-00-0.SEC	(Lot ROVJC)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5750	µg/mL	Stressed
70	Benzyl butyl phthalate		1,004.5	µg/mL	+/-	5.8537	µg/mL	Gravimetric
	CAS # 85-68-7.SEC	(Lot GX3GL)			+/-	11.0051	µg/mL	Unstressed
	Purity 98%				+/-	18.6586	µg/mL	Stressed
71	Benz(a)anthracene		999.7	µg/mL	+/-	5.8257	µg/mL	Gravimetric
	CAS # 56-55-3.SEC	(Lot MTENF)			+/-	10.9524	µg/mL	Unstressed
	Purity 97%				+/-	18.5691	µg/mL	Stressed

72	chrysene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 218-01-9.SEC	(Lot KQ4SE)			+/-	10.9887	µg/mL	Unstressed
	Purity 99%				+/-	18.6307	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 117-81-7.SEC	(Lot MT8AG)			+/-	10.9953	µg/mL	Unstressed
	Purity 99%				+/-	18.6419	µg/mL	Stressed
74	Di-n-octyl phthalate		1,002.0	µg/mL	+/-	5.8389	µg/mL	Gravimetric
	CAS # 117-84-0.SEC	(Lot O8DLD)			+/-	10.9772	µg/mL	Unstressed
	Purity 98%				+/-	18.6113	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,002.2	µg/mL	+/-	5.8403	µg/mL	Gravimetric
	CAS # 205-99-2.SEC	(Lot 022011)			+/-	10.9799	µg/mL	Unstressed
	Purity 99%				+/-	18.6159	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,006.6	µg/mL	+/-	5.8660	µg/mL	Gravimetric
	CAS # 207-08-9.SEC	(Lot 022011)			+/-	11.0281	µg/mL	Unstressed
	Purity 99%				+/-	18.6976	µg/mL	Stressed
77	Benzo(a)pyrene		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 50-32-8.SEC	(Lot 2IGMD)			+/-	10.9580	µg/mL	Unstressed
	Purity 99%				+/-	18.5787	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 193-39-5.SEC	(Lot 012011)			+/-	10.9558	µg/mL	Unstressed
	Purity 99%				+/-	18.5750	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 53-70-3.SEC	(Lot 0012012)			+/-	10.9821	µg/mL	Unstressed
	Purity 99%				+/-	18.6196	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,007.6	µg/mL	+/-	5.8718	µg/mL	Gravimetric
	CAS # 191-24-2.SEC	(Lot 0022012)			+/-	11.0391	µg/mL	Unstressed
	Purity 99%				+/-	18.7162	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Specific Reference Material Notes:

N-nitrosodiphenylamine 2000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 1710 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

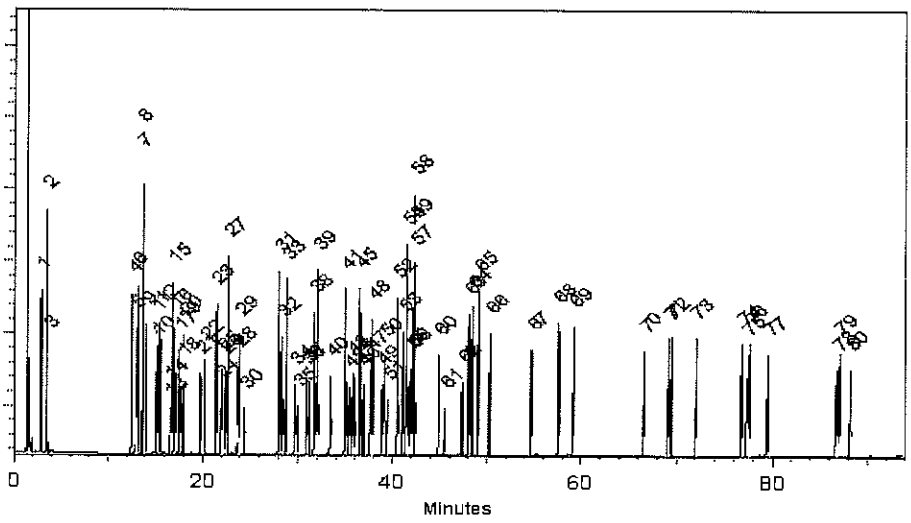
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 10-Dec-2014 **Balance:** 1128353505

Tyler Brown - QA Analyst

Date Passed: 23-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 SS S9_00001

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730.SEC **Lot No.:** A0108170

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine		2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC	(Lot 3241700)		+/- 21.8974	µg/mL	Unstressed
	Purity 99%			+/- 37.1416	µg/mL	Stressed
2	3,3'-Dichlorobenzidine		2,007.4 µg/mL	+/- 11.6712	µg/mL	Gravimetric
	CAS # 91-94-1.SEC	(Lot 2982200)		+/- 21.9784	µg/mL	Unstressed
	Purity 99%			+/- 37.2790	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

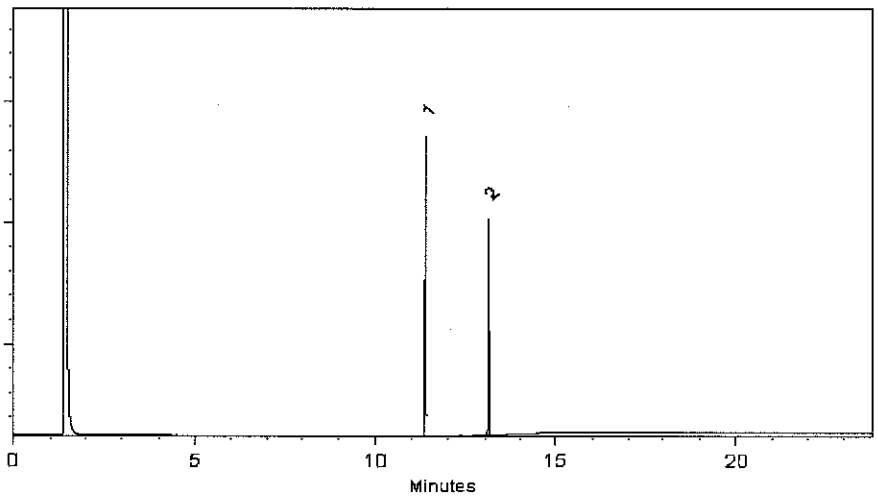
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1128353505

Jennifer L. Pollino - QC Analyst

Date Passed: 13-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SMLIST1 SURR_00003

5MLIST1 SURR-00002

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

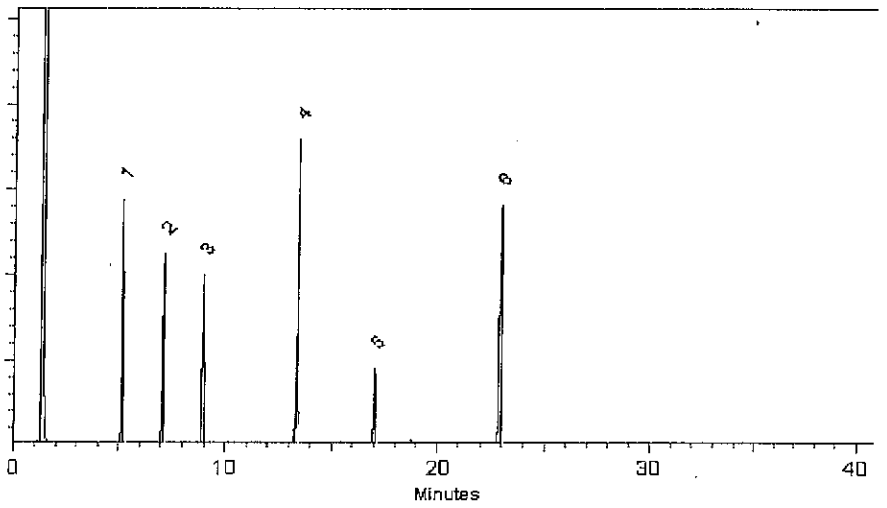
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Diane Shaffer - QA Analyst

Date Passed: 22-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731.sec **Lot No.:** A0107944

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.4 µg/mL	+/- 11.6305	µg/mL	Gravimetric
	CAS # 95-13-6.SEC (Lot IG5TI)		+/- 22.5574	µg/mL	Unstressed
	Purity 99%		+/- 25.9570	µg/mL	Stressed
2	Benzoic acid	2,000.7 µg/mL	+/- 11.6324	µg/mL	Gravimetric
	CAS # 65-85-0.SEC (Lot QD3UO)		+/- 22.5610	µg/mL	Unstressed
	Purity 97%		+/- 25.9612	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

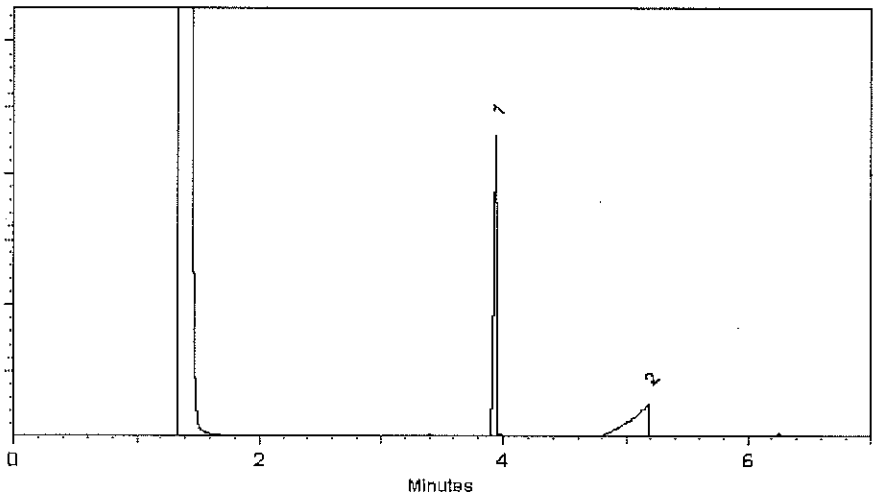
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 22-Dec-2014 **Balance:** 1128353505

Tyler Brown - QA Analyst

Date Passed: 29-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A092712

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.2761 µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9947 µg/mL	Unstressed
	Purity 99%		+/- 163.4399 µg/mL	Stressed
Solvent:	Methylene Chloride			
	CAS # 75-09-2			
	Purity 99%			

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

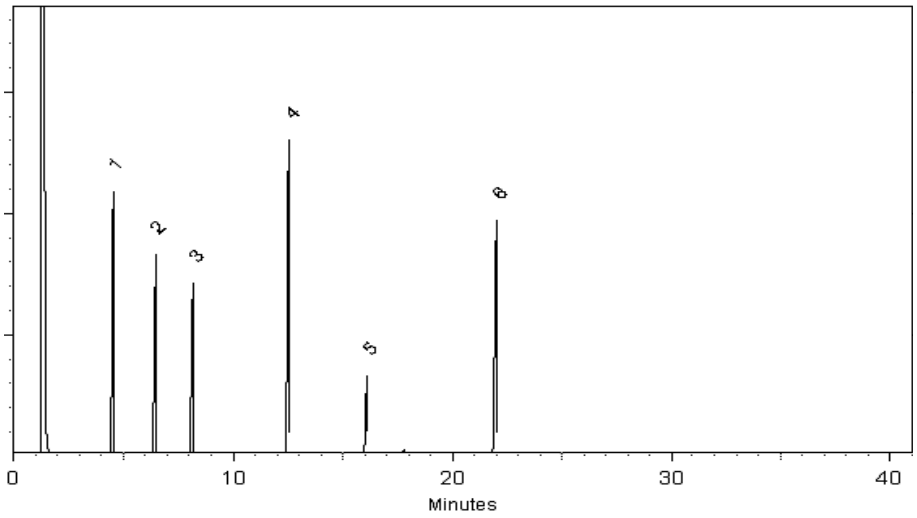
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2013 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

REVIEWED
By jlidgett at 8:46 am, Jan 15, 2013

Reagent

TOX ChemServ_00002

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CERTIFICATE OF ANALYSIS

Camphechlor Solution

CONCENTRATION	1000ug/ml In Hexane
CATALOG NUMBER	S-13586J4-1ML
LOT NUMBER	2180700
DATE CERTIFIED	11/20/13
EXPIRATION DATE	11/30/15
STORAGE	Room Temperature
HANDLING	See MSDS.
INTENDED USE	For laboratory use only.

ID	Analyte	CAS	Weight Analyte (mg)	Lot	Purity	Certified Concentration (ug/mL)
N-13586	Camphechlor	8001-35-2	202.300	1171300	100.00	1011.5

Analytical Test	Value
CONCENTRATION (GC/MSD)	VERIFIED

Instructions for Use:
Mix/shake solution prior to use. If particles are present, sonicate for homogeneity. If sample is diluted to lower concentrations, Class A volumetric glassware must be used.
Minimum Sample Size- 0.2 uL for Direct Injection.
Chem Service Inc. guarantees the expanded uncertainty of the above analyte to be +/- 2.0% of the certified concentration based on gravimetric preparation. The test results published in this report were obtained using equipment capable of producing results that are traceable to NIST and through NIST to the International System of Units (SI). The reported expanded uncertainty of measurement is stated as the combined standard uncertainty of measurement multiplied by the coverage factor k (k=2) such that the coverage probability corresponds to approximately 95%. For certified reference materials, homogeneity and thermal stability testing are available upon request.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ISO 9001
Certificate Number:31610
ISO/IEC 17025
Accreditation Number:83520
ISO GUIDE 34
Accreditation Number:88520

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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	S-13586J4-1ML
Description:	Camphechlor Solution
Lot Number:	2180700
Expiration Date:	11/30/15

ISO 9001
Certificate Number:91610
ISO/IEC 17025
Accreditation Number:68520
ISO GUIDE 84
Accreditation Number:68520

Reagent

Tox Ultra_00006

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

RCVD 10/1/14

Toxaphene Solution

Product Number: EPA-1161 **Page:** 1 of 1

Lot Number: CK-0004 **Lot Issue Date:** 16-Jan-2013 **Expiration Date:** 28-Feb-2017

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
toxaphene	008001-35-2	NT01909	1002 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

William J. Leahy
Quality Assurance Manager

250 SMITH STREET N. KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

Reagent

vm30241_00001

Rec: 10/7/13

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 **Lot No.:** A093261

Description : 8260A Internal Standard Mix

Method 8260A Internal Std 2500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : January 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Fluorobenzene	2,500.0 µg/mL	+/- 14.5352 µg/mL	Gravimetric
	CAS # 462-06-6		+/- 30.1344 µg/mL	Unstressed
	Purity 99%		+/- 34.0022 µg/mL	Stressed
2	Chlorobenzene-d5	2,500.0 µg/mL	+/- 14.5352 µg/mL	Gravimetric
	CAS # 3114-55-4		+/- 30.1344 µg/mL	Unstressed
	Purity 99%		+/- 34.0022 µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,500.0 µg/mL	+/- 14.5352 µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 30.1344 µg/mL	Unstressed
	Purity 99%		+/- 34.0022 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567641_00012

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RECD 7-8-13

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/- 11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/- 44.2519	µg/mL	Unstressed
	Purity 97%		+/- 44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

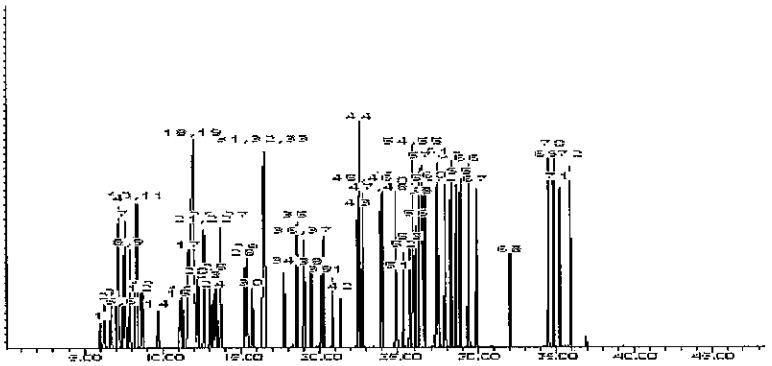
Carrier Gas:
hellium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VM567641S_00006

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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2

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC **Purity** 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9.SEC **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

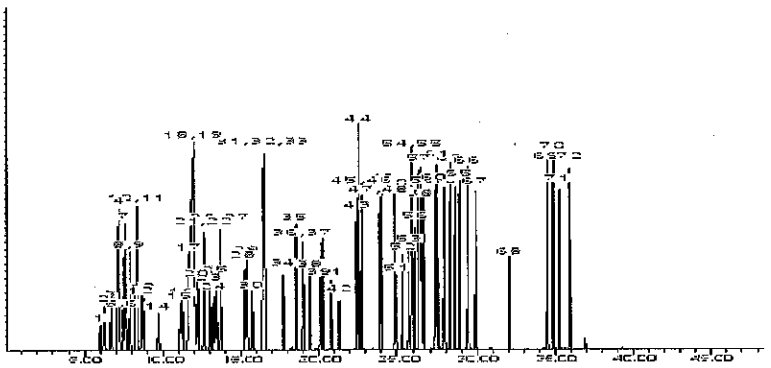
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VM567641S_00007

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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2

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC **Purity** 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9.SEC **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

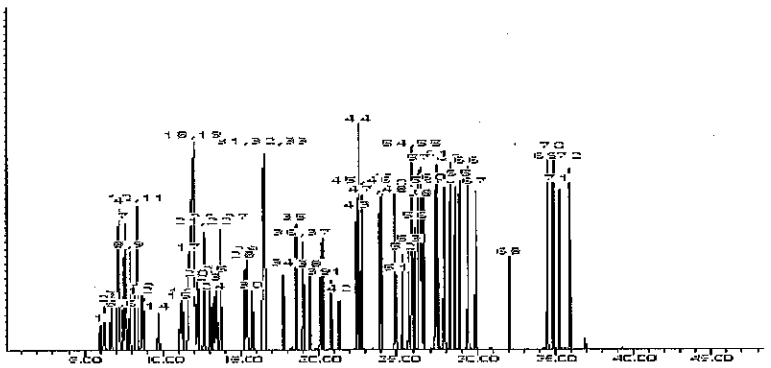
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

VM567642_00014

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM567642S_00003

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM567642S_00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM567643_00020

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LC-CD 7-6-17

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM567645S_00017

VM567645S_00016 Rec: 4/9/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645.sec **Lot No.:** A099261

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : November 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,002.2 µg/mL	+/- 16.7616	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 18348)		+/- 21.2987	µg/mL	Unstressed
	Purity 99%		+/- 24.7536	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 15.8216	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 21.2729	µg/mL	Unstressed
	Purity 99%		+/- 24.7262	µg/mL	Stressed
3	Vinyl chloride	2,001.9 µg/mL	+/- 14.6785	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 21.2759	µg/mL	Unstressed
	Purity 99%		+/- 24.7329	µg/mL	Stressed
4	1,3-Butadiene	2,002.8 µg/mL	+/- 16.7307	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/- 21.3051	µg/mL	Unstressed
	Purity 99%		+/- 24.7611	µg/mL	Stressed
5	Bromomethane (methyl bromide)	1,999.6 µg/mL	+/- 16.2313	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 21.2671	µg/mL	Unstressed
	Purity 99%		+/- 24.7183	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.6721	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot Q18B-13)		+/- 21.2666	µg/mL	Unstressed
	Purity 99%		+/- 24.7221	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.4 µg/mL	+/- 15.1665	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/- 21.3071	µg/mL	Unstressed
	Purity 99%		+/- 24.7678	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.8 µg/mL	+/- 16.2157	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot Q139-99)		+/- 21.2894	µg/mL	Unstressed
	Purity 99%		+/- 24.7442	µg/mL	Stressed

Reagent

VM567646_00016

VM567646_00016 Rec: 11/25/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567646 **Lot No.:** A0107309

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : May 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	4,013.0 µg/mL	+/- 23.5505	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC8935V)		+/- 213.5870	µg/mL	Unstressed
	Purity 99%		+/- 213.8225	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM567650_00021

Rec: 6/6/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0102817

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,503.8 µg/mL	+/- 14.5573	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 022012)		+/- 28.2339	µg/mL	Unstressed
	Purity 99%			+/- 32.4891	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,502.4 µg/mL	+/- 14.5492	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot 13J-483)		+/- 28.2182	µg/mL	Unstressed
	Purity 99%			+/- 32.4709	µg/mL	Stressed
3	Toluene-d8		2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot 13I-050)		+/- 28.1911	µg/mL	Unstressed
	Purity 99%			+/- 32.4398	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,503.6 µg/mL	+/- 14.5561	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 01127COV)		+/- 28.2317	µg/mL	Unstressed
	Purity 99%			+/- 32.4865	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568720_00005

VM568720_00005 Rec: 2/3/15

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0107338

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

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

Expiration Date : March 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein **CAS #** 107-02-8 (Lot 140429JLM) **Purity** 99%	19,759.0 µg/mL	+/- 115.6933 µg/mL +/- 633.5357 µg/mL +/- 736.4159 µg/mL	Gravimetric Unstressed Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720_00006

Vm 56872-__ 00006 Rec'd 3/19/15

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0108734

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

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

Expiration Date : May 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,890.0 µg/mL	+/- 116.4603	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 150115JLM)		+/- 637.7359	µg/mL	Unstressed
	Purity 99%		+/- 741.2982	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

vm569722_00001

VM569722-00001 Rec: 1/15/15

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Reference Material Producer
Certificate #3222.01

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0108198

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,504.8 µg/mL	+/- 21.9788 µg/mL	Gravimetric
✓	**CAS #** 75-71-8 (Lot Q167-08)		+/- 32.6918 µg/mL	Unstressed
	Purity 99%		+/- 36.4326 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,509.8 µg/mL	+/- 19.6377 µg/mL	Gravimetric
✓	**CAS #** 74-87-3 (Lot SHBC8470V)		+/- 31.2039 µg/mL	Unstressed
	Purity 99%		+/- 35.1185 µg/mL	Stressed
3	Vinyl chloride	2,515.3 µg/mL	+/- 22.1368 µg/mL	Gravimetric
✓	**CAS #** 75-01-4 (Lot 17542)		+/- 32.8734 µg/mL	Unstressed
	Purity 99%		+/- 36.6254 µg/mL	Stressed
4	1,3-Butadiene	2,498.0 µg/mL	+/- 23.6713 µg/mL	Gravimetric
✓	**CAS #** 106-99-0 (Lot SHBD5808V)		+/- 33.8065 µg/mL	Unstressed
	Purity 99%		+/- 37.4176 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,503.7 µg/mL	+/- 30.8470 µg/mL	Gravimetric
✓	**CAS #** 74-83-9 (Lot 101604)		+/- 39.2011 µg/mL	Unstressed
	Purity 99%		+/- 42.3685 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,507.7 µg/mL	+/- 21.9404 µg/mL	Gravimetric
✓	**CAS #** 75-00-3 (Lot SHBD1717V)		+/- 32.6873 µg/mL	Unstressed
	Purity 99%		+/- 36.4370 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.7 µg/mL	+/- 26.0039 µg/mL	Gravimetric
✓	**CAS #** 75-43-4 (Lot Q9B-58)		+/- 35.4965 µg/mL	Unstressed
	Purity 99%		+/- 38.9583 µg/mL	Stressed

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VMCUS8125_00009

VMCU58125_00009

Rcld 8/21/14

Certificate of Analysis

Custom Standard

Product Number: CUS-8125 **Page:** 1 of 1

Lot Number: CL-3208 **Lot Issue Date:** 14-Aug-2014 **Expiration Date:** 30-Sep-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03908	25081 ± 125 µg/mL
dibromofluoromethane	001868-53-7	RM01021	25049 ± 125 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM07547	25006 ± 125 µg/mL
toluene-d8	002037-26-5	RM07385	25025 ± 125 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4°C.

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0861-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

William J. Leahy
Quality Assurance Manager

250 SMITH STREET N. KINGSTOWN, RHODE ISLAND 02852 USA WWW.ULTRASCI.COM

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vmcus8126_00008

VMCUS8126 — 00008

Rcvd 1/21/14

Certificate of Analysis

Custom Standard

Product Number: CUS-8126 **Page:** 1 of 1

Lot Number: CL-3192 **Lot Issue Date:** 14-Aug-2014 **Expiration Date:** 30-Sep-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
chlorobenzene-d5	003114-55-4	RM07755	25006 ± 125 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM07757	25055 ± 125 µg/mL
fluorobenzene	000462-06-6	RM07272	25025 ± 125 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

William J. Leary
Quality Assurance Manager

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HP35DNATA_00030

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Recd 8-22-14

Catalog No. : 31661 **Lot No.:** A0101716

Description : 3,5-Dinitroaniline Standard

3, 5-Dinitroaniline Std 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : October 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dinitroaniline	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 618-87-1 (Lot 10311HS)		+/- 27.6728	µg/mL	Unstressed
	Purity 99%		+/- 27.6728	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

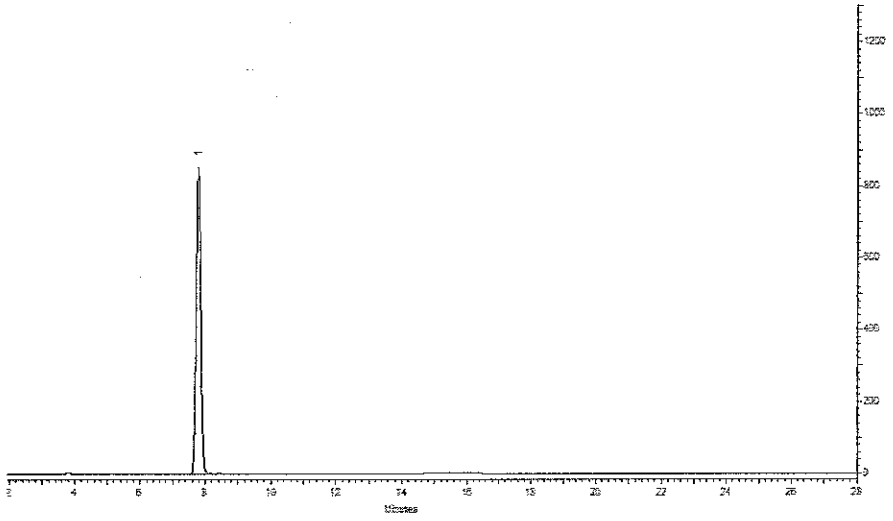
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 04-Mar-2014 **Balance:** 1125113331

Diane Shaffer - QA Analyst

Date Passed: 06-Mar-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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HP35DNATA_00031

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Catalog No. : 31661 **Lot No.:** A0101716

Description : 3,5-Dinitroaniline Standard

3, 5-Dinitroaniline Std 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : October 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	3,5-Dinitroaniline	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 618-87-1 (Lot 10311HS)		+/- 27.6728 µg/mL	Unstressed
	Purity 99%		+/- 27.6728 µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

R. 7/25/14 TQF

Reagent

HP8330SU_00029

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31452 **Lot No.:** A095548

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : May 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene CAS # 610-39-9 Purity 99%	(Lot 1433716V)	1,008.0 µg/mL	+/- 5.9872 µg/mL +/- 12.2118 µg/mL +/- 13.7643 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Reagent

HP8330SU_00032

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Catalog No. : 31452 **Lot No.:** A0102330

Description : 8330 Internal Standard Mix

8330 Internal Std 3, 4-Dinitrotoluene 1000µg/mL, Methanol, 1mL/ampul

Recd 11-24-14 HSA

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

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,4-Dinitrotoluene	1,001.6 µg/mL	+/- 5.9490	µg/mL	Gravimetric
	CAS # 610-39-9 (Lot 01416AZ)		+/- 11.3594	µg/mL	Unstressed
	Purity 98%		+/- 13.0530	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

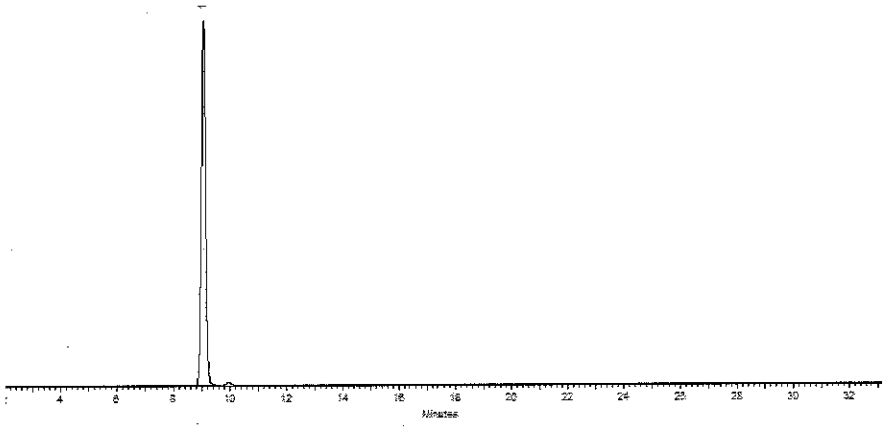
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham - Mix Technician

Date Mixed: 30-Mar-2014 **Balance:** B251644995

Diane Shaffer - QAAnalyst

Date Passed: 01-Apr-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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HP8330TA_00032

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33905 **Lot No.:** A0102389

Description : 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1mL/ampul
1000µg/mL Acetonitrile *PGI BOX REQUIRED* SHIP FED EX
GROUND ONLY

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

Expiration Date : November 30, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	HMX		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 111005JLM)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed
2	RDX		1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080220JLM)		+/-	53.8797	µg/mL	Unstressed
	Purity 99%			+/-	58.5858	µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,005.5 µg/mL	+/-	5.9722	µg/mL	Gravimetric
	CAS # 99-35-4	(Lot UNVVB)		+/-	54.0669	µg/mL	Unstressed
	Purity 98%			+/-	58.7893	µg/mL	Stressed
4	1,3-Dinitrobenzene		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed
5	Nitrobenzene		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBB0246V)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed
6	Tetryl		1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 479-45-8	(Lot 091120JLM)		+/-	54.0948	µg/mL	Unstressed
	Purity 99%			+/-	58.8197	µg/mL	Stressed
7	2,4,6-Trinitrotoluene		1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 2554100)		+/-	53.7722	µg/mL	Unstressed
	Purity 99%			+/-	58.4689	µg/mL	Stressed

8	2-Amino-4,6-dinitrotoluene		1,004.0	µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 35572-78-2	(Lot 29550-55)			+/- 53.9873	µg/mL	Unstressed
	Purity 99%				+/- 58.7028	µg/mL	Stressed
9	4-Amino-2,6-dinitrotoluene		1,000.0	µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 19406-51-0	(Lot ER070908-01)			+/- 53.7722	µg/mL	Unstressed
	Purity 99%				+/- 58.4689	µg/mL	Stressed
10	2,4-Dinitrotoluene		1,002.0	µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690V)			+/- 53.8797	µg/mL	Unstressed
	Purity 99%				+/- 58.5858	µg/mL	Stressed
11	2,6-Dinitrotoluene		1,004.0	µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 606-20-2	(Lot 1437483V)			+/- 53.9873	µg/mL	Unstressed
	Purity 99%				+/- 58.7028	µg/mL	Stressed
12	2-Nitrotoluene		1,006.0	µg/mL	+/- 5.9753	µg/mL	Gravimetric
	CAS # 88-72-2	(Lot GA01)			+/- 54.0948	µg/mL	Unstressed
	Purity 99%				+/- 58.8197	µg/mL	Stressed
13	4-Nitrotoluene		991.3	µg/mL	+/- 5.8883	µg/mL	Gravimetric
	CAS # 99-99-0	(Lot FAU01)			+/- 53.3065	µg/mL	Unstressed
	Purity 97%				+/- 57.9626	µg/mL	Stressed
14	3-Nitrotoluene		1,003.0	µg/mL	+/- 5.9574	µg/mL	Gravimetric
	CAS # 99-08-1	(Lot FBO01)			+/- 53.9324	µg/mL	Unstressed
	Purity 97%				+/- 58.6431	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Specific Reference Material Notes:

Reagent

HP8330TA_00033

R. 7/28/14 TQF

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Catalog No. : 33905 **Lot No.:** A0102389

Description : 8330 Calibration Standard

Nitroaromatics and Nitramine Explosives by HPLC, 1mL/ampul
1000µg/mL Acetonitrile *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : November 30, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 111005JLM)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed
2	RDX		1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080220JLM)		+/- 53.8797 µg/mL	Unstressed
	Purity 99%			+/- 58.5858 µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,005.5 µg/mL	+/- 5.9722 µg/mL	Gravimetric
	CAS # 99-35-4	(Lot UNVVB)		+/- 54.0669 µg/mL	Unstressed
	Purity 98%			+/- 58.7893 µg/mL	Stressed
4	1,3-Dinitrobenzene		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBB1436V)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed
5	Nitrobenzene		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBB0246V)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed
6	Tetryl		1,006.0 µg/mL	+/- 5.9753 µg/mL	Gravimetric
	CAS # 479-45-8	(Lot 091120JLM)		+/- 54.0948 µg/mL	Unstressed
	Purity 99%			+/- 58.8197 µg/mL	Stressed
7	2,4,6-Trinitrotoluene		1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 2554100)		+/- 53.7722 µg/mL	Unstressed
	Purity 99%			+/- 58.4689 µg/mL	Stressed

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HPEGDNTA_00016

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Catalog No. : 31601 **Lot No.:** A097821

Description : EGDN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : September 30, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	EGDN		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 628-96-6	(Lot 120716JLM)		+/- 31.6700	µg/mL	Unstressed
	Purity 99%			+/- 44.3869	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TQP

Reagent

HPNCTA_00005

University of California, Santa Barbara
Marine Science Institute
Analytical Lab

Date 12/17/2014

Invoice # AL1264

Jason Baynes
Dept. of General Chemistry
Test America
880 Riverside Parkway
West Sacramento, CA 95605

Work performed for: Jason Baynes
P.O. 2590928

Date	Comment	Item	Item Description	Unit	Quantity	Rate	Rate Group	Total
11/25/14	Batch # 4721	CHN_SYN	CHN Synthetic	sampl	2.00	$30.40	Non-UC	$60.80

Amount Due: **$60.80**

For questions about services provided please contact:

Georges Paradis
paradis@msi.ucsb.edu
805 893-3802

[redacted]

For questions about remitting your payment please contact:

Tim Schmidt, 4401 MSRB, UCSB
Santa Barbara, CA 93106
805 893-4093

Please make checks payable to the UC Regents.
Please referenceMSI/8-261802-61802-0/RECH01.

Mail check to: Georges Paradis
4002 MSRB, UCSB
Santa Barbara, CA 93106-6150

Sample Batch:	Jason Baynes	AL 4721	P1		Run Date:	25-Nov-14
Sample ID	Weight (ug)	Weight Percent			C/N ratio	Flags
		C	H	N		
Flash Cotton	1948	7.17	0.69	3.32	2.16	
Flash Cotton	2095	7.29	0.64	3.37	2.16	

Detection Limit (µg)	C	H	N
	0.42	1.21	3.15

Sample Batch:	Jason Baynes	AL 4721	P2		Run Date:	3-Dec-14
Sample ID	Weight (ug)	Weight Percent			C/N ratio	Flags
		C	H	N		
Flash Cotton	2578	24.7	2.39	12.1	2.04	
Flash Cotton	1713	25.2	2.65	12.0	2.10	

Detection Limit (µg)	C	H	N
	1.74	3.48	1.01

Assayed at Marine Science

Read 12/15/14

Reagent

HPNGTA_00033

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31498 Lot No.: A0105695

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

Rec'd 11-29-14

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2019 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.I., K=2)		
1	Nitroglycerin	1,010.0 µg/mL	+/- 5.9991	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 13102IJLM)		+/- 54.3099	µg/mL	Unstressed
	Purity 99%		+/- 59.0536	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

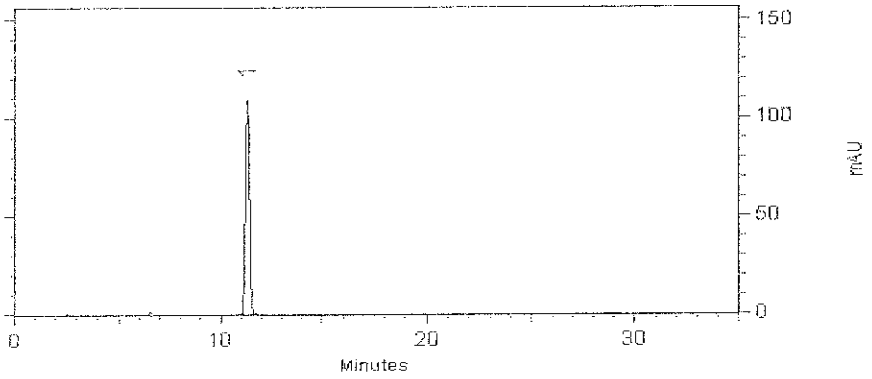
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cheryl Graham - Mix Technician

Date Mixed: 02-Sep-2014 Balance: 1128342313

Diane Shaffer - QA Analyst

Date Passed: 08-Sep-2014

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HPNGTA_00034

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 **Lot No.:** A096573

Description : Nitroglycerin Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	1,003.6 µg/mL	+/- 5.8897	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 121115JLM)		+/- 31.7838	µg/mL	Unstressed
	Purity 99%		+/- 44.5465	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TAP

Reagent

HPNGTA_00035

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New Haven, CT 06513 US

Tel (203) 786-5290 Fax (203) 786-5287
Web www.accustandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

CATALOG NO: M-8330-ADD-1
DESCRIPTION: Nitroglycerin
LOT: 212031351-01
SOLVENT: Ethanol

DATE CERTIFIED: May 7, 2013
EXPIRATION: May 7, 2015
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Refrig (0-5° C)
HAZARDS: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS No.	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroglycerin	55-63-0	99.4	100.6	100.0

AccuStandard

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Certified by: R. Cooper
Russ Cooper, QC Manager

For use in routine laboratory analysis. Refer to the MSDS for additional information.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001.

QR-ORG/IND-001
Rev. 09/05

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Reagent

HPNGTA_00036

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31498 **Lot No.:** A096573

Description : Nitroglycerin Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitroglycerin	1,003.6 µg/mL	+/- 5.8897 µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 121115JLM)		+/- 31.7838 µg/mL	Unstressed
	Purity 99%		+/- 44.5465 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TAP

Reagent

HPNQTA_00016

HPNQTA-00001

5

10

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. :	31602	**Lot No.:**	A076817
Description :	Nitroguanidine Standard		
Container Size :	2 mL	**Pkg Amt:**	> 1 mL
Expiration Date : [1]	September 2015	**Storage:**	Refrigerate

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. [3] (weight/volume)	% Grav.Uncert. [4] (95% C.L., K=2)
1	Nitroguanidine	556-88-7	99%	1,000.000 ug/ml	+/-0.59 %
Solvent:	Methanol	67-56-1	99%		

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

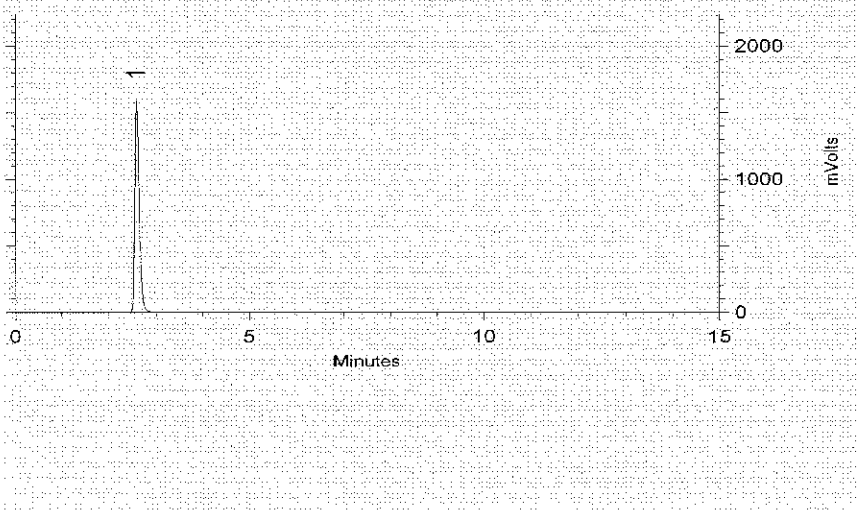
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Comp

Det. Type:
Wavelength: 210 nm



Diane Shaffer - QA Analyst

Date Passed: 16-Sep-2010 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

1 Expiration date of the unopened ampule stored at the recommended storage condition.

2A Purity is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest whole number. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

2B Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities.

2C The following types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides, HCL salts, HBR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent to the percentage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration of the parent compound in the solution.

2D Purity of isomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

3 Based upon gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A glassware used for dilutions.

4 Uncertainties determined using data for balances and glassware from measurement systems analysis methodology, raw material purity, and, when significant, equipment tolerances or calibration results.

Reagent

HPNQTA_00017

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USA

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-6
Description: Nitroguanidine
Lot: 213071053
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jul 3, 2013
Expiration: Jul 3, 2015
Sample Size: 1 mL
Storage Condition: Freeze (<-10° C)

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Nitroguanidine	556-88-7	100.0	100.1	100.1

Recd 12/1/M TQP

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

   ISO Guide 34 - General Requirements for the Competence of Reference Material Producers ACLASS Certificate Number AR-1463

   AR-1463

   ISO/IEC 17025:2005 - General Requirements for the Competence of Testing and Calibration Laboratories ACLASS Certificate Number AT-1339

   AT-1339

   ISO 9001:2008 Quality Management System - Requirements Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.

4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.

5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.

7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.

8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.

9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide (Quantifying Uncertainty in Analytical Measurement). We have evaluated both Type A (based on a series of observations) and Type B (manufacturers specifications and calibration data) factors and report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$. The expanded uncertainty, U, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level. Laboratories accredited to ISO/IEC 17025 and ISO Guide 34 are required to estimate uncertainty budgets associated with the measurements they make. However, for analysis, the certified value should be used as the actual value.

10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

HPNQTA_00019

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31602 **Lot No.:** A0100497

Description : Nitroguanidine Standard

Nitroguanidine 1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : January 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroguanidine	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 556-88-7 (Lot 03708HN)		+/- 53.8797	µg/mL	Unstressed
	Purity 99%		+/- 58.5858	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

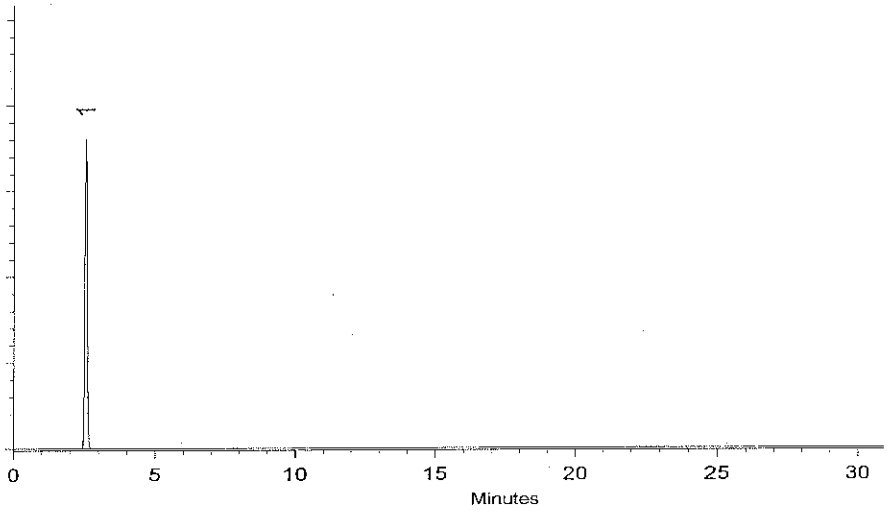
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 08-Jan-2014 **Balance:** 1128342313

Jennifer L. Pollino - QC Analyst

Date Passed: 10-Jan-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

HPPATA_00020

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31499 **Lot No.:** A0101731

Description : Picric Acid Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Picric Acid	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 88-89-1 (Lot 06130CU)		+/- 53.8797	µg/mL	Unstressed
	Purity 99%		+/- 58.5858	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/28/14 TQP

Specific Reference Material Notes:
This is a derivatized analysis.

Reagent

HPPETNTA_00030

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 Lot No.: A098102

Description : PETN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

Rec'd 11-29-14

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2018 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., k=2)	
1	PETN	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 78-11-5 (Lot 051108JLM)		+/- 31.7173 µg/mL	Unstressed
	Purity 99%		+/- 44.4533 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

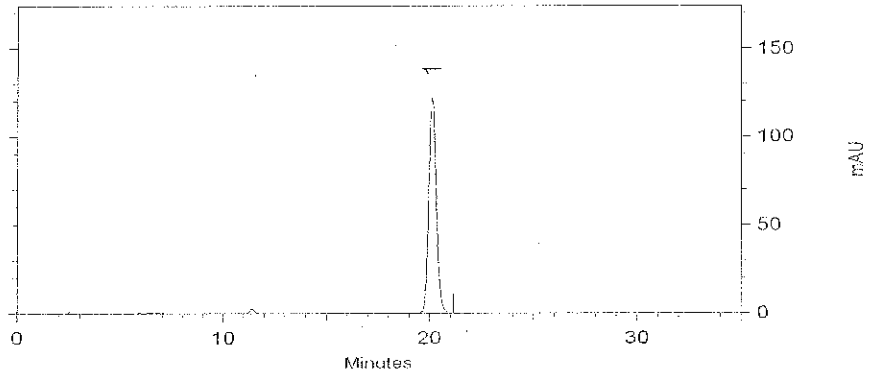
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen to guarantee product quality. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye

Date Mixed: 17-Sep-2013 Balance: 1128353505

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 19-Sep-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

HPPETNTA_00031

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 **Lot No.:** A098102

Description : PETN Standard

1000µg/mL, Methanol, 1mL/ampul *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : September 30, 2018 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		1,001.5 µg/mL	+/- 5.8774	µg/mL	Gravimetric
	CAS # 78-11-5	(Lot 051108JLM)		+/- 31.7173	µg/mL	Unstressed
	Purity 99%			+/- 44.4533	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

R. 7/25/14 TQP

Reagent

HPPETNTA_00032

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USA

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-2
Description: PETN
Lot: 211081055-02
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Sep 2, 2014
Expiration: Sep 2, 2016
Sample Size: 1 mL
Storage Condition: Refrig (0-5° C)

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (HPLC)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
PETN	78-11-5	99.3	100.3	99.6

Recd 12/1/14 TQP

[1] All weights are traceable through NIST, Test No. 822/272103-05

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-ORG/INO-001
Rev. 7/11

Reagent

HPPETNTA_00033

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31600 **Lot No.:** A0106847

Description : PETN Standard

PETN Standard 1000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : October 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS #	78-11-5 (Lot 051108JLM)		+/- 53.7722	µg/mL	Unstressed
	Purity	99%		+/- 58.4689	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Rec'd 11/25/14 TQP

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

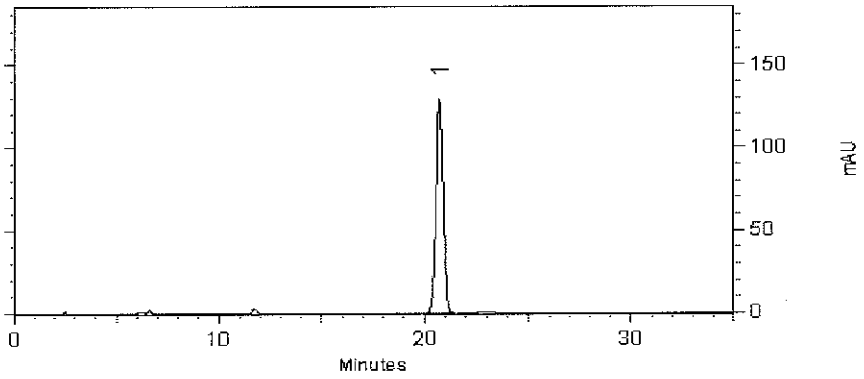
Flow Rate:
1.0 ml/min.

Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:

Det. Type:
Wavelength: 210 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Sawyer

Diane Shaffer

Diane Shaffer - QA Analyst

Date Mixed: 27-Oct-2014 **Balance:** 1128360905

Date Passed: 07-Nov-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

WC-N02-1000_00052

CPI INTERNATIONAL

USA

5580 Skylane Boulevard P: 707.525.5788
Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

P.O. Box 2704 P: +31 20 638 05 97
1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062004-01-01	1064466	21-Feb-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrite as N, 100 mL 1,000 mg/L in H_2O

Additional Information:

Date Received: _____

Container: 4 oz (125 mL) Narrow Mouth, HDPE

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
NO_2 as N	N	7727-37-9	3152	010728	7097.46.6P	99.999	1000	3.5

USA

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The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062004-01-01	I064466	21-Feb-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrite as N, 100 mL 1,000 mg/L in H_2O

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Ambient

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

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F: 707.545.7901

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1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062004-01-01	1064466	21-Feb-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrite as N, 100 mL 1,000 mg/L in H_2O

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c=\sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed for thirteen months from the date manufactured.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Carrie Bibbins

Manufacture Date: 8/20/2014

Certified By:

Zachary Spinelli

Certified Date:8/21/2014

Released By:

HuiChen Stavros, Ph.D.

Original Issue Date: 8/21/2014

Reagent

WC-N02SS50223_00002

ERA

A Waters Company

Certificate of Analysis

Scanned 8/27/14

PRODUCT:	1000 mg/L Nitrite as N (NO_2-N)
CATALOG NUMBER:	053 -125 mL; 990 - 500 mL
LOT NUMBER:	070414
ISSUE DATE:	April 21, 2014
REVISION DATE:	Original
STARTING MATERIAL:	Sodium Nitrite ($NaNO_2$)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	1.0009 ± 0.0005 g/mL at 21.5°C and 767 mm Hg
TRACEABILITY[3]:	NA
NIST/SRM:	SRM not available
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor which is equal to the student t factor at a 95% confidence interval at n-1 degrees of freedom. The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability Recovery = ((% Recovery certified standard)/(% Recovery NIST SRM))*100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

This standard **expires 4/2016**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Tom Widera

ISO/IEC GUIDE 34:2009 — ACCREDITED — REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1939.03

ISO/IEC 17025:2005 — ACCREDITED — CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1529.02

16341 Table Mtn Pkwy, Golden, CO 80403 800-372-0122 fax: 303-421-0159 www.eraqc.com

Reagent

WC-N03-1000_00028

CPI INTERNATIONAL

USA

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Santa Rosa, CA 95403 P: 800.878.7654
F: 707.545.7901

Europe

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1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062003-01-01	1070689	5-Aug-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrate as N (from $NaNO_3$), 100 mL 1,000 mg/L in H_2O

Additional Information:

Date Received: 2/10/15

Container: 4 oz (125 mL) Narrow Mouth, HDPE

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by inductively coupled plasma optical emission spectrometry (ICP-OES) using an internally developed method against an independent source which is directly traceable to the NIST SRM's listed below.
The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Element	Symbol	CAS No	SRM No	NIST Lot No	Source Lot No	Purity %	Concentration mg/L	Uncertainty ± mg/L
NO_3 as N	N	7631-99-4	3152	010728	7019.46.5P	99.999	1000	4.0

Signed 2/12/15

CPI INTERNATIONAL

USA

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F: 707.545.7901

Europe

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1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062003-01-01	1070689	5-Aug-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrate as N (from $NaNO_3$), 100 mL 1,000 mg/L in H_2O

Intended Uses:

This Certified Reference material, CRM, is intended for use as a calibration standard or a quality control standard for Inorganic Speetrometry Equipment such as ICP-OES, ICP-MS, AA, and XRF, It may aslo be used for various USEPA and ASTM methods.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

Packaging and Storage:

The Solution should be kept trightly capped and stored under normal laboratory conditions. Pre-cleaned polyethlene bottles are used to package this material. Special storage information: Refrigerated

Glassware Calibration:

Only Class A glassware is used in the manufacture and quality control of Standards. All Glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used perform daily checks on balances calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to the National Institute of Standards and Technology (NIST). Balances are checked daily in accordance to in house procedure O2-LB-004. Balances are calibrated annually by an ISO 17025 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-10 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC Guide 17025:2005 and ISO Guide 34:2009. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous information:

Refer to MSDS

USA

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1000 CS Amsterdam F: +31 20 420 28 36
The Netherlands

Certificate of Analysis

Rev 0

Comment:

Catalog No:	Lot No:	Expiration Date:	Matrix:	Description:
Z-G34-062003-01-01	1070689	5-Aug-2016	H_2O	ISO Guide 34 - Ion Chromatography Standard Nitrate as N (from $NaNO_3$), 100 mL 1,000 mg/L in H_2O

Calculation of Uncertainty

The following equations are used to calculate the value of the expanded uncertainty:
$U=ku_c$ U=Expanded Uncertainty, k= the coverage factor at the 95% confidence level, k=2, u_c = the combined uncertainty
$u_c = \sqrt{\sum u_i^2}$ where u_i are the individual uncertainty components for raw material, transportation, homogeneity, and shelf life.

Expiration Information:

The Stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. This standard is guaranteed until the expiration date listed above.

Accreditation:

This standard was manufactured by an ISO 17025 Chemical Testing Lab (Certificate number 3031.01) and ISO Guide 34 Reference Material Producer (RMP) Certificate number 3031.02 accredited by The American Association of Laboratory Accreditation (A2LA). Manufacturer's Quality System audited and registered by NSF-ISR to ISO 9001:2008 (Certificate number IZ391-IS4).

Manufactured By:

Carrie Bibbins

Manufacture Date: 2/2/2015

Certified By:

Zachary Spinelli

Certified Date:2/2/2015

Released By:

Mark Filla

Original Issue Date: 2/2/2015

Reagent

WC-N03SS50223_00002

ERA

A Waters Company

Certificate of Analysis

Rcd 9/24/14

Scanned 10/17/14

PRODUCT:	1000 mg/L Nitrate as N (NO_3-N)
CATALOG NUMBER:	052 -125 mL; 991 - 500 mL
LOT NUMBER:	320614
ISSUE DATE:	June 26, 2014
REVISION DATE:	Original
STARTING MATERIAL:	Potassium Nitrate (KNO_3)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	1.0015 ± 0.0005 g/mL at 21.5°C and 764 mm Hg
TRACEABILITY[3]:	100%
NIST/SRM:	3185 Nitrate
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor which is equal to the student t factor at a 95% confidence interval at n-1 degrees of freedom. The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability Recovery = ((% Recovery certified standard)/(% Recovery NIST SRM))*100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

This standard **expires 6/2016**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Tom Widera

ISO/IEC GUIDE 34:2009 — ACCREDITED — REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 — ACCREDITED — CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Method 8260B DOD

Volatile Organic Compounds (GC/MS) by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-176026/7	103	93	111	98
	MRL 240-176026/35	103	94	115	102
	MRL 240-176387/6	101	104	108	100
	MRL 240-176387/30	98	110	107	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM	#	DCA	#	TOL	#	BFB	#
079SS-0342M-0001-SO	240-49071-1	95	Q	109	Q	105	Q	96	Q
079SS-0342M-0001-SO	240-49071-1	107		104		117	Q	92	
	MB 240-175865/2-A	106		98		113		97	
	MB 240-176387/33	95		105		103		96	
	LCS 240-176026/6	107		92		113		101	
	LCS 240-176387/5	96		99		102		101	

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	59-138
DCA = 1,2-Dichloroethane-d4 (Surr)	61-130
TOL = Toluene-d8 (Surr)	85-115
BFB = 4-Bromofluorobenzene (Surr)	85-120

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	MRL 240-175731/5	94	96	95	99
	MRL 240-175731/15	91	92	96	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	50-150
DCA = 1,2-Dichloroethane-d4 (Surr)	50-150
TOL = Toluene-d8 (Surr)	50-150
BFB = 4-Bromofluorobenzene (Surr)	50-150

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
079SS-0379-0001-TB	240-49071-5	93	95	94	97
	MB 240-175731/6	93	94	96	98
	LCS 240-175731/4	94	93	96	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: UXM7083.D

Lab ID: LCS 240-175731/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	10.4	104	65-130	
1,1,2,2-Tetrachloroethane	10.0	9.71	97	65-130	
1,1,2-Trichloroethane	10.0	9.84	98	75-125	
1,1-Dichloroethane	10.0	10.5	105	70-135	
1,1-Dichloroethene	10.0	10.7	107	70-130	
1,2-Dichloroethane	10.0	10.4	104	70-130	
1,2-Dichloropropane	10.0	10.1	101	75-125	
2-Butanone (MEK)	20.0	19.9	100	30-150	
2-Hexanone	20.0	19.2	96	55-130	
4-Methyl-2-pentanone (MIBK)	20.0	20.1	100	60-135	
Acetone	20.0	17.4	87	40-140	
Benzene	10.0	10.1	101	80-120	
Bromoform	10.0	9.74	97	70-130	
Bromomethane	10.0	8.58	86	30-145	
Carbon disulfide	10.0	10.9	109	35-160	
Carbon tetrachloride	10.0	10.8	108	65-140	
Chlorobenzene	10.0	9.79	98	80-120	
Bromodichloromethane	10.0	9.81	98	75-120	
Chloromethane	10.0	8.18	82	40-125	
cis-1,3-Dichloropropene	10.0	10.5	105	70-130	
Dibromochloromethane	10.0	10.0	100	60-135	
Ethylbenzene	10.0	10.1	101	75-125	
Methyl tert-butyl ether	10.0	10.3	103	65-125	
Methylene Chloride	10.0	10.5	105	55-140	
Styrene	10.0	9.36	94	65-135	
Tetrachloroethene	10.0	10.1	101	45-150	
Toluene	10.0	10.0	100	75-120	
Chloroform	10.0	10.1	101	65-135	
Bromochloromethane	10.0	9.90	99	65-130	
trans-1,3-Dichloropropene	10.0	10.8	108	55-140	
Trichloroethene	10.0	10.4	104	70-125	
Vinyl chloride	10.0	8.68	87	50-145	
Chloroethane	10.0	8.70	87	60-135	
Xylenes, Total	20.0	19.9	100	75-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: UX86939.D

Lab ID: LCS 240-176026/6 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	49.2	98	70-135	
1,1,2,2-Tetrachloroethane	50.0	50.8	102	55-130	
1,1,2-Trichloroethane	50.0	50.3	101	60-125	
1,1-Dichloroethane	50.0	49.0	98	75-125	
1,1-Dichloroethene	50.0	49.8	100	65-135	
1,2-Dichloroethane	50.0	44.4	89	70-135	
1,2-Dichloropropane	50.0	50.5	101	70-120	
2-Butanone (MEK)	100	89.7	90	30-160	
2-Hexanone	100	99.8	100	45-145	
4-Methyl-2-pentanone (MIBK)	100	101	101	45-145	
Benzene	50.0	50.4	101	75-125	
Bromoform	50.0	47.2	94	55-135	
Bromomethane	50.0	50.1	100	30-160	
Carbon disulfide	50.0	54.7	109	45-160	
Carbon tetrachloride	50.0	52.0	104	65-135	
Chlorobenzene	50.0	49.9	100	75-125	
Bromodichloromethane	50.0	53.2	106	70-130	
Chloromethane	50.0	35.3	71	50-130	
cis-1,3-Dichloropropene	50.0	56.4	113	70-125	
Dibromochloromethane	50.0	55.2	110	65-130	
Ethylbenzene	50.0	51.8	104	75-125	
Methyl tert-butyl ether	50.0	49.1	98	70-130	
Methylene Chloride	50.0	49.5	99	55-140	
Styrene	50.0	53.1	106	75-125	
Tetrachloroethene	50.0	49.9	100	65-140	
Toluene	50.0	51.1	102	70-125	
Chloroform	50.0	47.9	96	70-125	
Bromochloromethane	50.0	51.7	103	70-125	
trans-1,3-Dichloropropene	50.0	55.2	110	65-125	
Trichloroethene	50.0	52.6	105	75-125	
Vinyl chloride	50.0	38.7	77	60-125	
Chloroethane	50.0	46.4	93	40-155	
Xylenes, Total	100	108	108	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 142400.D

Lab ID: LCS 240-176387/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	58.3	117	70-135	
1,1,2,2-Tetrachloroethane	50.0	50.6	101	55-130	
1,1,2-Trichloroethane	50.0	51.9	104	60-125	
1,1-Dichloroethane	50.0	55.1	110	75-125	
1,1-Dichloroethene	50.0	57.2	114	65-135	
1,2-Dichloroethane	50.0	54.0	108	70-135	
1,2-Dichloropropane	50.0	53.6	107	70-120	
2-Butanone (MEK)	100	95.2	95	30-160	
2-Hexanone	100	96.5	96	45-145	
4-Methyl-2-pentanone (MIBK)	100	106	106	45-145	
Acetone	100	107	107	20-160	
Benzene	50.0	52.6	105	75-125	
Bromoform	50.0	44.9	90	55-135	
Bromomethane	50.0	52.2	104	30-160	
Carbon disulfide	50.0	58.9	118	45-160	
Carbon tetrachloride	50.0	59.3	119	65-135	
Chlorobenzene	50.0	51.4	103	75-125	
Bromodichloromethane	50.0	54.2	108	70-130	
Chloromethane	50.0	56.9	114	50-130	
cis-1,3-Dichloropropene	50.0	56.7	113	70-125	
Dibromochloromethane	50.0	56.1	112	65-130	
Ethylbenzene	50.0	52.1	104	75-125	
Methyl tert-butyl ether	50.0	53.6	107	70-130	
Methylene Chloride	50.0	58.5	117	55-140	
Styrene	50.0	55.7	111	75-125	
Tetrachloroethene	50.0	52.8	106	65-140	
Toluene	50.0	51.0	102	70-125	
Chloroform	50.0	54.4	109	70-125	
Bromochloromethane	50.0	52.0	104	70-125	
trans-1,3-Dichloropropene	50.0	60.5	121	65-125	
Trichloroethene	50.0	52.7	105	75-125	
Vinyl chloride	50.0	55.0	110	60-125	
Chloroethane	50.0	56.6	113	40-155	
Xylenes, Total	100	107	107	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: UXM7084.D

Lab ID: MRL 240-175731/5 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.00105	105	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.000994 J	99	70-130	
1,1,2-Trichloroethane	0.00100	0.000994 J	99	70-130	
1,1-Dichloroethane	0.00100	0.00110	110	70-130	
1,1-Dichloroethene	0.00100	0.00104	104	70-130	
1,2-Dichloroethane	0.00100	0.00110	110	70-130	
1,2-Dichloropropane	0.00100	0.00105	105	70-130	
2-Butanone (MEK)	0.0100	0.00874 J	87	70-130	
2-Hexanone	0.0100	0.00878 J	88	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00931 J	93	70-130	
Acetone	0.0100	0.00914 J	91	70-130	
Benzene	0.00100	0.00104	104	70-130	
Bromoform	0.00100	0.000955 J	96	70-130	
Bromomethane	0.00100	0.00157	157	70-130	^
Carbon disulfide	0.00100	0.00103	103	70-130	
Carbon tetrachloride	0.00100	0.00108	108	70-130	
Chlorobenzene	0.00100	0.00103	103	70-130	
Bromodichloromethane	0.00100	0.000974 J	97	70-130	
Chloromethane	0.00100	0.00156	156	70-130	^
cis-1,3-Dichloropropene	0.00100	0.000989 J	99	70-130	
Dibromochloromethane	0.00100	0.000885 J	89	70-130	
Ethylbenzene	0.00100	0.00102	102	70-130	
Methyl tert-butyl ether	0.00100	0.00101	101	70-130	
Methylene Chloride	0.00100	0.000838 J	84	70-130	
Styrene	0.00100	0.000965 J	96	70-130	
Tetrachloroethene	0.00100	0.00107	107	70-130	
Toluene	0.00100	0.00100	100	70-130	
Chloroform	0.00100	0.00101	101	70-130	
Bromochloromethane	0.00100	0.00101	101	70-130	
trans-1,3-Dichloropropene	0.00100	0.000936 J	94	70-130	
Trichloroethene	0.00100	0.00104	104	70-130	
Vinyl chloride	0.00100	0.00149	149	70-130	^
Chloroethane	0.00100	0.00152	152	70-130	^
Xylenes, Total	0.00200	0.00199 J	100	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: UXM7094.D

Lab ID: MRL 240-175731/15 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00100	0.000744 J	74	70-130	
1,1,2,2-Tetrachloroethane	0.00100	0.000753 J	75	70-130	
1,1,2-Trichloroethane	0.00100	0.000744 J	74	70-130	
1,1-Dichloroethane	0.00100	0.000783 J	78	70-130	
1,1-Dichloroethene	0.00100	0.000789 J	79	70-130	
1,2-Dichloroethane	0.00100	0.000765 J	77	70-130	
1,2-Dichloropropane	0.00100	0.000802 J	80	70-130	
2-Butanone (MEK)	0.0100	0.00776 J	78	70-130	
2-Hexanone	0.0100	0.00812 J	81	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00860 J	86	70-130	
Acetone	0.0100	0.00793 J	79	70-130	
Benzene	0.00100	0.000821 J	82	70-130	
Bromoform	0.00100	0.000604 J	60	70-130	^
Bromomethane	0.00100	0.000895 J	89	70-130	
Carbon disulfide	0.00100	0.000710 J	71	70-130	
Carbon tetrachloride	0.00100	0.000754 J	75	70-130	
Chlorobenzene	0.00100	0.000781 J	78	70-130	
Bromodichloromethane	0.00100	0.000754 J	75	70-130	
Chloromethane	0.00100	0.000884 J	88	70-130	
cis-1,3-Dichloropropene	0.00100	0.000683 J	68	70-130	^
Dibromochloromethane	0.00100	0.000689 J	69	70-130	^
Ethylbenzene	0.00100	0.000758 J	76	70-130	
Methyl tert-butyl ether	0.00100	0.000789 J	79	70-130	
Methylene Chloride	0.00100	0.000685 J	69	70-130	^
Styrene	0.00100	0.000702 J	70	70-130	
Tetrachloroethene	0.00100	0.000746 J	75	70-130	
Toluene	0.00100	0.000797 J	80	70-130	
Chloroform	0.00100	0.000830 J	83	70-130	
Bromochloromethane	0.00100	0.000739 J	74	70-130	
trans-1,3-Dichloropropene	0.00100	0.000682 J	68	70-130	^
Trichloroethene	0.00100	0.000777 J	78	70-130	
Vinyl chloride	0.00100	0.000866 J	87	70-130	
Chloroethane	0.00100	0.000955 J	96	70-130	
Xylenes, Total	0.00200	0.00152 J	76	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: UX86940.D

Lab ID: MRL 240-176026/7 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00500	0.00488	98	70-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00517	103	70-130	
1,1,2-Trichloroethane	0.00500	0.00498	100	70-130	
1,1-Dichloroethane	0.00500	0.00475	95	70-130	
1,1-Dichloroethene	0.00500	0.00507	101	70-130	
1,2-Dichloroethane	0.00500	0.00430	86	70-130	
1,2-Dichloropropane	0.00500	0.00483	97	70-130	
2-Butanone (MEK)	0.0100	0.0101	101	70-130	
2-Hexanone	0.0100	0.0102	102	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.00970 J	97	70-130	
Benzene	0.00500	0.00501	100	70-130	
Bromoform	0.00500	0.00435	87	70-130	
Bromomethane	0.00500	0.00517	103	70-130	
Carbon disulfide	0.00500	0.00462	92	70-130	
Carbon tetrachloride	0.00500	0.00457	91	70-130	
Chlorobenzene	0.00500	0.00513	103	70-130	
Bromodichloromethane	0.00500	0.00450	90	70-130	
Chloromethane	0.00500	0.00461	92	70-130	
cis-1,3-Dichloropropene	0.00500	0.00429	86	70-130	
Dibromochloromethane	0.00500	0.00435	87	70-130	
Ethylbenzene	0.00500	0.00498	100	70-130	
Methyl tert-butyl ether	0.00500	0.00463	93	70-130	
Styrene	0.00500	0.00508	102	70-130	
Tetrachloroethene	0.00500	0.00491	98	70-130	
Toluene	0.00500	0.00509	102	70-130	
Chloroform	0.00500	0.00481	96	70-130	
Bromochloromethane	0.00500	0.00512	102	70-130	
trans-1,3-Dichloropropene	0.00500	0.00418	84	70-130	
Trichloroethene	0.00500	0.00524	105	70-130	
Vinyl chloride	0.00500	0.00497	99	70-130	
Chloroethane	0.00500	0.00486	97	70-130	
Xylenes, Total	0.0100	0.00995	100	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: UX86968.D

Lab ID: MRL 240-176026/35 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00500	0.00412	82	70-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00510	102	70-130	
1,1,2-Trichloroethane	0.00500	0.00537	107	70-130	
1,1-Dichloroethane	0.00500	0.00453	91	70-130	
1,1-Dichloroethene	0.00500	0.00445	89	70-130	
1,2-Dichloroethane	0.00500	0.00462	92	70-130	
1,2-Dichloropropane	0.00500	0.00468	94	70-130	
2-Butanone (MEK)	0.0100	0.0112	112	70-130	
2-Hexanone	0.0100	0.0107	107	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.0104	104	70-130	
Benzene	0.00500	0.00474	95	70-130	
Bromoform	0.00500	0.00381	76	70-130	
Bromomethane	0.00500	0.00523	105	70-130	
Carbon disulfide	0.00500	0.00353	71	70-130	
Carbon tetrachloride	0.00500	0.00373	75	70-130	
Chlorobenzene	0.00500	0.00489	98	70-130	
Bromodichloromethane	0.00500	0.00401	80	70-130	
Chloromethane	0.00500	0.00495	99	70-130	
cis-1,3-Dichloropropene	0.00500	0.00384	77	70-130	
Dibromochloromethane	0.00500	0.00360	72	70-130	
Ethylbenzene	0.00500	0.00470	94	70-130	
Methyl tert-butyl ether	0.00500	0.00472	94	70-130	
Styrene	0.00500	0.00441	88	70-130	
Tetrachloroethene	0.00500	0.00449	90	70-130	
Toluene	0.00500	0.00481	96	70-130	
Chloroform	0.00500	0.00438	88	70-130	
Bromochloromethane	0.00500	0.00486	97	70-130	
trans-1,3-Dichloropropene	0.00500	0.00347	69	70-130	^
Trichloroethene	0.00500	0.00502	100	70-130	
Vinyl chloride	0.00500	0.00488	98	70-130	
Chloroethane	0.00500	0.00495	99	70-130	
Xylenes, Total	0.0100	0.00940	94	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 142401.D

Lab ID: MRL 240-176387/6 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00500	0.00642	128	70-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00555	111	70-130	
1,1,2-Trichloroethane	0.00500	0.00526	105	70-130	
1,1-Dichloroethane	0.00500	0.00609	122	70-130	
1,1-Dichloroethene	0.00500	0.00658	132	70-130	^
1,2-Dichloroethane	0.00500	0.00630	126	70-130	
1,2-Dichloropropane	0.00500	0.00627	125	70-130	
2-Butanone (MEK)	0.0100	0.0109	109	70-130	
2-Hexanone	0.0100	0.0111	111	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.0110	110	70-130	
Acetone	0.0100	0.0174	174	70-130	^
Benzene	0.00500	0.00612	122	70-130	
Bromoform	0.00500	0.00512	102	70-130	
Bromomethane	0.00500	0.00638	128	70-130	
Carbon disulfide	0.00500	0.00563	113	70-130	
Carbon tetrachloride	0.00500	0.00638	128	70-130	
Chlorobenzene	0.00500	0.00635	127	70-130	
Bromodichloromethane	0.00500	0.00515	103	70-130	
Chloromethane	0.00500	0.00659	132	70-130	^
cis-1,3-Dichloropropene	0.00500	0.00484	97	70-130	
Dibromochloromethane	0.00500	0.00496	99	70-130	
Ethylbenzene	0.00500	0.00576	115	70-130	
Methyl tert-butyl ether	0.00500	0.00575	115	70-130	
Methylene Chloride	0.00500	0.00803	161	70-130	^
Styrene	0.00500	0.00542	108	70-130	
Tetrachloroethene	0.00500	0.00550	110	70-130	
Toluene	0.00500	0.00583	117	70-130	
Chloroform	0.00500	0.00618	124	70-130	
Bromochloromethane	0.00500	0.00580	116	70-130	
trans-1,3-Dichloropropene	0.00500	0.00529	106	70-130	
Trichloroethene	0.00500	0.00579	116	70-130	
Vinyl chloride	0.00500	0.00636	127	70-130	
Chloroethane	0.00500	0.00772	154	70-130	^
Xylenes, Total	0.0100	0.0116	116	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 142426.D

Lab ID: MRL 240-176387/30 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	0.00500	0.00614	123	70-130	
1,1,2,2-Tetrachloroethane	0.00500	0.00551	110	70-130	
1,1,2-Trichloroethane	0.00500	0.00568	114	70-130	
1,1-Dichloroethane	0.00500	0.00646	129	70-130	
1,1-Dichloroethene	0.00500	0.00573	115	70-130	
1,2-Dichloroethane	0.00500	0.00676	135	70-130	^
1,2-Dichloropropane	0.00500	0.00584	117	70-130	
2-Butanone (MEK)	0.0100	0.0125	125	70-130	
2-Hexanone	0.0100	0.0114	114	70-130	
4-Methyl-2-pentanone (MIBK)	0.0100	0.0132	132	70-130	^
Acetone	0.0100	0.0248	248	70-130	^
Benzene	0.00500	0.00601	120	70-130	
Bromoform	0.00500	0.00532	106	70-130	
Bromomethane	0.00500	0.00634	127	70-130	
Carbon disulfide	0.00500	0.00465	93	70-130	
Carbon tetrachloride	0.00500	0.00575	115	70-130	
Chlorobenzene	0.00500	0.00557	111	70-130	
Bromodichloromethane	0.00500	0.00496	99	70-130	
Chloromethane	0.00500	0.00580	116	70-130	
cis-1,3-Dichloropropene	0.00500	0.00459	92	70-130	
Dibromochloromethane	0.00500	0.00463	93	70-130	
Ethylbenzene	0.00500	0.00583	117	70-130	
Methyl tert-butyl ether	0.00500	0.00590	118	70-130	
Methylene Chloride	0.00500	0.00857	171	70-130	^
Styrene	0.00500	0.00523	105	70-130	
Tetrachloroethene	0.00500	0.00555	111	70-130	
Toluene	0.00500	0.00613	123	70-130	
Chloroform	0.00500	0.00653	131	70-130	^
Bromochloromethane	0.00500	0.00561	112	70-130	
trans-1,3-Dichloropropene	0.00500	0.00503	101	70-130	
Trichloroethene	0.00500	0.00540	108	70-130	
Vinyl chloride	0.00500	0.00570	114	70-130	
Chloroethane	0.00500	0.00666	133	70-130	^
Xylenes, Total	0.0100	0.0110	110	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: 142405.D Lab Sample ID: MB 240-176387/33

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

Instrument ID: A3UX14 Date Analyzed: 04/14/2015 15:28

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-176387/5	142400.D	04/14/2015 13:41
079SS-0342M-0001-SO	240-49071-1	142418.D	04/14/2015 20:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: UXM7085.D Lab Sample ID: MB 240-175731/6

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

Instrument ID: A3UX16 Date Analyzed: 04/09/2015 12:06

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-175731/4	UXM7083.D	04/09/2015 11:20
079SS-0379-0001-TB	240-49071-5	UXM7089.D	04/09/2015 13:37

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: UX86942.D Lab Sample ID: MB 240-175865/2-A

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

Instrument ID: A3UX8 Date Analyzed: 04/11/2015 03:04

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
079SS-0342M-0001-SO	240-49071-1	UX86943.D	04/11/2015 03:26

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: BFB14922.D BFB Injection Date: 04/13/2015

Instrument ID: A3UX14 BFB Injection Time: 14:04

Analysis Batch No.: 176233

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.3	
75	30.0 - 60.0 % of mass 95	54.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.4	(0.6)1
174	50.0 - 120.00 % of mass 95	69.9	
175	5.0 - 9.0 % of mass 174	5.1	(7.3)1
176	95.0 - 101.0 % of mass 174	68.9	(98.6)1
177	5.0 - 9.0 % of mass 176	4.6	(6.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 240-176233/3	142375.D	04/13/2015	14:47
	IC 240-176233/4	142376.D	04/13/2015	15:08
	IC 240-176233/5	142377.D	04/13/2015	15:30
	ICIS 240-176233/6	142378.D	04/13/2015	15:52
	IC 240-176233/7	142379.D	04/13/2015	16:13
	IC 240-176233/8	142380.D	04/13/2015	16:34
	IC 240-176233/9	142381.D	04/13/2015	16:56
	IC 240-176233/10	142382.D	04/13/2015	17:17
	IC 240-176233/11	142383.D	04/13/2015	17:39
	ICV 240-176233/12	142384.D	04/13/2015	18:00

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: BFB14924.D BFB Injection Date: 04/14/2015

Instrument ID: A3UX14 BFB Injection Time: 12:15

Analysis Batch No.: 176387

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	54.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	69.3	
175	5.0 - 9.0 % of mass 174	4.6	(6.6)1
176	95.0 - 101.0 % of mass 174	67.8	(97.9)1
177	5.0 - 9.0 % of mass 176	4.0	(5.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-176387/3	142398.D	04/14/2015	12:58
	CCV 240-176387/4	142399.D	04/14/2015	13:19
	LCS 240-176387/5	142400.D	04/14/2015	13:41
	MRL 240-176387/6	142401.D	04/14/2015	14:02
	MB 240-176387/33	142405.D	04/14/2015	15:28
079SS-0342M-0001-SO	240-49071-1	142418.D	04/14/2015	20:08
	MRL 240-176387/30	142426.D	04/14/2015	23:00

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: BFB4271.D BFB Injection Date: 04/08/2015

Instrument ID: A3UX16 BFB Injection Time: 12:22

Analysis Batch No.: 175604

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	89.8	
175	5.0 - 9.0 % of mass 174	5.9	(6.6)1
176	95.0 - 101.0 % of mass 174	87.4	(97.3)1
177	5.0 - 9.0 % of mass 176	5.5	(6.2)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-175604/2	UXM7066.D	04/08/2015	12:59
	STD8260 240-175604/3	UXM7067.D	04/08/2015	13:22
	STD8260 240-175604/4	UXM7068.D	04/08/2015	13:44
	STD8260 240-175604/5	UXM7069.D	04/08/2015	14:07
	STD8260 240-175604/6	UXM7070.D	04/08/2015	14:30
	STD8260 240-175604/7	UXM7071.D	04/08/2015	14:53
	ICV 240-175604/8	UXM7072.D	04/08/2015	15:15

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: BFB4272.D BFB Injection Date: 04/09/2015

Instrument ID: A3UX16 BFB Injection Time: 09:53

Analysis Batch No.: 175731

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	44.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.7	(0.7)1
174	50.0 - 120.00 % of mass 95	89.6	
175	5.0 - 9.0 % of mass 174	5.9	(6.6)1
176	95.0 - 101.0 % of mass 174	86.2	(96.2)1
177	5.0 - 9.0 % of mass 176	5.5	(6.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-175731/2	UXM7081.D	04/09/2015	10:35
	LCS 240-175731/4	UXM7083.D	04/09/2015	11:20
	MRL 240-175731/5	UXM7084.D	04/09/2015	11:43
	MB 240-175731/6	UXM7085.D	04/09/2015	12:06
079SS-0379-0001-TB	240-49071-5	UXM7089.D	04/09/2015	13:37
	MRL 240-175731/15	UXM7094.D	04/09/2015	15:31
	LODV 240-175731/16	UXM7095.D	04/09/2015	15:54

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: BFB8752.D BFB Injection Date: 03/02/2015

Instrument ID: A3UX8 BFB Injection Time: 23:39

Analysis Batch No.: 170352

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	86.6	
175	5.0 - 9.0 % of mass 174	6.1	(7.0)1
176	95.0 - 101.0 % of mass 174	83.8	(96.8)1
177	5.0 - 9.0 % of mass 176	5.6	(6.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-170352/3	UX86154.D	03/03/2015	00:12
	STD8260 240-170352/4	UX86155.D	03/03/2015	00:34
	STD8260 240-170352/5	UX86156.D	03/03/2015	00:55
	ICIS 240-170352/6	UX86157.D	03/03/2015	01:34
	STD8260 240-170352/7	UX86158.D	03/03/2015	01:56
	STD8260 240-170352/8	UX86159.D	03/03/2015	02:17
	STD8260 240-170352/9	UX86160.D	03/03/2015	02:38
	STD8260 240-170352/10	UX86161.D	03/03/2015	03:00
	ICV 240-170352/11	UX86162.D	03/03/2015	03:21

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: BFB8784.D BFB Injection Date: 04/11/2015

Instrument ID: A3UX8 BFB Injection Time: 00:44

Analysis Batch No.: 176026

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	41.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.1	(0.2)1
174	50.0 - 120.00 % of mass 95	87.1	
175	5.0 - 9.0 % of mass 174	6.2	(7.1)1
176	95.0 - 101.0 % of mass 174	83.4	(95.7)1
177	5.0 - 9.0 % of mass 176	5.5	(6.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-176026/4	UX86937.D	04/11/2015	01:15
	CCV 240-176026/5	UX86938.D	04/11/2015	01:37
	LCS 240-176026/6	UX86939.D	04/11/2015	01:58
	MRL 240-176026/7	UX86940.D	04/11/2015	02:19
	MB 240-175865/2-A	UX86942.D	04/11/2015	03:04
079SS-0342M-0001-SO	240-49071-1	UX86943.D	04/11/2015	03:26
	MRL 240-176026/35	UX86968.D	04/11/2015	12:20

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: ICIS 240-176233/6 Date Analyzed: 04/13/2015 15:52

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 142378.D Heated Purge: (Y/N) Y

Calibration ID: 27832

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1563167	6.65	968462	9.39	482391	11.35
UPPER LIMIT		3126334	7.15	1936924	9.89	964782	11.85
LOWER LIMIT		781584	6.15	484231	8.89	241196	10.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-176233/12		1386313	6.65	840125	9.39	435444	11.35
CCV 240-176387/3		1221051	6.65	749206	9.39	384224	11.35
CCV 240-176387/4		1227393	6.65	698940	9.39	359120	11.35
LCS 240-176387/5		1290613	6.65	786094	9.39	399245	11.35
MRL 240-176387/6		1161774	6.65	659372	9.39	345282	11.35
MB 240-176387/33		1165451	6.65	666484	9.39	346955	11.35
240-49071-1	079SS-0342M-0001-SO	526590Q	6.66	268134Q	9.39	135065Q	11.35
MRL 240-176387/30		931186	6.66	512870	9.39	263710	11.35

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

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

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD8260 240-175604/4 Date Analyzed: 04/08/2015 13:44

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM7068.D Heated Purge: (Y/N) N

Calibration ID: 27788

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1548065	5.59	1098353	8.28	639037	10.51
UPPER LIMIT		3096130	6.09	2196706	8.78	1278074	11.01
LOWER LIMIT		774033	5.09	549177	7.78	319519	10.01
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-175604/8		1626133	5.59	1148226	8.28	645335	10.51
CCV 240-175731/2		1619605	5.59	1165506	8.28	663916	10.51
LCS 240-175731/4		1619676	5.59	1168877	8.28	648310	10.51
MRL 240-175731/5		1537072	5.59	1108443	8.28	600788	10.51
MB 240-175731/6		1561297	5.59	1133994	8.28	583466	10.51
240-49071-5	079SS-0379-0001-TB	1556571	5.59	1126092	8.28	587964	10.51
MRL 240-175731/15		1550965	5.59	1110054	8.28	591008	10.51
LODV 240-175731/16		1530220	5.59	1088172	8.28	585975	10.51

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

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

Column used to flag values outside QC limits

FORM VIII 8260B

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: ICIS 240-170352/6 Date Analyzed: 03/03/2015 01:34

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX86157.D Heated Purge: (Y/N) Y

Calibration ID: 27146

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1259665	5.16	916655	7.69	494963	9.88
UPPER LIMIT		2519330	5.66	1833310	8.19	989926	10.38
LOWER LIMIT		629833	4.66	458328	7.19	247482	9.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-170352/11		1272907	5.16	926219	7.69	502598	9.88
CCV 240-176026/4		1300746	5.16	948647	7.69	491042	9.88
CCV 240-176026/5		1221404	5.16	913666	7.68	452359	9.88
LCS 240-176026/6		1206305	5.16	907420	7.69	464364	9.88
MRL 240-176026/7		1213632	5.16	898758	7.68	478673	9.88
MB 240-175865/2-A		1144899	5.16	844497	7.69	428501	9.88
240-49071-1	079SS-0342M-0001-SO	971291	5.16	694043	7.69	301248	9.88
MRL 240-176026/35		1192587	5.16	877207	7.68	457912	9.88

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

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

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001-SO | Lab Sample ID: 240-49071-1

Matrix: Solid | Lab File ID: UX86943.D

Analysis Method: 8260B | Date Collected: 04/06/2015 16:30

Sample wt/vol: 5.98(g) | Date Analyzed: 04/11/2015 03:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 20.7 | Level: (low/med) Low

Analysis Batch No.: 176026 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.1	U	5.3	1.1	0.59
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	5.3	1.1	0.36
79-00-5	1,1,2-Trichloroethane	1.1	U	5.3	1.1	0.41
75-34-3	1,1-Dichloroethane	1.1	U	5.3	1.1	0.38
75-35-4	1,1-Dichloroethene	1.1	U	5.3	1.1	0.55
106-93-4	1,2-Dibromoethane	1.1	U Q	5.3	1.1	0.53
107-06-2	1,2-Dichloroethane	1.1	U	5.3	1.1	0.36
540-59-0	1,2-Dichloroethene, Total	2.1	U	11	2.1	0.38
78-87-5	1,2-Dichloropropane	2.1	U	5.3	2.1	0.73
78-93-3	2-Butanone (MEK)	1.5	J	21	4.2	1.5
591-78-6	2-Hexanone	1.1	U	21	1.1	0.66
108-10-1	4-Methyl-2-pentanone (MIBK)	1.1	U	21	1.1	0.57
71-43-2	Benzene	0.53	U	5.3	0.53	0.24
74-97-5	Bromochloromethane	2.1	U	5.3	2.1	0.75
75-27-4	Bromodichloromethane	0.53	U	5.3	0.53	0.30
75-25-2	Bromoform	1.1	U Q	5.3	1.1	0.35
74-83-9	Bromomethane	1.1	U	5.3	1.1	0.57
75-15-0	Carbon disulfide	1.1	U	5.3	1.1	0.46
56-23-5	Carbon tetrachloride	1.1	U	5.3	1.1	0.39
108-90-7	Chlorobenzene	1.1	U	5.3	1.1	0.35
75-00-3	Chloroethane	1.1	U	5.3	1.1	0.91
67-66-3	Chloroform	0.53	U	5.3	0.53	0.31
74-87-3	Chloromethane	0.53	U	5.3	0.53	0.43
10061-01-5	cis-1,3-Dichloropropene	1.1	U	5.3	1.1	0.36
124-48-1	Dibromochloromethane	1.1	U Q	5.3	1.1	0.58
100-41-4	Ethylbenzene	0.53	U Q	5.3	0.53	0.27
1634-04-4	Methyl tert-butyl ether	1.1	U	5.3	1.1	0.45
100-42-5	Styrene	0.53	U Q	5.3	0.53	0.16
127-18-4	Tetrachloroethene	1.1	U Q	5.3	1.1	0.55
108-88-3	Toluene	0.53	U	5.3	0.53	0.28
10061-02-6	trans-1,3-Dichloropropene	1.1	U	5.3	1.1	0.57
79-01-6	Trichloroethene	1.1	U	5.3	1.1	0.44
75-01-4	Vinyl chloride	1.1	U	5.3	1.1	0.41
1330-20-7	Xylenes, Total	2.1	U Q	11	2.1	0.37

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001-SO Lab Sample ID: 240-49071-1

Matrix: Solid Lab File ID: UX86943.D

Analysis Method: 8260B Date Collected: 04/06/2015 16:30

Sample wt/vol: 5.98(g) Date Analyzed: 04/11/2015 03:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 20.7 Level: (low/med) Low

Analysis Batch No.: 176026 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		61-130
460-00-4	4-Bromofluorobenzene (Surr)	92		85-120
1868-53-7	Dibromofluoromethane (Surr)	107		59-138
2037-26-5	Toluene-d8 (Surr)	117	Q	85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86943.D
Lims ID: 240-49071-B-1-A Lab Sample ID: 240-49071-1
Client ID: 079SS-0342M-0001-SO
Sample Type: Client
Inject. Date: 11-Apr-2015 03:26:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042461-010
Operator ID: 402279 Instrument ID: A3UX8

Method: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 01:56:28 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 11-Apr-2015 03:54:28

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.158	5.160	-0.002	99	971291	50.0	
*	2 Chlorobenzene-d5	117	7.691	7.680	0.011	94	694043	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.880	9.881	-0.001	98	301248	50.0	
$	4 Dibromofluoromethane (Surr	113	4.626	4.625	0.001	95	211000	53.7	
$	5 1,2-Dichloroethane-d4 (Sur	65	4.898	4.897	0.001	90	232050	52.1	
$	6 Toluene-d8 (Surr)	98	6.425	6.424	0.001	92	882326	58.4	
$	7 4-Bromofluorobenzene (Surr	95	8.767	8.755	0.012	97	251073	45.8	
	10 Chloromethane	50		1.750				ND	
	11 Vinyl chloride	62		1.868				ND	
	13 Bromomethane	94		2.187				ND	
	14 Chloroethane	64		2.294				ND	
	19 1,1-Dichloroethene	96		2.933				ND	
	21 Acetone	43	2.958	2.957	0.001	99	60203	16.7	
	24 Carbon disulfide	76		3.122				ND	
	28 Methylene Chloride	84	3.301	3.300	0.001	92	80693	13.2	
	31 trans-1,2-Dichloroethene	96		3.525				ND	
	32 Methyl tert-butyl ether	73		3.525				ND	
	34 1,1-Dichloroethane	63		3.844				ND	
	39 cis-1,2-Dichloroethene	96		4.270				ND	
	40 2-Butanone (MEK)	43	4.271	4.270	0.001	64	4302	1.41	
	45 Chlorobromomethane	128		4.459				ND	
	47 Chloroform	83		4.507				ND	
	48 1,1,1-Trichloroethane	97		4.672				ND	
	51 Carbon tetrachloride	117		4.802				ND	
	54 Benzene	78		4.956				ND	
	53 1,2-Dichloroethane	62		4.956				ND	
	58 Trichloroethene	130		5.441				ND	
	61 1,2-Dichloropropane	63		5.619				ND	
	65 Dichlorobromomethane	83		5.832				ND	
	68 cis-1,3-Dichloropropene	75		6.187				ND	
	69 4-Methyl-2-pentanone (MIBK	43		6.305				ND	
	70 Toluene	91		6.483				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
71 trans-1,3-Dichloropropene	75		6.648				ND	
73 1,1,2-Trichloroethane	97		6.802				ND	
75 Tetrachloroethene	164		6.968				ND	
76 2-Hexanone	43		7.003				ND	
78 Chlorodibromomethane	129		7.157				ND	
80 Ethylene Dibromide	107		7.276				ND	
82 Chlorobenzene	112		7.713				ND	
84 Ethylbenzene	106		7.796				ND	
85 m-Xylene & p-Xylene	106		7.903				ND	
86 o-Xylene	106		8.269				ND	
87 Styrene	104		8.281				ND	
88 Bromoform	173		8.459				ND	
92 1,1,2,2-Tetrachloroethane	83		8.873				ND	
S 126 1,2-Dichloroethene, Total	96		1.140				ND	
S 128 Xylenes, Total	106		16.530				ND	

Reagents:

VM250-IS_00028	Amount Added: 1.00	Units: uL	Run Reagent
VMUX8SS_00018	Amount Added: 1.15	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added: 0.00	Units:	Run Reagent

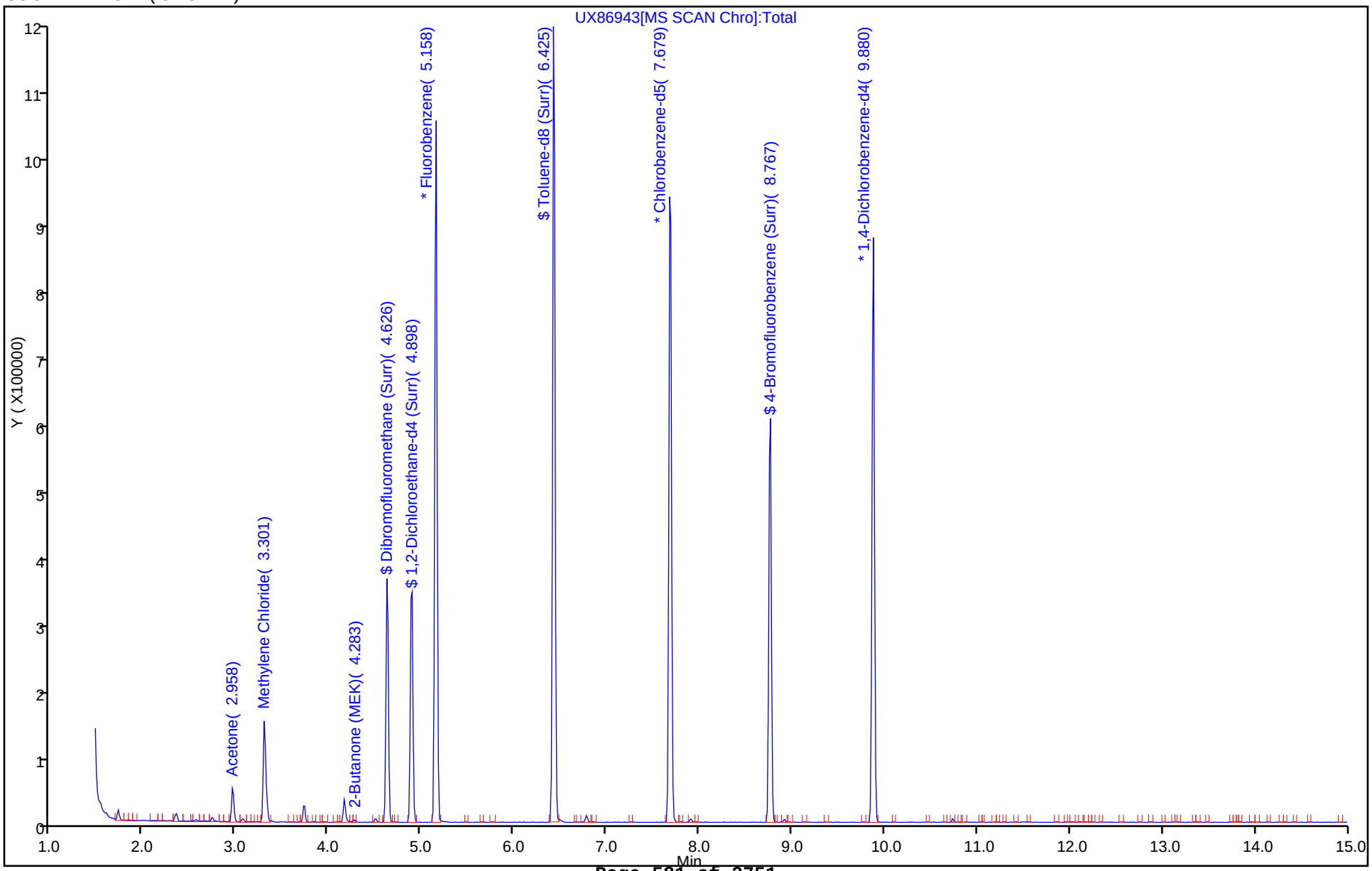
Report Date: 14-Apr-2015 01:56:32 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86943.D

Injection Date:	11-Apr-2015 03:26:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	240-49071-B-1-A	Lab Sample ID:	240-49071-1	Worklist Smp#:	10
Client ID:	079SS-0342M-0001-SO				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



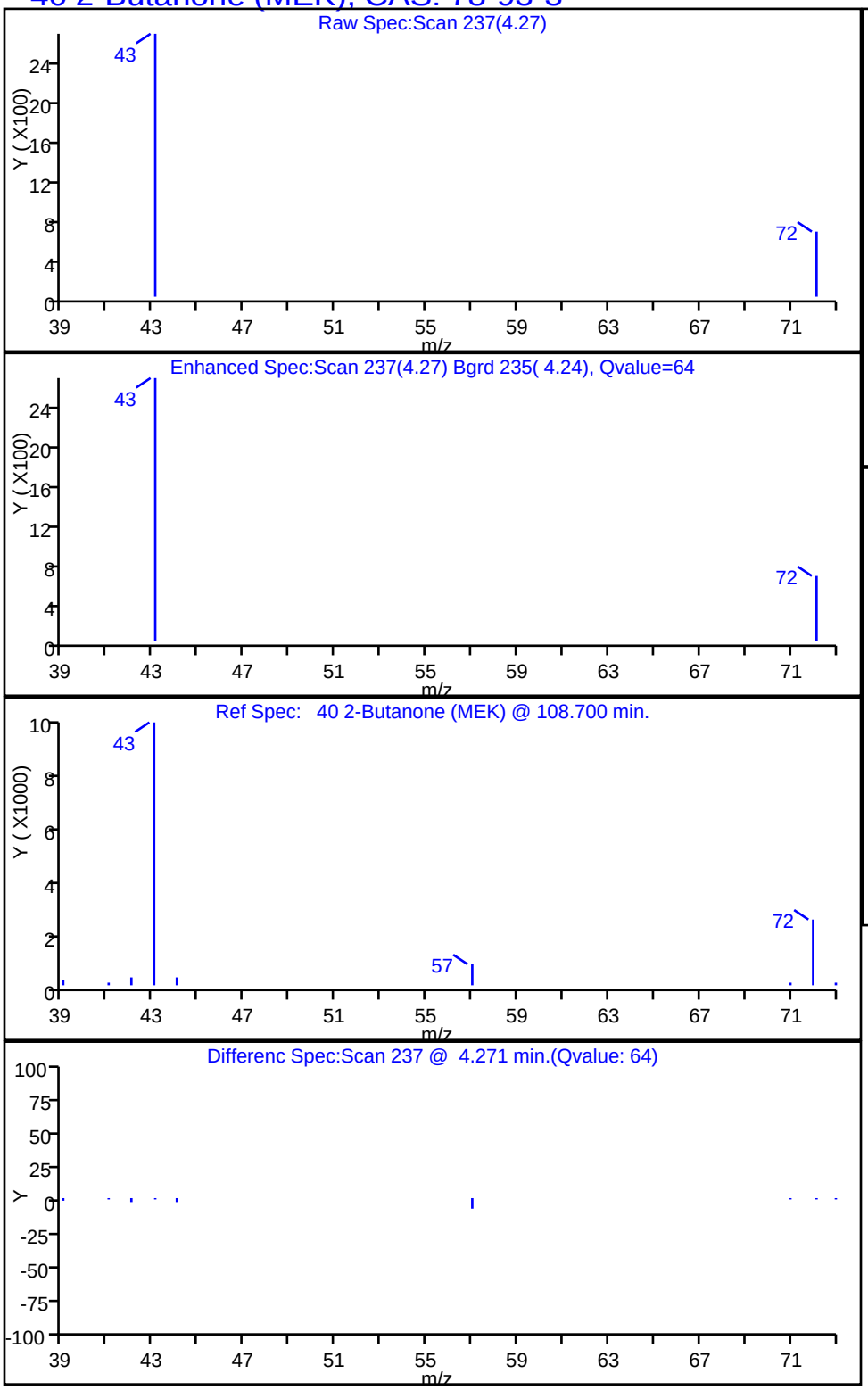
Report Date: 14-Apr-2015 01:56:32 Chrom Revision: 2.2 13-Mar-2015 11:20:44

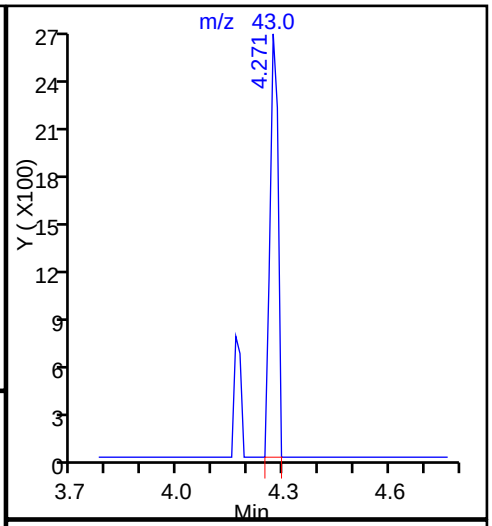
TestAmerica Canton

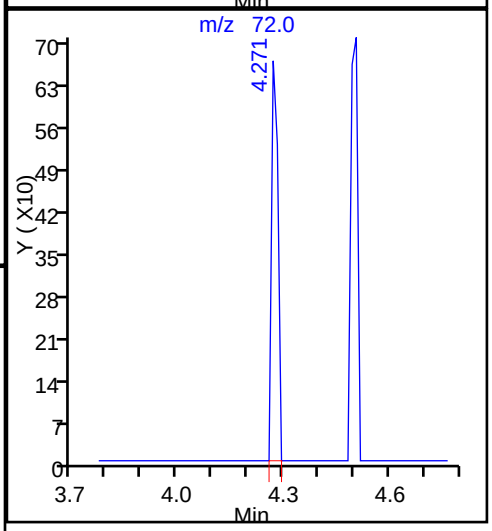
Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86943.D

Injection Date:	11-Apr-2015 03:26:30	Instrument ID:	A3UX8		
Lims ID:	240-49071-B-1-A	Lab Sample ID:	240-49071-1		
Client ID:	079SS-0342M-0001-SO				
Operator ID:	402279	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

40 2-Butanone (MEK), CAS: 78-93-3







FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001-SO Lab Sample ID: 240-49071-1

Matrix: Solid Lab File ID: 142418.D

Analysis Method: 8260B Date Collected: 04/06/2015 16:30

Sample wt/vol: 7.104(g) Date Analyzed: 04/14/2015 20:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 20.7 Level: (low/med) Low

Analysis Batch No.: 176387 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-64-1	Acetone	23	Q	18	13	5.6
75-09-2	Methylene Chloride	3.9	J Q B	4.4	1.8	0.59

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109	Q	61-130
460-00-4	4-Bromofluorobenzene (Surr)	96	Q	85-120
1868-53-7	Dibromofluoromethane (Surr)	95	Q	59-138
2037-26-5	Toluene-d8 (Surr)	105	Q	85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142418.D
Lims ID: 240-49071-C-1-A Lab Sample ID: 240-49071-1
Client ID: 079SS-0342M-0001-SO
Sample Type: Client
Inject. Date: 14-Apr-2015 20:08:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-49071-c-1-a
Misc. Info.: 240-0042552-022240-0042552-022
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:47 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 15-Apr-2015 12:52:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 TBA-d9 (IS)	65		3.789				ND	
* 1 Fluorobenzene	96	6.664	6.652	0.012	99	526590	50.0	s
* 4 Dioxane-d8 (IS)	96		7.339				ND	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	268134	50.0	s
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	95	135065	50.0	s
$ 6 Dibromofluoromethane (Surr	113	5.978	5.990	-0.012	92	130380	47.4	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	94	178942	54.6	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	95	420093	52.5	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	83	129193	47.8	
12 Chloromethane	50		1.481				ND	
13 Vinyl chloride	62		1.600				ND	
15 Bromomethane	94		1.907				ND	
17 Chloroethane	64		2.002				ND	
23 1,1-Dichloroethene	96		2.889				ND	
26 Acetone	43	3.031	3.031	0.000	100	20826	26.4	
28 Carbon disulfide	76		3.150				ND	
32 Methylene Chloride	84	3.588	3.588	0.000	93	19050	4.42	
34 trans-1,2-Dichloroethene	96		3.990				ND	
35 Methyl tert-butyl ether	73		4.025				ND	
38 1,1-Dichloroethane	63		4.641				ND	
44 cis-1,2-Dichloroethene	96		5.410				ND	
45 2-Butanone (MEK)	43	5.493	5.481	0.012	63	938	1.02	
48 Chlorobromomethane	128		5.694				ND	
51 Chloroform	83		5.800				ND	
52 1,1,1-Trichloroethane	97		5.954				ND	
54 Carbon tetrachloride	117		6.120				ND	
56 Benzene	78		6.356				ND	
58 1,2-Dichloroethane	62		6.404				ND	
61 Trichloroethene	130		7.007				ND	
65 1,2-Dichloropropane	63		7.232				ND	
70 Dichlorobromomethane	83		7.504				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
73 cis-1,3-Dichloropropene	75		7.907				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.060				ND	
76 Toluene	91		8.191				ND	
77 trans-1,3-Dichloropropene	75		8.404				ND	
79 1,1,2-Trichloroethane	97		8.569				ND	
80 Tetrachloroethene	164		8.664				ND	
82 2-Hexanone	43		8.782				ND	
84 Chlorodibromomethane	129		8.901				ND	
85 Ethylene Dibromide	107		8.995				ND	
87 Chlorobenzene	112		9.409				ND	
89 Ethylbenzene	106	9.492	9.504	-0.012	22	705	0.2307	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	90	2873	0.8101	
91 o-Xylene	106	9.942	9.930	0.012	31	805	0.2118	
92 Styrene	104		9.954				ND	
93 Bromoform	173		10.119				ND	
96 1,1,2,2-Tetrachloroethane	83		10.522				ND	
S 134 1,2-Dichloroethene, Total	96		1.140				ND	
S 136 Xylenes, Total	106				0		1.02	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VM250SS_00030	Amount Added:	1.00	Units: uL	Run Reagent

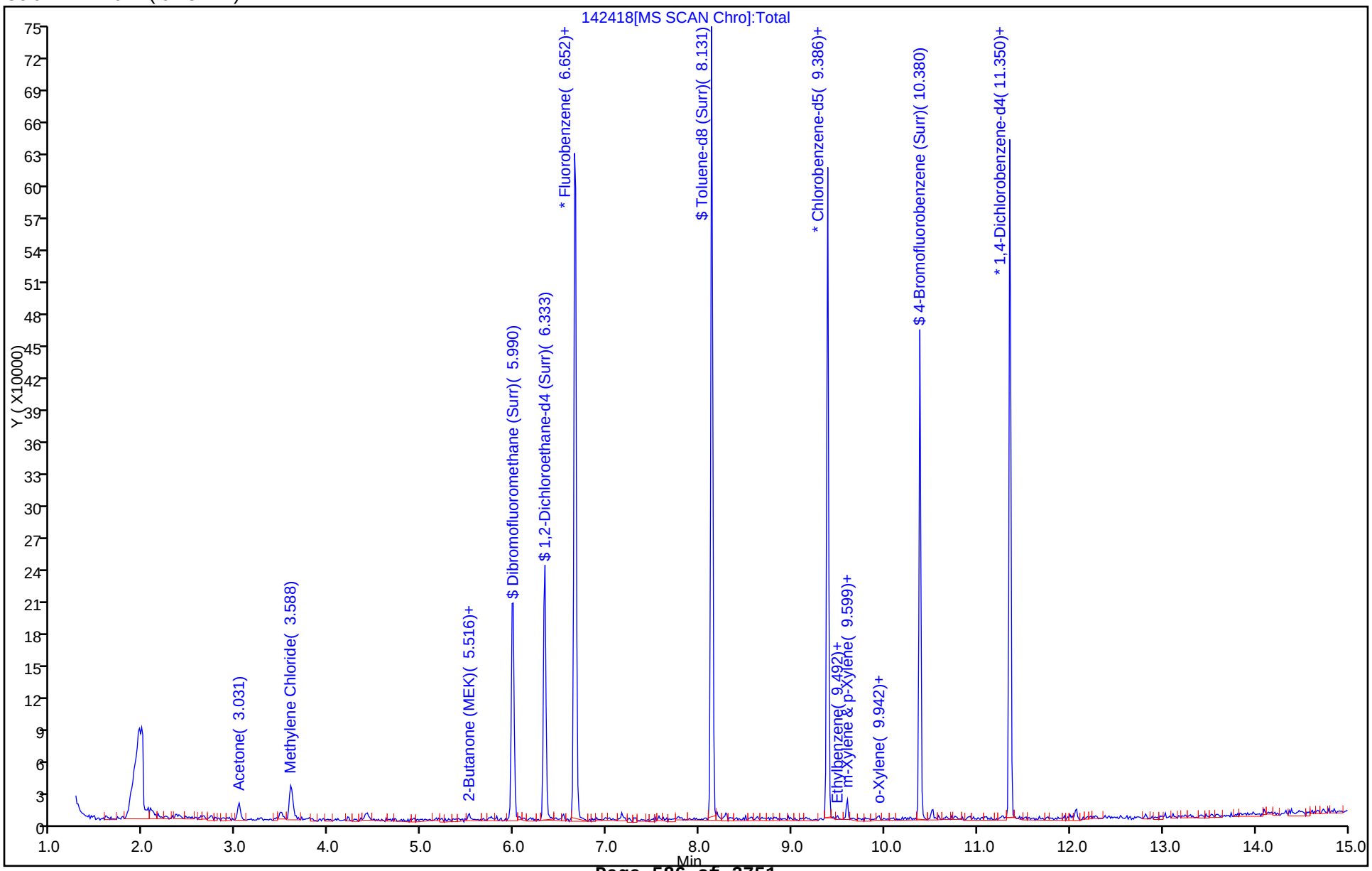
Report Date: 15-Apr-2015 13:29:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142418.D

Injection Date:	14-Apr-2015 20:08:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	240-49071-C-1-A	Lab Sample ID:	240-49071-1	Worklist Smp#:	22
Client ID:	079SS-0342M-0001-SO				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



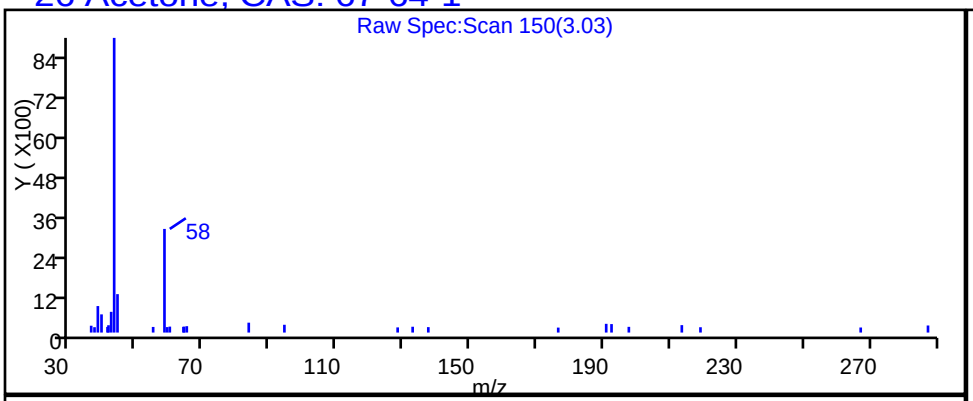
Report Date: 15-Apr-2015 13:29:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

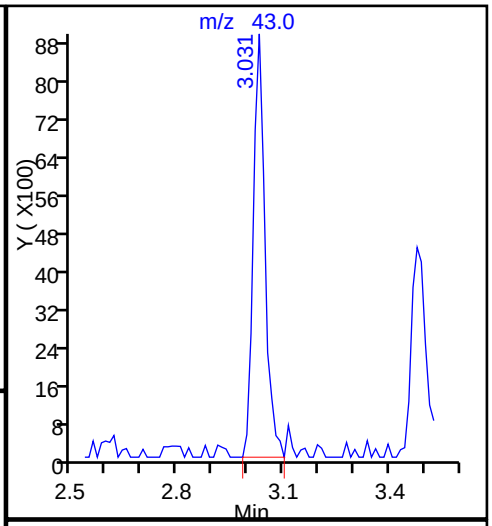
TestAmerica Canton

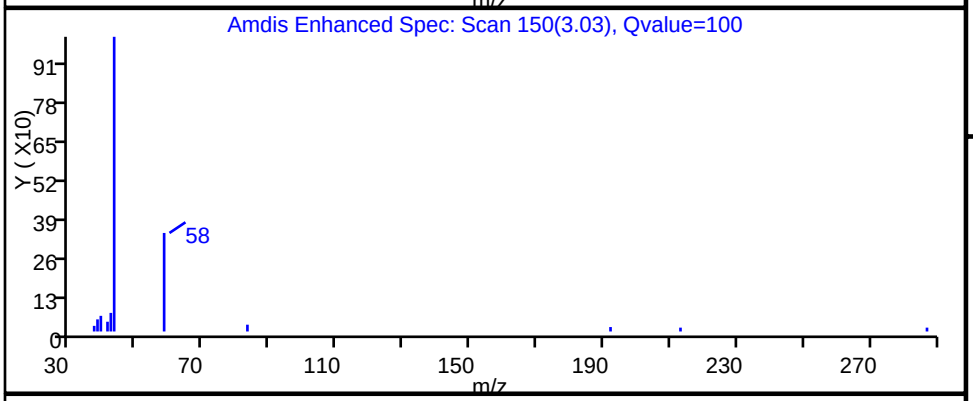
Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142418.D

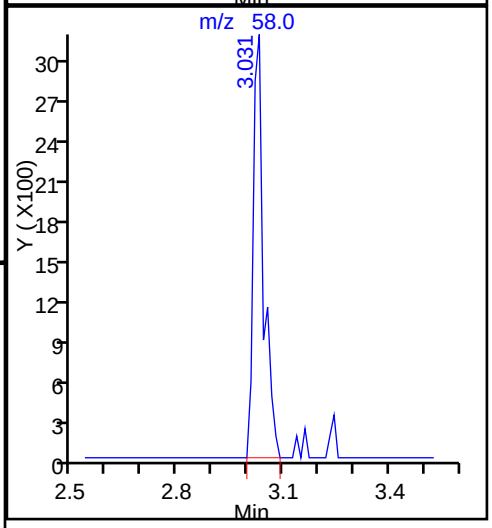
Injection Date:	14-Apr-2015 20:08:30	Instrument ID:	A3UX14
Lims ID:	240-49071-C-1-A	Lab Sample ID:	240-49071-1
Client ID:	079SS-0342M-0001-SO		
Operator ID:	002808	ALS Bottle#:	22 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

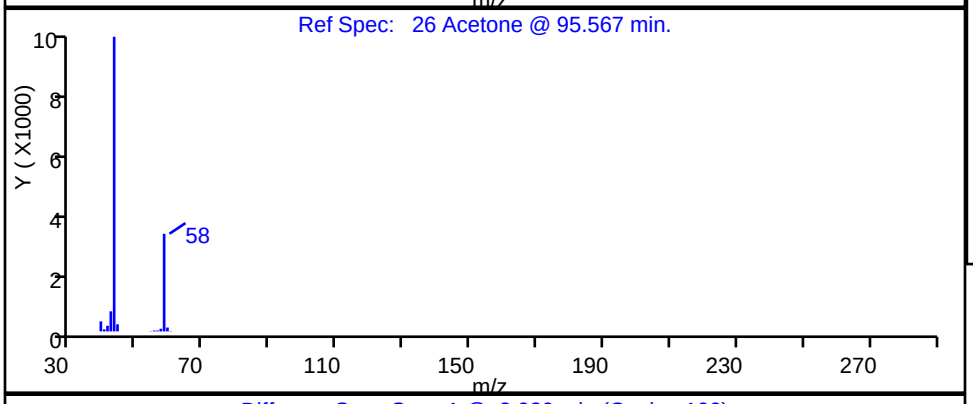
26 Acetone, CAS: 67-64-1

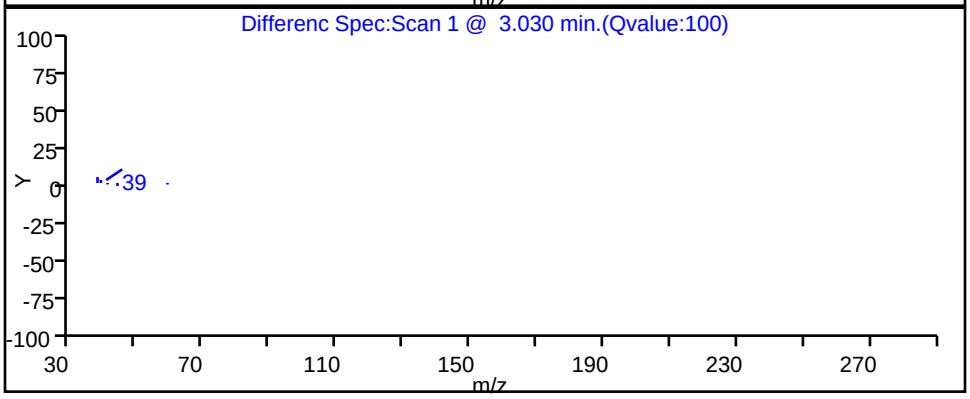












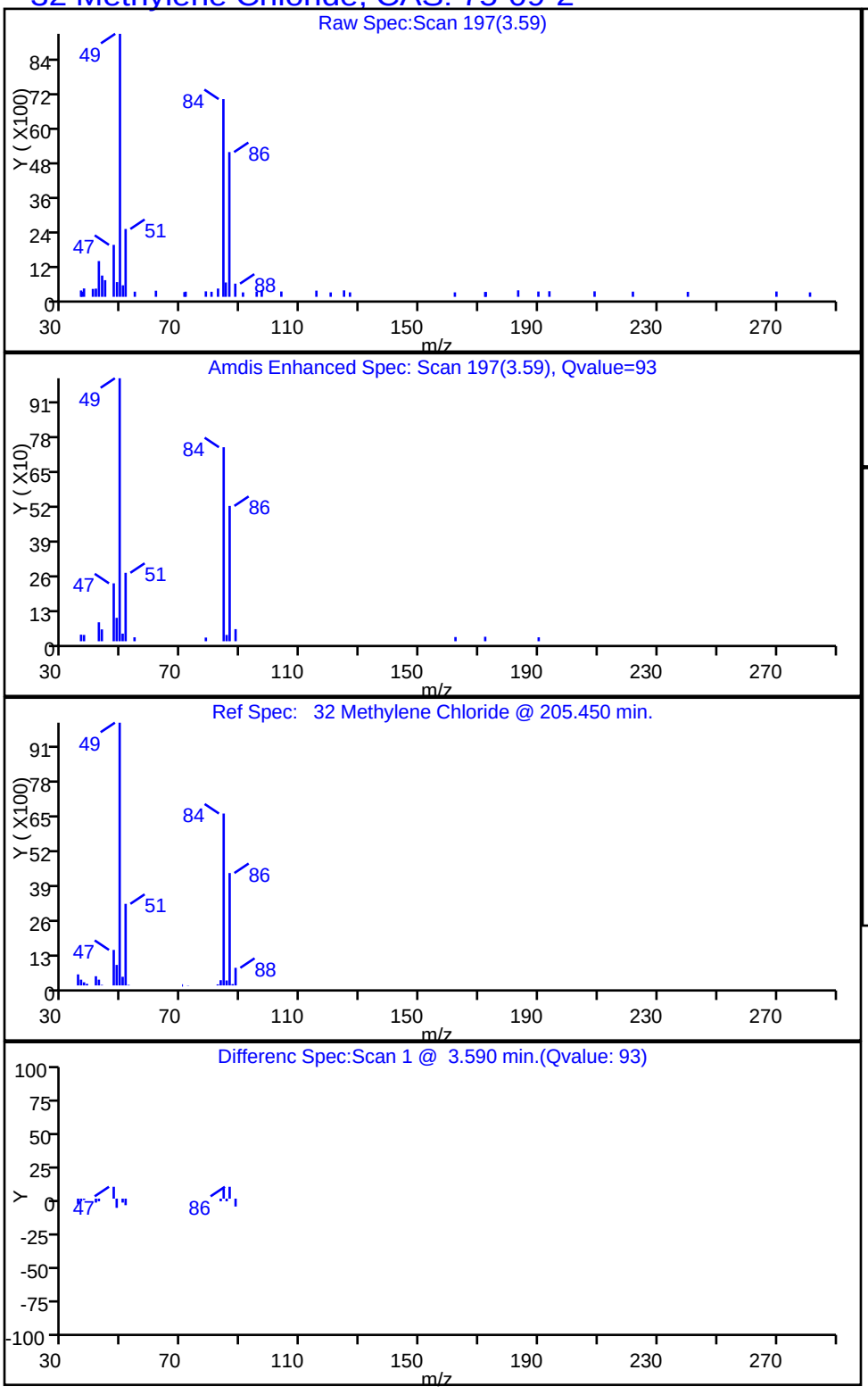
Report Date: 15-Apr-2015 13:29:08 Chrom Revision: 2.2 13-Mar-2015 11:20:44

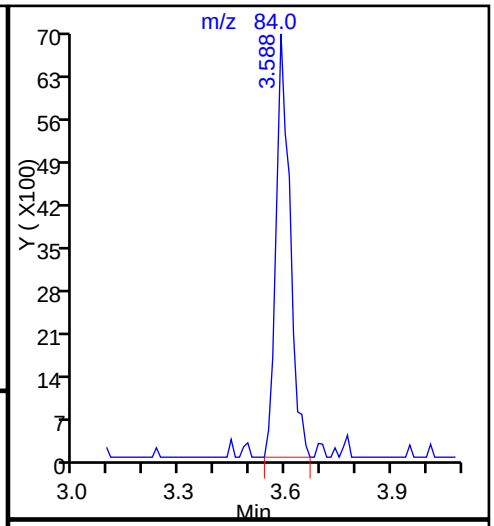
TestAmerica Canton

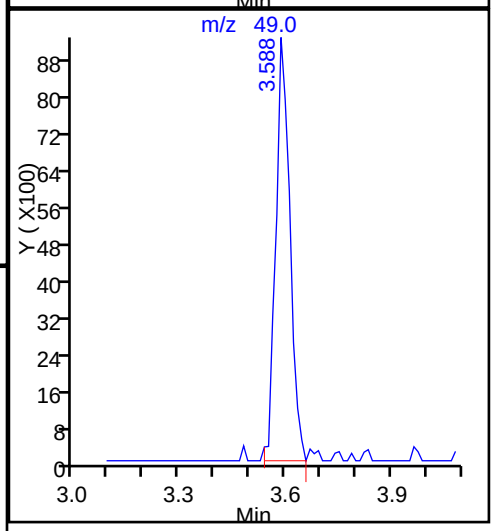
Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142418.D

Injection Date:	14-Apr-2015 20:08:30	Instrument ID:	A3UX14
Lims ID:	240-49071-C-1-A	Lab Sample ID:	240-49071-1
Client ID:	079SS-0342M-0001-SO		
Operator ID:	002808	ALS Bottle#:	22 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

32 Methylene Chloride, CAS: 75-09-2







FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0379-0001-TB | Lab Sample ID: 240-49071-5

Matrix: Water | Lab File ID: UXM7089.D

Analysis Method: 8260B | Date Collected: 04/06/2015 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/09/2015 13:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 175731 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	1.0	U	1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	2.0	U	10	2.0	0.53
591-78-6	2-Hexanone	2.0	U	10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	10	2.0	0.99
67-64-1	Acetone	1.6	J	10	2.0	0.94
71-43-2	Benzene	1.0	U	1.0	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	1.0	0.46
124-48-1	Dibromochloromethane	1.0	U	1.0	1.0	0.43
75-27-4	Bromodichloromethane	1.0	U	1.0	1.0	0.29
100-41-4	Ethylbenzene	1.0	U	1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	0.50	U	1.0	0.50	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	1.0	0.33
100-42-5	Styrene	0.50	U	1.0	0.50	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	1.0	0.22
75-01-4	Vinyl chloride	1.0	U	1.0	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	2.0	0.52
67-66-3	Chloroform	1.0	U	1.0	1.0	0.25
74-97-5	Bromochloromethane	1.0	U	1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	1.0	U	1.0	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0379-0001-TB Lab Sample ID: 240-49071-5

Matrix: Water Lab File ID: UXM7089.D

Analysis Method: 8260B Date Collected: 04/06/2015 08:00

Sample wt/vol: 5(mL) Date Analyzed: 04/09/2015 13:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 175731 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		85-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-120
460-00-4	4-Bromofluorobenzene (Surr)	97		75-120
1868-53-7	Dibromofluoromethane (Surr)	93		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7089.D
Lims ID: 240-49071-A-5 Lab Sample ID: 240-49071-5
Client ID: 079SS-0379-0001-TB
Sample Type: Client
Inject. Date: 09-Apr-2015 13:37:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-010
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:13 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quayler Date: 10-Apr-2015 07:19:11

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.587	5.587	0.000	99	1556571	10.0	
*	2 Chlorobenzene-d5	117	8.279	8.279	0.000	84	1126092	10.0	
*	3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	587964	10.0	
$	4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	328663	10.6	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	369861	10.8	
$	6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1444933	10.7	
$	7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	535136	11.1	
	10 Chloromethane	50		1.769				ND	
	11 Vinyl chloride	62		1.888				ND	
	13 Bromomethane	94		2.220				ND	
	14 Chloroethane	64		2.327				ND	
	19 1,1-Dichloroethene	96		3.050				ND	
	21 Acetone	43	3.085	3.086	-0.001	99	15036	1.60	
	24 Carbon disulfide	76		3.252				ND	
	28 Methylene Chloride	84		3.489				ND	
	31 Methyl tert-butyl ether	73		3.738				ND	
	32 trans-1,2-Dichloroethene	96		3.738				ND	
	34 1,1-Dichloroethane	63		4.105				ND	
	40 2-Butanone (MEK)	43		4.603				ND	
	39 cis-1,2-Dichloroethene	96		4.603				ND	
	45 Chlorobromomethane	128		4.805				ND	
	47 Chloroform	83		4.864				ND	
	48 1,1,1-Trichloroethane	97		5.042				ND	
	51 Carbon tetrachloride	117		5.196				ND	
	53 1,2-Dichloroethane	62		5.362				ND	
	54 Benzene	78		5.362				ND	
	58 Trichloroethene	130		5.908				ND	
	61 1,2-Dichloropropane	63		6.098				ND	
	65 Dichlorobromomethane	83		6.323				ND	
	68 cis-1,3-Dichloropropene	75		6.714				ND	
	69 4-Methyl-2-pentanone (MIBK	43		6.833				ND	
	70 Toluene	91		7.023				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
71 trans-1,3-Dichloropropene	75		7.189				ND	
73 1,1,2-Trichloroethane	97		7.366				ND	
75 Tetrachloroethene	164		7.521				ND	
76 2-Hexanone	43		7.580				ND	
78 Chlorodibromomethane	129		7.734				ND	
80 Ethylene Dibromide	107		7.841				ND	
82 Chlorobenzene	112		8.303				ND	
84 Ethylbenzene	106		8.398				ND	
85 m-Xylene & p-Xylene	106		8.505				ND	
86 o-Xylene	106		8.884				ND	
87 Styrene	104		8.896				ND	
88 Bromoform	173		9.074				ND	
92 1,1,2,2-Tetrachloroethane	83		9.501				ND	
S 131 1,2-Dichloroethene, Total	96		1.140				ND	
S 133 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00045	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added: 1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added: 0.00	Units:	Run Reagent

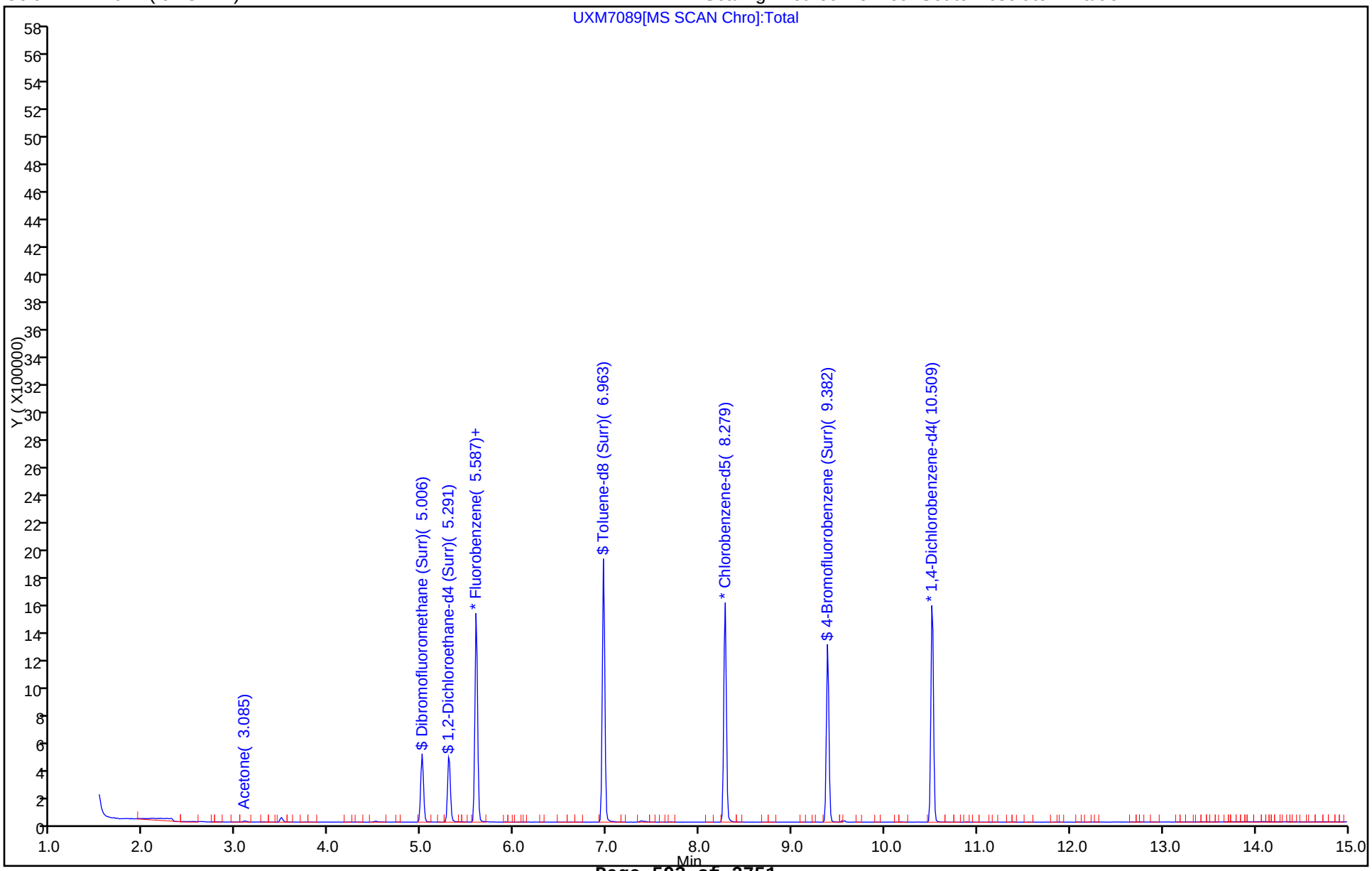
Report Date: 10-Apr-2015 07:30:20 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7089.D

Injection Date:	09-Apr-2015 13:37:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	240-49071-A-5	Lab Sample ID:	240-49071-5	Worklist Smp#:	10
Client ID:	079SS-0379-0001-TB				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



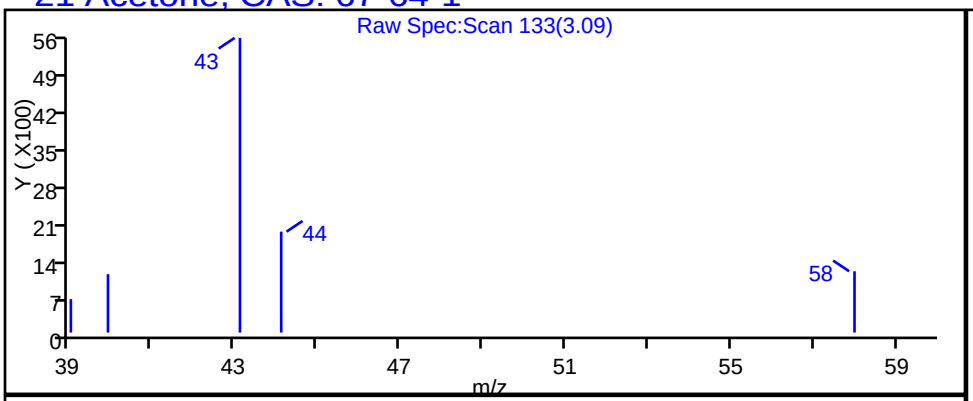
Report Date: 10-Apr-2015 07:30:20 Chrom Revision: 2.2 13-Mar-2015 11:20:44

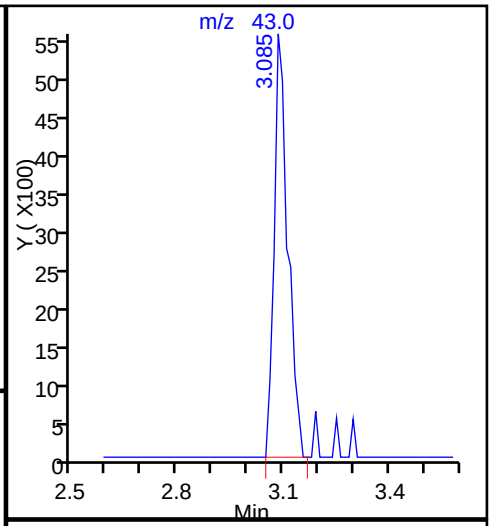
TestAmerica Canton

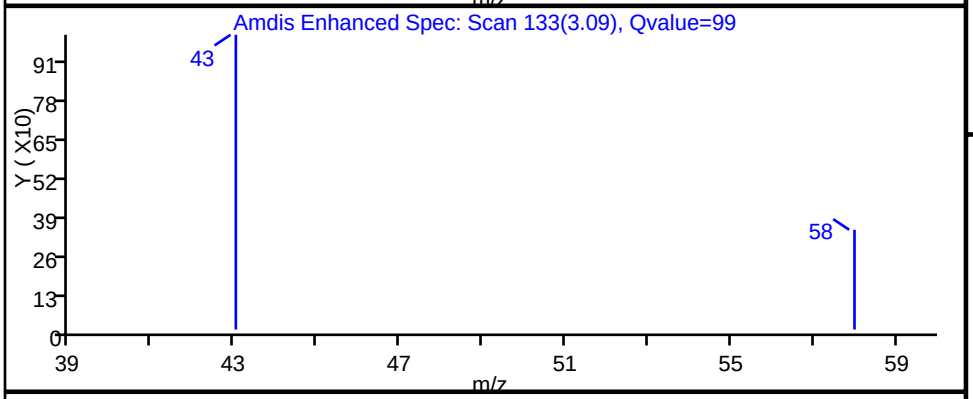
Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7089.D

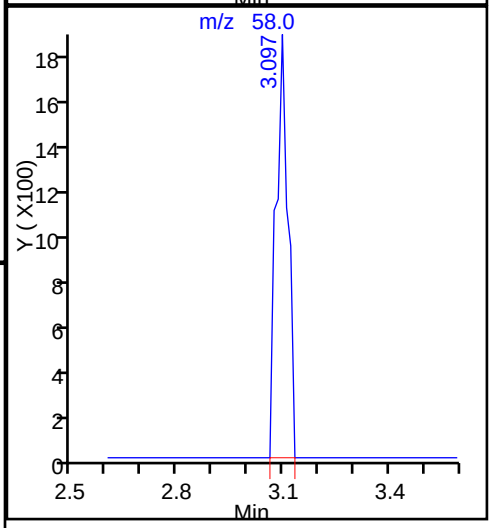
Injection Date:	09-Apr-2015 13:37:30	Instrument ID:	A3UX16
Lims ID:	240-49071-A-5	Lab Sample ID:	240-49071-5
Client ID:	079SS-0379-0001-TB		
Operator ID:	1904	ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

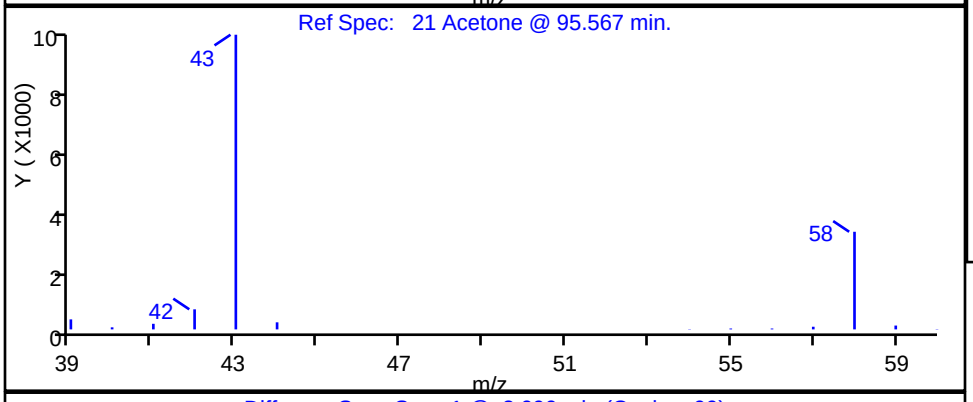
21 Acetone, CAS: 67-64-1

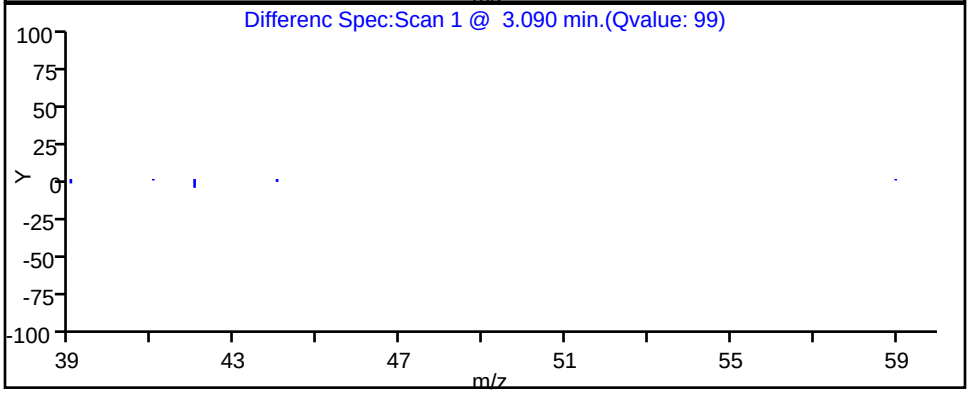












FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-176233/11	142383.D
Level 2	IC 240-176233/10	142382.D
Level 3	IC 240-176233/9	142381.D
Level 4	IC 240-176233/8	142380.D
Level 5	IC 240-176233/7	142379.D
Level 6	ICIS 240-176233/6	142378.D
Level 7	IC 240-176233/5	142377.D
Level 8	IC 240-176233/4	142376.D
Level 9	IC 240-176233/3	142375.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.2924	+++++ 0.2993	0.3672 0.3059	0.3103 0.3219	0.2893	Ave		0.3123			0.1000	8.5		15.0			
Chloromethane	0.3557 0.2960	0.3043 0.3161	0.3878 0.3092	0.3249 0.3038	0.3124	Ave		0.3234			0.1000	9.2		15.0			
Vinyl chloride	0.3206 0.3100	0.2645 0.3321	0.3875 0.3183	0.3227 0.3145	0.3330	Ave		0.3226			0.1000	9.8		15.0			
Butadiene	0.2193 0.3104	0.2553 0.3227	0.3815 0.3192	0.3159 0.3145	0.3092	Ave		0.3053				14.8		15.0			
Bromomethane	0.2937 0.2290	0.2664 0.2353	0.2886 0.2322	0.2309 0.2332	0.2408	Ave		0.2500			0.0500	10.4		15.0			
Chloroethane	0.2325 0.1403	0.1903 0.1445	0.1929 0.1651	0.1523 0.1702	0.1388	Lin1	0.0426	0.1607							0.9940		0.9900
Dichlorofluoromethane	0.5110 0.4490	0.4910 0.4798	0.5658 0.4969	0.5059 0.4882	0.4607	Ave		0.4942				6.8		15.0			
Trichlorofluoromethane	0.3439 0.4547	0.3926 0.4935	0.5365 0.4983	0.4445 0.5105	0.4617	Ave		0.4596			0.1000	13.2		15.0			
Ethyl ether	0.1761 0.1937	0.2058 0.1913	0.2166 0.1874	0.1895 0.1918	0.2061	Ave		0.1953				6.2		15.0			
Acrolein	0.0247 0.0204	0.0271 0.0210	0.0238 0.0197	0.0201 0.0201	0.0223	Ave		0.0221				11.6		15.0			
1,1-Dichloroethene	0.2302 0.2197	0.2351 0.2336	0.2432 0.2300	0.2276 0.2321	0.2172	Ave		0.2298			0.1000	3.4		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1696 0.1772	0.1386 0.1839	0.2020 0.1837	0.1847 0.1834	0.1842	Ave		0.1786			0.0500	9.7		15.0			
Acetone	0.2927 0.0621	0.2048 0.0584	0.1050 0.0547	0.0837 0.0560	0.0753	Lin1	0.5270	0.0550			0.0500				0.9980		0.9900

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 | Calibration End Date: 04/13/2015 17:39 | Calibration ID: 27832

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Iodomethane	+++++ 0.2866	+++++ 0.3063	0.3150 0.3064	0.3167 0.3063	0.2897	Ave		0.3039				3.8		15.0			
Carbon disulfide	0.4486 0.5742	0.4110 0.6422	0.5320 0.6614	0.5124 0.6549	0.5129	Lin1	-0.459	0.6464			0.1000				0.9970		0.9900
3-Chloro-1-propene	0.1201 0.1400	0.1308 0.1577	0.1507 0.1560	0.1372 0.1541	0.1413	Ave		0.1431				8.9		15.0			
Methyl acetate	0.1921 0.1599	0.1826 0.1561	0.1727 0.1508	0.1621 0.1541	0.1619	Ave		0.1658			0.1000	8.4		15.0			
Methylene Chloride	1.0067 0.2458	0.6453 0.2498	0.3790 0.2434	0.2905 0.2448	0.2675	Lin1	0.7499	0.2396			0.1000				1.0000		0.9900
2-Methyl-2-propanol	0.0274 0.0237	0.0319 0.0240	0.0265 0.0219	0.0246 0.0229	0.0249	Ave		0.0253				11.8		15.0			
trans-1,2-Dichloroethene	0.2671 0.2584	0.2553 0.2701	0.2901 0.2659	0.2733 0.2697	0.2555	Ave		0.2673			0.1000	4.0		15.0			
Methyl tert-butyl ether	0.6830 0.7552	0.8270 0.7698	0.7926 0.7446	0.7304 0.7830	0.7373	Ave		0.7581			0.1000	5.5		15.0			
Acrylonitrile	0.0704 0.0699	0.0802 0.0682	0.0790 0.0658	0.0746 0.0664	0.0739	Ave		0.0720				7.3		15.0			
Hexane	0.0848 0.0636	0.0751 0.0640	0.0785 0.0662	0.0665 0.0630	0.0610	Ave		0.0692				11.9		15.0			
1,1-Dichloroethane	0.5924 0.5312	0.4814 0.5470	0.5793 0.5477	0.5580 0.5635	0.5278	Ave		0.5476			0.1000	5.9		15.0			
Vinyl acetate	+++++ 0.0174	+++++ 0.0170	0.0187 0.0176	0.0176 0.0178	0.0168	Ave		0.0175				3.4		15.0			
2,2-Dichloropropane	0.2064 0.2204	0.2440 0.2360	0.2485 0.2401	0.2142 0.2292	0.2173	Ave		0.2285				6.4		15.0			
cis-1,2-Dichloroethene	0.2879 0.2859	0.2819 0.2917	0.3075 0.2855	0.2787 0.2926	0.2785	Ave		0.2878			0.1000	3.1		15.0			
2-Butanone (MEK)	0.0918 0.0872	0.1081 0.0806	0.0842 0.0808	0.0855 0.0819	0.0885	Ave		0.0876			0.0500	9.7		15.0			
Chlorobromomethane	0.1123 0.1173	0.1227 0.1198	0.1332 0.1179	0.1216 0.1180	0.1126	Ave		0.1195				5.2		15.0			
Tetrahydrofuran	+++++ 0.0620	+++++ 0.0613	0.0630 0.0588	0.0629 0.0604	0.0619	Ave		0.0615				2.4		15.0			
Chloroform	0.4959 0.5034	0.4885 0.5252	0.5454 0.5241	0.5153 0.5415	0.4989	Ave		0.5154				3.9		15.0			
1,1,1-Trichloroethane	0.3629 0.4175	0.3580 0.4456	0.4152 0.4526	0.4076 0.4557	0.3956	Ave		0.4123			0.1000	8.7		15.0			
Cyclohexane	0.4112 0.5037	0.4908 0.5265	0.5650 0.5162	0.5234 0.5173	0.5071	Ave		0.5068			0.1000	8.1		15.0			

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 | Calibration End Date: 04/13/2015 17:39 | Calibration ID: 27832

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2821 0.3931	0.3241 0.4215	0.3879 0.4342	0.3682 0.4416	0.3739	Ave		0.3807			0.1000	13.6		15.0			
1,1-Dichloropropene	0.3614 0.3940	0.3522 0.4028	0.4341 0.4029	0.3890 0.4028	0.3745	Ave		0.3904				6.4		15.0			
Benzene	1.2278 1.0457	1.0516 1.0925	1.1415 1.1030	1.0970 1.1246	1.0233	Ave		1.1008			0.5000	5.6		15.0			
Isobutyl alcohol	0.0085 0.0071	0.0072 0.0068	0.0078 0.0066	0.0072 0.0067	0.0078	Ave		0.0073				8.3		15.0			
1,2-Dichloroethane	0.3770 0.3493	0.3395 0.3536	0.3815 0.3522	0.3499 0.3697	0.3472	Ave		0.3578			0.1000	4.1		15.0			
n-Heptane	0.0420 0.0662	0.0553 0.0662	0.0685 0.0717	0.0606 0.0685	0.0638	Ave		0.0625				14.6		15.0			
Trichloroethene	0.2603 0.2608	0.2487 0.2742	0.2974 0.2743	0.2686 0.2809	0.2538	Ave		0.2688			0.2000	5.6		15.0			
Methylcyclohexane	0.4004 0.5159	0.4346 0.5337	0.5747 0.5367	0.5312 0.5373	0.4925	Ave		0.5063			0.1000	10.9		15.0			
1,2-Dichloropropane	0.2294 0.2557	0.2594 0.2505	0.2574 0.2586	0.2469 0.2611	0.2366	Ave		0.2506			0.1000	4.4		15.0			
Dibromomethane	0.1176 0.1266	0.1445 0.1282	0.1449 0.1284	0.1220 0.1296	0.1262	Ave		0.1298				7.1		15.0			
1,4-Dioxane	0.0020 0.0020	0.0019 0.0020	0.0020 0.0017	0.0018 0.0018	0.0019	Ave		0.0019				5.5		15.0			
Dichlorobromomethane	0.2896 0.3386	0.2729 0.3489	0.2895 0.3655	0.3044 0.3780	0.3042	Ave		0.3213			0.1000	11.6		15.0			
2-Chloroethyl vinyl ether	0.0879 0.1076	0.0964 0.1070	0.0816 0.1169	0.0856 0.1156	0.0924	Ave		0.0990				13.3		15.0			
cis-1,3-Dichloropropene	0.3118 0.3647	0.2855 0.3738	0.3151 0.3935	0.3050 0.4075	0.3326	Ave		0.3433			0.1500	12.5		15.0			
4-Methyl-2-pentanone (MIBK)	0.2659 0.2940	0.3541 0.2893	0.3283 0.2722	0.2999 0.2710	0.3029	Ave		0.2975			0.0500	9.7		15.0			
Toluene	1.9275 1.6592	1.6127 1.6961	1.9844 1.6879	1.7478 1.6960	1.6552	Ave		1.7408			0.4000	7.4		15.0			
trans-1,3-Dichloropropene	0.3887 0.4637	0.3779 0.4682	0.3952 0.4825	0.4151 0.4812	0.4205	Ave		0.4325			0.1000	9.6		15.0			
Ethyl methacrylate	0.2626 0.3027	0.2594 0.2959	0.2572 0.3054	0.2648 0.3014	0.2637	Ave		0.2792				7.6		15.0			
1,1,2-Trichloroethane	0.2698 0.2542	0.2605 0.2570	0.2957 0.2529	0.2623 0.2449	0.2582	Ave		0.2617			0.1000	5.5		15.0			
Tetrachloroethene	0.3049 0.3065	0.2699 0.3146	0.3636 0.3125	0.3419 0.3137	0.2975	Ave		0.3139			0.2000	8.4		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3-Dichloropropane	0.5041 0.4848	0.4778 0.4718	0.5458 0.4670	0.4750 0.4679	0.4626	Ave		0.4841				5.4		15.0			
2-Hexanone	0.2218 0.1688	0.2111 0.1599	0.1633 0.1602	0.1679 0.1591	0.1745	Ave		0.1763			0.0500	13.3		15.0			
Chlorodibromomethane	0.2310 0.3075	0.2383 0.3217	0.2535 0.3309	0.2520 0.3299	0.2767	Ave		0.2824				14.4		15.0			
Ethylene Dibromide	0.2852 0.2482	0.2684 0.2457	0.2842 0.2451	0.2546 0.2407	0.2437	Ave		0.2573				6.8		15.0			
Chlorobenzene	0.9900 0.9653	0.9673 0.9840	1.1009 1.0128	0.9708 1.0115	0.9253	Ave		0.9920			0.3000	4.9		15.0			
1,1,1,2-Tetrachloroethane	0.3331 0.3847	0.3426 0.4071	0.4210 0.3894	0.4022 0.3941	0.3937	Ave		0.3853				7.5		15.0			
Ethylbenzene	0.6073 0.5599	0.4979 0.5591	0.6706 0.5835	0.5456 0.5757	0.5299	Ave		0.5699				8.6		15.0			
m-Xylene & p-Xylene	0.6669 0.6565	0.5689 0.6842	0.7004 0.6941	0.6584 0.6909	0.6319	Ave		0.6614				6.2		15.0			
o-Xylene	0.7501 0.6968	0.6185 0.7159	0.7508 0.7181	0.7207 0.7103	0.6981	Ave		0.7088				5.5		15.0			
Styrene	0.9405 0.9251	0.8667 0.9551	0.8928 1.0111	0.8274 1.0086	0.8400	Ave		0.9186			0.3000	7.3		15.0			
Bromoform	0.1382 0.1568	0.0957 0.1704	0.1201 0.1794	0.1321 0.1782	0.1359	Lin1	-0.141	0.1748			0.1000				0.9960		0.9900
Isopropylbenzene	1.9783 2.0054	1.6805 2.1133	2.1978 2.0969	2.0312 2.1046	1.9472	Ave		2.0172			0.1000	7.4		15.0			
1,1,2,2-Tetrachloroethane	0.7738 0.6546	0.6841 0.6539	0.6341 0.6256	0.6586 0.6376	0.6665	Ave		0.6654			0.3000	6.7		15.0			
Bromobenzene	0.8494 0.7390	0.7093 0.7460	0.7784 0.7478	0.7100 0.7814	0.6857	Ave		0.7497				6.5		15.0			
1,2,3-Trichloropropane	0.2510 0.1946	0.2232 0.1928	0.2083 0.1893	0.2033 0.1889	0.1940	Ave		0.2050				10.0		15.0			
trans-1,4-Dichloro-2-butene	0.1316 0.1924	0.1828 0.1930	0.1595 0.1974	0.1791 0.2008	0.1848	Ave		0.1802				12.2		15.0			
N-Propylbenzene	0.9093 0.9557	0.8005 1.0085	1.0008 0.9974	0.9517 1.0274	0.9587	Ave		0.9567				7.2		15.0			
2-Chlorotoluene	0.6812 0.8217	0.7287 0.8433	0.9350 0.8325	0.7977 0.8451	0.8016	Ave		0.8096				9.0		15.0			
1,3,5-Trimethylbenzene	2.9639 3.3349	2.7660 3.4361	3.2346 3.3902	3.2647 3.4573	3.2415	Ave		3.2321				7.1		15.0			
4-Chlorotoluene	0.6927 0.7791	0.7143 0.7954	0.8068 0.8084	0.7879 0.8471	0.7534	Ave		0.7761				6.3		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
tert-Butylbenzene	2.2222 3.1303	2.3586 3.2165	3.0107 3.0841	3.0930 3.1434	3.0163	Ave		2.9195				12.5		15.0			
1,2,4-Trimethylbenzene	2.7144 3.2433	2.6397 3.4149	3.3942 3.3669	3.2052 3.4971	3.1905	Ave		3.1851				9.6		15.0			
sec-Butylbenzene	3.4884 4.4520	3.2667 4.6660	4.4115 4.4959	4.3434 4.6352	4.2929	Ave		4.2280				11.8		15.0			
1,3-Dichlorobenzene	1.5934 1.4829	1.5791 1.5513	1.6569 1.5637	1.4378 1.6205	1.4277	Ave		1.5459			0.6000	5.2		15.0			
4-Isopropyltoluene	2.9742 3.5730	2.8666 3.8051	3.5247 3.6911	3.4785 3.9043	3.4878	Ave		3.4783				10.0		15.0			
1,4-Dichlorobenzene	1.8230 1.4432	1.5364 1.4954	1.6182 1.5146	1.5054 1.5613	1.4566	Ave		1.5505			0.5000	7.4		15.0			
n-Butylbenzene	2.8656 3.3375	2.8800 3.5847	3.4960 3.5480	3.2883 3.6495	3.3226	Ave		3.3302				8.6		15.0			
1,2-Dichlorobenzene	1.5593 1.4246	1.5430 1.4664	1.5895 1.4267	1.4426 1.4754	1.4484	Ave		1.4862			0.4000	4.1		15.0			
1,2-Dibromo-3-Chloropropane	0.1120 0.1147	0.1052 0.1197	0.1076 0.1154	0.1073 0.1200	0.1148	Ave		0.1130			0.0500	4.7		15.0			
1,2,4-Trichlorobenzene	1.4683 1.0321	1.0960 1.0750	1.2365 1.0277	1.1359 1.0835	1.1116	Ave		1.1407			0.2000	12.1		15.0			
Hexachlorobutadiene	0.7581 0.6710	0.7333 0.6763	0.7535 0.6105	0.7293 0.6350	0.7205	Ave		0.6986				7.6		15.0			
Naphthalene	2.1641 2.1568	2.6156 2.2803	2.3757 2.0677	2.4290 2.1532	2.3819	Ave		2.2916				7.6		15.0			
1,2,3-Trichlorobenzene	1.2136 0.9503	1.1459 0.9568	1.1469 0.8728	1.0812 0.9244	1.0373	Ave		1.0366				11.3		15.0			
Dibromofluoromethane (Surr)	0.6859 0.2447	0.4194 0.2538	0.3466 0.2518	0.2859 0.2621	0.2663	Lin1	0.3915	0.2530							0.9990		0.9900
1,2-Dichloroethane-d4 (Surr)	0.9356 0.2882	0.6859 0.2959	0.4790 0.2979	0.3561 0.3130	0.3260	Lin1	0.6834	0.2985							0.9980		0.9900
Toluene-d8 (Surr)	5.4959 1.4396	3.3154 1.4783	2.4731 1.4344	1.8046 1.4281	1.6178	Lin1	4.1127	1.4132							1.0000		0.9900
4-Bromofluorobenzene (Surr)	3.5756 0.9683	2.2821 0.9585	1.5652 0.9466	1.0909 0.9847	1.0289	Lin1	2.5840	0.9466							0.9990		0.9900

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 240-176233/11	142383.D
Level 2	IC 240-176233/10	142382.D
Level 3	IC 240-176233/9	142381.D
Level 4	IC 240-176233/8	142380.D
Level 5	IC 240-176233/7	142379.D
Level 6	ICIS 240-176233/6	142378.D
Level 7	IC 240-176233/5	142377.D
Level 8	IC 240-176233/4	142376.D
Level 9	IC 240-176233/3	142375.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 457072	+++++ 867640	50741 1744614	92504 2079977	177199	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0
Chloromethane	FB	Ave	9208 462717	17126 916293	53585 1763559	96855 1963025	191317	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Vinyl chloride	FB	Ave	8300 484631	14887 962801	53538 1815047	96204 2032667	203950	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Butadiene	FB	Ave	5677 485186	14370 935425	52716 1820468	94160 2032701	189400	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Bromomethane	FB	Ave	7603 357895	14994 682039	39874 1324452	68831 1506940	147460	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Chloroethane	FB	Lin1	6019 219241	10709 418909	26656 941714	45412 1100055	84998	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Dichlorofluoromethane	FB	Ave	13227 701824	27631 1390837	78179 2833473	150827 3154968	282168	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Trichlorofluoromethane	FB	Ave	8901 710832	22094 1430805	74135 2841501	132513 3299047	282780	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Ethyl ether	FB	Ave	4559 302728	11582 554492	29922 1068515	56479 1239439	126224	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Acrolein	FB	Ave	3191 159580	7628 303795	16437 561381	29969 648795	68324	5.00 250	10.0 500	25.0 1000	50.0 1250	100
1,1-Dichloroethene	FB	Ave	5958 343454	13229 677150	33604 1311508	67852 1499840	133038	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	4391 277007	7799 533042	27908 1047610	55056 1185287	112842	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Acetone	FB	Lin1	15152 193996	23051 338395	29020 624349	49896 723557	92206	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Iodomethane	FB	Ave	+++++ 448033	+++++ 887933	43527 1747190	94414 1979415	177433	+++++ 50.0	+++++ 100	5.00 200	10.0 250	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Carbon disulfide	FB	Lin1	11612 897605	23128 1861727	73508 3771974	152748 4231960	314133	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
3-Chloro-1-propene	FB	Ave	3109 218811	7360 457283	20829 889683	40910 996018	86558	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Methyl acetate	FB	Ave	24863 1249988	51386 2262763	119335 4299977	241583 4980747	495871	5.00 250	10.0 500	25.0 1000	50.0 1250	100
Methylene Chloride	FB	Lin1	26058 384215	36316 724120	52367 1388046	86599 1582190	163840	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Methyl-2-propanol	FB	Ave	7086 370274	17950 696007	36553 1249910	73346 1481309	152745	10.0 500	20.0 1000	50.0 2000	100 2500	200
trans-1,2-Dichloroethene	FB	Ave	6913 403974	14368 783065	40090 1516543	81471 1743110	156512	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Methyl tert-butyl ether	FB	Ave	17680 1180484	46542 2231635	109518 4246319	217733 5060146	451555	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Acrylonitrile	FB	Ave	18220 1091995	45147 1976071	109143 3752860	222251 4289028	452518	10.0 500	20.0 1000	50.0 2000	100 2500	200
Hexane	FB	Ave	2195 99416	4228 185441	10845 377502	19822 407104	37389	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1-Dichloroethane	FB	Ave	15334 830332	27094 1585743	80045 3123271	166340 3641629	323268	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Vinyl acetate	FB	Ave	+++++ 26064	+++++ 47281	2474 96542	5037 110170	9880	+++++ 48.0	+++++ 96.0	4.80 192	9.60 240	19.2
2,2-Dichloropropane	FB	Ave	5343 344466	13734 684127	34334 1369322	63852 1481297	133099	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
cis-1,2-Dichloroethene	FB	Ave	7452 446882	15865 845592	42485 1628306	83095 1891012	170545	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Butanone (MEK)	FB	Ave	4751 272637	12168 467221	23267 921208	50950 1058993	108467	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Chlorobromomethane	FB	Ave	2908 183366	6908 347277	18399 672429	36254 762543	68991	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Tetrahydrofuran	FB	Ave	+++++ 193974	+++++ 355251	17412 670738	37502 780097	75764	+++++ 100	+++++ 200	10.0 400	20.0 500	40.0
Chloroform	FB	Ave	12837 786940	27492 1522519	75352 2989112	153605 3499012	305573	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,1-Trichloroethane	FB	Ave	9393 652549	20146 1291925	57375 2580975	121515 2945177	242273	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Cyclohexane	FB	Ave	10645 787344	27623 1526337	78065 2943551	156030 3342886	310564	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Carbon tetrachloride	FB	Ave	7303 614529	18239 1221970	53593 2476409	109773 2853662	228993	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1-Dichloropropene	FB	Ave	9355 615836	19824 1167703	59973 2297767	115979 2603286	229350	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzene	FB	Ave	31782 1634609	59183 3167216	157728 6290034	327023 7267794	626745	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Isobutyl alcohol	FB	Ave	5490 278842	10190 494996	26860 938146	53826 1088044	119110	25.0 1250	50.0 2500	125 5000	250 6250	500
1,2-Dichloroethane	FB	Ave	9758 546042	19108 1025241	52718 2008581	104317 2389115	212661	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
n-Heptane	FB	Ave	1086 103552	3113 192055	9461 408991	18069 442487	39100	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Trichloroethene	FB	Ave	6737 407714	13998 794807	41091 1564266	80070 1815366	155451	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Methylcyclohexane	FB	Ave	10364 806377	24458 1547331	79404 3060633	158363 3472137	301634	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichloropropane	FB	Ave	5937 399654	14600 726327	35567 1474943	73589 1687556	144880	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Dibromomethane	FB	Ave	3044 197921	8135 371554	20026 732381	36357 837583	77265	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,4-Dioxane	FB	Ave	1020 62788	2083 113715	5516 197867	10679 230264	23755	20.0 1000	40.0 2000	100 4000	200 5000	400
Dichlorobromomethane	FB	Ave	7497 529306	15359 1011543	40005 2084288	90757 2442893	186337	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Chloroethyl vinyl ether	FB	Ave	4553 336468	10852 620488	22551 1332988	51042 1494542	113146	2.00 100	4.00 200	10.0 400	20.0 500	40.0
cis-1,3-Dichloropropene	FB	Ave	8072 570017	16069 1083564	43542 2244017	90917 2633127	203722	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	7696 569478	22670 1053645	50010 2077878	101191 2411328	221448	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Toluene	CBZ	Ave	27889 1606889	51626 3088346	151159 6442117	294873 7545183	605006	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
trans-1,3-Dichloropropene	CBZ	Ave	5624 449058	12097 852540	30102 1841479	70034 2140765	153697	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Ethyl methacrylate	CBZ	Ave	3800 293163	8303 538732	19595 1165665	44668 1340948	96399	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,2-Trichloroethane	CBZ	Ave	3904 246168	8339 468016	22526 965253	44249 1089609	94385	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Tetrachloroethene	CBZ	Ave	4411 296860	8639 572835	27698 1192584	57678 1395788	108741	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,3-Dichloropropane	CBZ	Ave	7294 469521	15296 859074	41579 1782240	80131 2081454	169075	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Hexanone	CBZ	Ave	6418 326888	13513 582154	24881 1222773	56659 1415719	127574	2.00 100	4.00 200	10.0 400	20.0 500	40.0
Chlorodibromomethane	CBZ	Ave	3343 297773	7628 585799	19314 1263022	42516 1467885	101147	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Ethylene Dibromide	CBZ	Ave	4127 240352	8591 447439	21652 935622	42951 1070667	89096	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Chlorobenzene	CBZ	Ave	14324 934897	30965 1791634	83863 3865377	163776 4499906	338223	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	4819 372612	10966 741300	32071 1486184	67858 1753310	143891	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Ethylbenzene	CBZ	Ave	8787 542260	15940 1018045	51082 2226828	92043 2561287	193684	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
m-Xylene & p-Xylene	CBZ	Ave	9650 635821	18211 1245882	53355 2649033	111070 3073714	230963	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
o-Xylene	CBZ	Ave	10853 674856	19800 1303463	57193 2740743	121591 3159873	255173	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Styrene	CBZ	Ave	13609 895921	27745 1739003	68011 3858832	139589 4487389	307027	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Bromoform	CBZ	Lin1	1999 151824	3065 310309	9148 684821	22288 792591	49661	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Isopropylbenzene	CBZ	Ave	28624 1942109	53797 3847910	167419 8002849	342682 9363235	711761	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	6148 315778	11768 606257	26403 1218604	58707 1409890	122501	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Bromobenzene	DCB	Ave	6749 356469	12201 691694	32408 1456533	63288 1727779	126037	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2,3-Trichloropropane	DCB	Ave	1994 93864	3839 178772	8672 368791	18121 417682	35663	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	1046 92820	3145 178933	6640 384394	15965 444023	33972	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
N-Propylbenzene	DCB	Ave	7225 461013	13770 935099	41667 1942696	84827 2271802	176214	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
2-Chlorotoluene	DCB	Ave	5413 396380	12534 781902	38931 1621562	71101 1868609	147338	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,3,5-Trimethylbenzene	DCB	Ave	23550 1608722	47578 3185948	134673 6603182	291003 7644733	595811	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
4-Chlorotoluene	DCB	Ave	5504 375812	12287 737522	33593 1574544	70232 1873139	138477	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
tert-Butylbenzene	DCB	Ave	17657 1510028	40570 2982351	125353 6006996	275698 6950633	554434	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2,4-Trimethylbenzene	DCB	Ave	21568 1564525	45405 3166287	141317 6557900	285694 7732772	586453	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
sec-Butylbenzene	DCB	Ave	27718 2147606	56190 4326268	183676 8756903	387150 10249214	789075	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,3-Dichlorobenzene	DCB	Ave	12661 715319	27163 1438319	68987 3045675	128163 3583220	262430	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 176233

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/13/2015 14:47 Calibration End Date: 04/13/2015 17:39 Calibration ID: 27832

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4-Isopropyltoluene	DCB	Ave	23632 1723589	49308 3528038	146751 7189317	310056 8633002	641089	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,4-Dichlorobenzene	DCB	Ave	14485 696189	26428 1386574	67374 2950027	134188 3452220	267730	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
n-Butylbenzene	DCB	Ave	22769 1609987	49539 3323764	145558 6910542	293103 8069664	610718	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichlorobenzene	DCB	Ave	12390 687234	26542 1359660	66181 2778843	128584 3262421	266239	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	890 55324	1809 110998	4479 224704	9562 265252	21105	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2,4-Trichlorobenzene	DCB	Ave	11667 497881	18853 996774	51480 2001672	101251 2395883	204327	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Hexachlorobutadiene	DCB	Ave	6024 323688	12614 627033	31371 1189040	65010 1404067	132443	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Naphthalene	DCB	Ave	17195 1040438	44992 2114240	98914 4027278	216513 4761107	437825	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2,3-Trichlorobenzene	DCB	Ave	9643 458419	19711 887187	47752 1700031	96369 2044057	190657	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Dibromofluoromethane (Surr)	FB	Lin1	17755 382452	23606 735669	47891 1435788	85223 1693723	163082	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin1	24219 450544	38601 857945	66180 1698703	106146 2022506	199681	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
Toluene-d8 (Surr)	CBZ	Lin1	79521 1394204	106134 2691727	188391 5474427	304451 6353490	591341	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0
4-Bromofluorobenzene (Surr)	DCB	Lin1	28411 467117	39254 888754	65166 1843691	97242 2177293	189114	1.00 50.0	2.00 100	5.00 200	10.0 250	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142375.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 13-Apr-2015 14:47:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-003240-0042511-003
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:36 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 13-Apr-2015 15:47:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.664	6.652	0.012	99	1292458	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	889785	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	95	442235	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.978	0.012	92	1693723	250.0	257.5	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	95	2022506	250.0	259.8	
$ 8 Toluene-d8 (Surr)	98	8.131	8.132	-0.001	94	6353490	250.0	249.7	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	2177293	250.0	257.3	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	2079977	250.0	257.6	
12 Chloromethane	50	1.481	1.481	0.000	99	1963025	250.0	234.9	
13 Vinyl chloride	62	1.600	1.600	0.000	98	2032667	250.0	243.8	
14 Butadiene	54	1.623	1.623	0.000	94	2032701	250.0	257.5	
15 Bromomethane	94	1.907	1.907	0.000	89	1506940	250.0	233.2	
17 Chloroethane	64	2.002	2.002	0.000	99	1100055	250.0	264.5	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	3154968	250.0	246.9	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	97	3299047	250.0	277.7	
20 Ethyl ether	59	2.641	2.641	0.000	93	1239439	250.0	245.5	
21 Acrolein	56	2.818	2.818	0.000	99	648795	1250.0	1134.5	
23 1,1-Dichloroethene	96	2.901	2.889	0.012	93	1499840	250.0	252.4	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	94	1185287	250.0	256.8	
26 Acetone	43	3.031	3.031	0.000	98	723557	500.0	499.5	
27 Iodomethane	142	3.091	3.091	0.000	97	1979415	250.0	252.0	
28 Carbon disulfide	76	3.150	3.150	0.000	100	4231960	250.0	254.0	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	91	996018	250.0	269.2	
31 Methyl acetate	43	3.481	3.481	0.000	99	4980747	1250.0	1162.0	
32 Methylene Chloride	84	3.599	3.599	0.000	97	1582190	250.0	252.4	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	98	1481309	2500.0	2264.0	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	95	1743110	250.0	252.3	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	94	5060146	250.0	258.2	
36 Acrylonitrile	53	4.049	4.037	0.012	99	4289028	2500.0	2303.7	
37 Hexane	86	4.404	4.404	0.000	95	407104	250.0	227.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	96	3641629	250.0	257.3	
41 Vinyl acetate	86	4.783	4.783	0.000	97	110170	240.0	242.9	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	87	1481297	250.0	250.8	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	1891012	250.0	254.2	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	1058993	500.0	467.6	
48 Chlorobromomethane	128	5.694	5.694	0.000	97	762543	250.0	246.9	
50 Tetrahydrofuran	42	5.741	5.741	0.000	90	780097	500.0	491.0	
51 Chloroform	83	5.800	5.800	0.000	93	3499012	250.0	262.7	
52 1,1,1-Trichloroethane	97	5.966	5.954	0.012	97	2945177	250.0	276.3	
53 Cyclohexane	56	5.990	5.990	0.000	93	3342886	250.0	255.2	
54 Carbon tetrachloride	117	6.132	6.120	0.012	97	2853662	250.0	290.0	
55 1,1-Dichloropropene	75	6.143	6.132	0.011	95	2603286	250.0	258.0	
56 Benzene	78	6.356	6.356	0.000	97	7267794	250.0	255.4	
57 Isobutyl alcohol	41	6.392	6.392	0.000	94	1088044	6250.0	5758.7	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	2389115	250.0	258.3	
60 n-Heptane	100	6.640	6.640	0.000	95	442487	250.0	273.7	
61 Trichloroethene	130	7.007	7.007	0.000	98	1815366	250.0	261.3	
64 Methylcyclohexane	83	7.161	7.161	0.000	91	3472137	250.0	265.3	
65 1,2-Dichloropropane	63	7.244	7.232	0.012	93	1687556	250.0	260.5	
67 Dibromomethane	93	7.350	7.350	0.000	94	837583	250.0	249.7	
69 1,4-Dioxane	88	7.374	7.386	-0.012	99	230264	5000.0	4706.8	
70 Dichlorobromomethane	83	7.504	7.504	0.000	100	2442893	250.0	294.1	
72 2-Chloroethyl vinyl ether	63	7.800	7.788	0.012	92	1494542	500.0	584.0	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	95	2633127	250.0	296.7	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	2411328	500.0	455.4	
76 Toluene	91	8.191	8.191	0.001	97	7545183	250.0	243.6	
77 trans-1,3-Dichloropropene	75	8.415	8.403	0.012	93	2140765	250.0	278.1	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	1340948	250.0	269.8	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	93	1089609	250.0	233.9	
80 Tetrachloroethene	164	8.664	8.664	0.000	96	1395788	250.0	249.9	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	2081454	250.0	241.6	
82 2-Hexanone	43	8.782	8.782	0.000	99	1415719	500.0	451.3	
84 Chlorodibromomethane	129	8.901	8.900	0.001	90	1467885	250.0	292.1	
85 Ethylene Dibromide	107	8.995	8.995	0.000	98	1070667	250.0	233.8	
87 Chlorobenzene	112	9.409	9.409	0.000	92	4499906	250.0	254.9	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	93	1753310	250.0	255.7	
89 Ethylbenzene	106	9.504	9.492	0.012	99	2561287	250.0	252.5	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	3073714	250.0	261.2	
91 o-Xylene	106	9.930	9.930	0.000	98	3159873	250.0	250.5	
92 Styrene	104	9.954	9.954	0.000	95	4487389	250.0	274.5	
93 Bromoform	173	10.119	10.119	0.000	96	792591	250.0	255.6	
94 Isopropylbenzene	105	10.238	10.238	0.000	96	9363235	250.0	260.8	
97 Bromobenzene	156	10.510	10.510	0.000	96	1727779	250.0	260.6	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	94	1409890	250.0	239.6	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	81	417682	250.0	230.3	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	84	444023	250.0	278.7	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	2271802	250.0	268.5	
101 2-Chlorotoluene	126	10.675	10.664	0.011	96	1868609	250.0	260.9	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	92	7644733	250.0	267.4	
103 4-Chlorotoluene	126	10.758	10.758	0.000	98	1873139	250.0	272.9	
105 tert-Butylbenzene	119	11.019	11.007	0.012	92	6950633	250.0	269.2	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	94	7732772	250.0	274.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	94	10249214	250.0	274.1	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	3583220	250.0	262.1	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	97	8633002	250.0	280.6	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	92	3452220	250.0	251.7	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	8069664	250.0	274.0	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	97	3262421	250.0	248.2	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	82	265252	250.0	265.5	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	94	2395883	250.0	237.5	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	98	1404067	250.0	227.2	
121 Naphthalene	128	13.231	13.231	0.000	97	4761107	250.0	234.9	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	95	2044057	250.0	222.9	
S 134 1,2-Dichloroethene, Total	96				0		500.0	506.5	
S 135 1,3-Dichloropropene, Total	75				0		500.0	574.9	
S 136 Xylenes, Total	106				0		500.0	511.7	
S 137 Trihalomethanes, Total	1				0		1000.0	1104.4	

Reagents:

VMRGAS_00097	Amount Added:	25.00	Units: uL
VMAROLISTDW_00095	Amount Added:	25.00	Units: uL
vm50ss_00197	Amount Added:	25.00	Units: uL
VMRPRIMW_00121	Amount Added:	25.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

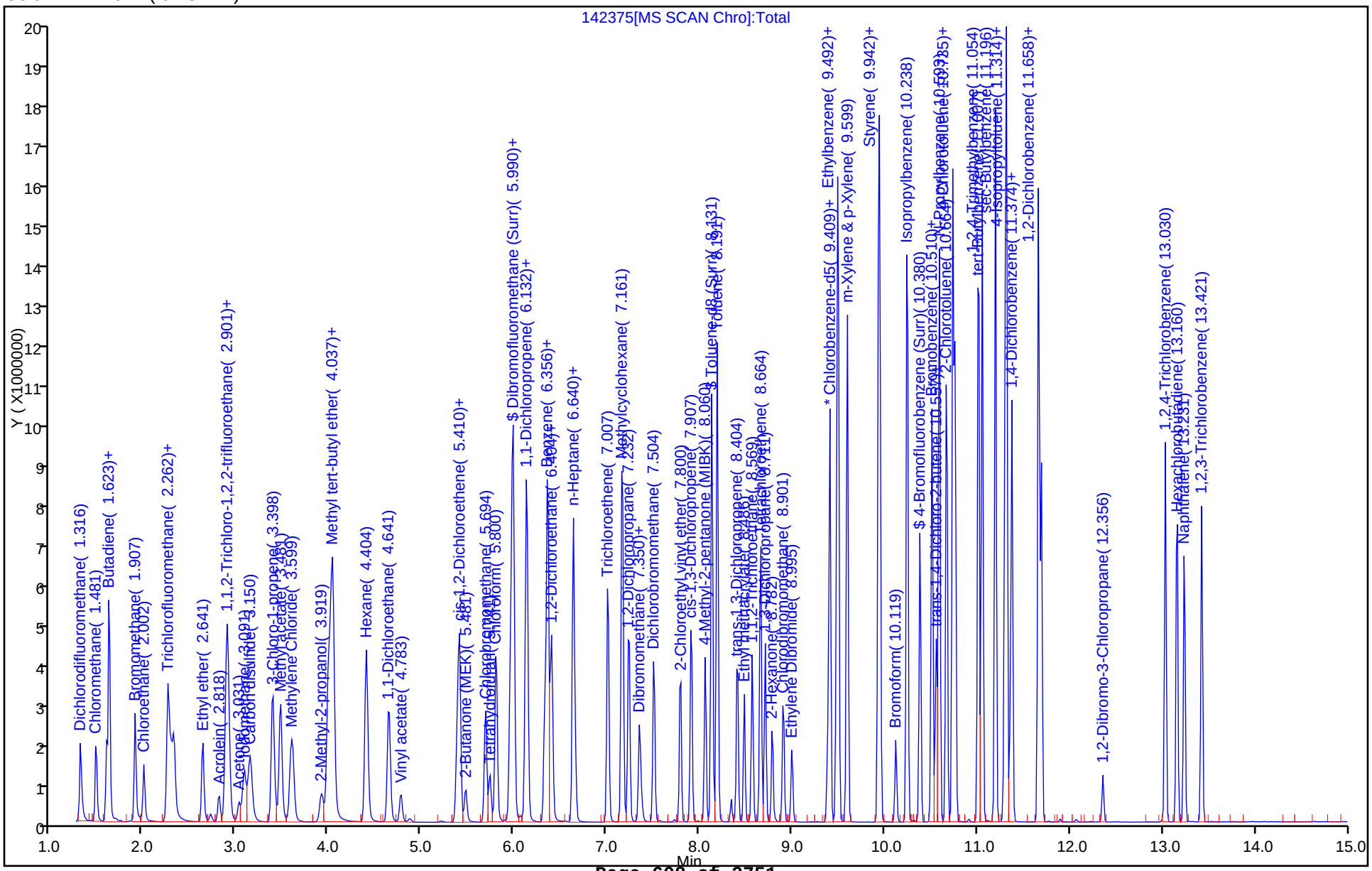
Report Date: 15-Apr-2015 13:05:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142375.D

Injection Date:	13-Apr-2015 14:47:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142376.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 13-Apr-2015 15:08:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-004240-0042511-004
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:37 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 13-Apr-2015 15:51:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1425713	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	97	954141	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	98	486938	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.978	0.012	92	1435788	200.0	197.5	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	95	1698703	200.0	197.3	
$ 8 Toluene-d8 (Surr)	98	8.131	8.132	-0.001	94	5474427	200.0	200.1	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	1843691	200.0	197.3	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	1744614	200.0	195.9	
12 Chloromethane	50	1.481	1.481	0.000	99	1763559	200.0	191.3	
13 Vinyl chloride	62	1.600	1.600	0.000	98	1815047	200.0	197.3	
14 Butadiene	54	1.623	1.623	0.000	94	1820468	200.0	209.1	
15 Bromomethane	94	1.907	1.907	0.000	89	1324452	200.0	185.8	
17 Chloroethane	64	2.002	2.002	0.000	99	941714	200.0	205.2	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	2833473	200.0	201.1	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	97	2841501	200.0	216.8	
20 Ethyl ether	59	2.641	2.641	0.000	92	1068515	200.0	191.8	
21 Acrolein	56	2.818	2.818	0.000	99	561381	1000.0	889.9	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	93	1311508	200.0	200.1	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	95	1047610	200.0	205.7	
26 Acetone	43	3.031	3.031	0.000	99	624349	400.0	388.6	
27 Iodomethane	142	3.091	3.091	0.000	98	1747190	200.0	201.7	
28 Carbon disulfide	76	3.150	3.150	0.000	99	3771974	200.0	205.4	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	91	889683	200.0	218.0	
31 Methyl acetate	43	3.481	3.481	0.000	99	4299977	1000.0	909.4	
32 Methylene Chloride	84	3.599	3.599	0.000	96	1388046	200.0	200.1	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	99	1249910	2000.0	1731.8	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	95	1516543	200.0	199.0	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	95	4246319	200.0	196.4	
36 Acrylonitrile	53	4.037	4.037	0.000	99	3752860	2000.0	1827.3	
37 Hexane	86	4.404	4.404	0.000	95	377502	200.0	191.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	96	3123271	200.0	200.0	
41 Vinyl acetate	86	4.783	4.783	0.000	97	96542	192.0	193.0	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	87	1369322	200.0	210.2	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	1628306	200.0	198.4	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	921208	400.0	368.7	
48 Chlorobromomethane	128	5.694	5.694	0.000	98	672429	200.0	197.3	
50 Tetrahydrofuran	42	5.741	5.741	0.000	89	670738	400.0	382.7	
51 Chloroform	83	5.800	5.800	0.000	93	2989112	200.0	203.4	
52 1,1,1-Trichloroethane	97	5.966	5.954	0.012	97	2580975	200.0	219.5	
53 Cyclohexane	56	5.990	5.990	0.000	93	2943551	200.0	203.7	
54 Carbon tetrachloride	117	6.132	6.120	0.012	97	2476409	200.0	228.1	
55 1,1-Dichloropropene	75	6.143	6.132	0.011	96	2297767	200.0	206.4	
56 Benzene	78	6.356	6.356	0.000	97	6290034	200.0	200.4	
57 Isobutyl alcohol	41	6.392	6.392	0.000	96	938146	5000.0	4501.3	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	2008581	200.0	196.9	
60 n-Heptane	100	6.640	6.640	0.000	95	408991	200.0	229.3	
61 Trichloroethene	130	7.007	7.007	0.000	98	1564266	200.0	204.1	
64 Methylcyclohexane	83	7.161	7.161	0.000	91	3060633	200.0	212.0	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	94	1474943	200.0	206.4	
67 Dibromomethane	93	7.350	7.350	0.000	95	732381	200.0	197.9	
69 1,4-Dioxane	88	7.386	7.386	0.000	97	197867	4000.0	3666.5	
70 Dichlorobromomethane	83	7.504	7.504	0.000	99	2084288	200.0	227.5	
72 2-Chloroethyl vinyl ether	63	7.800	7.788	0.012	92	1332988	400.0	472.2	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	95	2244017	200.0	229.3	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	2077878	400.0	366.0	
76 Toluene	91	8.191	8.191	0.001	97	6442117	200.0	193.9	
77 trans-1,3-Dichloropropene	75	8.415	8.403	0.012	93	1841479	200.0	223.1	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	1165665	200.0	218.8	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	92	965253	200.0	193.3	
80 Tetrachloroethene	164	8.664	8.664	0.000	95	1192584	200.0	199.1	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	1782240	200.0	192.9	
82 2-Hexanone	43	8.782	8.782	0.000	99	1222773	400.0	363.5	
84 Chlorodibromomethane	129	8.901	8.900	0.001	90	1263022	200.0	234.4	
85 Ethylene Dibromide	107	8.995	8.995	0.000	97	935622	200.0	190.5	
87 Chlorobenzene	112	9.409	9.409	0.000	93	3865377	200.0	204.2	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	94	1486184	200.0	202.1	
89 Ethylbenzene	106	9.504	9.492	0.012	99	2226828	200.0	204.7	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	2649033	200.0	209.9	
91 o-Xylene	106	9.930	9.930	0.000	98	2740743	200.0	202.6	
92 Styrene	104	9.954	9.954	0.000	94	3858832	200.0	220.1	
93 Bromoform	173	10.119	10.119	0.000	96	684821	200.0	206.1	
94 Isopropylbenzene	105	10.238	10.238	0.000	96	8002849	200.0	207.9	
97 Bromobenzene	156	10.510	10.510	0.000	96	1456533	200.0	199.5	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	94	1218604	200.0	188.0	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	85	368791	200.0	184.7	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	87	384394	200.0	219.1	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	1942696	200.0	208.5	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	1621562	200.0	205.7	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	92	6603182	200.0	209.8	
103 4-Chlorotoluene	126	10.758	10.758	0.000	98	1574544	200.0	208.3	
105 tert-Butylbenzene	119	11.019	11.007	0.012	93	6006996	200.0	211.3	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	94	6557900	200.0	211.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	94	8756903	200.0	212.7	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	3045675	200.0	202.3	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	97	7189317	200.0	212.2	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	93	2950027	200.0	195.4	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	6910542	200.0	213.1	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	97	2778843	200.0	192.0	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	82	224704	200.0	204.3	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	94	2001672	200.0	180.2	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	98	1189040	200.0	174.8	
121 Naphthalene	128	13.231	13.231	0.000	97	4027278	200.0	180.5	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	94	1700031	200.0	168.4	
S 134 1,2-Dichloroethene, Total	96				0		400.0	397.4	
S 135 1,3-Dichloropropene, Total	75				0		400.0	452.4	
S 136 Xylenes, Total	106				0		400.0	412.5	
S 137 Trihalomethanes, Total	1				0		800.0	871.3	

Reagents:

vm50ss_00197	Amount Added:	20.00	Units: uL
VMRGAS_00097	Amount Added:	20.00	Units: uL
VMAROLISTDW_00095	Amount Added:	20.00	Units: uL
VMRPRIMW_00121	Amount Added:	20.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

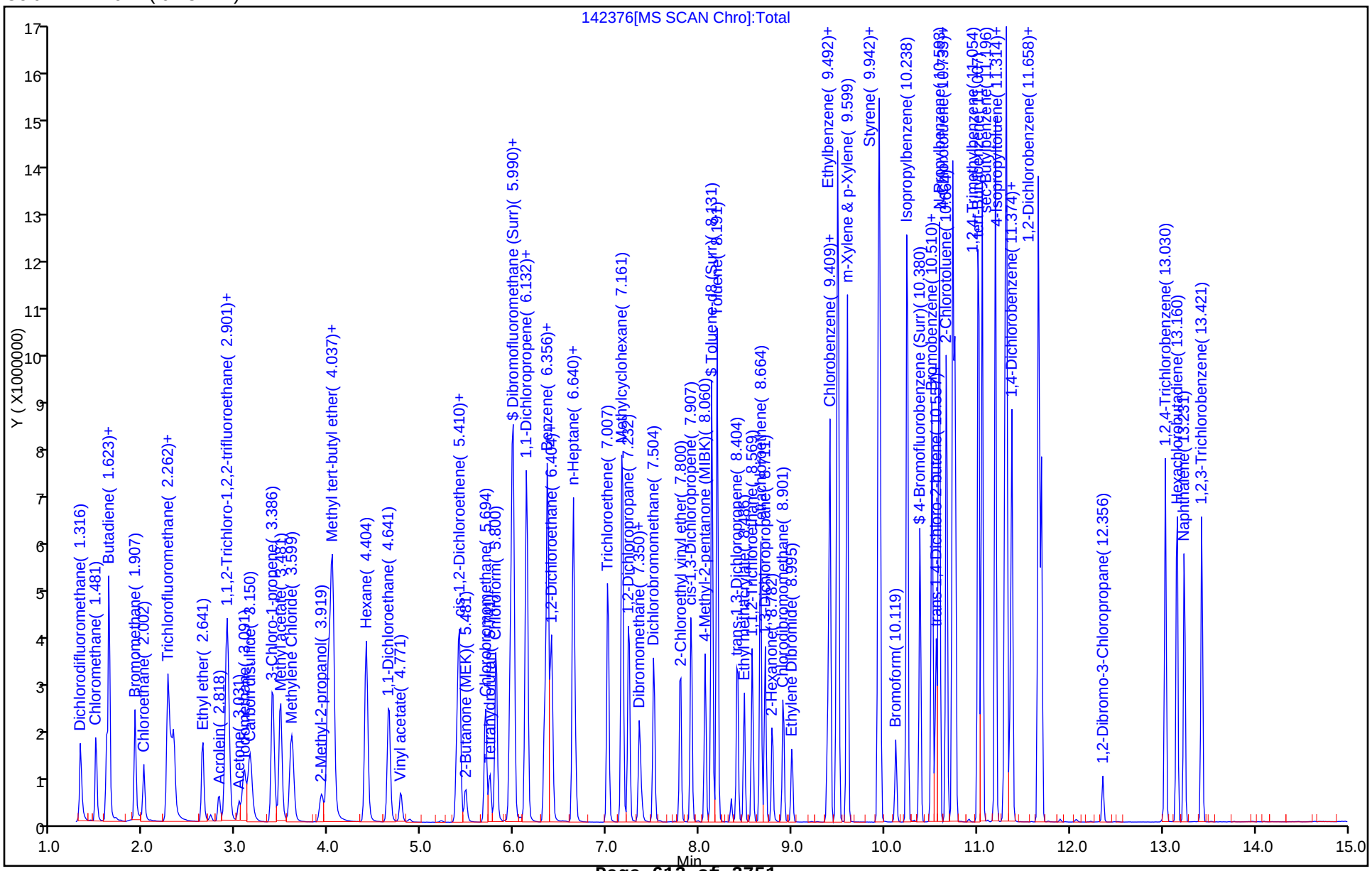
Report Date: 15-Apr-2015 13:05:38 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142376.D

Injection Date:	13-Apr-2015 15:08:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142377.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 13-Apr-2015 15:30:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-005240-0042511-005
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:39 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 13-Apr-2015 16:05:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.664	6.652	0.012	99	1449521	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	910407	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	98	463598	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.978	0.012	92	735669	100.0	98.8	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	95	857945	100.0	96.8	
$ 8 Toluene-d8 (Surr)	98	8.131	8.132	-0.001	94	2691727	100.0	101.7	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	888754	100.0	98.5	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	867640	100.0	95.8	
12 Chloromethane	50	1.481	1.481	0.000	99	916293	100.0	97.7	
13 Vinyl chloride	62	1.600	1.600	0.000	98	962801	100.0	103.0	
14 Butadiene	54	1.635	1.623	0.012	96	935425	100.0	105.7	
15 Bromomethane	94	1.907	1.907	0.000	88	682039	100.0	94.1	
17 Chloroethane	64	2.002	2.002	0.000	99	418909	100.0	89.6	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	1390837	100.0	97.1	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	99	1430805	100.0	107.4	
20 Ethyl ether	59	2.641	2.641	0.000	93	554492	100.0	97.9	
21 Acrolein	56	2.818	2.818	0.000	99	303795	500.0	473.7	
23 1,1-Dichloroethene	96	2.901	2.889	0.012	94	677150	100.0	101.6	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	94	533042	100.0	103.0	
26 Acetone	43	3.031	3.031	0.000	99	338395	200.0	202.7	
27 Iodomethane	142	3.091	3.091	0.000	98	887933	100.0	100.8	
28 Carbon disulfide	76	3.150	3.150	0.000	99	1861727	100.0	100.1	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	91	457283	100.0	110.2	
31 Methyl acetate	43	3.481	3.481	0.000	99	2262763	500.0	470.7	
32 Methylene Chloride	84	3.599	3.599	0.000	96	724120	100.0	101.1	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	98	696007	1000.0	948.5	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	95	783065	100.0	101.1	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	95	2231635	100.0	101.5	
36 Acrylonitrile	53	4.049	4.037	0.012	98	1976071	1000.0	946.4	
37 Hexane	86	4.404	4.404	0.000	95	185441	100.0	92.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	96	1585743	100.0	99.9	
41 Vinyl acetate	86	4.783	4.783	0.000	97	47281	96.0	93.0	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	87	684127	100.0	103.3	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	845592	100.0	101.3	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	467221	200.0	183.9	
48 Chlorobromomethane	128	5.694	5.694	0.000	98	347277	100.0	100.2	
50 Tetrahydrofuran	42	5.741	5.741	0.000	90	355251	200.0	199.4	
51 Chloroform	83	5.800	5.800	0.000	94	1522519	100.0	101.9	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	97	1291925	100.0	108.1	
53 Cyclohexane	56	5.990	5.990	0.000	94	1526337	100.0	103.9	
54 Carbon tetrachloride	117	6.132	6.120	0.012	97	1221970	100.0	110.7	
55 1,1-Dichloropropene	75	6.144	6.132	0.012	97	1167703	100.0	103.2	
56 Benzene	78	6.357	6.356	0.001	97	3167216	100.0	99.2	
57 Isobutyl alcohol	41	6.392	6.392	0.000	95	494996	2500.0	2336.0	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	1025241	100.0	98.8	
60 n-Heptane	100	6.641	6.640	0.000	95	192055	100.0	105.9	
61 Trichloroethene	130	7.007	7.007	0.000	98	794807	100.0	102.0	
64 Methylcyclohexane	83	7.161	7.161	0.000	91	1547331	100.0	105.4	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	94	726327	100.0	100.0	
67 Dibromomethane	93	7.350	7.350	0.000	95	371554	100.0	98.8	
69 1,4-Dioxane	88	7.386	7.386	0.000	98	113715	2000.0	2072.5	
70 Dichlorobromomethane	83	7.504	7.504	0.000	100	1011543	100.0	108.6	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	91	620488	200.0	216.2	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	95	1083564	100.0	108.9	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	1053645	200.0	194.5	
76 Toluene	91	8.191	8.191	0.001	97	3088346	100.0	97.4	
77 trans-1,3-Dichloropropene	75	8.404	8.403	0.001	93	852540	100.0	108.2	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	538732	100.0	106.0	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	92	468016	100.0	98.2	
80 Tetrachloroethene	164	8.664	8.664	0.000	95	572835	100.0	100.2	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	859074	100.0	97.5	
82 2-Hexanone	43	8.782	8.782	0.000	99	582154	200.0	181.4	
84 Chlorodibromomethane	129	8.901	8.900	0.001	92	585799	100.0	113.9	
85 Ethylene Dibromide	107	8.995	8.995	0.000	97	447439	100.0	95.5	
87 Chlorobenzene	112	9.409	9.409	0.000	93	1791634	100.0	99.2	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	93	741300	100.0	105.7	
89 Ethylbenzene	106	9.492	9.492	0.000	99	1018045	100.0	98.1	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	100	1245882	100.0	103.5	
91 o-Xylene	106	9.930	9.930	0.000	98	1303463	100.0	101.0	
92 Styrene	104	9.954	9.954	0.000	95	1739003	100.0	104.0	
93 Bromoform	173	10.119	10.119	0.000	96	310309	100.0	98.3	
94 Isopropylbenzene	105	10.238	10.238	0.000	96	3847910	100.0	104.8	
97 Bromobenzene	156	10.510	10.510	0.000	96	691694	100.0	99.5	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	93	606257	100.0	98.3	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	84	178772	100.0	94.0	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	80	178933	100.0	107.1	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	935099	100.0	105.4	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	781902	100.0	104.2	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	93	3185948	100.0	106.3	
103 4-Chlorotoluene	126	10.758	10.758	0.000	98	737522	100.0	102.5	
105 tert-Butylbenzene	119	11.007	11.007	0.000	93	2982351	100.0	110.2	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	94	3166287	100.0	107.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	94	4326268	100.0	110.4	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	1438319	100.0	100.3	
111 4-Isopropyltoluene	119	11.315	11.314	0.000	97	3528038	100.0	109.4	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	93	1386574	100.0	96.5	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	3323764	100.0	107.6	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	97	1359660	100.0	98.7	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	82	110998	100.0	106.0	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	94	996774	100.0	94.2	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	98	627033	100.0	96.8	
121 Naphthalene	128	13.231	13.231	0.000	98	2114240	100.0	99.5	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	94	887187	100.0	92.3	
S 134 1,2-Dichloroethene, Total	96				0		200.0	202.4	
S 135 1,3-Dichloropropene, Total	75				0		200.0	217.1	
S 136 Xylenes, Total	106				0		200.0	204.5	
S 137 Trihalomethanes, Total	1				0		400.0	422.7	

Reagents:

vm50ss_00197	Amount Added:	10.00	Units: uL
VMRGAS_00097	Amount Added:	10.00	Units: uL
VMAROLISTDW_00095	Amount Added:	10.00	Units: uL
VMRPRIMW_00121	Amount Added:	10.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

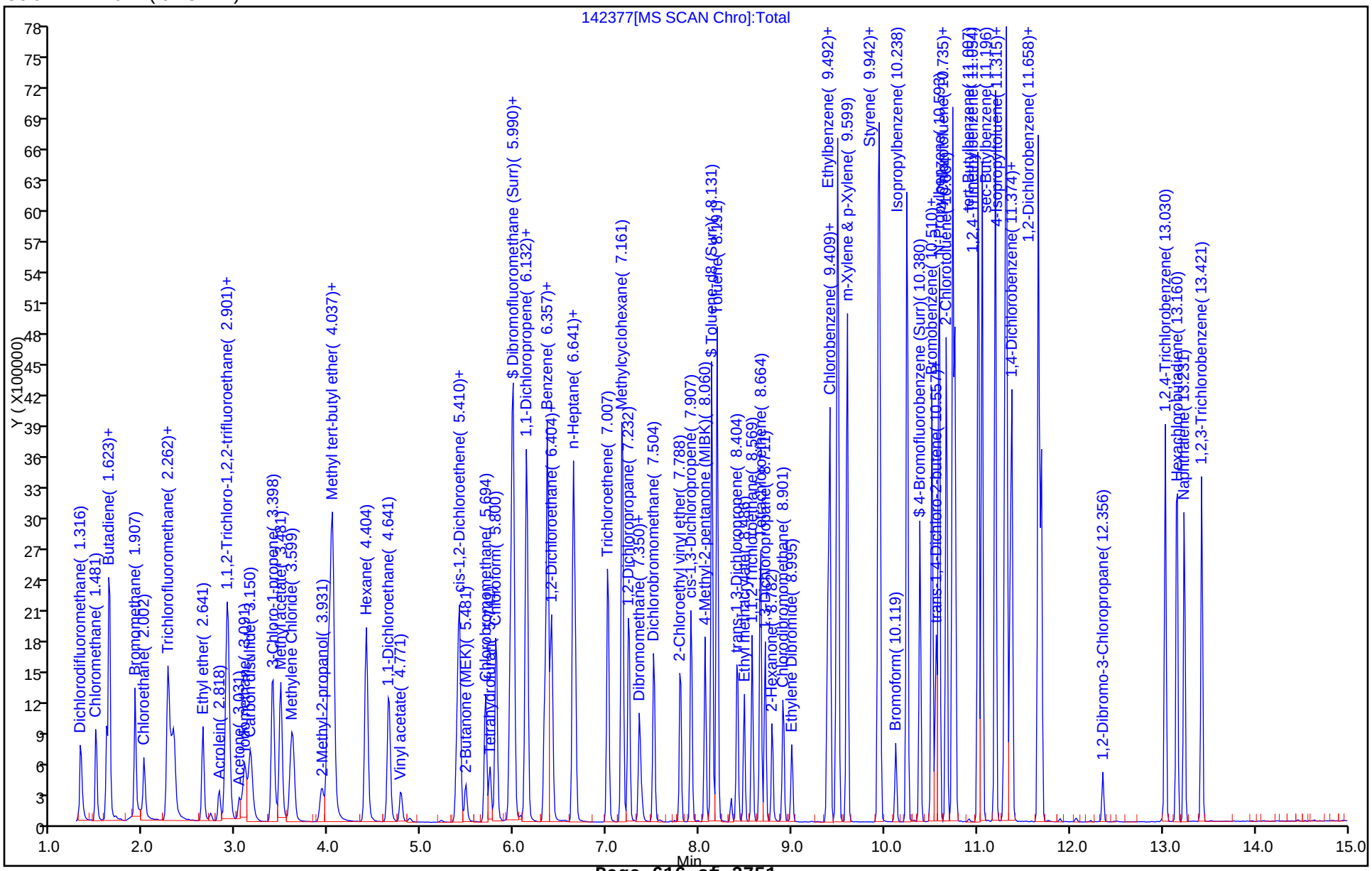
Report Date: 15-Apr-2015 13:05:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142377.D

Injection Date:	13-Apr-2015 15:30:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142378.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 13-Apr-2015 15:52:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 240-0042511-006240-0042511-006
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:40 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 13-Apr-2015 16:20:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1563167	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	968462	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	98	482391	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.978	5.978	0.000	92	382452	50.0	46.8	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	94	450544	50.0	46.0	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	94	1394204	50.0	48.0	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	467117	50.0	48.4	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	457072	50.0	46.8	
12 Chloromethane	50	1.481	1.481	0.000	99	462717	50.0	45.8	
13 Vinyl chloride	62	1.600	1.600	0.000	98	484631	50.0	48.1	
14 Butadiene	54	1.623	1.623	0.000	95	485186	50.0	50.8	
15 Bromomethane	94	1.907	1.907	0.000	89	357895	50.0	45.8	
17 Chloroethane	64	2.002	2.002	0.000	99	219241	50.0	43.4	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	701824	50.0	45.4	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	99	710832	50.0	49.5	
20 Ethyl ether	59	2.641	2.641	0.000	90	302728	50.0	49.6	
21 Acrolein	56	2.818	2.818	0.000	97	159580	250.0	230.7	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	94	343454	50.0	47.8	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	94	277007	50.0	49.6	
26 Acetone	43	3.031	3.031	0.000	99	193996	100.0	103.3	
27 Iodomethane	142	3.091	3.091	0.000	98	448033	50.0	47.2	
28 Carbon disulfide	76	3.150	3.150	0.000	99	897605	50.0	45.1	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	90	218811	50.0	48.9	
31 Methyl acetate	43	3.481	3.481	0.000	99	1249988	250.0	241.1	
32 Methylene Chloride	84	3.599	3.599	0.000	97	384215	50.0	48.2	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	98	370274	500.0	467.9	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	95	403974	50.0	48.3	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	95	1180484	50.0	49.8	
36 Acrylonitrile	53	4.037	4.037	0.000	100	1091995	500.0	484.9	
37 Hexane	86	4.404	4.404	0.000	95	99416	50.0	46.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	96	830332	50.0	48.5	
41 Vinyl acetate	86	4.783	4.783	0.000	97	26064	48.0	47.5	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	88	344466	50.0	48.2	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	446882	50.0	49.7	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	272637	100.0	99.5	
48 Chlorobromomethane	128	5.694	5.694	0.000	98	183366	50.0	49.1	
50 Tetrahydrofuran	42	5.741	5.741	0.000	88	193974	100.0	100.9	
51 Chloroform	83	5.800	5.800	0.000	93	786940	50.0	48.8	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	98	652549	50.0	50.6	
53 Cyclohexane	56	5.990	5.990	0.000	94	787344	50.0	49.7	
54 Carbon tetrachloride	117	6.120	6.120	0.000	96	614529	50.0	51.6	
55 1,1-Dichloropropene	75	6.132	6.132	0.000	96	615836	50.0	50.5	
56 Benzene	78	6.356	6.356	0.000	97	1634609	50.0	47.5	
57 Isobutyl alcohol	41	6.392	6.392	0.000	95	278842	1250.0	1220.2	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	546042	50.0	48.8	
60 n-Heptane	100	6.640	6.640	0.000	95	103552	50.0	53.0	
61 Trichloroethene	130	7.007	7.007	0.000	97	407714	50.0	48.5	
64 Methylcyclohexane	83	7.161	7.161	0.000	93	806377	50.0	50.9	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	94	399654	50.0	51.0	
67 Dibromomethane	93	7.350	7.350	0.000	94	197921	50.0	48.8	
69 1,4-Dioxane	88	7.386	7.386	0.000	94	62788	1000.0	1061.2	
70 Dichlorobromomethane	83	7.504	7.504	0.000	99	529306	50.0	52.7	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	91	336468	100.0	108.7	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.000	95	570017	50.0	53.1	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	569478	100.0	98.8	
76 Toluene	91	8.191	8.191	0.000	97	1606889	50.0	47.7	
77 trans-1,3-Dichloropropene	75	8.403	8.403	0.000	93	449058	50.0	53.6	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	293163	50.0	54.2	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	94	246168	50.0	48.6	
80 Tetrachloroethene	164	8.664	8.664	0.000	95	296860	50.0	48.8	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	469521	50.0	50.1	
82 2-Hexanone	43	8.782	8.782	0.000	99	326888	100.0	95.7	
84 Chlorodibromomethane	129	8.900	8.900	0.000	89	297773	50.0	54.4	
85 Ethylene Dibromide	107	8.995	8.995	0.000	100	240352	50.0	48.2	
87 Chlorobenzene	112	9.409	9.409	0.000	92	934897	50.0	48.7	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	93	372612	50.0	49.9	
89 Ethylbenzene	106	9.492	9.492	0.000	99	542260	50.0	49.1	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	635821	50.0	49.6	
91 o-Xylene	106	9.930	9.930	0.000	98	674856	50.0	49.2	
92 Styrene	104	9.954	9.954	0.000	94	895921	50.0	50.4	
93 Bromoform	173	10.119	10.119	0.000	96	151824	50.0	45.6	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	1942109	50.0	49.7	
97 Bromobenzene	156	10.510	10.510	0.000	96	356469	50.0	49.3	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	94	315778	50.0	49.2	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	83	93864	50.0	47.4	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	82	92820	50.0	53.4	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	461013	50.0	49.9	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	396380	50.0	50.7	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	92	1608722	50.0	51.6	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	375812	50.0	50.2	
105 tert-Butylbenzene	119	11.007	11.007	0.000	93	1510028	50.0	53.6	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	95	1564525	50.0	50.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	94	2147606	50.0	52.6	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	715319	50.0	48.0	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	97	1723589	50.0	51.4	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	92	696189	50.0	46.5	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	1609987	50.0	50.1	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	97	687234	50.0	47.9	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	78	55324	50.0	50.8	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	94	497881	50.0	45.2	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	98	323688	50.0	48.0	
121 Naphthalene	128	13.231	13.231	0.000	98	1040438	50.0	47.1	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	94	458419	50.0	45.8	
S 134 1,2-Dichloroethene, Total	96				0		100.0	98.0	
S 135 1,3-Dichloropropene, Total	75				0		100.0	106.7	
S 136 Xylenes, Total	106				0		100.0	98.8	
S 137 Trihalomethanes, Total	1				0		200.0	201.6	

Reagents:

vm50ss_00197	Amount Added:	5.00	Units: uL
VMRGAS_00097	Amount Added:	5.00	Units: uL
VMAROLISTDW_00095	Amount Added:	5.00	Units: uL
VMRPRIMW_00121	Amount Added:	5.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

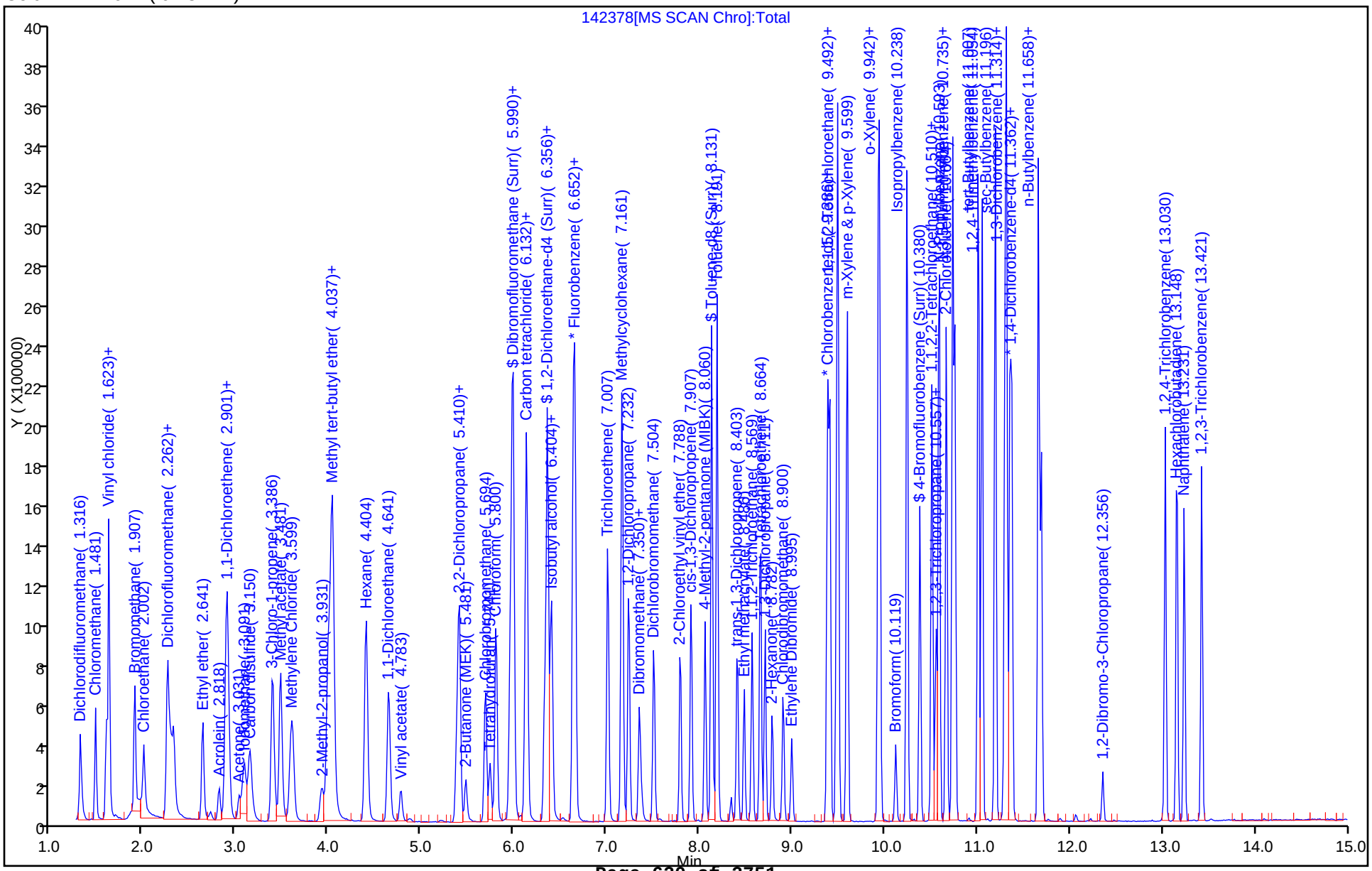
Report Date: 15-Apr-2015 13:05:41 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142378.D

Injection Date:	13-Apr-2015 15:52:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142379.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2015 16:13:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-007240-0042511-007
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:42 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 13-Apr-2015 16:37:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1531158	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	913819	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	97	459525	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.978	0.012	92	163082	20.0	19.5	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	93	199681	20.0	19.6	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	94	591341	20.0	20.0	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	85	189114	20.0	19.0	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	177199	20.0	18.5	
12 Chloromethane	50	1.481	1.481	0.000	99	191317	20.0	19.3	
13 Vinyl chloride	62	1.600	1.600	0.000	97	203950	20.0	20.6	
14 Butadiene	54	1.623	1.623	0.000	94	189400	20.0	20.3	
15 Bromomethane	94	1.907	1.907	0.000	89	147460	20.0	19.3	
17 Chloroethane	64	2.002	2.002	0.000	98	84998	20.0	17.0	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	282168	20.0	18.6	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	97	282780	20.0	20.1	
20 Ethyl ether	59	2.641	2.641	0.000	93	126224	20.0	21.1	
21 Acrolein	56	2.818	2.818	0.000	97	68324	100.0	100.8	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	94	133038	20.0	18.9	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	92	112842	20.0	20.6	
26 Acetone	43	3.031	3.031	0.000	98	92206	40.0	45.2	
27 Iodomethane	142	3.091	3.091	0.000	98	177433	20.0	19.1	
28 Carbon disulfide	76	3.150	3.150	0.000	99	314133	20.0	16.6	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	90	86558	20.0	19.8	
31 Methyl acetate	43	3.481	3.481	0.000	99	495871	100.0	97.6	
32 Methylene Chloride	84	3.611	3.599	0.012	98	163840	20.0	19.2	
33 2-Methyl-2-propanol	59	3.931	3.919	0.012	97	152745	200.0	197.1	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	95	156512	20.0	19.1	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	96	451555	20.0	19.5	
36 Acrylonitrile	53	4.049	4.037	0.012	100	452518	200.0	205.2	
37 Hexane	86	4.404	4.404	0.000	94	37389	20.0	17.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.653	4.641	0.012	96	323268	20.0	19.3	
41 Vinyl acetate	86	4.783	4.783	0.000	97	9880	19.2	18.4	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	88	133099	20.0	19.0	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	170545	20.0	19.4	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	108467	40.0	40.4	
48 Chlorobromomethane	128	5.694	5.694	0.000	97	68991	20.0	18.9	
50 Tetrahydrofuran	42	5.741	5.741	0.000	91	75764	40.0	40.3	
51 Chloroform	83	5.800	5.800	0.000	93	305573	20.0	19.4	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	97	242273	20.0	19.2	
53 Cyclohexane	56	5.990	5.990	0.000	95	310564	20.0	20.0	
54 Carbon tetrachloride	117	6.132	6.120	0.012	96	228993	20.0	19.6	
55 1,1-Dichloropropene	75	6.144	6.132	0.012	97	229350	20.0	19.2	
56 Benzene	78	6.356	6.356	0.000	97	626745	20.0	18.6	
57 Isobutyl alcohol	41	6.392	6.392	0.000	92	119110	500.0	532.1	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	212661	20.0	19.4	
60 n-Heptane	100	6.640	6.640	0.000	96	39100	20.0	20.4	
61 Trichloroethene	130	7.007	7.007	0.000	96	155451	20.0	18.9	
64 Methylcyclohexane	83	7.161	7.161	0.000	94	301634	20.0	19.5	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	93	144880	20.0	18.9	
67 Dibromomethane	93	7.350	7.350	0.000	95	77265	20.0	19.4	
69 1,4-Dioxane	88	7.386	7.386	0.000	96	23755	400.0	409.9	
70 Dichlorobromomethane	83	7.504	7.504	0.000	99	186337	20.0	18.9	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	92	113146	40.0	37.3	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	94	203722	20.0	19.4	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	221448	40.0	40.7	
76 Toluene	91	8.191	8.191	0.001	96	605006	20.0	19.0	
77 trans-1,3-Dichloropropene	75	8.404	8.403	0.001	94	153697	20.0	19.4	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	96399	20.0	18.9	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	94	94385	20.0	19.7	
80 Tetrachloroethene	164	8.664	8.664	0.000	95	108741	20.0	19.0	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	169075	20.0	19.1	
82 2-Hexanone	43	8.782	8.782	0.000	98	127574	40.0	39.6	
84 Chlorodibromomethane	129	8.901	8.900	0.001	90	101147	20.0	19.6	
85 Ethylene Dibromide	107	8.995	8.995	0.000	99	89096	20.0	18.9	
87 Chlorobenzene	112	9.409	9.409	0.000	93	338223	20.0	18.7	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	91	143891	20.0	20.4	
89 Ethylbenzene	106	9.492	9.492	0.000	99	193684	20.0	18.6	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	230963	20.0	19.1	
91 o-Xylene	106	9.930	9.930	0.000	98	255173	20.0	19.7	
92 Styrene	104	9.954	9.954	0.000	93	307027	20.0	18.3	
93 Bromoform	173	10.119	10.119	0.000	93	49661	20.0	16.3	
94 Isopropylbenzene	105	10.238	10.238	0.000	96	711761	20.0	19.3	
97 Bromobenzene	156	10.510	10.510	0.000	96	126037	20.0	18.3	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	95	122501	20.0	20.0	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	82	35663	20.0	18.9	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	76	33972	20.0	20.5	
100 N-Propylbenzene	120	10.593	10.593	0.000	98	176214	20.0	20.0	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	147338	20.0	19.8	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	94	595811	20.0	20.1	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	138477	20.0	19.4	
105 tert-Butylbenzene	119	11.007	11.007	0.000	93	554434	20.0	20.7	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	95	586453	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	95	789075	20.0	20.3	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	262430	20.0	18.5	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	96	641089	20.0	20.1	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	95	267730	20.0	18.8	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	610718	20.0	20.0	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	96	266239	20.0	19.5	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	80	21105	20.0	20.3	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	95	204327	20.0	19.5	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	97	132443	20.0	20.6	
121 Naphthalene	128	13.231	13.231	0.000	97	437825	20.0	20.8	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	96	190657	20.0	20.0	
S 134 1,2-Dichloroethene, Total	96				0		40.0	38.5	
S 135 1,3-Dichloropropene, Total	75				0		40.0	38.8	
S 136 Xylenes, Total	106				0		40.0	38.8	
S 137 Trihalomethanes, Total	1				0		80.0	74.2	

Reagents:

vm50ss_00197	Amount Added:	2.00	Units: uL
VMRGAS_00097	Amount Added:	2.00	Units: uL
VMAROLISTDW_00095	Amount Added:	2.00	Units: uL
VMRPRIMW_00121	Amount Added:	2.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

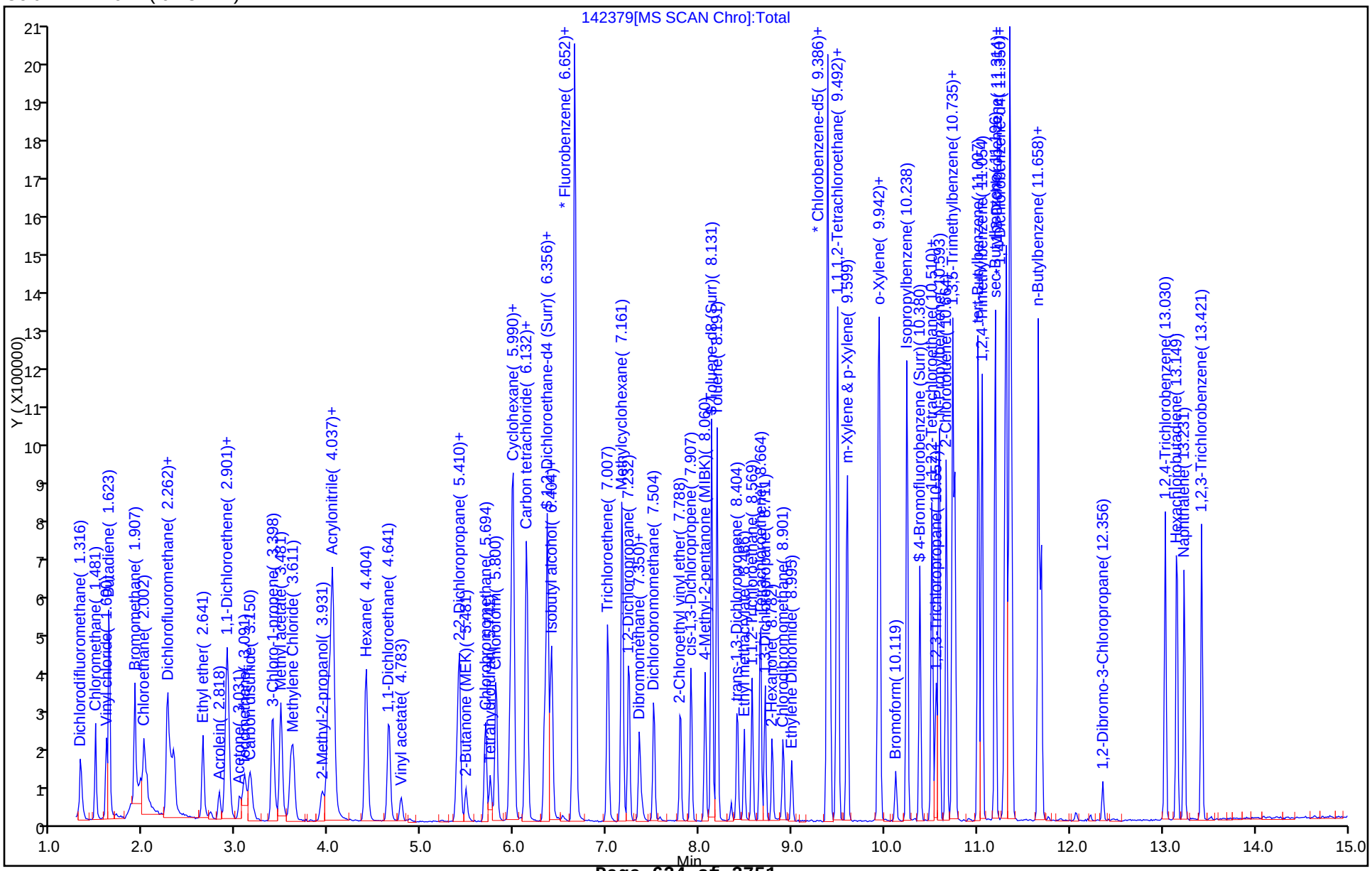
Report Date: 15-Apr-2015 13:05:42 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142379.D

Injection Date:	13-Apr-2015 16:13:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142380.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2015 16:34:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-008240-0042511-008
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:43 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 09:30:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1490557	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	843532	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	96	445677	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.978	5.978	0.000	92	85223	10.0	9.75	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	94	106146	10.0	9.64	
$ 8 Toluene-d8 (Surr)	98	8.132	8.131	0.001	94	304451	10.0	9.86	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	87	97242	10.0	8.79	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	98	92504	10.0	9.93	
12 Chloromethane	50	1.481	1.481	0.000	98	96855	10.0	10.0	
13 Vinyl chloride	62	1.600	1.600	0.000	98	96204	10.0	10.0	
14 Butadiene	54	1.623	1.623	0.000	94	94160	10.0	10.3	
15 Bromomethane	94	1.907	1.907	0.000	89	68831	10.0	9.24	
17 Chloroethane	64	2.002	2.002	0.000	97	45412	10.0	9.21	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	150827	10.0	10.2	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	97	132513	10.0	9.67	
20 Ethyl ether	59	2.641	2.641	0.000	96	56479	10.0	9.70	
21 Acrolein	56	2.819	2.818	0.001	96	29969	50.0	45.4	
23 1,1-Dichloroethene	96	2.890	2.889	0.001	93	67852	10.0	9.90	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	94	55056	10.0	10.3	
26 Acetone	43	3.032	3.031	0.001	99	49896	20.0	20.9	
27 Iodomethane	142	3.079	3.091	-0.012	99	94414	10.0	10.4	
28 Carbon disulfide	76	3.150	3.150	0.000	100	152748	10.0	8.64	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	89	40910	10.0	9.59	
31 Methyl acetate	43	3.481	3.481	0.000	99	241583	50.0	48.9	
32 Methylene Chloride	84	3.600	3.599	0.001	98	86599	10.0	8.99	
33 2-Methyl-2-propanol	59	3.931	3.919	0.012	98	73346	100.0	97.2	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	95	81471	10.0	10.2	
35 Methyl tert-butyl ether	73	4.026	4.025	0.001	96	217733	10.0	9.63	
36 Acrylonitrile	53	4.049	4.037	0.012	98	222251	100.0	103.5	
37 Hexane	86	4.404	4.404	0.000	96	19822	10.0	9.61	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	97	166340	10.0	10.2	
41 Vinyl acetate	86	4.795	4.783	0.012	96	5037	9.60	9.63	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	90	63852	10.0	9.38	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	83095	10.0	9.69	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	50950	20.0	19.5	
48 Chlorobromomethane	128	5.694	5.694	0.000	96	36254	10.0	10.2	
50 Tetrahydrofuran	42	5.741	5.741	0.000	89	37502	20.0	20.5	
51 Chloroform	83	5.800	5.800	0.000	93	153605	10.0	10.0	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	97	121515	10.0	9.89	
53 Cyclohexane	56	5.990	5.990	0.000	93	156030	10.0	10.3	
54 Carbon tetrachloride	117	6.120	6.120	0.000	96	109773	10.0	9.67	
55 1,1-Dichloropropene	75	6.132	6.132	0.000	95	115979	10.0	9.96	
56 Benzene	78	6.357	6.356	0.001	97	327023	10.0	9.97	
57 Isobutyl alcohol	41	6.392	6.392	0.000	97	53826	250.0	247.0	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	104317	10.0	9.78	
60 n-Heptane	100	6.641	6.640	0.001	97	18069	10.0	9.69	
61 Trichloroethene	130	7.007	7.007	0.000	97	80070	10.0	10.0	
64 Methylcyclohexane	83	7.161	7.161	0.000	92	158363	10.0	10.5	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	94	73589	10.0	9.85	
67 Dibromomethane	93	7.351	7.350	0.001	95	36357	10.0	9.40	
69 1,4-Dioxane	88	7.386	7.386	0.000	88	10679	200.0	189.3	
70 Dichlorobromomethane	83	7.504	7.504	0.000	98	90757	10.0	9.47	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	92	51042	20.0	17.3	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	94	90917	10.0	8.88	
75 4-Methyl-2-pentanone (MIBK	43	8.061	8.060	0.001	96	101191	20.0	20.2	
76 Toluene	91	8.191	8.191	0.001	98	294873	10.0	10.0	
77 trans-1,3-Dichloropropene	75	8.404	8.403	0.001	93	70034	10.0	9.60	
78 Ethyl methacrylate	69	8.487	8.486	0.000	89	44668	10.0	9.48	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	92	44249	10.0	10.0	
80 Tetrachloroethene	164	8.664	8.664	0.000	94	57678	10.0	10.9	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	80131	10.0	9.81	
82 2-Hexanone	43	8.782	8.782	0.000	98	56659	20.0	19.1	
84 Chlorodibromomethane	129	8.901	8.900	0.001	90	42516	10.0	8.92	
85 Ethylene Dibromide	107	8.995	8.995	0.000	100	42951	10.0	9.89	
87 Chlorobenzene	112	9.409	9.409	0.000	92	163776	10.0	9.79	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	91	67858	10.0	10.4	
89 Ethylbenzene	106	9.492	9.492	0.000	99	92043	10.0	9.57	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	100	111070	10.0	9.95	
91 o-Xylene	106	9.930	9.930	0.000	98	121591	10.0	10.2	
92 Styrene	104	9.954	9.954	0.000	93	139589	10.0	9.01	
93 Bromoform	173	10.119	10.119	0.000	94	22288	10.0	8.36	
94 Isopropylbenzene	105	10.238	10.238	0.000	96	342682	10.0	10.1	
97 Bromobenzene	156	10.510	10.510	0.000	95	63288	10.0	9.47	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	94	58707	10.0	9.90	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	84	18121	10.0	9.91	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	67	15965	10.0	9.94	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	84827	10.0	9.95	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	71101	10.0	9.85	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	92	291003	10.0	10.1	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	70232	10.0	10.2	
105 tert-Butylbenzene	119	11.007	11.007	0.000	92	275698	10.0	10.6	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	95	285694	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	95	387150	10.0	10.3	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	96	128163	10.0	9.30	
111 4-Isopropyltoluene	119	11.315	11.314	0.001	97	310056	10.0	10.0	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	96	134188	10.0	9.71	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	293103	10.0	9.87	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	97	128584	10.0	9.71	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	79	9562	10.0	9.50	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	93	101251	10.0	9.96	
120 Hexachlorobutadiene	225	13.161	13.160	0.000	97	65010	10.0	10.4	
121 Naphthalene	128	13.232	13.231	0.001	97	216513	10.0	10.6	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	95	96369	10.0	10.4	
S 134 1,2-Dichloroethene, Total	96				0		20.0	19.9	
S 135 1,3-Dichloropropene, Total	75				0		20.0	18.5	
S 136 Xylenes, Total	106				0		20.0	20.1	
S 137 Trihalomethanes, Total	1				0		40.0	36.8	

Reagents:

vm50ss_00197	Amount Added:	1.00	Units: uL
VMRGAS_00097	Amount Added:	1.00	Units: uL
VMAROLISTDW_00095	Amount Added:	1.00	Units: uL
VMRPRIMW_00121	Amount Added:	1.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

Report Date: 15-Apr-2015 13:05:44 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142380.D

Injection Date: 13-Apr-2015 16:34:30 Instrument ID: A3UX14 Operator ID: 002808

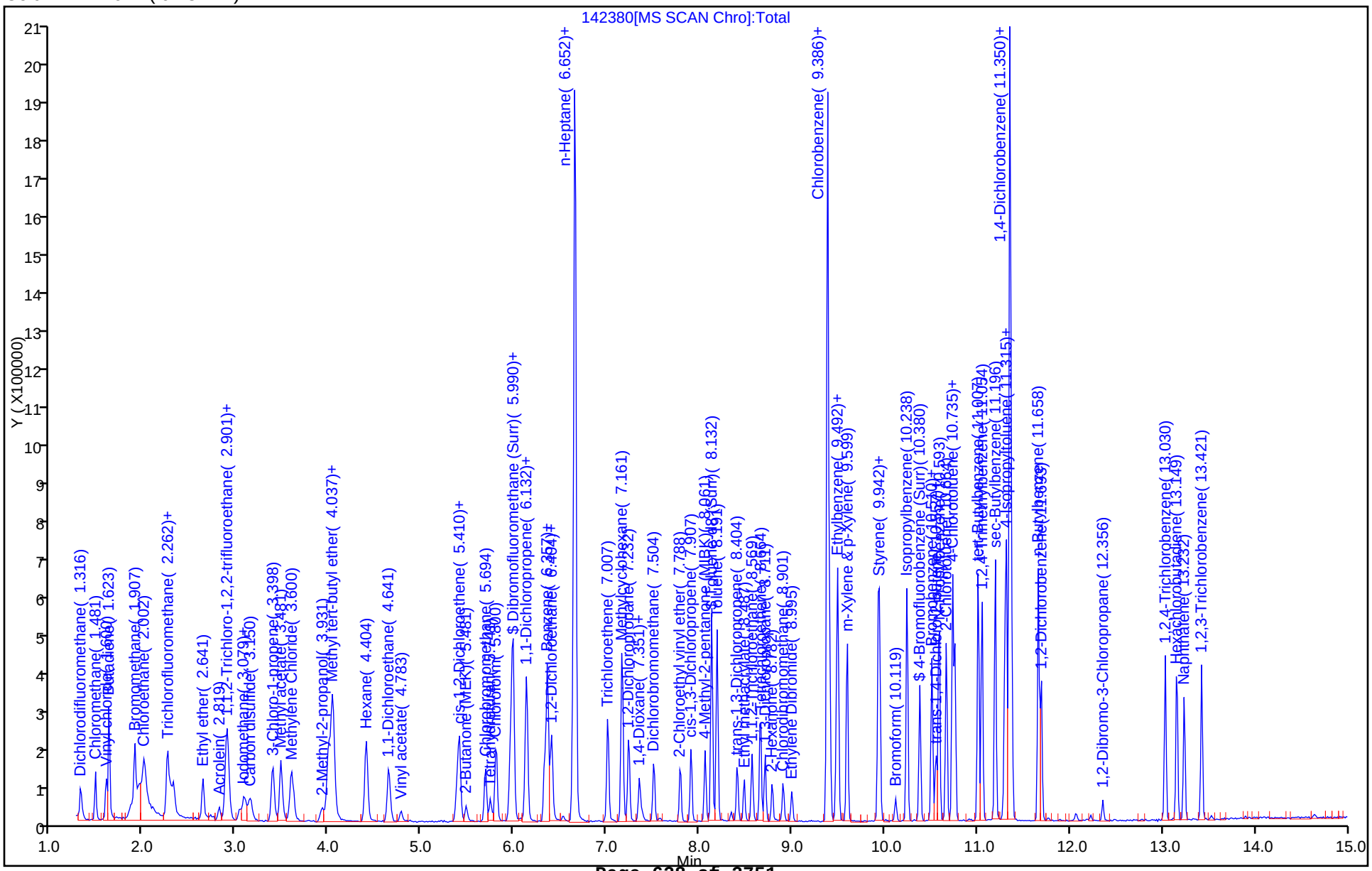
Lims ID: IC Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260_14 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



Report Date: 15-Apr-2015 13:05:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142381.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2015 16:56:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-009240-0042511-009
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:44 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 09:31:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1381703	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	761755	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	96	416353	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.978	5.978	0.000	92	47891	5.00	5.30	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	97	66180	5.00	5.73	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	94	188391	5.00	5.84	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	65166	5.00	5.54	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	50741	5.00	5.88	
12 Chloromethane	50	1.481	1.481	0.000	99	53585	5.00	6.00	
13 Vinyl chloride	62	1.600	1.600	0.000	98	53538	5.00	6.01	
14 Butadiene	54	1.623	1.623	0.000	92	52716	5.00	6.25	
15 Bromomethane	94	1.907	1.907	0.000	91	39874	5.00	5.77	
17 Chloroethane	64	2.002	2.002	0.000	93	26656	5.00	5.74	
18 Dichlorofluoromethane	67	2.250	2.262	-0.012	97	78179	5.00	5.72	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	96	74135	5.00	5.84	
20 Ethyl ether	59	2.641	2.641	0.000	95	29922	5.00	5.54	
21 Acrolein	56	2.818	2.818	0.000	91	16437	25.0	26.9	
23 1,1-Dichloroethene	96	2.901	2.889	0.012	93	33604	5.00	5.29	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	94	27908	5.00	5.65	
26 Acetone	43	3.031	3.031	0.000	99	29020	10.0	9.52	
27 Iodomethane	142	3.091	3.091	0.000	99	43527	5.00	5.18	
28 Carbon disulfide	76	3.150	3.150	0.000	99	73508	5.00	4.83	
29 3-Chloro-1-propene	76	3.386	3.398	-0.012	89	20829	5.00	5.27	
31 Methyl acetate	43	3.481	3.481	0.000	99	119335	25.0	26.0	
32 Methylene Chloride	84	3.599	3.599	0.000	97	52367	5.00	4.78	
33 2-Methyl-2-propanol	59	3.931	3.919	0.012	96	36553	50.0	52.3	
34 trans-1,2-Dichloroethene	96	4.002	3.990	0.012	93	40090	5.00	5.43	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	95	109518	5.00	5.23	
36 Acrylonitrile	53	4.049	4.037	0.012	98	109143	50.0	54.8	
37 Hexane	86	4.404	4.404	0.000	94	10845	5.00	5.67	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.653	4.641	0.011	96	80045	5.00	5.29	
41 Vinyl acetate	86	4.783	4.783	0.000	97	2474	4.80	5.10	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	87	34334	5.00	5.44	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	42485	5.00	5.34	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	99	23267	10.0	9.61	
48 Chlorobromomethane	128	5.682	5.694	-0.012	92	18399	5.00	5.57	
50 Tetrahydrofuran	42	5.741	5.741	0.000	90	17412	10.0	10.3	
51 Chloroform	83	5.812	5.800	0.012	93	75352	5.00	5.29	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	97	57375	5.00	5.04	
53 Cyclohexane	56	5.990	5.990	0.000	95	78065	5.00	5.57	
54 Carbon tetrachloride	117	6.132	6.120	0.012	96	53593	5.00	5.09	
55 1,1-Dichloropropene	75	6.132	6.132	0.000	96	59973	5.00	5.56	
56 Benzene	78	6.356	6.356	0.000	97	157728	5.00	5.19	
57 Isobutyl alcohol	41	6.392	6.392	0.000	96	26860	125.0	133.0	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	97	52718	5.00	5.33	
60 n-Heptane	100	6.640	6.640	0.000	96	9461	5.00	5.47	
61 Trichloroethene	130	7.007	7.007	0.000	97	41091	5.00	5.53	
64 Methylcyclohexane	83	7.161	7.161	0.000	92	79404	5.00	5.68	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	93	35567	5.00	5.14	
67 Dibromomethane	93	7.350	7.350	0.000	91	20026	5.00	5.58	
69 1,4-Dioxane	88	7.386	7.386	0.000	90	5516	100.0	105.5	
70 Dichlorobromomethane	83	7.504	7.504	0.000	99	40005	5.00	4.51	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	91	22551	10.0	8.24	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	94	43542	5.00	4.59	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	50010	10.0	11.0	
76 Toluene	91	8.191	8.191	0.001	97	151159	5.00	5.70	
77 trans-1,3-Dichloropropene	75	8.404	8.403	0.001	93	30102	5.00	4.57	
78 Ethyl methacrylate	69	8.486	8.486	0.000	95	19595	5.00	4.61	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	92	22526	5.00	5.65	
80 Tetrachloroethene	164	8.664	8.664	0.000	97	27698	5.00	5.79	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	90	41579	5.00	5.64	
82 2-Hexanone	43	8.782	8.782	0.000	98	24881	10.0	9.26	
84 Chlorodibromomethane	129	8.901	8.900	0.001	93	19314	5.00	4.49	
85 Ethylene Dibromide	107	8.995	8.995	0.000	94	21652	5.00	5.52	
87 Chlorobenzene	112	9.409	9.409	0.000	92	83863	5.00	5.55	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	88	32071	5.00	5.46	
89 Ethylbenzene	106	9.492	9.492	0.000	99	51082	5.00	5.88	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	53355	5.00	5.30	
91 o-Xylene	106	9.930	9.930	0.000	98	57193	5.00	5.30	
92 Styrene	104	9.942	9.954	-0.012	93	68011	5.00	4.86	
93 Bromoform	173	10.119	10.119	0.000	90	9148	5.00	4.24	
94 Isopropylbenzene	105	10.238	10.238	0.000	96	167419	5.00	5.45	
97 Bromobenzene	156	10.510	10.510	0.000	95	32408	5.00	5.19	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	93	26403	5.00	4.76	
98 1,2,3-Trichloropropane	110	10.545	10.557	-0.012	87	8672	5.00	5.08	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	63	6640	5.00	4.43	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	41667	5.00	5.23	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	38931	5.00	5.77	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	94	134673	5.00	5.00	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	33593	5.00	5.20	
105 tert-Butylbenzene	119	11.007	11.007	0.000	92	125353	5.00	5.16	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	95	141317	5.00	5.33	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	95	183676	5.00	5.22	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	68987	5.00	5.36	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	96	146751	5.00	5.07	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	92	67374	5.00	5.22	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	145558	5.00	5.25	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	96	66181	5.00	5.35	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	77	4479	5.00	4.76	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	92	51480	5.00	5.42	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	97	31371	5.00	5.39	
121 Naphthalene	128	13.231	13.231	0.000	97	98914	5.00	5.18	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	93	47752	5.00	5.53	
S 134 1,2-Dichloroethene, Total	96				0		10.0	10.8	
S 135 1,3-Dichloropropene, Total	75				0		10.0	9.16	
S 136 Xylenes, Total	106				0		10.0	10.6	
S 137 Trihalomethanes, Total	1				0		20.0	18.5	

Reagents:

vm50ss_00197	Amount Added:	0.50	Units: uL
VMRGAS_00097	Amount Added:	0.50	Units: uL
VMAROLISTDW_00095	Amount Added:	0.50	Units: uL
VMRPRIMW_00121	Amount Added:	0.50	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

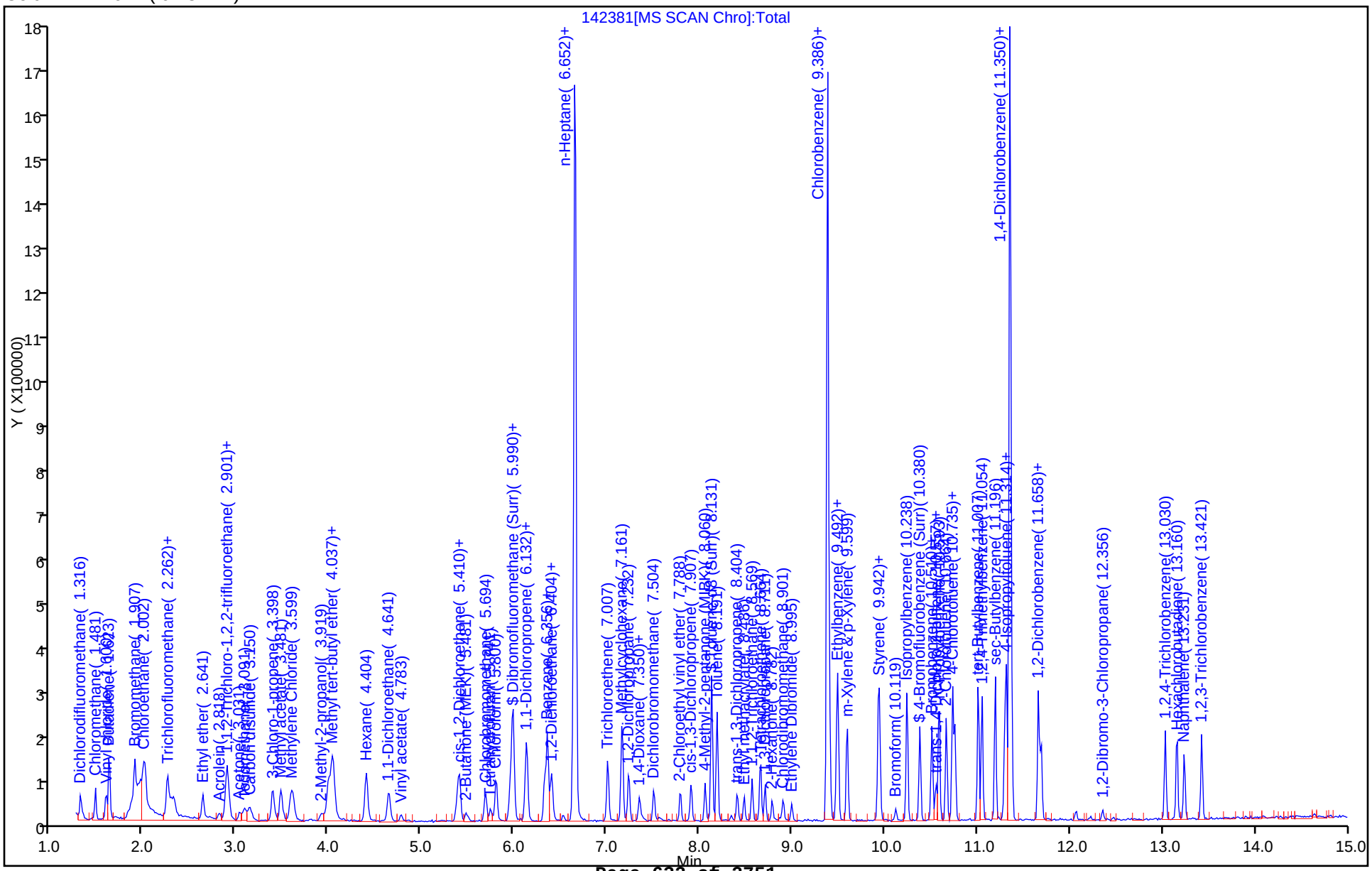
Report Date: 15-Apr-2015 13:05:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142381.D

Injection Date:	13-Apr-2015 16:56:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142382.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2015 17:17:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-010240-0042511-010
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:46 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 09:32:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1406964	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	800299	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	96	430027	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.978	0.012	93	23606	2.00	1.77	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	96	38601	2.00	2.31	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	94	106134	2.00	1.78	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	83	39254	2.00	2.09	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	98	13590	2.00	1.55	
12 Chloromethane	50	1.481	1.481	0.000	98	17126	2.00	1.88	
13 Vinyl chloride	62	1.588	1.600	-0.012	97	14887	2.00	1.64	
14 Butadiene	54	1.623	1.623	0.000	94	14370	2.00	1.67	
15 Bromomethane	94	1.907	1.907	0.000	90	14994	2.00	2.13	
17 Chloroethane	64	2.002	2.002	0.000	85	10709	2.00	2.10	
18 Dichlorofluoromethane	67	2.250	2.262	-0.012	97	27631	2.00	1.99	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	95	22094	2.00	1.71	
20 Ethyl ether	59	2.641	2.641	0.000	89	11582	2.00	2.11	
21 Acrolein	56	2.818	2.818	0.000	96	7628	10.0	12.3	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	97	13229	2.00	2.05	
24 1,1,2-Trichloro-1,2,2-trif	151	2.901	2.913	-0.012	67	7799	2.00	1.55	
26 Acetone	43	3.043	3.031	0.012	97	23051	4.00	5.31	
27 Iodomethane	142	3.091	3.091	0.000	98	16932	2.00	1.98	
28 Carbon disulfide	76	3.138	3.150	-0.012	97	23128	2.00	1.98	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	87	7360	2.00	1.83	
31 Methyl acetate	43	3.481	3.481	0.000	97	51386	10.0	11.0	
32 Methylene Chloride	84	3.588	3.599	-0.011	96	36316	2.00	2.26	
33 2-Methyl-2-propanol	59	3.943	3.919	0.024	91	17950	20.0	25.2	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	94	14368	2.00	1.91	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	93	46542	2.00	2.18	
36 Acrylonitrile	53	4.049	4.037	0.012	99	45147	20.0	22.3	
37 Hexane	86	4.404	4.404	0.000	91	4228	2.00	2.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.653	4.641	0.012	93	27094	2.00	1.76	
41 Vinyl acetate	86		4.783				ND	ND	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	70	13734	2.00	2.14	
44 cis-1,2-Dichloroethene	96	5.398	5.410	-0.012	82	15865	2.00	1.96	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	98	12168	4.00	4.94	
48 Chlorobromomethane	128	5.694	5.694	0.000	90	6908	2.00	2.05	
50 Tetrahydrofuran	42	5.741	5.741	0.000	93	10588	4.00	6.12	
51 Chloroform	83	5.800	5.800	0.000	94	27492	2.00	1.90	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	97	20146	2.00	1.74	
53 Cyclohexane	56	5.990	5.990	0.000	89	27623	2.00	1.94	
54 Carbon tetrachloride	117	6.120	6.120	0.000	79	18239	2.00	1.70	
55 1,1-Dichloropropene	75	6.132	6.132	0.000	94	19824	2.00	1.80	
56 Benzene	78	6.356	6.356	0.000	97	59183	2.00	1.91	
57 Isobutyl alcohol	41	6.392	6.392	0.000	82	10190	50.0	49.5	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	97	19108	2.00	1.90	
60 n-Heptane	100	6.640	6.640	0.000	94	3113	2.00	1.77	
61 Trichloroethene	130	7.007	7.007	0.000	91	13998	2.00	1.85	
64 Methylcyclohexane	83	7.161	7.161	0.000	92	24458	2.00	1.72	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	93	14600	2.00	2.07	
67 Dibromomethane	93	7.350	7.350	0.000	91	8135	2.00	2.23	
69 1,4-Dioxane	88	7.398	7.386	0.012	53	2083	40.0	39.1	
70 Dichlorobromomethane	83	7.504	7.504	0.000	97	15359	2.00	1.70	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	91	10852	4.00	3.90	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	90	16069	2.00	1.66	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	97	22670	4.00	4.76	
76 Toluene	91	8.191	8.191	0.001	98	51626	2.00	1.85	
77 trans-1,3-Dichloropropene	75	8.415	8.403	0.012	93	12097	2.00	1.75	
78 Ethyl methacrylate	69	8.486	8.486	0.000	92	8303	2.00	1.86	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	92	8339	2.00	1.99	
80 Tetrachloroethene	164	8.664	8.664	0.000	92	8639	2.00	1.72	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	90	15296	2.00	1.97	
82 2-Hexanone	43	8.782	8.782	0.000	93	13513	4.00	4.79	
84 Chlorodibromomethane	129	8.901	8.900	0.001	88	7628	2.00	1.69	
85 Ethylene Dibromide	107	8.995	8.995	0.000	99	8591	2.00	2.09	
87 Chlorobenzene	112	9.409	9.409	0.000	96	30965	2.00	1.95	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	84	10966	2.00	1.78	
89 Ethylbenzene	106	9.504	9.492	0.012	98	15940	2.00	1.75	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	98	18211	2.00	1.72	
91 o-Xylene	106	9.930	9.930	0.000	97	19800	2.00	1.75	
92 Styrene	104	9.942	9.954	-0.012	94	27745	2.00	1.89	
93 Bromoform	173	10.119	10.119	0.000	88	3065	2.00	1.90	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	53797	2.00	1.67	
97 Bromobenzene	156	10.510	10.510	0.000	94	12201	2.00	1.89	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	71	11768	2.00	2.06	
98 1,2,3-Trichloropropane	110	10.545	10.557	-0.012	85	3839	2.00	2.18	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	61	3145	2.00	2.03	
100 N-Propylbenzene	120	10.593	10.593	0.000	98	13770	2.00	1.67	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	12534	2.00	1.80	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	93	47578	2.00	1.71	
103 4-Chlorotoluene	126	10.758	10.758	0.000	98	12287	2.00	1.84	
105 tert-Butylbenzene	119	11.007	11.007	0.000	93	40570	2.00	1.62	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	96	45405	2.00	1.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	96	56190	2.00	1.55	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	27163	2.00	2.04	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	95	49308	2.00	1.65	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	90	26428	2.00	1.98	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	49539	2.00	1.73	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	94	26542	2.00	2.08	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	77	1809	2.00	1.86	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	93	18853	2.00	1.92	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	96	12614	2.00	2.10	
121 Naphthalene	128	13.231	13.231	0.000	96	44992	2.00	2.28	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	94	19711	2.00	2.21	
S 134 1,2-Dichloroethene, Total	96				0		4.00	3.87	
S 135 1,3-Dichloropropene, Total	75				0		4.00	3.41	
S 136 Xylenes, Total	106				0		4.00	3.47	
S 137 Trihalomethanes, Total	1				0		8.00	7.19	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

vm50ss_00197	Amount Added:	0.20	Units: uL
VMRGAS_00097	Amount Added:	0.20	Units: uL
VMAROLISTDW_00095	Amount Added:	0.20	Units: uL
VMRPRIMW_00121	Amount Added:	0.20	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

Report Date: 15-Apr-2015 13:05:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142382.D

Injection Date: 13-Apr-2015 17:17:30 Instrument ID: A3UX14 Operator ID: 002808

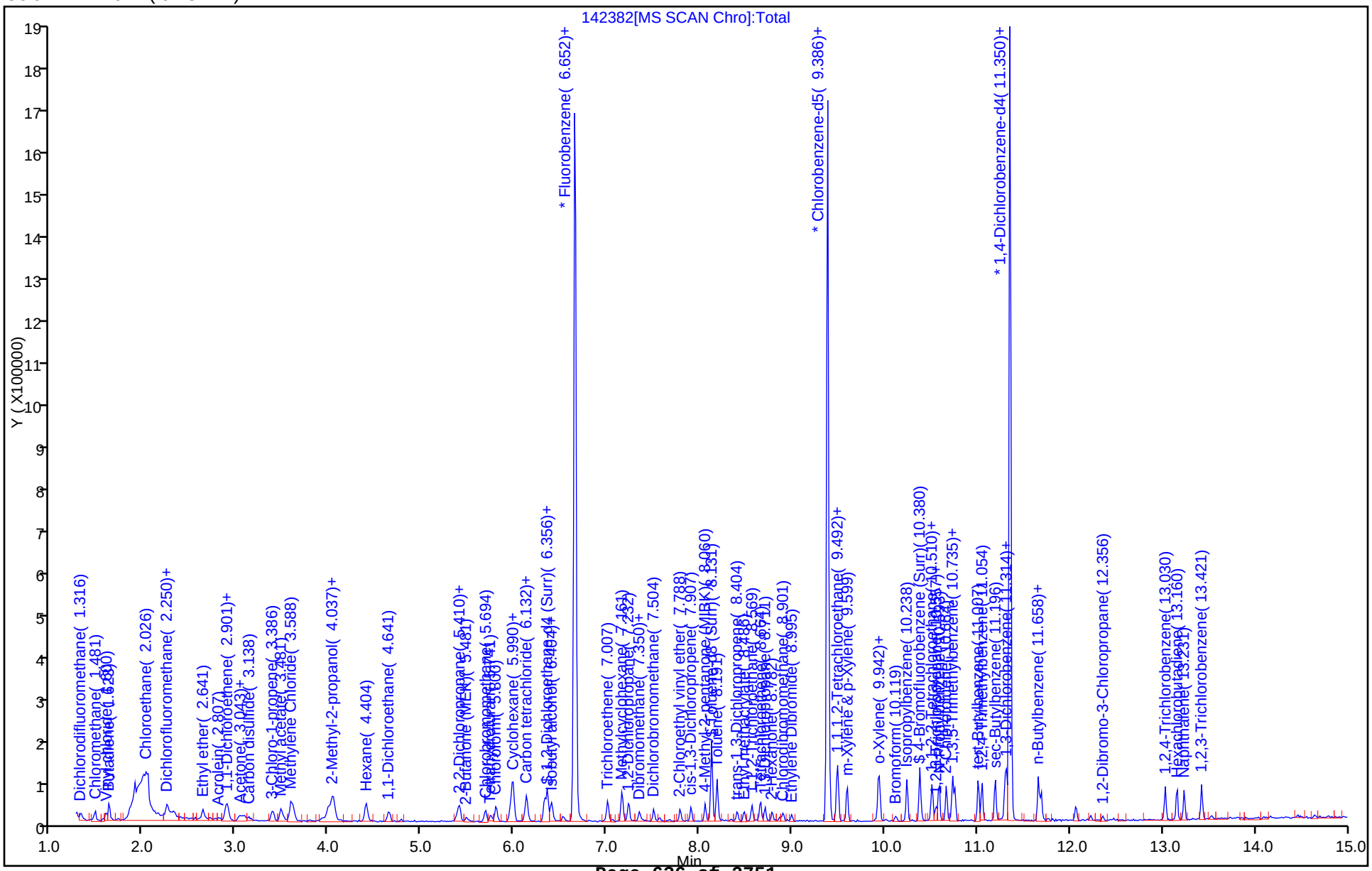
Lims ID: IC Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8260_14 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2015 17:39:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 240-0042511-011240-0042511-011
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:48 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 09:34:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1294248	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	723462	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	96	397285	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.978	5.978	0.000	92	17755	1.00	1.16	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	96	24219	1.00	0.8450	
$ 8 Toluene-d8 (Surr)	98	8.132	8.131	0.001	93	79521	1.00	0.9788	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	82	28411	1.00	1.05	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	93	5807	1.00	0.7183	
12 Chloromethane	50	1.481	1.481	0.000	99	9208	1.00	1.10	
13 Vinyl chloride	62	1.588	1.600	-0.012	95	8300	1.00	0.99	
14 Butadiene	54	1.623	1.623	0.000	88	5677	1.00	0.7183	
15 Bromomethane	94	1.907	1.907	0.000	86	7603	1.00	1.17	
17 Chloroethane	64	2.002	2.002	0.000	36	6019	1.00	1.18	
18 Dichlorofluoromethane	67	2.251	2.262	-0.011	98	13227	1.00	1.03	
19 Trichlorofluoromethane	101	2.286	2.298	-0.012	90	8901	1.00	0.7482	
20 Ethyl ether	59	2.641	2.641	0.000	79	4559	1.00	0.9016	
21 Acrolein	56	2.807	2.818	-0.011	89	3191	5.00	5.57	
23 1,1-Dichloroethene	96	2.890	2.889	0.001	94	5958	1.00	1.00	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	66	4391	1.00	0.9499	
26 Acetone	43	3.032	3.031	0.001	99	15152	2.00	1.06	
27 Iodomethane	142	3.091	3.091	0.000	96	6925	1.00	0.8804	
28 Carbon disulfide	76	3.138	3.150	-0.012	95	11612	1.00	1.40	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	91	3109	1.00	0.8392	
31 Methyl acetate	43	3.481	3.481	0.000	99	24863	5.00	5.79	
32 Methylene Chloride	84	3.600	3.599	0.001	97	26058	1.00	1.07	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	96	7086	10.0	10.8	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	93	6913	1.00	1.00	
35 Methyl tert-butyl ether	73	4.026	4.025	0.001	94	17680	1.00	0.9010	
36 Acrylonitrile	53	4.049	4.037	0.012	96	18220	10.0	9.77	
37 Hexane	86	4.404	4.404	0.000	88	2195	1.00	1.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	96	15334	1.00	1.08	
41 Vinyl acetate	86		4.783				ND	ND	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	52	5343	1.00	0.9035	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	85	7452	1.00	1.00	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	72	4751	2.00	2.09	
48 Chlorobromomethane	128	5.694	5.694	0.000	95	2908	1.00	0.9401	
50 Tetrahydrofuran	42	5.741	5.741	0.000	84	5042	2.00	3.17	
51 Chloroform	83	5.800	5.800	0.000	95	12837	1.00	0.9623	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	74	9393	1.00	0.8801	
53 Cyclohexane	56	5.990	5.990	0.000	74	10645	1.00	0.8115	
54 Carbon tetrachloride	117	6.120	6.120	0.000	74	7303	1.00	0.7410	
55 1,1-Dichloropropene	75	6.144	6.132	0.012	94	9355	1.00	0.9257	
56 Benzene	78	6.357	6.356	0.001	95	31782	1.00	1.12	
57 Isobutyl alcohol	41	6.404	6.392	0.012	62	5490	25.0	29.0	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	96	9758	1.00	1.05	
60 n-Heptane	100	6.629	6.640	-0.011	50	1086	1.00	0.6708	
61 Trichloroethene	130	7.019	7.007	0.012	93	6737	1.00	0.9683	
64 Methylcyclohexane	83	7.161	7.161	0.000	91	10364	1.00	0.7908	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	89	5937	1.00	0.9152	
67 Dibromomethane	93	7.351	7.350	0.001	85	3044	1.00	0.9061	
69 1,4-Dioxane	88	7.386	7.386	0.000	1	1020	20.0	20.8	
70 Dichlorobromomethane	83	7.504	7.504	0.000	92	7497	1.00	0.9014	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	91	4553	2.00	1.78	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	92	8072	1.00	0.9084	
75 4-Methyl-2-pentanone (MIBK	43	8.061	8.060	0.001	92	7696	2.00	1.79	
76 Toluene	91	8.191	8.191	0.001	97	27889	1.00	1.11	
77 trans-1,3-Dichloropropene	75	8.404	8.403	0.001	88	5624	1.00	0.8986	
78 Ethyl methacrylate	69	8.487	8.486	0.001	91	3800	1.00	0.9405	
79 1,1,2-Trichloroethane	97	8.558	8.569	-0.011	84	3904	1.00	1.03	
80 Tetrachloroethene	164	8.664	8.664	0.000	87	4411	1.00	0.9712	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	90	7294	1.00	1.04	
82 2-Hexanone	43	8.782	8.782	0.000	94	6418	2.00	2.52	
84 Chlorodibromomethane	129	8.913	8.900	0.013	83	3343	1.00	0.8181	
85 Ethylene Dibromide	107	8.995	8.995	0.000	86	4127	1.00	1.11	
87 Chlorobenzene	112	9.410	9.409	0.001	90	14324	1.00	1.00	
88 1,1,1,2-Tetrachloroethane	131	9.481	9.480	0.001	60	4819	1.00	0.8644	
89 Ethylbenzene	106	9.492	9.492	0.000	98	8787	1.00	1.07	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	96	9650	1.00	1.01	
91 o-Xylene	106	9.930	9.930	0.000	94	10853	1.00	1.06	
92 Styrene	104	9.942	9.954	-0.012	94	13609	1.00	1.02	
93 Bromoform	173	10.120	10.119	0.001	43	1999	1.00	1.60	
94 Isopropylbenzene	105	10.238	10.238	0.000	94	28624	1.00	0.9807	
97 Bromobenzene	156	10.510	10.510	0.000	94	6749	1.00	1.13	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	72	6148	1.00	1.16	
98 1,2,3-Trichloropropane	110	10.545	10.557	-0.012	77	1994	1.00	1.22	
99 trans-1,4-Dichloro-2-buten	53	10.545	10.557	-0.012	58	1046	1.00	0.7307	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	7225	1.00	0.9505	
101 2-Chlorotoluene	126	10.664	10.664	0.000	94	5413	1.00	0.8414	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	91	23550	1.00	0.9170	
103 4-Chlorotoluene	126	10.758	10.758	0.000	96	5504	1.00	0.8925	
105 tert-Butylbenzene	119	11.007	11.007	0.000	89	17657	1.00	0.7612	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	92	21568	1.00	0.8522	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	94	27718	1.00	0.8251	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	98	12661	1.00	1.03	
111 4-Isopropyltoluene	119	11.315	11.314	0.001	94	23632	1.00	0.8551	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	89	14485	1.00	1.18	
115 n-Butylbenzene	91	11.658	11.658	0.000	95	22769	1.00	0.8605	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	90	12390	1.00	1.05	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	22	890	1.00	0.99	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	90	11667	1.00	1.29	
120 Hexachlorobutadiene	225	13.161	13.160	0.001	62	6024	1.00	1.09	
121 Naphthalene	128	13.232	13.231	0.001	97	17195	1.00	0.9443	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	94	9643	1.00	1.17	
S 134 1,2-Dichloroethene, Total	96				0		2.00	2.00	
S 135 1,3-Dichloropropene, Total	75				0		2.00	1.81	
S 136 Xylenes, Total	106				0		2.00	2.07	
S 137 Trihalomethanes, Total	1				0		4.00	4.28	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

vm50ss_00197	Amount Added:	0.10	Units: uL
VMRGAS_00097	Amount Added:	0.10	Units: uL
VMAROLISTDW_00095	Amount Added:	0.10	Units: uL
VMRPRIMW_00121	Amount Added:	0.10	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

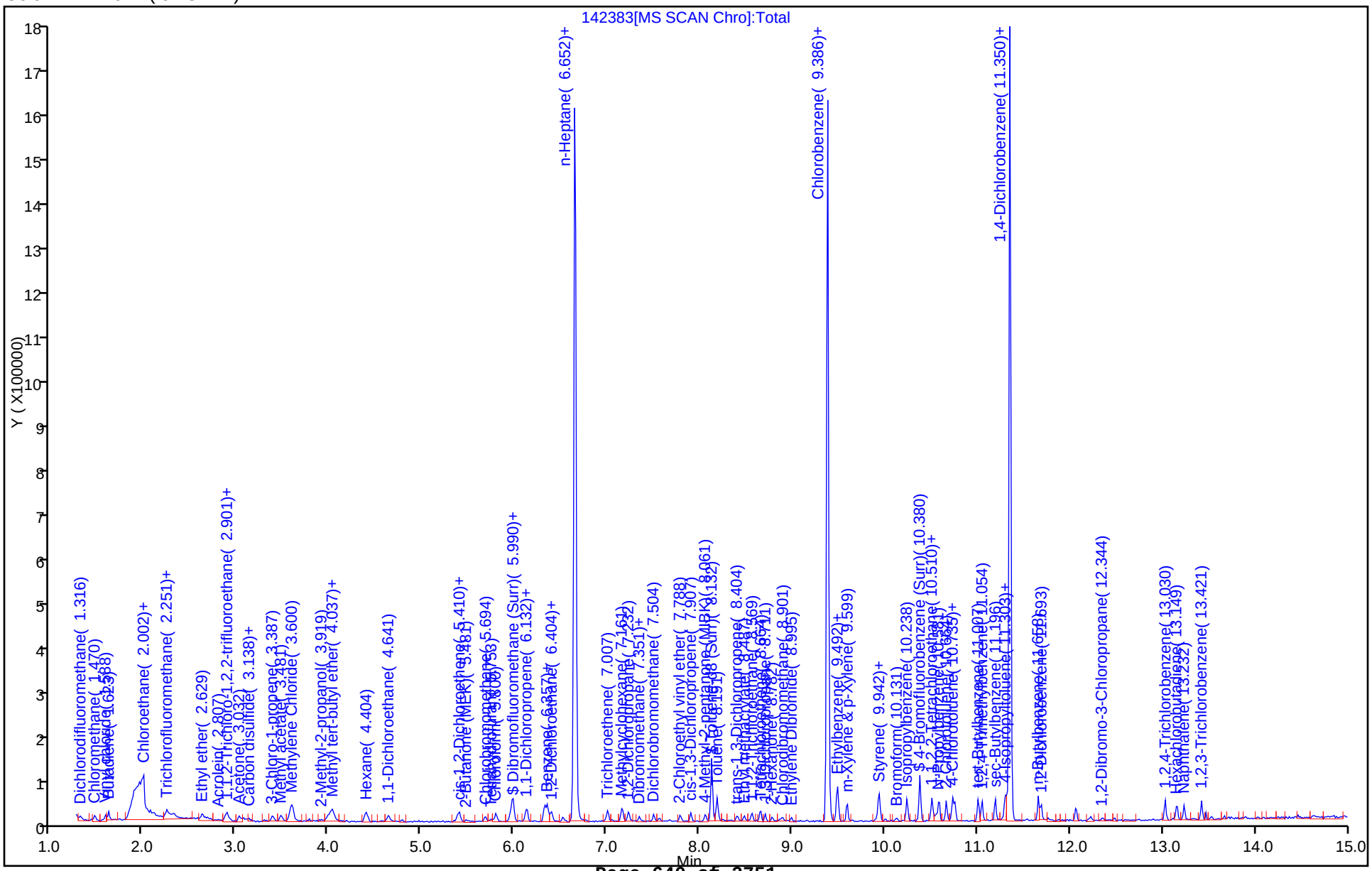
Report Date: 15-Apr-2015 13:05:48 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Injection Date:	13-Apr-2015 17:39:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-175604/7	UXM7071.D
Level 2	STD8260 240-175604/6	UXM7070.D
Level 3	STD8260 240-175604/5	UXM7069.D
Level 4	STD8260 240-175604/4	UXM7068.D
Level 5	STD8260 240-175604/3	UXM7067.D
Level 6	STD8260 240-175604/2	UXM7066.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1833 0.2041	0.1781	0.1744	0.1568	0.2090	Ave		0.1843			0.1000	10.6		15.0			
Chloromethane	0.2517 0.2544	0.2624	0.2546	0.2508	0.2480	Ave		0.2536			0.1000	1.9		15.0			
Vinyl chloride	0.2837 0.2921	0.2803	0.2773	0.2582	0.2802	Ave		0.2786			0.1000	4.0		15.0			
Butadiene	0.2508 0.2658	0.2588	0.2486	0.2172	0.2639	Ave		0.2509				7.1		15.0			
Bromomethane	0.1508 0.1269	0.1380	0.1275	0.1338	0.1289	Ave		0.1343			0.0500	6.8		15.0			
Chloroethane	0.1685 0.1630	0.1697	0.1592	0.1588	0.1615	Ave		0.1634				2.8		15.0			
Dichlorofluoromethane	0.3803 0.3626	0.3786	0.3496	0.3636	0.3596	Ave		0.3657				3.2		15.0			
Trichlorofluoromethane	0.2373 0.2626	0.2504	0.2297	0.2163	0.2607	Ave		0.2428			0.1000	7.5		15.0			
Ethyl ether	0.1803 0.1824	0.1847	0.1741	0.1841	0.1760	Ave		0.1803				2.4		15.0			
Acrolein	0.0215 0.0247	0.0233	0.0240	0.0216	0.0247	Ave		0.0233				6.2		15.0			
1,1-Dichloroethene	0.2005 0.2123	0.1917	0.1993	0.2051	0.2048	Ave		0.2023			0.1000	3.4		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1546 0.1634	0.1426	0.1497	0.1644	0.1685	Ave		0.1572			0.0500	6.3		15.0			
Acetone	0.0710 0.0550	0.0645	0.0573	0.0573	0.0576	Ave		0.0604			0.0500	10.1		15.0			
Iodomethane	0.3228 0.3200	0.3186	0.3109	0.3321	0.3049	Ave		0.3182				3.0		15.0			
Carbon disulfide	0.6144 0.6473	0.6200	0.6167	0.6180	0.6164	Ave		0.6221			0.1000	2.0		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1334 0.1427	0.1387	0.1342	0.1426	0.1349	Ave		0.1377				3.1		15.0			
Methyl acetate	0.1300 0.1383	0.1321	0.1294	0.1357	0.1337	Ave		0.1332			0.1000	2.6		15.0			
Methylene Chloride	0.3536 0.2403	0.2921	0.2540	0.2585	0.2339	Lin1	0.1164	0.2357			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.0132 0.0125	0.0133	0.0123	0.0127	0.0127	Ave		0.0128				3.0		15.0			
Acrylonitrile	0.0675 0.0726	0.0660	0.0653	0.0723	0.0711	Ave		0.0691				4.8		15.0			
trans-1,2-Dichloroethene	0.2473 0.2416	0.2540	0.2379	0.2443	0.2312	Ave		0.2427			0.1000	3.2		15.0			
Methyl tert-butyl ether	0.5747 0.6168	0.5772	0.5867	0.6059	0.5892	Ave		0.5917			0.1000	2.8		15.0			
Hexane	0.0550 0.0638	0.0504	0.0570	0.0601	0.0649	Ave		0.0585				9.4		15.0			
1,1-Dichloroethane	0.4018 0.4100	0.3831	0.3874	0.4100	0.3890	Ave		0.3969			0.1000	3.0		15.0			
Vinyl acetate	0.1646 0.1765	0.1621	0.1610	0.1725	0.1681	Ave		0.1675				3.6		15.0			
2-Butanone (MEK)	0.0747 0.0760	0.0750	0.0727	0.0760	0.0766	Ave		0.0752			0.0500	1.9		15.0			
cis-1,2-Dichloroethene	0.2507 0.2661	0.2645	0.2547	0.2694	0.2488	Ave		0.2590			0.1000	3.4		15.0			
2,2-Dichloropropane	0.2655 0.2497	0.2482	0.2589	0.2602	0.2434	Ave		0.2543				3.3		15.0			
Bromochloromethane	0.1265 0.1238	0.1168	0.1176	0.1275	0.1170	Ave		0.1215				4.1		15.0			
Tetrahydrofuran	0.0510 0.0477	0.0502	0.0452	0.0467	0.0464	Ave		0.0479				4.8		15.0			
Chloroform	0.3796 0.3964	0.3849	0.3953	0.4052	0.3705	Ave		0.3887				3.3		15.0			
1,1,1-Trichloroethane	0.2899 0.3024	0.2855	0.2972	0.3084	0.2910	Ave		0.2957			0.1000	2.9		15.0			
Cyclohexane	0.3496 0.3871	0.3268	0.3615	0.3732	0.3956	Ave		0.3656			0.1000	6.9		15.0			
1,1-Dichloropropene	0.2946 0.3099	0.3016	0.2962	0.2984	0.2972	Ave		0.2996				1.8		15.0			
Carbon tetrachloride	0.2280 0.2579	0.2402	0.2379	0.2447	0.2479	Ave		0.2428			0.1000	4.2		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0045 0.0044	0.0046	0.0043	0.0044	0.0044	Ave		0.0044				2.4		15.0			
1,2-Dichloroethane	0.2488 0.2792	0.2747	0.2705	0.2842	0.2650	Ave		0.2704			0.1000	4.6		15.0			
Benzene	0.9963 1.0421	0.9831	0.9902	1.0340	0.9655	Ave		1.0019			0.5000	3.0		15.0			
n-Heptane	0.4108 0.1539	0.2574	0.1957	0.1662	0.1711	Lin1	0.2434	0.1498							0.9980		0.9900
Trichloroethene	0.2482 0.2624	0.2520	0.2554	0.2625	0.2472	Ave		0.2546			0.2000	2.6		15.0			
Methylcyclohexane	0.3760 0.4084	0.3601	0.3743	0.3879	0.4198	Ave		0.3877			0.1000	5.8		15.0			
1,2-Dichloropropane	0.2116 0.2377	0.2235	0.2308	0.2357	0.2207	Ave		0.2267			0.1000	4.4		15.0			
Dibromomethane	0.1112 0.1252	0.1202	0.1186	0.1268	0.1197	Ave		0.1203				4.6		15.0			
1,4-Dioxane	0.0014 0.0017	0.0017	0.0017	0.0017	0.0017	Ave		0.0017				7.0		15.0			
Bromodichloromethane	0.2601 0.2993	0.2722	0.2736	0.2929	0.2728	Ave		0.2785			0.1000	5.3		15.0			
2-Chloroethyl vinyl ether	0.1069 0.1290	0.1150	0.1168	0.1249	0.1236	Ave		0.1194				6.7		15.0			
cis-1,3-Dichloropropene	0.2996 0.3589	0.3198	0.3178	0.3421	0.3297	Ave		0.3280			0.1500	6.3		15.0			
4-Methyl-2-pentanone (MIBK)	0.1423 0.1538	0.1486	0.1430	0.1525	0.1512	Ave		0.1486			0.0500	3.3		15.0			
Toluene	1.4247 1.5718	1.4555	1.4684	1.5094	1.4540	Ave		1.4806			0.4000	3.5		15.0			
trans-1,3-Dichloropropene	0.3439 0.4051	0.3727	0.3697	0.3854	0.3793	Ave		0.3760			0.1000	5.4		15.0			
Ethyl methacrylate	0.2923 0.3233	0.2909	0.2973	0.3095	0.3102	Ave		0.3039				4.2		15.0			
1,1,2-Trichloroethane	0.2707 0.2654	0.2634	0.2612	0.2725	0.2605	Ave		0.2656			0.1000	1.9		15.0			
1,3-Dichloropropane	0.4657 0.4872	0.4534	0.4672	0.4845	0.4670	Ave		0.4708				2.7		15.0			
Tetrachloroethene	0.2854 0.2886	0.2689	0.2748	0.2870	0.2778	Ave		0.2804			0.2000	2.8		15.0			
2-Hexanone	0.1440 0.1445	0.1434	0.1447	0.1443	0.1474	Ave		0.1447			0.0500	1.0		15.0			

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 | Calibration End Date: 04/08/2015 14:53 | Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.2611 0.3026	0.2588	0.2617	0.2728	0.2748	Ave		0.2720				6.0		15.0			
1,2-Dibromoethane	0.2394 0.2611	0.2528	0.2444	0.2649	0.2503	Ave		0.2521				3.8		15.0			
Chlorobenzene	0.9603 0.9689	0.9350	0.9438	0.9738	0.9128	Ave		0.9491			0.3000	2.4		15.0			
1,1,1,2-Tetrachloroethane	0.2861 0.3202	0.2998	0.2980	0.3138	0.2947	Ave		0.3021				4.2		15.0			
Ethylbenzene	0.4672 0.5352	0.5035	0.5112	0.5240	0.5046	Ave		0.5076				4.6		15.0			
m-Xylene & p-Xylene	0.5783 0.6653	0.6454	0.6325	0.6657	0.6261	Ave		0.6356				5.1		15.0			
o-Xylene	0.5843 0.6555	0.5765	0.6126	0.6501	0.6056	Ave		0.6141				5.3		15.0			
Styrene	0.9252 1.0625	0.9554	0.9576	1.0266	0.9787	Ave		0.9843			0.3000	5.2		15.0			
Bromoform	0.1498 0.1896	0.1497	0.1590	0.1714	0.1748	Ave		0.1657			0.1000	9.5		15.0			
Isopropylbenzene	1.5435 1.7660	1.5369	1.5930	1.6826	1.6262	Ave		1.6247			0.1000	5.4		15.0			
1,1,2,2-Tetrachloroethane	0.6061 0.5908	0.5888	0.5615	0.5956	0.5777	Ave		0.5868			0.3000	2.6		15.0			
Bromobenzene	0.7526 0.7383	0.7366	0.7011	0.7216	0.6869	Ave		0.7228				3.4		15.0			
1,2,3-Trichloropropane	0.1800 0.1810	0.1968	0.1757	0.1820	0.1785	Ave		0.1823				4.1		15.0			
trans-1,4-Dichloro-2-butene	0.1513 0.1508	0.1307	0.1391	0.1422	0.1464	Ave		0.1434				5.5		15.0			
N-Propylbenzene	0.7824 0.8278	0.7676	0.7975	0.7939	0.7805	Ave		0.7916				2.6		15.0			
2-Chlorotoluene	0.7373 0.6951	0.6650	0.6740	0.6840	0.6452	Ave		0.6834				4.6		15.0			
1,3,5-Trimethylbenzene	2.3143 2.5771	2.3696	2.3861	2.4000	2.3390	Ave		2.3977				3.9		15.0			
4-Chlorotoluene	0.7520 0.7364	0.7207	0.7475	0.7196	0.6860	Ave		0.7270				3.3		15.0			
tert-Butylbenzene	2.0967 2.2264	1.9952	2.0926	2.0850	2.0441	Ave		2.0900				3.7		15.0			
1,2,4-Trimethylbenzene	2.4434 2.6940	2.4789	2.4417	2.5599	2.4309	Ave		2.5081				4.1		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	3.0228 3.2181	2.8658	2.9969	3.0086	2.9700	Ave		3.0137				3.8		15.0			
1,3-Dichlorobenzene	1.4178 1.4588	1.4468	1.4062	1.4177	1.3387	Ave		1.4143			0.6000	3.0		15.0			
4-Isopropyltoluene	2.6290 2.8568	2.5110	2.5616	2.6250	2.5941	Ave		2.6296				4.6		15.0			
1,4-Dichlorobenzene	1.5483 1.4920	1.4035	1.4295	1.4519	1.3664	Ave		1.4486			0.5000	4.5		15.0			
n-Butylbenzene	2.0632 2.3894	2.1608	2.1481	2.2375	2.1731	Ave		2.1953				5.0		15.0			
1,2-Dichlorobenzene	1.3829 1.3600	1.3509	1.3013	1.3534	1.2795	Ave		1.3380			0.4000	2.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0879 0.1062	0.0925	0.0937	0.1035	0.1059	Ave		0.0983			0.0500	8.0		15.0			
1,2,4-Trichlorobenzene	0.8049 0.8643	0.8367	0.8059	0.8563	0.8197	Ave		0.8313			0.2000	3.1		15.0			
Hexachlorobutadiene	0.3756 0.3321	0.3394	0.3346	0.3519	0.3344	Ave		0.3447				4.9		15.0			
Naphthalene	1.7275 1.8957	1.7546	1.7541	1.8123	1.8417	Ave		1.7977				3.6		15.0			
1,2,3-Trichlorobenzene	0.7772 0.7381	0.7117	0.7428	0.7603	0.7300	Ave		0.7434				3.1		15.0			
Dibromofluoromethane (Surr)	0.2071 0.2051	0.2005	0.1961	0.1941	0.1965	Ave		0.1999				2.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2362 0.2240	0.2190	0.2141	0.2115	0.2138	Ave		0.2198				4.2		15.0			
Toluene-d8 (Surr)	1.1963 1.2683	1.1869	1.1733	1.1439	1.1943	Ave		1.1938				3.5		15.0			
4-Bromofluorobenzene (Surr)	0.4380 0.4362	0.4242	0.4298	0.4207	0.4229	Ave		0.4286				1.7		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-175604/7	UXM7071.D
Level 2	STD8260 240-175604/6	UXM7070.D
Level 3	STD8260 240-175604/5	UXM7069.D
Level 4	STD8260 240-175604/4	UXM7068.D
Level 5	STD8260 240-175604/3	UXM7067.D
Level 6	STD8260 240-175604/2	UXM7066.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	28917 1337941	55676	140857	242698	654342	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	39695 1668028	82030	205715	388184	776582	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	44743 1914766	87630	223994	399722	877355	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	39558 1742621	80915	200871	336247	826213	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	23786 832148	43161	103009	207068	403753	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	26576 1068302	53063	128633	245799	505635	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	59976 2377077	118360	282460	562834	1126131	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	37426 1721199	78305	185528	334848	816184	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	28439 1195543	57764	140678	285000	551195	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	16994 810121	36457	96810	166842	387150	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	31625 1391709	59936	161038	317431	641262	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	24378 1071088	44591	120932	254560	527554	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	22402 720650	40303	92528	177442	360826	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	50914 2097802	99607	251156	514079	954782	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	96908 4243718	193845	498244	956729	1930056	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	21041 935602	43357	108379	220761	422434	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	102515 4532585	206540	522740	1050530	2092779	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	55764 1575545	91345	205234	400235	732381	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	20864 821282	41529	99599	196624	398073	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	106416 4762499	206234	527388	1119754	2227630	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	39000 1584112	79405	192169	378226	724105	1.00 40.0	2.00	5.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	90640 4043206	180473	473972	937984	1844898	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	8682 418195	15768	46020	93096	203111	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	63377 2687459	119780	312956	634661	1218029	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	24926 1110740	48645	124883	256374	505225	0.960 38.4	1.92	4.80	9.60	19.2
2-Butanone (MEK)	FB	Ave	23553 995821	46903	117472	235342	479775	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	39548 1744211	82689	205785	417073	779088	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	41868 1637169	77591	209114	402860	762113	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	19945 811318	36532	95005	197438	366316	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	16100 625734	31410	73033	144627	290335	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	59879 2598769	120340	319367	627339	1160076	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	45727 1982397	89274	240082	477408	911244	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	55140 2537686	102189	292014	577795	1238714	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	46457 2031242	94286	239308	461974	930586	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	35954 1690925	75098	192165	378785	776323	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	17879 728819	35877	86934	168927	345672	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	39243 1830226	85876	218533	439901	829916	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	157136 6831596	307377	799946	1600731	3023331	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Lin1	64799 1008824	80485	158070	257320	535664	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	39145 1720443	78784	206338	406306	774022	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	59299 2677033	112582	302407	600527	1314375	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	33374 1558233	69884	186424	364937	691031	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	17545 820681	37594	95833	196259	374840	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	4528 216590	10888	27293	53729	107755	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	41017 1962005	85112	220994	453434	854238	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	33706 1691518	71924	188701	386667	774211	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	47246 2352543	99996	256701	529653	1032269	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	44881 2016114	92946	231016	472020	947026	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	158809 7321596	327977	836157	1657841	3233786	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	38332 1886900	83980	210531	423296	843701	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	32579 1506095	65551	169293	339950	689972	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	30179 1236313	59363	148725	299335	579355	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	51904 2269203	102163	266053	532175	1038725	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	31809 1344334	60595	156477	315179	617820	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	32101 1345845	64637	164796	316954	655516	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	29103 1409447	58315	149029	299624	611228	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	26687 1216021	56955	139164	290915	556631	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	107038 4513086	210696	537400	1069581	2030052	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	31888 1491712	67561	169683	344706	655526	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	52078 2492722	113464	291113	575507	1122373	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	64465 3099024	145431	360143	731190	1392483	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	65124 3053079	129904	348841	714012	1346892	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	103130 4949000	215294	545252	1127566	2176702	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	16692 882996	33744	90533	188261	388875	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	172044 8225855	346325	907101	1848075	3616868	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	36065 1553377	71837	179157	380619	739115	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	44780 1941323	89860	223701	461127	878811	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	10712 476037	24014	56075	116273	228346	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	9003 396411	15946	44369	90862	187283	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	46555 2176692	93650	254462	507345	998554	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	43871 1827779	81124	215043	437074	825480	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	137702 6776517	289090	761323	1533706	2992535	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	44743 1936347	87928	238520	459872	877636	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	124757 5854333	243411	667699	1332376	2615271	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	145383 7083933	302427	779068	1635840	3110140	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	179857 8462061	349623	956212	1922604	3799898	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	84359 3835946	176506	448685	905984	1712753	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	156428 7511918	306339	817341	1677489	3318892	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	92128 3923201	171223	456122	927811	1748229	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 175604

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2015 12:59 Calibration End Date: 04/08/2015 14:53 Calibration ID: 27788

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	122761 6282819	263622	685404	1429823	2780296	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	82283 3576090	164804	415221	864865	1637059	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5233 279200	11289	29908	66116	135520	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	47895 2272778	102074	257150	547207	1048708	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	22350 873236	41409	106764	224846	427869	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	102789 4984706	214063	559666	1158120	2356360	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	46243 1940882	86828	237020	485845	933941	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	32663 1344293	62674	158433	300503	615314	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	37257 1468188	68480	172978	327407	669473	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	133342 5907752	267445	668083	1256422	2656188	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	48826 2031763	95592	244718	462107	940483	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7066.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Apr-2015 12:59:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-002
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:36 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1638886	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	83	1164493	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	657371	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	1344293	40.0	41.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	1468188	40.0	40.8	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	5907752	40.0	42.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	2031763	40.0	40.7	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	1337941	40.0	44.3	
10 Chloromethane	50	1.769	1.769	0.000	99	1668028	40.0	40.1	
11 Vinyl chloride	62	1.888	1.888	0.000	98	1914766	40.0	41.9	
12 Butadiene	54	1.923	1.923	0.000	0	1742621	40.0	42.4	
13 Bromomethane	94	2.220	2.220	0.000	90	832148	40.0	37.8	
14 Chloroethane	64	2.326	2.327	-0.001	99	1068302	40.0	39.9	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	2377077	40.0	39.7	
16 Trichlorofluoromethane	101	2.575	2.564	0.011	97	1721199	40.0	43.3	
17 Ethyl ether	59	2.836	2.837	0.000	88	1195543	40.0	40.5	
18 Acrolein	56	2.943	2.943	0.000	100	810121	200.0	212.1	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	1391709	40.0	42.0	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	91	1071088	40.0	41.6	
21 Acetone	43	3.085	3.086	-0.001	76	720650	80.0	72.8	
23 Iodomethane	142	3.180	3.192	-0.012	96	2097802	40.0	40.2	
24 Carbon disulfide	76	3.251	3.263	-0.012	98	4243718	40.0	41.6	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	935602	40.0	41.4	
27 Methyl acetate	43	3.394	3.394	0.000	97	4532585	200.0	207.6	
28 Methylene Chloride	84	3.477	3.489	-0.012	89	1575545	40.0	40.3	
29 2-Methyl-2-propanol	59	3.571	3.572	-0.001	99	821282	400.0	391.6	
30 Acrylonitrile	53	3.690	3.690	0.000	99	4762499	400.0	420.3	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	99	1584112	40.0	39.8	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	4043206	40.0	41.7	
33 Hexane	86	3.987	3.999	-0.012	89	418195	40.0	43.6	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	2687459	40.0	41.3	
35 Vinyl acetate	43	4.141	4.141	0.000	97	1110740	38.4	40.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	1744211	40.0	41.1	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	57	995821	80.0	80.8	
41 2,2-Dichloropropane	77	4.603	4.610	-0.007	87	1637169	40.0	39.3	
45 Chlorobromomethane	128	4.805	4.805	0.000	94	811318	40.0	40.7	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	625734	80.0	79.7	
47 Chloroform	83	4.864	4.864	0.000	92	2598769	40.0	40.8	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	1982397	40.0	40.9	
49 Cyclohexane	56	5.101	5.113	-0.012	87	2537686	40.0	42.3	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	2031242	40.0	41.4	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	1690925	40.0	42.5	
52 Isobutyl alcohol	41	5.232	5.232	0.000	95	728819	1000.0	1001.0	
54 Benzene	78	5.362	5.362	0.000	94	6831596	40.0	41.6	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	1830226	40.0	41.3	
56 n-Heptane	57	5.576	5.588	-0.012	89	1008824	40.0	39.5	
58 Trichloroethene	130	5.908	5.908	0.000	96	1720443	40.0	41.2	
60 Methylcyclohexane	83	6.085	6.086	-0.001	89	2677033	40.0	42.1	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	97	1558233	40.0	41.9	
63 Dibromomethane	93	6.192	6.192	0.000	92	820681	40.0	41.6	
64 1,4-Dioxane	88	6.204	6.204	0.000	88	216590	800.0	795.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	1962005	40.0	43.0	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	1691518	80.0	86.5	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	2352543	40.0	43.8	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	96	2016114	80.0	82.8	
70 Toluene	91	7.022	7.023	-0.001	98	7321596	40.0	42.5	
71 trans-1,3-Dichloropropene	75	7.188	7.200	-0.012	90	1886900	40.0	43.1	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	87	1506095	40.0	42.6	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	89	1236313	40.0	40.0	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	88	2269203	40.0	41.4	
75 Tetrachloroethene	164	7.520	7.532	-0.012	95	1344334	40.0	41.2	
76 2-Hexanone	43	7.580	7.580	0.000	94	1345845	80.0	79.9	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	1409447	40.0	44.5	
80 Ethylene Dibromide	107	7.841	7.853	-0.012	99	1216021	40.0	41.4	
82 Chlorobenzene	112	8.303	8.303	0.000	96	4513086	40.0	40.8	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	1491712	40.0	42.4	
84 Ethylbenzene	106	8.398	8.398	0.000	98	2492722	40.0	42.2	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	96	3099024	40.0	41.9	
86 o-Xylene	106	8.884	8.884	0.000	96	3053079	40.0	42.7	
87 Styrene	104	8.896	8.896	0.000	93	4949000	40.0	43.2	
88 Bromoform	173	9.074	9.074	0.000	99	882996	40.0	45.8	
89 Isopropylbenzene	105	9.240	9.240	0.000	94	8225855	40.0	43.5	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	1553377	40.0	40.3	
93 Bromobenzene	156	9.536	9.537	-0.001	92	1941323	40.0	40.9	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	476037	40.0	39.7	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	78	396411	40.0	42.1	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	2176692	40.0	41.8	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	1827779	40.0	40.7	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	6776517	40.0	43.0	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	1936347	40.0	40.5	
102 tert-Butylbenzene	119	10.129	10.129	0.000	89	5854333	40.0	42.6	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	7083933	40.0	43.0	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	8462061	40.0	42.7	
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	97	3835946	40.0	41.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.485	10.485	0.000	97	7511918	40.0	43.5	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	96	3923201	40.0	41.2	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	6282819	40.0	43.5	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	3576090	40.0	40.7	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	91	279200	40.0	43.2	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	2272778	40.0	41.6	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	873236	40.0	38.5	
117 Naphthalene	128	12.750	12.750	0.000	96	4984706	40.0	42.2	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	1940882	40.0	39.7	
S 131 1,2-Dichloroethene, Total	96				0		80.0	80.9	
S 132 1,3-Dichloropropene, Total	75				0		80.0	86.9	
S 133 Xylenes, Total	106				0		80.0	84.6	
S 134 Trihalomethanes, Total	1				0		160.0	174.0	

Reagents:

VMRPRIMW_00120	Amount Added:	32.00	Units: uL
VMRGAS_00097	Amount Added:	32.00	Units: uL
VMAROLISTDW_00095	Amount Added:	32.00	Units: uL
vm50ss_00196	Amount Added:	32.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

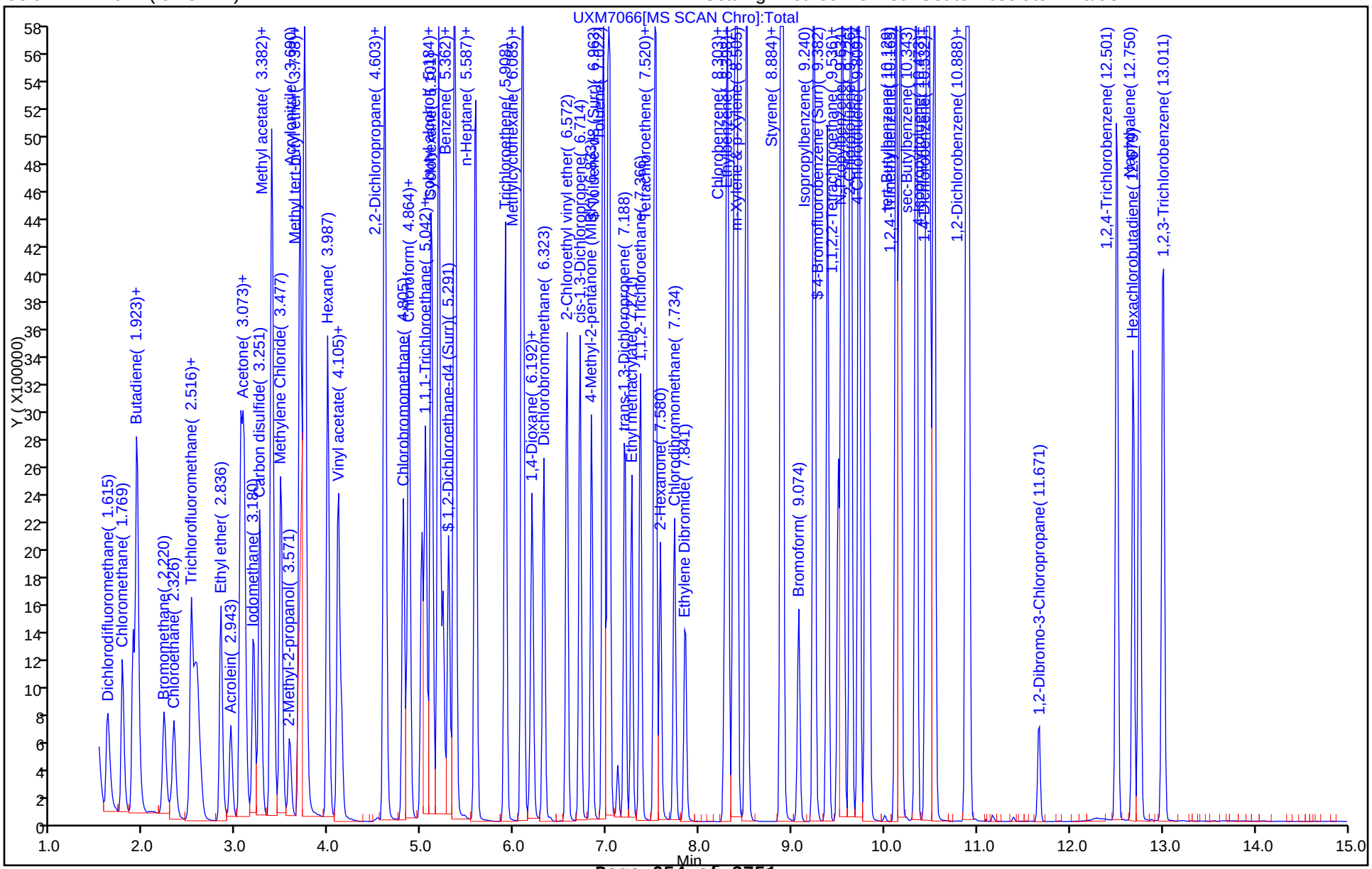
Report Date: 09-Apr-2015 07:46:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7066.D

Injection Date:	08-Apr-2015 12:59:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L6			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7067.D
Lims ID: STD8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Apr-2015 13:22:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-003
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:38 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1565654	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	83	1112052	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	92	639708	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	95	615314	20.0	19.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	669473	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	2656188	20.0	20.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	940483	20.0	19.7	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	654342	20.0	22.7	
10 Chloromethane	50	1.769	1.769	0.000	99	776582	20.0	19.6	
11 Vinyl chloride	62	1.888	1.888	0.000	98	877355	20.0	20.1	
12 Butadiene	54	1.935	1.935	0.000	0	826213	20.0	21.0	
13 Bromomethane	94	2.232	2.232	0.000	88	403753	20.0	19.2	
14 Chloroethane	64	2.326	2.326	0.000	99	505635	20.0	19.8	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	1126131	20.0	19.7	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	816184	20.0	21.5	
17 Ethyl ether	59	2.836	2.836	0.000	89	551195	20.0	19.5	
18 Acrolein	56	2.943	2.943	0.000	98	387150	100.0	106.1	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	641262	20.0	20.2	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.085	0.000	93	527554	20.0	21.4	
21 Acetone	43	3.085	3.085	0.000	99	360826	40.0	38.1	
23 Iodomethane	142	3.192	3.192	0.000	96	954782	20.0	19.2	
24 Carbon disulfide	76	3.263	3.263	0.000	98	1930056	20.0	19.8	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	422434	20.0	19.6	
27 Methyl acetate	43	3.394	3.394	0.000	97	2092779	100.0	100.4	
28 Methylene Chloride	84	3.489	3.489	0.000	88	732381	20.0	19.4	
29 2-Methyl-2-propanol	59	3.583	3.583	0.000	99	398073	200.0	198.7	
30 Acrylonitrile	53	3.690	3.690	0.000	99	2227630	200.0	205.8	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	98	724105	20.0	19.1	
31 Methyl tert-butyl ether	73	3.750	3.750	0.000	94	1844898	20.0	19.9	
33 Hexane	86	3.987	3.987	0.000	90	203111	20.0	22.2	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	1218029	20.0	19.6	
35 Vinyl acetate	43	4.141	4.141	0.000	96	505225	19.2	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	779088	20.0	19.2	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	60	479775	40.0	40.8	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	87	762113	20.0	19.1	
45 Chlorobromomethane	128	4.805	4.805	0.000	93	366316	20.0	19.3	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	290335	40.0	38.7	
47 Chloroform	83	4.864	4.864	0.000	92	1160076	20.0	19.1	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	911244	20.0	19.7	
49 Cyclohexane	56	5.113	5.113	0.000	87	1238714	20.0	21.6	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	930586	20.0	19.8	
51 Carbon tetrachloride	117	5.196	5.196	0.000	98	776323	20.0	20.4	
52 Isobutyl alcohol	41	5.232	5.232	0.000	92	345672	500.0	497.0	
54 Benzene	78	5.362	5.362	0.000	94	3023331	20.0	19.3	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	829916	20.0	19.6	
56 n-Heptane	57	5.588	5.588	0.000	87	535664	20.0	21.2	
58 Trichloroethene	130	5.908	5.908	0.000	97	774022	20.0	19.4	
60 Methylcyclohexane	83	6.098	6.098	0.000	89	1314375	20.0	21.7	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	76	691031	20.0	19.5	
63 Dibromomethane	93	6.192	6.192	0.000	97	374840	20.0	19.9	
64 1,4-Dioxane	88	6.204	6.204	0.000	90	107755	400.0	414.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	854238	20.0	19.6	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	774211	40.0	41.4	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	1032269	20.0	20.1	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	947026	40.0	40.7	
70 Toluene	91	7.022	7.022	0.000	98	3233786	20.0	19.6	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	90	843701	20.0	20.2	
72 Ethyl methacrylate	69	7.271	7.271	0.000	88	689972	20.0	20.4	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	579355	20.0	19.6	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	88	1038725	20.0	19.8	
75 Tetrachloroethene	164	7.532	7.532	0.000	92	617820	20.0	19.8	
76 2-Hexanone	43	7.580	7.580	0.000	95	655516	40.0	40.7	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	611228	20.0	20.2	
80 Ethylene Dibromide	107	7.853	7.853	0.000	98	556631	20.0	19.9	
82 Chlorobenzene	112	8.303	8.303	0.000	96	2030052	20.0	19.2	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	655526	20.0	19.5	
84 Ethylbenzene	106	8.398	8.398	0.000	98	1122373	20.0	19.9	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	96	1392483	20.0	19.7	
86 o-Xylene	106	8.884	8.884	0.000	94	1346892	20.0	19.7	
87 Styrene	104	8.896	8.896	0.000	94	2176702	20.0	19.9	
88 Bromoform	173	9.074	9.074	0.000	99	388875	20.0	21.1	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	3616868	20.0	20.0	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	739115	20.0	19.7	
93 Bromobenzene	156	9.536	9.536	0.000	92	878811	20.0	19.0	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	228346	20.0	19.6	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	75	187283	20.0	20.4	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	998554	20.0	19.7	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	825480	20.0	18.9	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	2992535	20.0	19.5	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	877636	20.0	18.9	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	2615271	20.0	19.6	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	3110140	20.0	19.4	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	3799898	20.0	19.7	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	98	1712753	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	3318892	20.0	19.7	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	1748229	20.0	18.9	
111 n-Butylbenzene	91	10.876	10.876	0.000	98	2780296	20.0	19.8	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	1637059	20.0	19.1	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	90	135520	20.0	21.6	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	1048708	20.0	19.7	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	427869	20.0	19.4	
117 Naphthalene	128	12.750	12.750	0.000	96	2356360	20.0	20.5	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	933941	20.0	19.6	
S 131 1,2-Dichloroethene, Total	96				0		40.0	38.3	
S 132 1,3-Dichloropropene, Total	75				0		40.0	40.3	
S 133 Xylenes, Total	106				0		40.0	39.4	
S 134 Trihalomethanes, Total	1				0		80.0	80.0	

Reagents:

VMRPRIMW_00120	Amount Added:	16.00	Units: uL
VMRGAS_00097	Amount Added:	16.00	Units: uL
VMAROLISTDW_00095	Amount Added:	16.00	Units: uL
vm50ss_stk_00065	Amount Added:	16.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

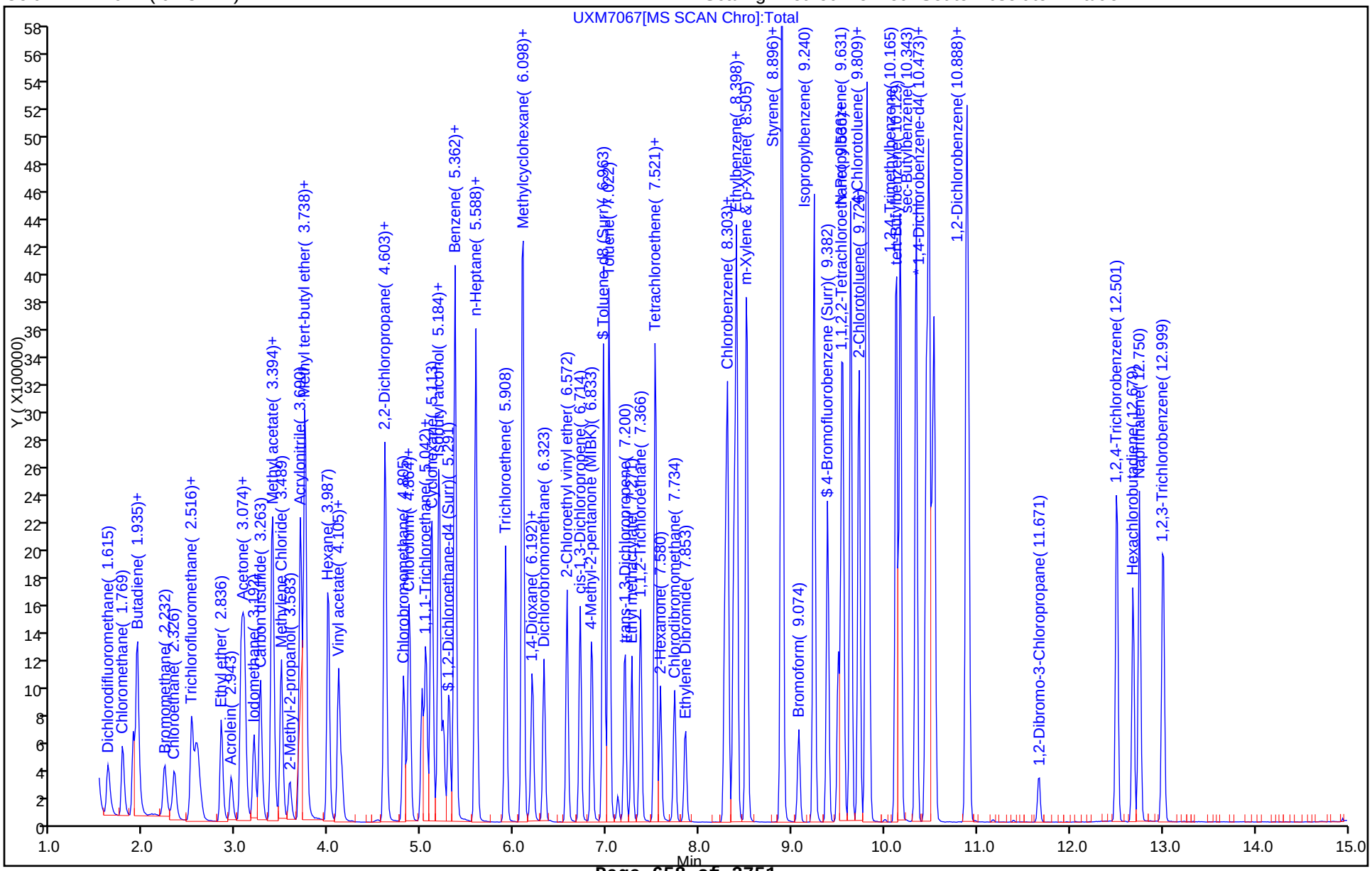
Report Date: 09-Apr-2015 07:46:39 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7067.D

Injection Date:	08-Apr-2015 13:22:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L5			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7068.D
Lims ID: STD8260 L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Apr-2015 13:44:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-004
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:40 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1548065	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	84	1098353	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	91	639037	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	95	300503	10.0	9.71	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	327407	10.0	9.62	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1256422	10.0	9.58	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	462107	10.0	9.82	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	242698	10.0	8.51	
10 Chloromethane	50	1.769	1.769	0.000	99	388184	10.0	9.89	
11 Vinyl chloride	62	1.888	1.888	0.000	98	399722	10.0	9.27	
12 Butadiene	54	1.923	1.923	0.000	0	336247	10.0	8.66	
13 Bromomethane	94	2.220	2.220	0.000	88	207068	10.0	9.96	
14 Chloroethane	64	2.327	2.327	0.000	99	245799	10.0	9.71	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	562834	10.0	9.94	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	99	334848	10.0	8.91	
17 Ethyl ether	59	2.837	2.837	0.000	89	285000	10.0	10.2	
18 Acrolein	56	2.943	2.943	0.000	98	166842	50.0	46.2	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	317431	10.0	10.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.086	3.086	0.000	92	254560	10.0	10.5	
21 Acetone	43	3.086	3.086	0.000	100	177442	20.0	19.0	
23 Iodomethane	142	3.192	3.192	0.000	96	514079	10.0	10.4	
24 Carbon disulfide	76	3.263	3.263	0.000	98	956729	10.0	9.93	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	220761	10.0	10.4	
27 Methyl acetate	43	3.394	3.394	0.000	97	1050530	50.0	50.9	
28 Methylene Chloride	84	3.489	3.489	0.000	88	400235	10.0	10.5	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	196624	100.0	99.3	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1119754	100.0	104.6	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	97	378226	10.0	10.1	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	937984	10.0	10.2	
33 Hexane	86	3.999	3.999	0.000	89	93096	10.0	10.3	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	634661	10.0	10.3	
35 Vinyl acetate	43	4.141	4.141	0.000	96	256374	9.60	9.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	79	417073	10.0	10.4	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	54	235342	20.0	20.2	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	86	402860	10.0	10.2	
45 Chlorobromomethane	128	4.805	4.805	0.000	91	197438	10.0	10.5	
46 Tetrahydrofuran	42	4.852	4.852	0.000	88	144627	20.0	19.5	
47 Chloroform	83	4.864	4.864	0.000	92	627339	10.0	10.4	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	477408	10.0	10.4	
49 Cyclohexane	56	5.113	5.113	0.000	87	577795	10.0	10.2	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	461974	10.0	9.96	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	378785	10.0	10.1	
52 Isobutyl alcohol	41	5.232	5.232	0.000	94	168927	250.0	245.6	
54 Benzene	78	5.362	5.362	0.000	94	1600731	10.0	10.3	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	439901	10.0	10.5	
56 n-Heptane	57	5.588	5.588	0.000	85	257320	10.0	9.47	
58 Trichloroethene	130	5.908	5.908	0.000	97	406306	10.0	10.3	
60 Methylcyclohexane	83	6.086	6.086	0.000	90	600527	10.0	10.0	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	91	364937	10.0	10.4	
63 Dibromomethane	93	6.192	6.192	0.000	93	196259	10.0	10.5	
64 1,4-Dioxane	88	6.204	6.204	0.000	91	53729	200.0	208.8	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	453434	10.0	10.5	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	90	386667	20.0	20.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	529653	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	472020	20.0	20.5	
70 Toluene	91	7.023	7.023	0.000	98	1657841	10.0	10.2	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	91	423296	10.0	10.2	
72 Ethyl methacrylate	69	7.272	7.272	0.000	87	339950	10.0	10.2	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	299335	10.0	10.3	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	91	532175	10.0	10.3	
75 Tetrachloroethene	164	7.532	7.532	0.000	94	315179	10.0	10.2	
76 2-Hexanone	43	7.580	7.580	0.000	94	316954	20.0	19.9	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	299624	10.0	10.0	
80 Ethylene Dibromide	107	7.853	7.853	0.000	97	290915	10.0	10.5	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1069581	10.0	10.3	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	344706	10.0	10.4	
84 Ethylbenzene	106	8.398	8.398	0.000	98	575507	10.0	10.3	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	731190	10.0	10.5	
86 o-Xylene	106	8.884	8.884	0.000	96	714012	10.0	10.6	
87 Styrene	104	8.896	8.896	0.000	92	1127566	10.0	10.4	
88 Bromoform	173	9.074	9.074	0.000	98	188261	10.0	10.3	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1848075	10.0	10.4	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	93	380619	10.0	10.2	
93 Bromobenzene	156	9.537	9.537	0.000	91	461127	10.0	9.98	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	116273	10.0	9.98	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	76	90862	10.0	9.92	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	507345	10.0	10.0	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	437074	10.0	10.0	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	1533706	10.0	10.0	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	459872	10.0	9.90	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	1332376	10.0	9.98	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	1635840	10.0	10.2	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	1922604	10.0	9.98	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	905984	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.485	10.485	0.000	97	1677489	10.0	9.98	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	94	927811	10.0	10.0	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1429823	10.0	10.2	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	864865	10.0	10.1	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	91	66116	10.0	10.5	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	547207	10.0	10.3	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	224846	10.0	10.2	
117 Naphthalene	128	12.750	12.750	0.000	96	1158120	10.0	10.1	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	485845	10.0	10.2	
S 131 1,2-Dichloroethene, Total	96				0		20.0	20.5	
S 132 1,3-Dichloropropene, Total	75				0		20.0	20.7	
S 133 Xylenes, Total	106				0		20.0	21.1	
S 134 Trihalomethanes, Total	1				0		40.0	41.3	

Reagents:

VMRPRIMW_00120	Amount Added:	8.00	Units: uL
VMRGAS_00097	Amount Added:	8.00	Units: uL
VMAROLISTDW_00095	Amount Added:	8.00	Units: uL
vm50ss_stk_00065	Amount Added:	8.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

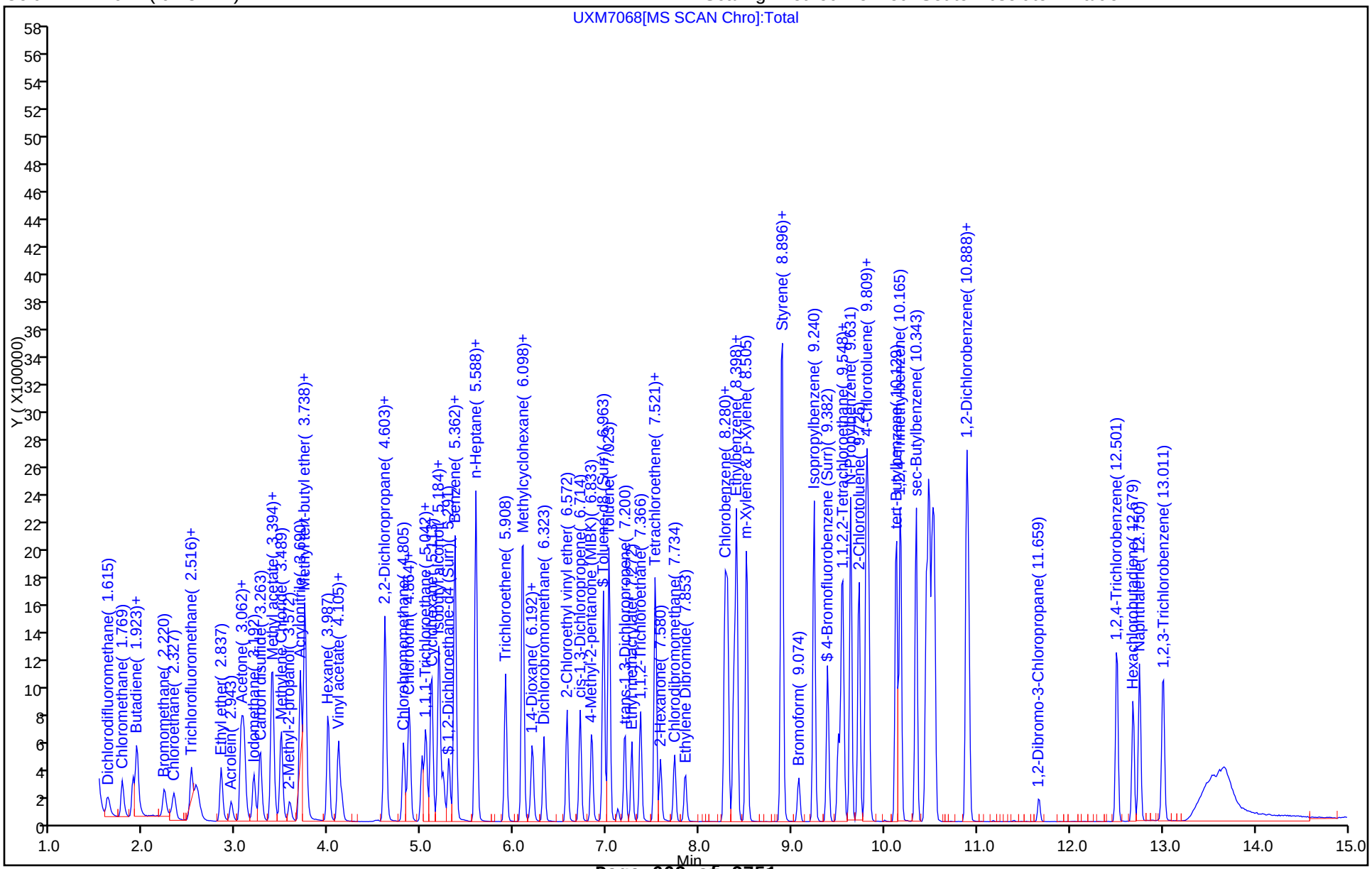
Report Date: 09-Apr-2015 07:46:41 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7068.D

Injection Date:	08-Apr-2015 13:44:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7069.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Apr-2015 14:07:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-005
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:41 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.588	5.588	0.000	99	1615711	10.0	10.0	
*	2 Chlorobenzene-d5	117	8.280	8.280	0.000	85	1138838	10.0	10.0	
*	3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	92	638139	10.0	10.0	
$	4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	158433	5.00	4.91	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	172978	5.00	4.87	
$	6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	668083	5.00	4.91	
$	7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	244718	5.00	5.01	
	9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	140857	5.00	4.73	
	10 Chloromethane	50	1.769	1.769	0.000	99	205715	5.00	5.02	
	11 Vinyl chloride	62	1.888	1.888	0.000	98	223994	5.00	4.98	
	12 Butadiene	54	1.935	1.923	0.012	0	200871	5.00	4.96	
	13 Bromomethane	94	2.232	2.220	0.012	90	103009	5.00	4.75	
	14 Chloroethane	64	2.338	2.327	0.011	99	128633	5.00	4.87	
	15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	282460	5.00	4.78	
	16 Trichlorofluoromethane	101	2.564	2.564	0.000	97	185528	5.00	4.73	
	17 Ethyl ether	59	2.836	2.837	0.000	89	140678	5.00	4.83	
	18 Acrolein	56	2.943	2.943	0.000	96	96810	25.0	25.7	
	19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	161038	5.00	4.93	
	20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	91	120932	5.00	4.76	
	21 Acetone	43	3.085	3.086	-0.001	71	92528	10.0	9.48	
	23 Iodomethane	142	3.192	3.192	0.000	96	251156	5.00	4.88	
	24 Carbon disulfide	76	3.263	3.263	0.000	98	498244	5.00	4.96	
	26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	108379	5.00	4.87	
	27 Methyl acetate	43	3.394	3.394	0.000	97	522740	25.0	24.3	
	28 Methylene Chloride	84	3.489	3.489	0.000	89	205234	5.00	4.90	
	29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	99599	50.0	48.2	
	30 Acrylonitrile	53	3.690	3.690	0.000	98	527388	50.0	47.2	
	32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	67	192169	5.00	4.90	
	31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	473972	5.00	4.96	
	33 Hexane	86	3.987	3.999	-0.012	89	46020	5.00	4.87	
	34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	312956	5.00	4.88	
	35 Vinyl acetate	43	4.141	4.141	0.000	97	124883	4.80	4.62	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	205785	5.00	4.92	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	54	117472	10.0	9.67	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	85	209114	5.00	5.09	
45 Chlorobromomethane	128	4.805	4.805	0.000	93	95005	5.00	4.84	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	73033	10.0	9.44	
47 Chloroform	83	4.864	4.864	0.000	93	319367	5.00	5.09	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	97	240082	5.00	5.02	
49 Cyclohexane	56	5.113	5.113	0.000	86	292014	5.00	4.94	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	239308	5.00	4.94	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	192165	5.00	4.90	
52 Isobutyl alcohol	41	5.232	5.232	0.000	92	86934	125.0	121.1	
54 Benzene	78	5.362	5.362	0.000	94	799946	5.00	4.94	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	218533	5.00	5.00	
56 n-Heptane	57	5.588	5.588	0.000	88	158070	5.00	4.91	
58 Trichloroethene	130	5.908	5.908	0.000	96	206338	5.00	5.02	
60 Methylcyclohexane	83	6.086	6.086	0.000	90	302407	5.00	4.83	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	94	186424	5.00	5.09	
63 Dibromomethane	93	6.192	6.192	0.000	93	95833	5.00	4.93	
64 1,4-Dioxane	88	6.204	6.204	0.000	40	27293	100.0	101.6	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	220994	5.00	4.91	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	188701	10.0	9.78	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	256701	5.00	4.84	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	231016	10.0	9.62	
70 Toluene	91	7.023	7.023	-0.001	98	836157	5.00	4.96	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	90	210531	5.00	4.92	
72 Ethyl methacrylate	69	7.272	7.272	0.000	88	169293	5.00	4.89	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	148725	5.00	4.92	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	88	266053	5.00	4.96	
75 Tetrachloroethene	164	7.532	7.532	0.000	91	156477	5.00	4.90	
76 2-Hexanone	43	7.580	7.580	0.000	96	164796	10.0	10.0	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	149029	5.00	4.81	
80 Ethylene Dibromide	107	7.853	7.853	0.000	98	139164	5.00	4.85	
82 Chlorobenzene	112	8.303	8.303	0.000	95	537400	5.00	4.97	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	95	169683	5.00	4.93	
84 Ethylbenzene	106	8.398	8.398	0.000	98	291113	5.00	5.04	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	360143	5.00	4.98	
86 o-Xylene	106	8.884	8.884	0.000	94	348841	5.00	4.99	
87 Styrene	104	8.896	8.896	0.000	93	545252	5.00	4.86	
88 Bromoform	173	9.074	9.074	0.000	98	90533	5.00	4.80	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	907101	5.00	4.90	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	95	179157	5.00	4.78	
93 Bromobenzene	156	9.537	9.537	-0.001	93	223701	5.00	4.85	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	56075	5.00	4.82	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	74	44369	5.00	4.85	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	254462	5.00	5.04	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	215043	5.00	4.93	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	761323	5.00	4.98	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	238520	5.00	5.14	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	667699	5.00	5.01	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	779068	5.00	4.87	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	956212	5.00	4.97	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	448685	5.00	4.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.473	10.485	-0.012	97	817341	5.00	4.87	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	96	456122	5.00	4.93	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	685404	5.00	4.89	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	99	415221	5.00	4.86	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	88	29908	5.00	4.77	
115 1,2,4-Trichlorobenzene	180	12.501	12.513	-0.012	94	257150	5.00	4.85	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	106764	5.00	4.85	
117 Naphthalene	128	12.750	12.750	0.000	96	559666	5.00	4.88	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	237020	5.00	5.00	
S 131 1,2-Dichloroethene, Total	96				0		10.0	9.82	
S 132 1,3-Dichloropropene, Total	75				0		10.0	9.76	
S 133 Xylenes, Total	106				0		10.0	9.96	
S 134 Trihalomethanes, Total	1				0		20.0	19.6	

Reagents:

VMRPRIMW_00120	Amount Added:	4.00	Units: uL
VMRGAS_00097	Amount Added:	4.00	Units: uL
VMAROLISTDW_00095	Amount Added:	4.00	Units: uL
vm50ss_stk_00065	Amount Added:	4.00	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

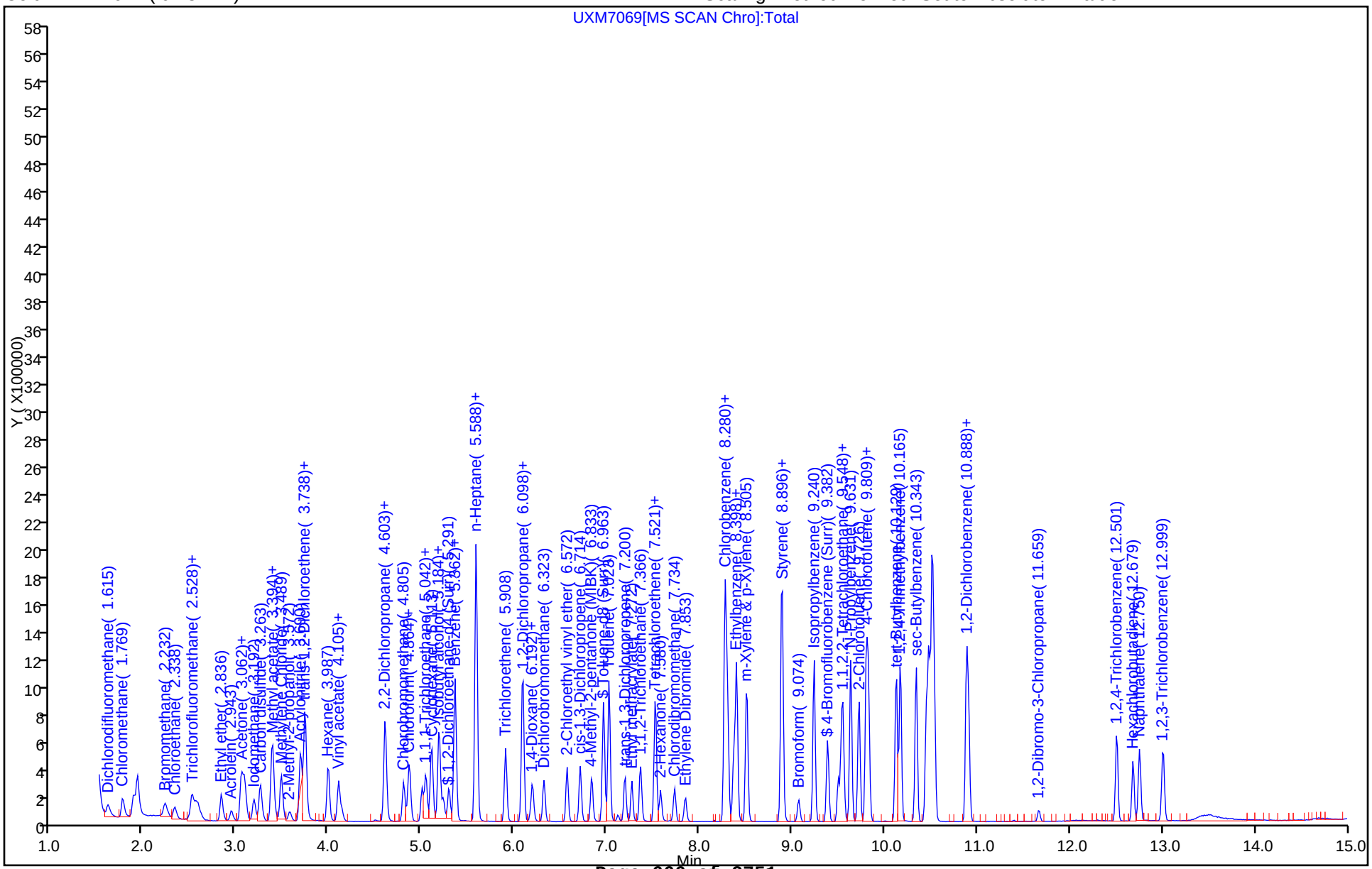
Report Date: 09-Apr-2015 07:46:42 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7069.D

Injection Date:	08-Apr-2015 14:07:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L3			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7070.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Apr-2015 14:30:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-006
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:43 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: quayler Date: 09-Apr-2015 07:37:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1563330	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	84	1126692	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	609997	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	62674	2.00	2.01	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	68480	2.00	1.99	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	267445	2.00	1.99	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	95592	2.00	1.98	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	55676	2.00	1.93	
10 Chloromethane	50	1.769	1.769	0.000	99	82030	2.00	2.07	
11 Vinyl chloride	62	1.888	1.888	0.000	98	87630	2.00	2.01	
12 Butadiene	54	1.923	1.923	0.000	0	80915	2.00	2.06	
13 Bromomethane	94	2.232	2.220	0.012	89	43161	2.00	2.06	
14 Chloroethane	64	2.338	2.327	0.011	98	53063	2.00	2.08	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	118360	2.00	2.07	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	98	78305	2.00	2.06	
17 Ethyl ether	59	2.836	2.837	0.000	92	57764	2.00	2.05	
18 Acrolein	56	2.943	2.943	0.000	96	36457	10.0	10.0	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	98	59936	2.00	1.90	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	89	44591	2.00	1.81	
21 Acetone	43	3.097	3.086	0.011	93	40303	4.00	4.27	
23 Iodomethane	142	3.192	3.192	0.000	96	99607	2.00	2.00	
24 Carbon disulfide	76	3.263	3.263	0.000	98	193845	2.00	1.99	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	43357	2.00	2.01	
27 Methyl acetate	43	3.394	3.394	0.000	97	206540	10.0	9.92	
28 Methylene Chloride	84	3.489	3.489	0.000	90	91345	2.00	1.99	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	41529	20.0	20.8	
30 Acrylonitrile	53	3.690	3.690	0.000	99	206234	20.0	19.1	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	70	79405	2.00	2.09	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	95	180473	2.00	1.95	
33 Hexane	86	3.987	3.999	-0.012	89	15768	2.00	1.72	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	119780	2.00	1.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	48645	1.92	1.86	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	82	82689	2.00	2.04	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	53	46903	4.00	3.99	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	88	77591	2.00	1.95	
45 Chlorobromomethane	128	4.805	4.805	0.000	89	36532	2.00	1.92	
46 Tetrahydrofuran	42	4.852	4.852	0.000	87	31410	4.00	4.20	
47 Chloroform	83	4.864	4.864	0.000	92	120340	2.00	1.98	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	89274	2.00	1.93	
49 Cyclohexane	56	5.101	5.113	-0.012	86	102189	2.00	1.79	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	94286	2.00	2.01	
51 Carbon tetrachloride	117	5.196	5.196	0.000	95	75098	2.00	1.98	
52 Isobutyl alcohol	41	5.244	5.232	0.012	98	35877	50.0	51.7	
54 Benzene	78	5.362	5.362	0.000	95	307377	2.00	1.96	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	85876	2.00	2.03	
56 n-Heptane	57	5.588	5.588	0.000	39	80485	2.00	1.81	
58 Trichloroethene	130	5.908	5.908	0.000	96	78784	2.00	1.98	
60 Methylcyclohexane	83	6.086	6.086	0.000	87	112582	2.00	1.86	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	78	69884	2.00	1.97	
63 Dibromomethane	93	6.192	6.192	0.000	89	37594	2.00	2.00	
64 1,4-Dioxane	88	6.204	6.204	0.000	37	10888	40.0	41.9	
65 Dichlorobromomethane	83	6.323	6.323	0.000	100	85112	2.00	1.96	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	71924	4.00	3.85	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	99996	2.00	1.95	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	92946	4.00	4.00	
70 Toluene	91	7.022	7.023	-0.001	98	327977	2.00	1.97	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	91	83980	2.00	1.98	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	65551	2.00	1.91	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	59363	2.00	1.98	
74 1,3-Dichloropropane	76	7.521	7.521	-0.001	88	102163	2.00	1.93	
75 Tetrachloroethene	164	7.532	7.532	0.000	90	60595	2.00	1.92	
76 2-Hexanone	43	7.580	7.580	0.000	94	64637	4.00	3.96	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	58315	2.00	1.90	
80 Ethylene Dibromide	107	7.853	7.853	0.000	99	56955	2.00	2.00	
82 Chlorobenzene	112	8.303	8.303	0.000	96	210696	2.00	1.97	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	92	67561	2.00	1.98	
84 Ethylbenzene	106	8.398	8.398	0.000	97	113464	2.00	1.98	
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	98	145431	2.00	2.03	
86 o-Xylene	106	8.884	8.884	0.000	96	129904	2.00	1.88	
87 Styrene	104	8.896	8.896	0.000	92	215294	2.00	1.94	
88 Bromoform	173	9.074	9.074	0.000	97	33744	2.00	1.81	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	346325	2.00	1.89	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	95	71837	2.00	2.01	
93 Bromobenzene	156	9.536	9.537	-0.001	93	89860	2.00	2.04	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	24014	2.00	2.16	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	69	15946	2.00	1.82	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	93650	2.00	1.94	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	81124	2.00	1.95	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	289090	2.00	1.98	
100 4-Chlorotoluene	126	9.821	9.821	0.000	97	87928	2.00	1.98	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	243411	2.00	1.91	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	302427	2.00	1.98	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	349623	2.00	1.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	96	176506	2.00	2.05	
107 4-Isopropyltoluene	119	10.485	10.485	0.000	97	306339	2.00	1.91	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	94	171223	2.00	1.94	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	263622	2.00	1.97	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	98	164804	2.00	2.02	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	81	11289	2.00	1.88	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	93	102074	2.00	2.01	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	95	41409	2.00	1.97	
117 Naphthalene	128	12.750	12.750	0.000	96	214063	2.00	1.95	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	86828	2.00	1.91	
S 131 1,2-Dichloroethene, Total	96				0		4.00	4.13	
S 132 1,3-Dichloropropene, Total	75				0		4.00	3.93	
S 133 Xylenes, Total	106				0		4.00	3.91	
S 134 Trihalomethanes, Total	1				0		8.00	7.65	

Reagents:

VMRPRIMW_00120	Amount Added:	1.60	Units: uL
VMRGAS_00097	Amount Added:	1.60	Units: uL
VMAROLISTDW_00095	Amount Added:	1.60	Units: uL
vm50ss_stk_00065	Amount Added:	1.60	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

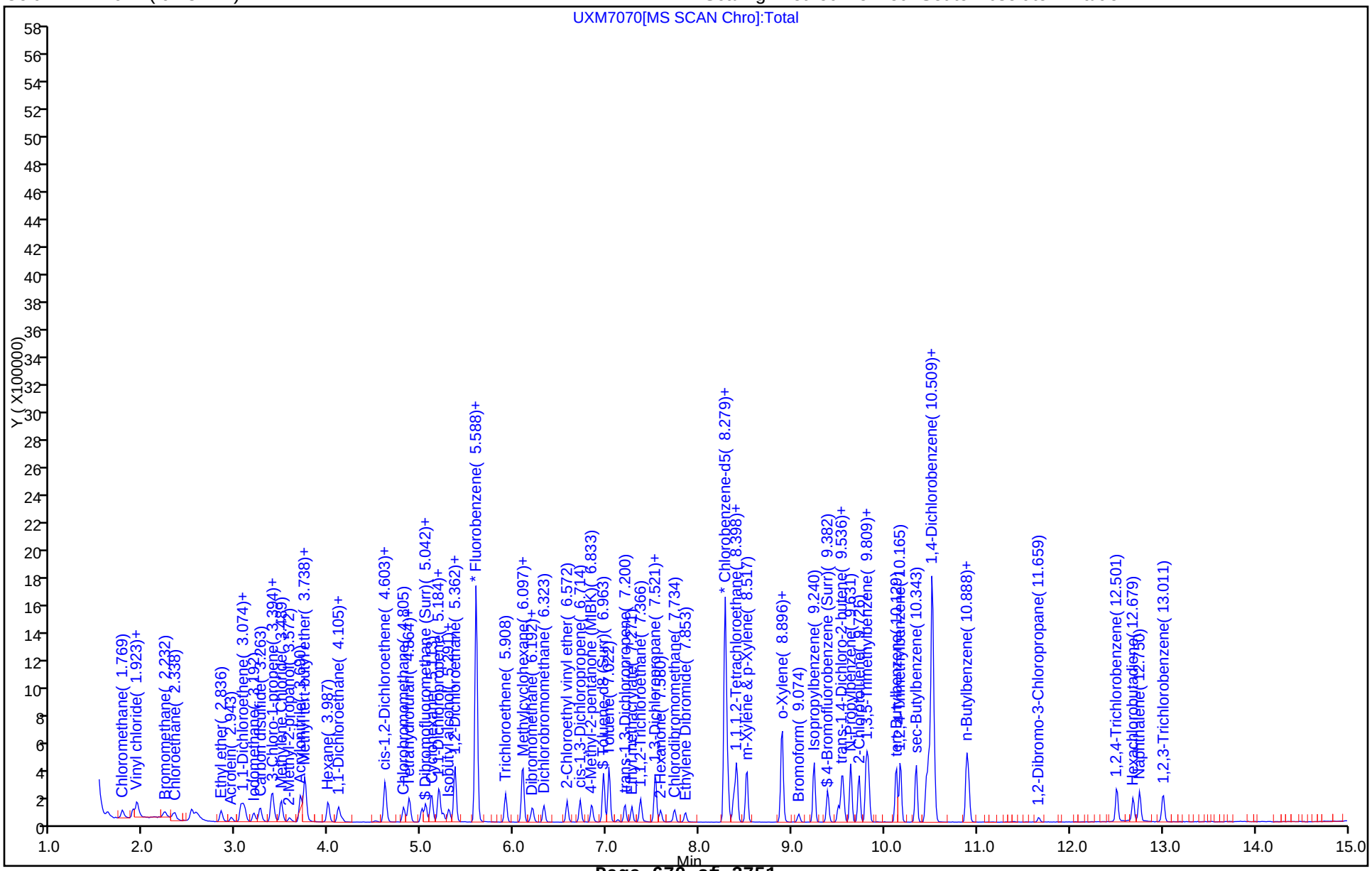
Report Date: 09-Apr-2015 07:46:44 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7070.D

Injection Date:	08-Apr-2015 14:30:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7071.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Apr-2015 14:53:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-007
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:44 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: quayler Date: 09-Apr-2015 07:37:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1577216	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	84	1114650	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	595011	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	32663	1.00	1.04	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	37257	1.00	1.07	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	133342	1.00	1.00	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	91	48826	1.00	1.02	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	28917	1.00	0.99	
10 Chloromethane	50	1.769	1.769	0.000	98	39695	1.00	0.99	
11 Vinyl chloride	62	1.888	1.888	0.000	96	44743	1.00	1.02	
12 Butadiene	54	1.935	1.923	0.012	0	39558	1.00	1.00	
13 Bromomethane	94	2.243	2.220	0.023	90	23786	1.00	1.12	
14 Chloroethane	64	2.326	2.327	-0.001	82	26576	1.00	1.03	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	59976	1.00	1.04	
16 Trichlorofluoromethane	101	2.564	2.564	0.000	94	37426	1.00	0.9772	
17 Ethyl ether	59	2.836	2.837	0.000	87	28439	1.00	1.00	
18 Acrolein	56	2.943	2.943	0.000	95	16994	5.00	4.62	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	31625	1.00	0.99	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	90	24378	1.00	0.9833	
21 Acetone	43	3.097	3.086	0.011	76	22402	2.00	2.35	
23 Iodomethane	142	3.192	3.192	0.000	96	50914	1.00	1.01	
24 Carbon disulfide	76	3.263	3.263	0.000	99	96908	1.00	0.9876	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	21041	1.00	0.9685	
27 Methyl acetate	43	3.394	3.394	0.000	96	102515	5.00	4.88	
28 Methylene Chloride	84	3.488	3.489	-0.001	93	55764	1.00	1.01	
29 2-Methyl-2-propanol	59	3.583	3.572	0.011	98	20864	10.0	10.3	
30 Acrylonitrile	53	3.702	3.690	0.012	100	106416	10.0	9.76	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	77	39000	1.00	1.02	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	93	90640	1.00	0.9712	
33 Hexane	86	3.998	3.999	-0.001	88	8682	1.00	0.9403	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	63377	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	24926	0.9600	0.9437	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	81	39548	1.00	0.9680	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	52	23553	2.00	1.99	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	91	41868	1.00	1.04	
45 Chlorobromomethane	128	4.805	4.805	0.000	92	19945	1.00	1.04	
46 Tetrahydrofuran	42	4.852	4.852	0.000	82	16100	2.00	2.13	
47 Chloroform	83	4.864	4.864	0.000	94	59879	1.00	0.9768	
48 1,1,1-Trichloroethane	97	5.054	5.042	0.012	98	45727	1.00	0.9803	
49 Cyclohexane	56	5.113	5.113	0.000	85	55140	1.00	0.9561	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	97	46457	1.00	0.9830	
51 Carbon tetrachloride	117	5.196	5.196	0.000	94	35954	1.00	0.9390	
52 Isobutyl alcohol	41	5.244	5.232	0.012	91	17879	25.0	25.5	
54 Benzene	78	5.362	5.362	0.000	94	157136	1.00	0.99	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	39243	1.00	0.9202	
56 n-Heptane	57	5.587	5.588	-0.001	38	64799	1.00	1.12	
58 Trichloroethene	130	5.908	5.908	0.000	94	39145	1.00	0.9748	
60 Methylcyclohexane	83	6.097	6.086	0.011	87	59299	1.00	0.9697	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	78	33374	1.00	0.9335	
63 Dibromomethane	93	6.192	6.192	0.000	90	17545	1.00	0.9247	
64 1,4-Dioxane	88	6.204	6.204	0.000	37	4528	20.0	17.3	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	41017	1.00	0.9339	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	33706	2.00	1.79	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	96	47246	1.00	0.9134	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	94	44881	2.00	1.92	
70 Toluene	91	7.022	7.023	-0.001	99	158809	1.00	0.9622	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	92	38332	1.00	0.9146	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	90	32579	1.00	0.9617	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	87	30179	1.00	1.02	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	87	51904	1.00	0.9890	
75 Tetrachloroethene	164	7.520	7.532	-0.012	89	31809	1.00	1.02	
76 2-Hexanone	43	7.580	7.580	0.000	94	32101	2.00	1.99	
78 Chlorodibromomethane	129	7.734	7.734	0.000	91	29103	1.00	0.9600	
80 Ethylene Dibromide	107	7.852	7.853	-0.001	99	26687	1.00	0.9496	
82 Chlorobenzene	112	8.303	8.303	0.000	96	107038	1.00	1.01	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	90	31888	1.00	0.9469	
84 Ethylbenzene	106	8.398	8.398	0.000	98	52078	1.00	0.9204	
85 m-Xylene & p-Xylene	106	8.516	8.505	0.011	96	64465	1.00	0.9100	
86 o-Xylene	106	8.884	8.884	0.000	95	65124	1.00	0.9514	
87 Styrene	104	8.896	8.896	0.000	93	103130	1.00	0.9400	
88 Bromoform	173	9.074	9.074	0.000	96	16692	1.00	0.9037	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	172044	1.00	0.9500	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	92	36065	1.00	1.03	
93 Bromobenzene	156	9.536	9.537	-0.001	93	44780	1.00	1.04	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	82	10712	1.00	0.9873	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	73	9003	1.00	1.06	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	46555	1.00	0.9884	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	43871	1.00	1.08	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	137702	1.00	0.9652	
100 4-Chlorotoluene	126	9.821	9.821	0.000	96	44743	1.00	1.03	
102 tert-Butylbenzene	119	10.129	10.129	0.000	89	124757	1.00	1.00	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	145383	1.00	0.9742	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	179857	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	95	84359	1.00	1.00	
107 4-Isopropyltoluene	119	10.473	10.485	-0.012	97	156428	1.00	1.00	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	95	92128	1.00	1.07	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	122761	1.00	0.9398	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	98	82283	1.00	1.03	
113 1,2-Dibromo-3-Chloropropan	157	11.659	11.671	-0.012	79	5233	1.00	0.8947	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	91	47895	1.00	0.9683	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	92	22350	1.00	1.09	
117 Naphthalene	128	12.750	12.750	0.000	97	102789	1.00	0.9610	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	46243	1.00	1.05	
S 131 1,2-Dichloroethene, Total	96				0		2.00	1.99	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.83	
S 133 Xylenes, Total	106				0		2.00	1.86	
S 134 Trihalomethanes, Total	1				0		4.00	3.77	

Reagents:

VMRPRIMW_00120	Amount Added:	0.80	Units: uL
VMRGAS_00097	Amount Added:	0.80	Units: uL
VMAROLISTDW_00095	Amount Added:	0.80	Units: uL
vm50ss_stk_00065	Amount Added:	0.80	Units: uL
VM50IS_00048	Amount Added:	1.00	Units: uL

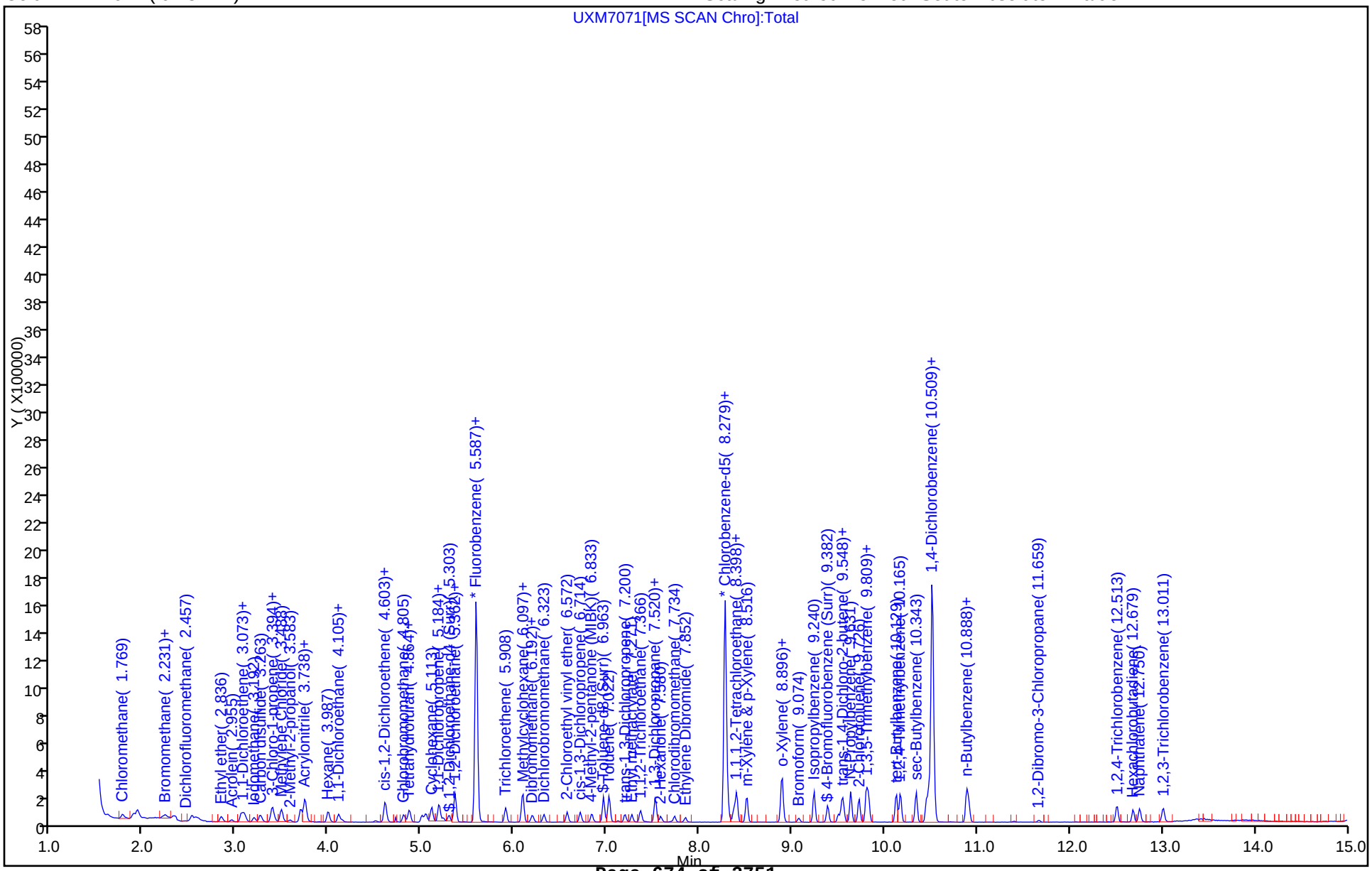
Report Date: 09-Apr-2015 07:46:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7071.D

Injection Date:	08-Apr-2015 14:53:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	STD8260 L1			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-170352/10	UX86161.D
Level 2	STD8260 240-170352/9	UX86160.D
Level 3	STD8260 240-170352/8	UX86159.D
Level 4	STD8260 240-170352/7	UX86158.D
Level 5	ICIS 240-170352/6	UX86157.D
Level 6	STD8260 240-170352/5	UX86156.D
Level 7	STD8260 240-170352/4	UX86155.D
Level 8	STD8260 240-170352/3	UX86154.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1564 0.1887	0.1715 0.1985	0.1946 0.1840	0.2066	0.1844	Ave		0.1856			0.1000	8.5		15.0			
Chloromethane	0.2048 0.2108	0.2277 0.2314	0.2332 0.2083	0.2289	0.2224	Ave		0.2209			0.1000	5.1		15.0			
Vinyl chloride	0.1478 0.1529	0.1775 0.1608	0.1676 0.1598	0.1858	0.1579	Ave		0.1638			0.1000	7.7		15.0			
Bromomethane	0.1071 0.0870	0.1172 0.0823	0.1087 0.0632	0.1164	0.1042	Qua	0.0723	0.0985	-0.000178		0.0500				0.9990		0.9900
Chloroethane	0.0677 0.0859	0.1085 0.0784	0.0892 0.0635	0.1049	0.0947	Qua	0.0366	0.0931	-0.000149						1.0000		0.9900
Dichlorofluoromethane	0.2675 0.2181	0.2484 0.2099	0.2416 0.1876	0.2554	0.2243	Ave		0.2316				11.0		15.0			
Trichlorofluoromethane	0.2037 0.2306	0.2326 0.2296	0.2172 0.2186	0.2673	0.2282	Ave		0.2285			0.1000	8.1		15.0			
Ethyl ether	0.1660 0.1384	0.1777 0.1319	0.1977 +++++	0.1719	0.1542	Ave		0.1626				14.0		15.0			
Acrolein	0.0213 0.0206	0.0151 0.0140	0.0232 +++++	0.0183	0.0235	Qua	-0.142	0.0274	-0.000026						0.9980		0.9900
1,1-Dichloroethene	0.2008 0.1872	0.2042 0.1866	0.1934 0.1887	0.2099	0.1852	Ave		0.1945			0.1000	4.8		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1515 0.1533	0.1628 0.1608	0.1474 0.1591	0.1717	0.1560	Ave		0.1578			0.0500	4.8		15.0			
Acetone	+++++ 0.1117	+++++ 0.1056	0.2169 0.1031	0.1870	0.1504	Lin1	1.4323	0.0998			0.0500				0.9960		0.9900
Iodomethane	0.3112 0.2885	0.3326 0.2930	0.3051 0.2905	0.3366	0.3051	Ave		0.3078				6.0		15.0			
Carbon disulfide	0.4014 0.4962	0.4691 0.4971	0.4438 0.5321	0.5063	0.4630	Ave		0.4761			0.1000	8.6		15.0			

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 | Calibration End Date: 03/03/2015 03:00 | Calibration ID: 27146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.0859 0.1143	0.0895 0.1221	0.1120 0.1204	0.1260	0.1087	Ave		0.1099				13.0		15.0			
Methyl acetate	0.2446 0.2166	0.2639 0.2196	0.2292 0.2261	0.2710	0.2518	Ave		0.2404			0.1000	8.6		15.0			
Methylene Chloride	+++++ 0.2450	+++++ 0.2289	0.4507 0.2254	0.3697	0.2764	Lin1	1.2590	0.2186			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.0285 0.0267	0.0281 0.0266	0.0250 0.0225	0.0338	0.0317	Ave		0.0279				13.0		15.0			
Acrylonitrile	0.1012 0.0969	0.1135 0.0993	0.1008 0.1003	0.1193	0.1142	Ave		0.1057				8.1		15.0			
trans-1,2-Dichloroethene	0.2147 0.2207	0.2330 0.2250	0.2405 0.2218	0.2511	0.2239	Ave		0.2288			0.1000	5.2		15.0			
Methyl tert-butyl ether	0.6090 0.6371	0.6468 0.6656	0.6354 0.6511	0.7315	0.6943	Ave		0.6588			0.1000	5.8		15.0			
Hexane	+++++ 0.0614	0.0794 0.0634	0.0619 0.0638	0.0736	0.0616	Ave		0.0664				11.0		15.0			
1,1-Dichloroethane	0.4224 0.3785	0.4175 0.3912	0.4092 0.3924	0.4268	0.3936	Ave		0.4039			0.1000	4.3		15.0			
Vinyl acetate	0.1670 0.2195	0.2206 0.2393	0.2019 0.2328	0.2502	0.1999	Ave		0.2164				12.0		15.0			
2-Butanone (MEK)	0.1518 0.1445	0.1768 0.1439	0.1565 0.1456	0.1728	0.1660	Ave		0.1572			0.0500	8.4		15.0			
cis-1,2-Dichloroethene	0.2505 0.2426	0.2480 0.2522	0.2567 0.2488	0.2701	0.2482	Ave		0.2521			0.1000	3.3		15.0			
2,2-Dichloropropane	0.1554 0.1793	0.1789 0.1767	0.1701 0.1769	0.2059	0.1842	Ave		0.1784				7.9		15.0			
Bromochloromethane	0.1366 0.1248	0.1300 0.1264	0.1287 0.1235	0.1390	0.1297	Ave		0.1298				4.2		15.0			
Tetrahydrofuran	0.0816 0.0826	0.0850 0.0863	0.0810 0.0874	0.1003	0.0954	Ave		0.0875				7.9		15.0			
Chloroform	0.4094 0.3690	0.4017 0.3769	0.3941 0.3749	0.4321	0.3758	Ave		0.3917				5.6		15.0			
1,1,1-Trichloroethane	0.2959 0.2905	0.2873 0.2980	0.2658 0.3051	0.3166	0.2863	Ave		0.2932			0.1000	5.1		15.0			
Cyclohexane	0.3382 0.3707	0.3551 0.3851	0.3558 0.3847	0.4097	0.3533	Ave		0.3691			0.1000	6.3		15.0			
1,1-Dichloropropene	0.2465 0.2685	0.2764 0.2786	0.2655 0.2814	0.3186	0.2646	Ave		0.2750				7.5		15.0			
Carbon tetrachloride	0.2529 0.2573	0.2426 0.2725	0.2477 0.2777	0.2759	0.2408	Ave		0.2584			0.1000	5.8		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0093 0.0105	0.0112 0.0105	0.0097 0.0095	0.0131	0.0125	Ave		0.0108				13.0		15.0			
1,2-Dichloroethane	0.3413 0.2892	0.3330 0.2958	0.3000 0.2915	0.3319	0.3090	Ave		0.3115			0.1000	6.7		15.0			
Benzene	1.0042 0.8984	1.0032 0.9154	0.9905 0.9081	1.0272	0.9139	Ave		0.9576			0.5000	5.6		15.0			
n-Heptane	+++++ 0.0743	+++++ 0.0751	0.0621 0.0737	0.0809	0.0653	Ave		0.0719				9.6		15.0			
Trichloroethene	0.2681 0.2394	0.2722 0.2475	0.2549 0.2488	0.2651	0.2436	Ave		0.2549			0.2000	4.8		15.0			
Methylcyclohexane	0.3826 0.3806	0.3958 0.4000	0.3591 0.3963	0.4190	0.3572	Ave		0.3863			0.1000	5.4		15.0			
1,2-Dichloropropane	0.2552 0.2259	0.2388 0.2293	0.2398 0.2232	0.2595	0.2265	Ave		0.2373			0.1000	5.8		15.0			
Dibromomethane	0.1129 0.1303	0.1394 0.1332	0.1280 0.1304	0.1392	0.1366	Ave		0.1313				6.5		15.0			
1,4-Dioxane	0.0022 0.0027	0.0024 0.0027	0.0027 0.0023	0.0031	0.0026	Ave		0.0026				12.0		15.0			
Bromodichloromethane	0.2118 0.2683	0.2067 0.2871	0.2387 0.2911	0.2752	0.2615	Ave		0.2550			0.1000	13.0		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0627	0.0453 0.0687	0.0519 0.0720	0.0630	0.0582	Ave		0.0602				15.0		15.0			
cis-1,3-Dichloropropene	0.2725 0.3244	0.2489 0.3408	0.2812 0.3442	0.3185	0.2979	Ave		0.3036			0.1500	11.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.2116 0.2763	0.2360 0.2727	0.2505 0.2660	0.3110	0.2950	Ave		0.2649			0.0500	12.0		15.0			
Toluene	1.5016 1.3090	1.3867 1.3149	1.3331 1.3637	1.4933	1.2962	Ave		1.3748			0.4000	5.9		15.0			
trans-1,3-Dichloropropene	+++++ 0.3745	+++++ 0.3889	0.2799 0.4051	0.3532	0.3449	Ave		0.3577			0.1000	12.0		15.0			
Ethyl methacrylate	+++++ 0.3622	+++++ 0.3569	0.2914 0.3580	0.3688	0.3393	Ave		0.3461				8.2		15.0			
1,1,2-Trichloroethane	0.3165 0.2733	0.2634 0.2727	0.2937 0.2737	0.3218	0.2861	Ave		0.2876			0.1000	7.5		15.0			
1,3-Dichloropropane	0.4280 0.4647	0.4777 0.4619	0.4706 0.4652	0.5353	0.4831	Ave		0.4733				6.3		15.0			
Tetrachloroethene	0.3196 0.2649	0.2761 0.2667	0.2789 0.2676	0.3047	0.2514	Ave		0.2787			0.2000	8.1		15.0			
2-Hexanone	0.2071 0.2821	0.2420 0.2674	0.2326 0.2623	0.3130	0.3017	Ave		0.2635			0.0500	14.0		15.0			

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 | Calibration End Date: 03/03/2015 03:00 | Calibration ID: 27146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	+++++ 0.2826	0.2036 0.2943	0.2150 0.3076	0.2825	0.2662	Ave		0.2645				15.0		15.0			
1,2-Dibromoethane	0.1884 0.2744	0.2663 0.2766	0.2766 0.2800	0.3094	0.2845	Ave		0.2695				13.0		15.0			
Chlorobenzene	1.0023 0.8672	1.0131 0.8677	0.9540 0.8681	1.0006	0.8633	Ave		0.9295			0.3000	7.5		15.0			
1,1,1,2-Tetrachloroethane	0.2505 0.2923	0.2554 0.2984	0.2586 0.2987	0.3077	0.2886	Ave		0.2813				8.1		15.0			
Ethylbenzene	0.4861 0.4758	0.4876 0.4697	0.4995 0.4743	0.5263	0.4493	Ave		0.4836				4.7		15.0			
m-Xylene & p-Xylene	0.5350 0.5855	0.5527 0.5688	0.5611 0.5772	0.6437	0.5453	Ave		0.5712				5.9		15.0			
o-Xylene	0.4441 0.5555	0.5400 0.5551	0.5386 0.5392	0.6420	0.5451	Ave		0.5449				9.8		15.0			
Styrene	0.6563 0.8992	0.7699 0.8849	0.7727 0.8775	0.9203	0.8455	Ave		0.8283			0.3000	11.0		15.0			
Bromoform	0.0978 0.1834	0.1087 0.1955	0.1259 0.2033	0.1815	0.1651	Lin1	-0.171	0.1980			0.1000				0.9970		0.9900
Isopropylbenzene	1.1423 1.4570	1.2214 1.4715	1.3005 1.4586	1.5782	1.3734	Ave		1.3754			0.1000	11.0		15.0			
1,1,2,2-Tetrachloroethane	0.6849 0.6624	0.6570 0.6478	0.6045 0.6699	0.7985	0.6677	Ave		0.6741			0.3000	8.2		15.0			
Bromobenzene	0.7446 0.7282	0.7583 0.7219	0.7710 0.7557	0.8237	0.7144	Ave		0.7522				4.6		15.0			
1,2,3-Trichloropropane	0.2166 0.2311	0.2015 0.2201	0.2340 0.2294	0.2953	0.2506	Ave		0.2348				12.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1980	0.1779 0.1957	0.1692 0.2079	0.2194	0.1827	Ave		0.1930				9.1		15.0			
N-Propylbenzene	0.5689 0.7854	0.6155 0.7815	0.7408 0.8242	0.8723	0.7534	Ave		0.7428				14.0		15.0			
2-Chlorotoluene	0.5605 0.6624	0.5827 0.6594	0.6479 0.6853	0.7511	0.6358	Ave		0.6481				9.1		15.0			
1,3,5-Trimethylbenzene	1.7342 2.3076	1.8431 2.3386	2.1033 2.3921	2.5729	2.2024	Ave		2.1868				13.0		15.0			
4-Chlorotoluene	0.6127 0.6995	0.5976 0.6874	0.7120 0.7121	0.8098	0.6558	Ave		0.6858				9.7		15.0			
tert-Butylbenzene	1.4839 2.1301	1.5955 2.1216	1.8968 2.1512	2.2751	1.9777	Ave		1.9540				14.0		15.0			
1,2,4-Trimethylbenzene	1.6814 2.4192	1.9856 2.4299	2.2754 2.4626	2.7038	2.3309	Ave		2.2861				14.0		15.0			

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 | Calibration End Date: 03/03/2015 03:00 | Calibration ID: 27146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	2.1401 2.9860	2.4933 3.0191	2.7669 3.0336	3.2898	2.7551	Ave		2.8105				13.0		15.0			
1,3-Dichlorobenzene	1.4762 1.3178	1.4205 1.3120	1.4191 1.3227	1.5883	1.3029	Ave		1.3950			0.6000	7.3		15.0			
4-Isopropyltoluene	+++++ 2.5570	1.9978 2.6136	2.3109 2.5603	2.8183	2.4325	Ave		2.4701				11.0		15.0			
1,4-Dichlorobenzene	1.7621 1.3405	1.4395 1.3468	1.4811 1.3356	1.6724	1.3655	Ave		1.4679			0.5000	11.0		15.0			
n-Butylbenzene	1.6923 2.1625	1.8200 2.2637	1.9844 2.1701	2.3153	2.0127	Ave		2.0526				11.0		15.0			
1,2-Dichlorobenzene	1.3078 1.2586	1.3936 1.2752	1.3975 1.2501	1.5545	1.3505	Ave		1.3485			0.4000	7.5		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1225	0.1046 0.1324	0.0995 0.1435	0.1349	0.1290	Ave		0.1238			0.0500	13.0		15.0			
1,2,4-Trichlorobenzene	0.8421 0.8460	0.8580 0.9119	0.8112 0.9023	0.9203	0.8693	Ave		0.8701			0.2000	4.4		15.0			
Hexachlorobutadiene	0.5622 0.4780	0.5048 0.4922	0.5020 0.4698	0.5370	0.4832	Ave		0.5037				6.2		15.0			
Naphthalene	1.7179 2.2787	1.7202 2.4240	1.7775 2.2957	2.2933	2.4185	Ave		2.1157				15.0		15.0			
1,2,3-Trichlorobenzene	0.9801 0.8666	0.8402 0.8988	0.8278 0.8671	0.9583	0.9289	Ave		0.8960				6.2		15.0			
Dibromofluoromethane (Surr)	+++++ 0.2035	0.4464 0.2004	0.3310 0.2063	0.2530	0.2172	Qua	0.6302	0.1857	0.0000869						1.0000		0.9900
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2225	0.5122 0.2286	0.3979 0.2346	0.3140	0.2615	Qua	0.8698	0.2061	0.0001210						1.0000		0.9900
Toluene-d8 (Surr)	+++++ 1.1257	2.3212 1.0783	1.7853 1.1326	1.4062	1.1310	Qua	3.5028	0.9923	0.0006103						1.0000		0.9900
4-Bromofluorobenzene (Surr)	+++++ 0.3991	0.8616 0.3791	0.7120 0.3856	0.5259	0.4489	Qua	1.5846	0.3557	0.0001081						1.0000		0.9900

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-170352/10	UX86161.D
Level 2	STD8260 240-170352/9	UX86160.D
Level 3	STD8260 240-170352/8	UX86159.D
Level 4	STD8260 240-170352/7	UX86158.D
Level 5	ICIS 240-170352/6	UX86157.D
Level 6	STD8260 240-170352/5	UX86156.D
Level 7	STD8260 240-170352/4	UX86155.D
Level 8	STD8260 240-170352/3	UX86154.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3746 251176	8380 517858	24299 1020234	53676	92925	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	4906 280520	11129 603678	29111 1154899	59456	112051	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	3539 203524	8672 419593	20932 885989	48274	79560	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromomethane	FB	Qua	2565 115756	5728 214835	13568 350225	30236	52522	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chloroethane	FB	Qua	1622 114370	5300 204568	11139 352207	27259	47704	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	6406 290246	12140 547578	30165 1040128	66340	113019	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	4878 306873	11366 598951	27122 1211923	69444	114969	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	3977 184187	8685 344253	24685 +++++	44665	77718	1.00 50.0	2.00 100	5.00 +++++	10.0	20.0
Acrolein	FB	Qua	2547 136786	3701 182187	14486 +++++	23740	59121	5.00 250	10.0 500	25.0 +++++	50.0	100
1,1-Dichloroethene	FB	Ave	4809 249125	9981 486715	24153 1046029	54544	93300	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	3629 204040	7958 419537	18407 882110	44606	78620	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Acetone	FB	Lin1	+++++ 297225	+++++ 551021	54156 1143323	97186	151525	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Iodomethane	FB	Ave	7454 383908	16254 764539	38096 1610175	87446	153743	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	9614 660358	22924 1296823	55412 2949804	131522	233266	1.00 50.0	2.00 100	5.00 200	10.0	20.0
3-Chloro-1-propene	FB	Ave	2058 152087	4374 318618	13990 667293	32727	54777	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	29290 1441376	64483 2864669	143103 6267592	351963	634426	5.00 250	10.0 500	25.0 1000	50.0	100
Methylene Chloride	FB	Lin1	+++++ 326073	+++++ 597190	56270 1249548	96035	139281	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Ave	6829 354737	13746 693436	31227 1249970	87810	159599	10.0 500	20.0 1000	50.0 2000	100	200
Acrylonitrile	FB	Ave	24230 1290141	55473 2590093	125851 5558383	309930	575627	10.0 500	20.0 1000	50.0 2000	100	200
trans-1,2-Dichloroethene	FB	Ave	5142 293680	11386 587054	30023 1229351	65242	112801	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	14586 847838	31610 1736457	79334 3609743	190039	349825	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexane	FB	Ave	+++++ 81731	3878 165346	7730 353867	19127	31019	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	10117 503677	20404 1020526	51089 2175083	110888	198329	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	3840 280423	10348 599318	24206 1238845	62399	96712	0.960 48.0	1.92 96.0	4.80 192	9.60	19.2
2-Butanone (MEK)	FB	Ave	7271 384576	17279 751029	39075 1614052	89778	167280	2.00 100	4.00 200	10.0 400	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	6001 322878	12117 658097	32045 1379260	70161	125068	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3723 238612	8742 461098	21235 980520	53498	92793	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	3273 166100	6354 329901	16071 684756	36102	65334	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	3911 219923	8304 450196	20234 968949	52097	96186	2.00 100	4.00 200	10.0 400	20.0	40.0
Chloroform	FB	Ave	9806 491055	19629 983425	49212 2078203	112262	189353	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	7087 386625	14040 777558	33182 1691624	82250	144266	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	8101 493376	17352 1004781	44419 2132781	106448	177991	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	5904 357342	13507 726728	33148 1559996	82766	133306	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	6057 342366	11856 711068	30921 1539751	71679	121316	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Ave	5552 349039	13740 686607	30197 1315780	85297	157253	25.0 1250	50.0 2500	125 5000	250	500
1,2-Dichloroethane	FB	Ave	8174 384931	16273 771811	37460 1615877	86219	155694	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	24052 1195591	49022 2388128	123667 5034065	266853	460470	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	+++++ 98860	+++++ 195852	7757 408337	21007	32908	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	6422 318617	13302 645797	31821 1379289	68861	122742	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	9163 506560	19343 1043572	44839 2197216	108864	179971	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	6113 300609	11668 598258	29941 1237377	67411	114127	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dibromomethane	FB	Ave	2704 173472	6813 347497	15977 722879	36171	68832	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dioxane	FB	Ave	1039 71356	2366 138705	6709 249826	16226	25764	20.0 1000	40.0 2000	100 4000	200	400
Bromodichloromethane	FB	Ave	5074 357066	10100 749091	29804 1613750	71483	131750	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 166921	4424 358320	12955 798679	32721	58651	+++++ 100	4.00 200	10.0 400	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	6528 431708	12162 889075	35106 1908395	82755	150110	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	10136 735321	23065 1423106	62565 2949618	161600	297246	2.00 100	4.00 200	10.0 400	20.0	40.0
Toluene	CBZ	Ave	27355 1308073	49880 2576332	127552 5486100	285792	475267	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	+++++ 374192	+++++ 761895	26778 1629786	67587	126474	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Ave	+++++ 361900	+++++ 699196	27885 1440405	70584	124396	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	5765 273156	9473 534345	28098 1101257	61579	104901	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	7797 464404	17184 905097	45024 1871486	102438	177129	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	5823 264679	9932 522567	26683 1076734	58307	92185	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Hexanone	CBZ	Ave	7544 563853	17412 1047707	44518 2110114	119786	221209	2.00 100	4.00 200	10.0 400	20.0	40.0
Dibromochloromethane	CBZ	Ave	+++++ 282358	7324 576635	20567 1237345	54058	97600	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	3432 274176	9579 541854	26465 1126380	59216	104303	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	18260 866581	36441 1700017	91278 3492453	191499	316530	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	4564 292141	9186 584652	24739 1201872	58895	105818	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	8855 475437	17538 920210	47792 1908298	100716	164729	1.00 50.0	2.00 100	5.00 200	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	9747 585132	19881 1114505	53687 2322017	123182	199947	1.00 50.0	2.00 100	5.00 200	10.0	20.0
o-Xylene	CBZ	Ave	8090 555144	19423 1087583	51532 2169346	122871	199864	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Styrene	CBZ	Ave	11956 898542	27695 1733825	73930 3530126	176122	310009	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromoform	CBZ	Lin1	1782 183227	3909 383004	12042 817999	34743	60546	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isopropylbenzene	CBZ	Ave	20810 1455954	43935 2883103	124437 5868112	302032	503589	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	6343 349496	12906 669844	30022 1292627	79455	132203	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromobenzene	DCB	Ave	6896 384175	14897 746407	38290 1458021	81970	141435	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	2006 121923	3959 227615	11621 442560	29387	49607	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 104469	3495 202370	8402 401124	21836	36170	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	5269 414360	12091 808016	36791 1590300	86803	149165	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	5191 349499	11448 681848	32177 1322168	74740	125870	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	16061 1217483	36207 2418136	104451 4615532	256025	436033	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	5674 369059	11739 710767	35359 1373931	80579	129830	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	13743 1123842	31344 2193722	94194 4150735	226398	391546	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	15572 1276363	39008 2512530	112999 4751419	269052	461481	1.00 50.0	2.00 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	19820 1575428	48980 3121718	137408 5853186	327363	545467	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	13671 695292	27906 1356626	70475 2552180	158051	257960	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Isopropyltoluene	DCB	Ave	+++++ 1349059	39247 2702403	114762 4939926	280450	481597	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	16319 707247	28279 1392577	73552 2576899	166416	270341	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 170352

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 03/03/2015 00:12 Calibration End Date: 03/03/2015 03:00 Calibration ID: 27146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	15673 1140954	35753 2340628	98548 4187048	230396	398476	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	12112 664029	27378 1318513	69400 2411969	154686	267385	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 64629	2055 136941	4939 276967	13425	25539	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	7799 446327	16856 942856	40283 1740875	91574	172104	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	5207 252184	9916 508970	24928 906512	53441	95659	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Naphthalene	DCB	Ave	15910 1202261	33793 2506363	88270 4429380	228207	478826	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	9077 457239	16505 929396	41110 1672935	95362	183899	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Qua	+++++ 270863	21813 522896	41323 1143596	65724	109442	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Qua	+++++ 296150	25032 596321	49683 1300516	81568	131736	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBZ	Qua	+++++ 1124932	83495 2112751	170823 4556666	269121	414688	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Qua	+++++ 398794	30993 742681	68128 1551254	100638	164587	+++++ 50.0	2.00 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86154.D
Lims ID: STD8260 L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 03-Mar-2015 00:12:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-003
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:35 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 01:11:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.157	5.159	-0.002	99	1385916	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.689	7.691	-0.002	94	1005765	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.878	9.880	-0.002	97	482364	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.624	4.626	-0.002	95	1143596	200.0	200.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.896	4.886	0.010	92	1300516	200.0	199.9	
$ 7 Toluene-d8 (Surr)	98	6.423	6.425	-0.002	93	4556666	200.0	200.1	
$ 8 4-Bromofluorobenzene (Surr	95	8.766	8.768	-0.002	96	1551254	200.0	200.2	
19 Dichlorodifluoromethane	85	1.583	1.585	-0.002	100	1020234	200.0	198.3	
20 Chloromethane	50	1.749	1.751	-0.002	100	1154899	200.0	188.6	
21 Vinyl chloride	62	1.879	1.869	0.010	99	885989	200.0	195.2	
152 Butadiene	54	1.903	1.905	-0.002	0	974112	NC	NC	
22 Bromomethane	94	2.163	2.177	-0.014	92	350225	200.0	199.6	
23 Chloroethane	64	2.269	2.283	-0.014	97	352207	200.0	200.1	
24 Dichlorofluoromethane	67	2.447	2.449	-0.002	99	1040128	200.0	162.0	
25 Trichlorofluoromethane	101	2.506	2.508	-0.002	99	1211923	200.0	191.4	
26 Ethyl ether	59	2.731	2.733	-0.002	97	681284	200.0	151.2	
27 Acrolein	56	2.837	2.839	-0.002	97	409035	1000.0	NQ	
28 1,1-Dichloroethene	96	2.920	2.922	-0.002	99	1046029	200.0	194.0	
29 1,1,2-Trichloro-1,2,2-trif	151	2.932	2.946	-0.014	92	882110	200.0	201.6	
30 Acetone	43	2.956	2.958	-0.002	100	1143323	400.0	398.9	
32 Iodomethane	142	3.050	3.052	-0.002	97	1610175	200.0	188.7	
33 Carbon disulfide	76	3.110	3.112	-0.002	99	2949804	200.0	223.5	
35 3-Chloro-1-propene	76	3.204	3.206	-0.002	92	667293	200.0	219.1	
36 Methyl acetate	43	3.216	3.218	-0.002	99	6267592	1000.0	940.8	
37 Methylene Chloride	84	3.299	3.301	-0.002	95	1249548	200.0	200.5	
38 2-Methyl-2-propanol	59	3.393	3.384	0.009	97	1249970	2000.0	1618.5	
39 Acrylonitrile	53	3.488	3.478	0.010	99	5558383	2000.0	1897.4	
40 trans-1,2-Dichloroethene	96	3.512	3.526	-0.014	98	1229351	200.0	193.8	
41 Methyl tert-butyl ether	73	3.524	3.526	-0.002	96	3609743	200.0	197.7	
42 Hexane	86	3.725	3.727	-0.002	94	353867	200.0	192.2	
43 1,1-Dichloroethane	63	3.831	3.833	-0.002	97	2175083	200.0	194.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.855	3.857	-0.002	97	1238845	192.0	206.5	
49 2-Butanone (MEK)	43	4.269	4.271	-0.002	94	1614052	400.0	370.4	
48 cis-1,2-Dichloroethene	96	4.269	4.271	-0.002	82	1379260	200.0	197.4	
50 2,2-Dichloropropane	77	4.281	4.283	-0.002	90	980520	200.0	198.3	
54 Chlorobromomethane	128	4.458	4.461	-0.002	97	684756	200.0	190.3	
55 Tetrahydrofuran	42	4.494	4.496	-0.002	92	968949	400.0	399.7	
56 Chloroform	83	4.506	4.508	-0.002	95	2078203	200.0	191.4	
57 1,1,1-Trichloroethane	97	4.671	4.673	-0.002	97	1691624	200.0	208.2	
58 Cyclohexane	56	4.719	4.721	-0.002	91	2132781	200.0	208.5	
59 1,1-Dichloropropene	75	4.790	4.792	-0.002	96	1559996	200.0	204.7	
60 Carbon tetrachloride	117	4.802	4.804	-0.002	98	1539751	200.0	215.0	
61 Isobutyl alcohol	41	4.825	4.827	-0.002	97	1315780	5000.0	4399.4	
63 1,2-Dichloroethane	62	4.944	4.946	-0.002	58	1615877	200.0	187.2	
62 Benzene	78	4.955	4.946	0.009	96	5034065	200.0	189.7	
65 n-Heptane	100	5.133	5.135	-0.002	95	408337	200.0	204.9	
67 Trichloroethene	130	5.441	5.443	-0.002	97	1379289	200.0	195.2	
69 Methylcyclohexane	83	5.618	5.608	0.010	90	2197216	200.0	205.2	
70 1,2-Dichloropropane	63	5.618	5.620	-0.002	96	1237377	200.0	188.1	
73 Dibromomethane	93	5.713	5.715	-0.002	92	722879	200.0	198.7	
72 1,4-Dioxane	88	5.713	5.715	-0.002	54	249826	4000.0	3509.0	
74 Dichlorobromomethane	83	5.831	5.821	0.010	100	1613750	200.0	228.3	
76 2-Chloroethyl vinyl ether	63	6.056	6.058	-0.002	92	798679	400.0	478.3	
77 cis-1,3-Dichloropropene	75	6.186	6.188	-0.002	95	1908395	200.0	226.8	
78 4-Methyl-2-pentanone (MIBK	43	6.304	6.306	-0.002	97	2949618	400.0	401.7	
79 Toluene	91	6.482	6.484	-0.002	98	5486100	200.0	198.4	
80 trans-1,3-Dichloropropene	75	6.648	6.650	-0.002	93	1629786	200.0	226.5	
81 Ethyl methacrylate	69	6.707	6.709	-0.002	91	1440405	200.0	206.9	
82 1,1,2-Trichloroethane	97	6.813	6.803	0.010	89	1101257	200.0	190.3	
83 1,3-Dichloropropane	76	6.955	6.957	-0.002	94	1871486	200.0	196.6	
84 Tetrachloroethene	164	6.967	6.969	-0.002	92	1076734	200.0	192.0	
85 2-Hexanone	43	7.002	7.005	-0.003	97	2110114	400.0	398.1	
87 Chlorodibromomethane	129	7.156	7.158	-0.002	91	1237345	200.0	232.5	
89 Ethylene Dibromide	107	7.275	7.277	-0.002	98	1126380	200.0	207.8	
91 Chlorobenzene	112	7.712	7.715	-0.003	97	3492453	200.0	186.8	
92 1,1,1,2-Tetrachloroethane	131	7.772	7.774	-0.002	96	1201872	200.0	212.4	
93 Ethylbenzene	106	7.807	7.797	0.010	98	1908298	200.0	196.2	
94 m-Xylene & p-Xylene	106	7.902	7.904	-0.002	100	2322017	200.0	202.1	
95 o-Xylene	106	8.280	8.271	0.009	95	2169346	200.0	197.9	
96 Styrene	104	8.280	8.282	-0.002	92	3530126	200.0	211.9	
97 Bromoform	173	8.458	8.460	-0.002	98	817999	200.0	206.3	
98 Isopropylbenzene	105	8.612	8.614	-0.002	95	5868112	200.0	212.1	
101 1,1,2,2-Tetrachloroethane	83	8.872	8.874	-0.002	95	1292627	200.0	198.8	
102 Bromobenzene	156	8.919	8.921	-0.002	92	1458021	200.0	200.9	
104 1,2,3-Trichloropropane	110	8.931	8.933	-0.002	83	442560	200.0	195.4	
103 trans-1,4-Dichloro-2-buten	53	8.931	8.933	-0.002	71	401124	200.0	215.5	
105 N-Propylbenzene	120	9.002	9.004	-0.002	99	1590300	200.0	221.9	
106 2-Chlorotoluene	126	9.097	9.099	-0.002	97	1322168	200.0	211.5	
107 1,3,5-Trimethylbenzene	105	9.168	9.170	-0.002	93	4615532	200.0	218.8	
108 4-Chlorotoluene	126	9.203	9.194	0.009	96	1373931	200.0	207.7	
109 tert-Butylbenzene	119	9.487	9.489	-0.002	92	4150735	200.0	220.2	
110 1,2,4-Trimethylbenzene	105	9.535	9.537	-0.002	94	4751419	200.0	215.4	
111 sec-Butylbenzene	105	9.700	9.702	-0.002	94	5853186	200.0	215.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.819	9.821	-0.002	98	2552180	200.0	189.6	
113 4-Isopropyltoluene	119	9.842	9.844	-0.002	98	4939926	200.0	207.3	
114 1,4-Dichlorobenzene	146	9.902	9.904	-0.002	95	2576899	200.0	182.0	
117 n-Butylbenzene	91	10.245	10.247	-0.002	97	4187048	200.0	211.4	
118 1,2-Dichlorobenzene	146	10.268	10.270	-0.002	99	2411969	200.0	185.4	
119 1,2-Dibromo-3-Chloropropan	157	11.026	11.028	-0.002	89	276967	200.0	231.9	
121 1,2,4-Trichlorobenzene	180	11.866	11.868	-0.002	94	1740875	200.0	207.4	
122 Hexachlorobutadiene	225	12.031	12.033	-0.002	95	906512	200.0	186.6	
123 Naphthalene	128	12.102	12.104	-0.002	96	4429380	200.0	217.0	
124 1,2,3-Trichlorobenzene	180	12.363	12.365	-0.002	96	1672935	200.0	193.5	
S 127 1,2-Dichloroethene, Total	96				0		400.0	391.2	
S 128 1,3-Dichloropropene, Total	75				0		400.0	453.3	
S 129 Xylenes, Total	106				0		400.0	400.0	
S 126 Trihalomethanes, Total	1				0		800.0	858.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

NQ - Not Quantifiable

Reagents:

vm50ss_00192	Amount Added:	20.00	Units: uL	
VMRPRIMW_00114	Amount Added:	20.00	Units: uL	
VMRGAS_00092	Amount Added:	20.00	Units: uL	
VMAROLISTDW_00090	Amount Added:	20.00	Units: uL	
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent

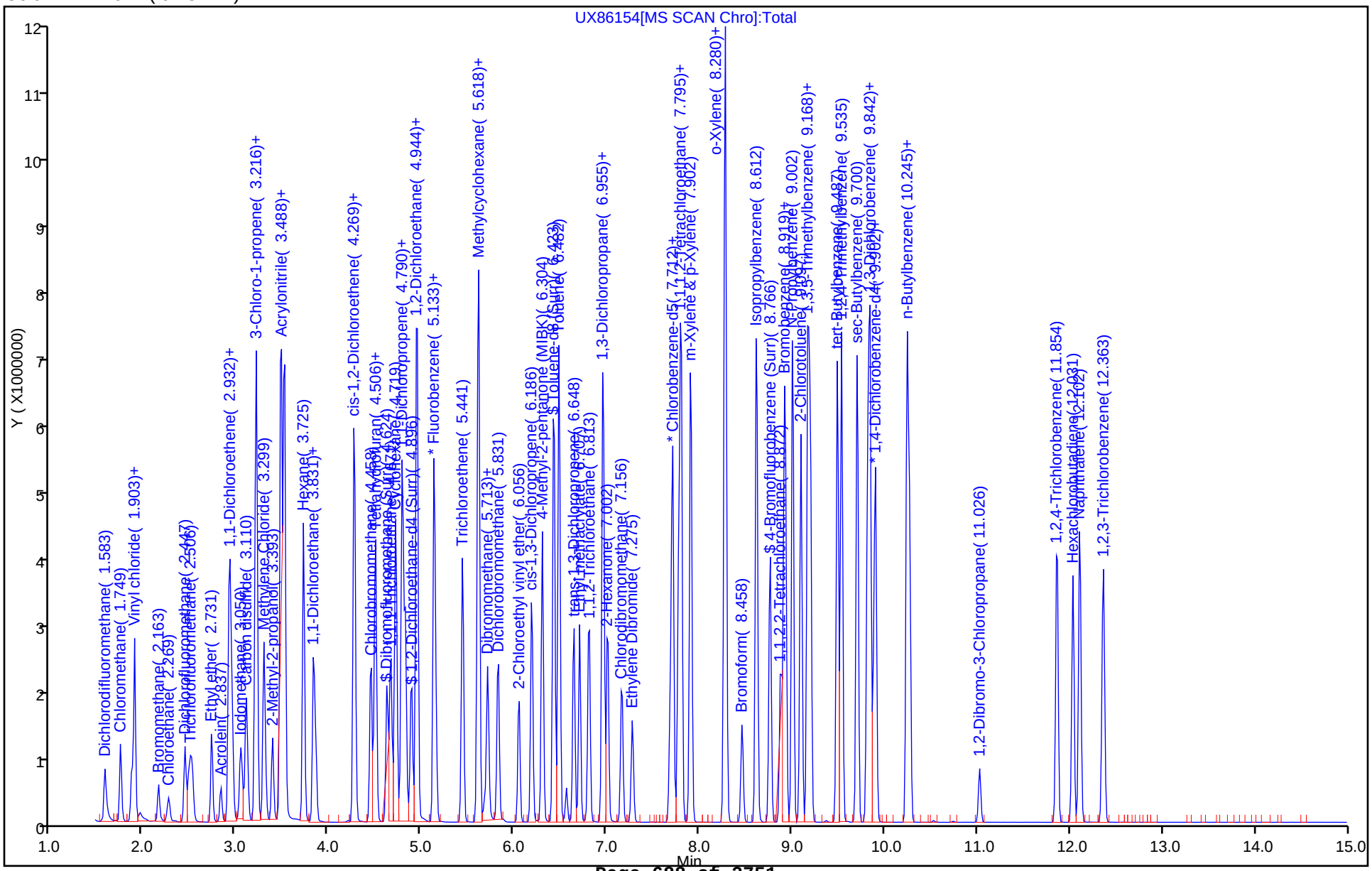
Report Date: 03-Mar-2015 23:34:36 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86154.D

Injection Date:	03-Mar-2015 00:12:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L8			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86155.D
Lims ID: STD8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 03-Mar-2015 00:34:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-004
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:36 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 01:12:02

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.157	5.159	-0.002	99	1304483	50.0	50.0	
*	2 Chlorobenzene-d5	117	7.689	7.691	-0.002	95	979650	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.878	9.880	-0.002	98	516996	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	4.624	4.626	-0.002	95	522896	100.0	99.9	
$	6 1,2-Dichloroethane-d4 (Sur	65	4.896	4.886	0.010	93	596321	100.0	100.7	
$	7 Toluene-d8 (Surr)	98	6.423	6.425	-0.002	93	2112751	100.0	99.1	
$	8 4-Bromofluorobenzene (Surr	95	8.766	8.768	-0.002	95	742681	100.0	99.1	
	19 Dichlorodifluoromethane	85	1.583	1.585	-0.002	100	517858	100.0	106.9	
	20 Chloromethane	50	1.749	1.751	-0.002	100	603678	100.0	104.7	
	21 Vinyl chloride	62	1.867	1.869	-0.002	99	419593	100.0	98.2	
	152 Butadiene	54	1.903	1.905	-0.002	0	444126	NC	NC	
	22 Bromomethane	94	2.163	2.177	-0.014	91	214835	100.0	101.5	
	23 Chloroethane	64	2.281	2.283	-0.002	98	204568	100.0	99.8	
	24 Dichlorofluoromethane	67	2.447	2.449	-0.002	99	547578	100.0	90.6	
	25 Trichlorofluoromethane	101	2.506	2.508	-0.002	98	598951	100.0	100.5	
	26 Ethyl ether	59	2.731	2.733	-0.002	97	344253	100.0	81.2	
	27 Acrolein	56	2.837	2.839	-0.002	99	182187	500.0	489.4	
	28 1,1-Dichloroethene	96	2.932	2.922	0.010	98	486715	100.0	95.9	
	29 1,1,2-Trichloro-1,2,2-trif	151	2.944	2.946	-0.002	92	419537	100.0	101.9	
	30 Acetone	43	2.956	2.958	-0.002	100	551021	200.0	197.2	
	32 Iodomethane	142	3.050	3.052	-0.002	97	764539	100.0	95.2	
	33 Carbon disulfide	76	3.109	3.112	-0.003	99	1296823	100.0	104.4	
	35 3-Chloro-1-propene	76	3.204	3.206	-0.002	92	318618	100.0	111.2	
	36 Methyl acetate	43	3.216	3.218	-0.002	99	2864669	500.0	456.8	
	37 Methylene Chloride	84	3.299	3.301	-0.002	95	597190	100.0	99.0	
	38 2-Methyl-2-propanol	59	3.382	3.384	-0.002	97	693436	1000.0	953.9	
	39 Acrylonitrile	53	3.476	3.478	-0.002	98	2590093	1000.0	939.3	
	40 trans-1,2-Dichloroethene	96	3.524	3.526	-0.002	98	587054	100.0	98.3	
	41 Methyl tert-butyl ether	73	3.524	3.526	-0.002	96	1736457	100.0	101.0	
	42 Hexane	86	3.725	3.727	-0.002	95	165346	100.0	95.4	
	43 1,1-Dichloroethane	63	3.831	3.833	-0.002	97	1020526	100.0	96.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.867	3.857	0.010	97	599318	96.0	106.2	
49 2-Butanone (MEK)	43	4.269	4.271	-0.002	95	751029	200.0	183.1	
48 cis-1,2-Dichloroethene	96	4.269	4.271	-0.002	82	658097	100.0	100.0	
50 2,2-Dichloropropane	77	4.281	4.283	-0.002	92	461098	100.0	99.1	
54 Chlorobromomethane	128	4.458	4.461	-0.002	95	329901	100.0	97.4	
55 Tetrahydrofuran	42	4.494	4.496	-0.002	92	450196	200.0	197.3	
56 Chloroform	83	4.506	4.508	-0.002	94	983425	100.0	96.2	
57 1,1,1-Trichloroethane	97	4.671	4.673	-0.002	97	777558	100.0	101.7	
58 Cyclohexane	56	4.719	4.721	-0.002	91	1004781	100.0	104.3	
59 1,1-Dichloropropene	75	4.790	4.792	-0.002	96	726728	100.0	101.3	
60 Carbon tetrachloride	117	4.802	4.804	-0.002	98	711068	100.0	105.5	
61 Isobutyl alcohol	41	4.825	4.827	-0.002	95	686607	2500.0	2439.0	
63 1,2-Dichloroethane	62	4.955	4.946	0.009	58	771811	100.0	95.0	
62 Benzene	78	4.955	4.946	0.009	96	2388128	100.0	95.6	
65 n-Heptane	100	5.133	5.135	-0.002	94	195852	100.0	104.4	
67 Trichloroethene	130	5.441	5.443	-0.002	98	645797	100.0	97.1	
69 Methylcyclohexane	83	5.618	5.608	0.010	91	1043572	100.0	103.5	
70 1,2-Dichloropropane	63	5.618	5.620	-0.002	96	598258	100.0	96.6	
73 Dibromomethane	93	5.713	5.715	-0.002	92	347497	100.0	101.5	
72 1,4-Dioxane	88	5.713	5.715	-0.002	78	138705	2000.0	2069.9	
74 Dichlorobromomethane	83	5.831	5.821	0.010	100	749091	100.0	112.6	
76 2-Chloroethyl vinyl ether	63	6.056	6.058	-0.002	93	358320	200.0	228.0	
77 cis-1,3-Dichloropropene	75	6.186	6.188	-0.002	95	889075	100.0	112.3	
78 4-Methyl-2-pentanone (MIBK	43	6.304	6.306	-0.002	97	1423106	200.0	205.9	
79 Toluene	91	6.482	6.484	-0.002	98	2576332	100.0	95.6	
80 trans-1,3-Dichloropropene	75	6.647	6.650	-0.003	94	761895	100.0	108.7	
81 Ethyl methacrylate	69	6.707	6.709	-0.002	91	699196	100.0	103.1	
82 1,1,2-Trichloroethane	97	6.813	6.803	0.010	90	534345	100.0	94.8	
83 1,3-Dichloropropane	76	6.955	6.957	-0.002	95	905097	100.0	97.6	
84 Tetrachloroethene	164	6.967	6.969	-0.002	92	522567	100.0	95.7	
85 2-Hexanone	43	7.002	7.005	-0.003	98	1047707	200.0	202.9	
87 Chlorodibromomethane	129	7.168	7.158	0.010	91	576635	100.0	111.3	
89 Ethylene Dibromide	107	7.275	7.277	-0.002	98	541854	100.0	102.6	
91 Chlorobenzene	112	7.712	7.715	-0.003	96	1700017	100.0	93.3	
92 1,1,1,2-Tetrachloroethane	131	7.772	7.774	-0.002	96	584652	100.0	106.1	
93 Ethylbenzene	106	7.807	7.797	0.010	98	920210	100.0	97.1	
94 m-Xylene & p-Xylene	106	7.902	7.904	-0.002	100	1114505	100.0	99.6	
95 o-Xylene	106	8.280	8.271	0.009	95	1087583	100.0	101.9	
96 Styrene	104	8.280	8.282	-0.002	92	1733825	100.0	106.8	
97 Bromoform	173	8.458	8.460	-0.002	98	383004	100.0	99.6	
98 Isopropylbenzene	105	8.612	8.614	-0.002	95	2883103	100.0	107.0	
101 1,1,2,2-Tetrachloroethane	83	8.872	8.874	-0.002	95	669844	100.0	96.1	
102 Bromobenzene	156	8.919	8.921	-0.002	96	746407	100.0	96.0	
104 1,2,3-Trichloropropane	110	8.931	8.933	-0.002	83	227615	100.0	93.7	
103 trans-1,4-Dichloro-2-buten	53	8.931	8.933	-0.002	75	202370	100.0	101.4	
105 N-Propylbenzene	120	9.002	9.004	-0.002	99	808016	100.0	105.2	
106 2-Chlorotoluene	126	9.097	9.099	-0.002	97	681848	100.0	101.7	
107 1,3,5-Trimethylbenzene	105	9.168	9.170	-0.002	94	2418136	100.0	106.9	
108 4-Chlorotoluene	126	9.203	9.194	0.009	98	710767	100.0	100.2	
109 tert-Butylbenzene	119	9.487	9.489	-0.002	93	2193722	100.0	108.6	
110 1,2,4-Trimethylbenzene	105	9.535	9.537	-0.002	94	2512530	100.0	106.3	
111 sec-Butylbenzene	105	9.700	9.702	-0.002	94	3121718	100.0	107.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.819	9.821	-0.002	98	1356626	100.0	94.1	
113 4-Isopropyltoluene	119	9.842	9.844	-0.002	98	2702403	100.0	105.8	
114 1,4-Dichlorobenzene	146	9.902	9.904	-0.002	96	1392577	100.0	91.7	
117 n-Butylbenzene	91	10.245	10.247	-0.002	98	2340628	100.0	110.3	
118 1,2-Dichlorobenzene	146	10.268	10.270	-0.002	99	1318513	100.0	94.6	
119 1,2-Dibromo-3-Chloropropan	157	11.026	11.028	-0.002	87	136941	100.0	107.0	
121 1,2,4-Trichlorobenzene	180	11.866	11.868	-0.002	94	942856	100.0	104.8	
122 Hexachlorobutadiene	225	12.031	12.033	-0.002	95	508970	100.0	97.7	
123 Naphthalene	128	12.102	12.104	-0.002	96	2506363	100.0	114.6	
124 1,2,3-Trichlorobenzene	180	12.363	12.365	-0.002	96	929396	100.0	100.3	
S 127 1,2-Dichloroethene, Total	96				0		200.0	198.4	
S 128 1,3-Dichloropropene, Total	75				0		200.0	221.0	
S 129 Xylenes, Total	106				0		200.0	201.5	
S 126 Trihalomethanes, Total	1				0		400.0	419.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50ss_00192	Amount Added:	10.00	Units: uL	
VMRPRIMW_00114	Amount Added:	10.00	Units: uL	
VMRGAS_00092	Amount Added:	10.00	Units: uL	
VMAROLISTDW_00090	Amount Added:	10.00	Units: uL	
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent

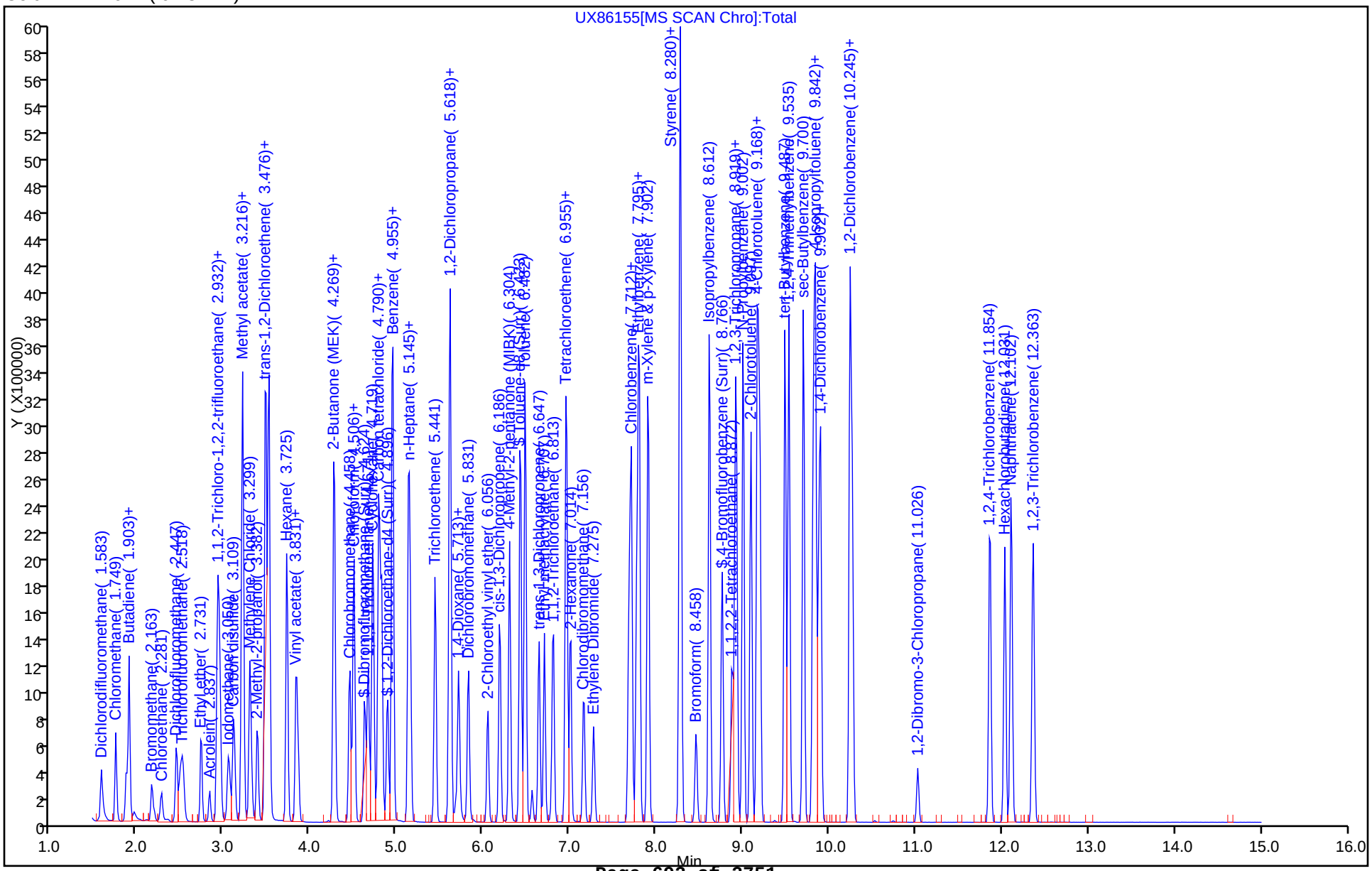
Report Date: 03-Mar-2015 23:34:37 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86155.D

Injection Date:	03-Mar-2015 00:34:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L7			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86156.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 03-Mar-2015 00:55:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-005
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:38 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 01:34:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.159	5.159	0.000	99	1330841	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.691	7.691	0.000	95	999296	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.880	9.880	0.000	98	527598	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.626	4.626	0.000	95	270863	50.0	50.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.887	4.886	0.001	93	296150	50.0	48.4	
$ 7 Toluene-d8 (Surr)	98	6.425	6.425	0.000	92	1124932	50.0	51.6	
$ 8 4-Bromofluorobenzene (Surr	95	8.756	8.768	-0.012	94	398794	50.0	50.8	
19 Dichlorodifluoromethane	85	1.585	1.585	0.000	100	251176	50.0	50.8	
20 Chloromethane	50	1.751	1.751	0.000	100	280520	50.0	47.7	
21 Vinyl chloride	62	1.869	1.869	0.000	99	203524	50.0	46.7	
152 Butadiene	54	1.905	1.905	0.000	0	218784	NC	NC	
22 Bromomethane	94	2.177	2.177	0.000	90	115756	50.0	47.5	
23 Chloroethane	64	2.283	2.283	0.000	98	114370	50.0	49.7	
24 Dichlorofluoromethane	67	2.449	2.449	0.000	98	290246	50.0	47.1	
25 Trichlorofluoromethane	101	2.508	2.508	0.000	99	306873	50.0	50.5	
26 Ethyl ether	59	2.733	2.733	0.000	96	184187	50.0	42.6	
27 Acrolein	56	2.840	2.839	0.001	99	136786	250.0	254.8	
28 1,1-Dichloroethene	96	2.922	2.922	0.000	98	249125	50.0	48.1	
29 1,1,2-Trichloro-1,2,2-trif	151	2.946	2.946	0.000	92	204040	50.0	48.6	
30 Acetone	43	2.958	2.958	0.000	100	297225	100.0	97.5	
32 Iodomethane	142	3.052	3.052	0.000	97	383908	50.0	46.9	
33 Carbon disulfide	76	3.112	3.112	0.000	99	660358	50.0	52.1	
35 3-Chloro-1-propene	76	3.206	3.206	0.000	93	152087	50.0	52.0	
36 Methyl acetate	43	3.218	3.218	0.000	99	1441376	250.0	225.3	
37 Methylene Chloride	84	3.301	3.301	0.000	95	326073	50.0	50.3	
38 2-Methyl-2-propanol	59	3.384	3.384	0.000	97	354737	500.0	478.3	
39 Acrylonitrile	53	3.478	3.478	0.000	98	1290141	500.0	458.6	
40 trans-1,2-Dichloroethene	96	3.526	3.526	0.000	64	293680	50.0	48.2	
41 Methyl tert-butyl ether	73	3.526	3.526	0.000	96	847838	50.0	48.3	
42 Hexane	86	3.727	3.727	0.000	95	81731	50.0	46.2	
43 1,1-Dichloroethane	63	3.833	3.833	0.000	96	503677	50.0	46.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.857	3.857	0.000	97	280423	48.0	48.7	
49 2-Butanone (MEK)	43	4.271	4.271	0.000	99	384576	100.0	91.9	
48 cis-1,2-Dichloroethene	96	4.271	4.271	0.000	82	322878	50.0	48.1	
50 2,2-Dichloropropane	77	4.283	4.283	0.000	92	238612	50.0	50.2	
54 Chlorobromomethane	128	4.461	4.461	0.001	96	166100	50.0	48.1	
55 Tetrahydrofuran	42	4.496	4.496	0.000	92	219923	100.0	94.5	
56 Chloroform	83	4.508	4.508	0.000	95	491055	50.0	47.1	
57 1,1,1-Trichloroethane	97	4.674	4.673	0.001	97	386625	50.0	49.5	
58 Cyclohexane	56	4.721	4.721	0.000	91	493376	50.0	50.2	
59 1,1-Dichloropropene	75	4.792	4.792	0.000	96	357342	50.0	48.8	
60 Carbon tetrachloride	117	4.804	4.804	0.000	99	342366	50.0	49.8	
61 Isobutyl alcohol	41	4.827	4.827	0.000	95	349039	1250.0	1215.3	
63 1,2-Dichloroethane	62	4.946	4.946	0.000	58	384931	50.0	46.4	
62 Benzene	78	4.946	4.946	0.000	96	1195591	50.0	46.9	
65 n-Heptane	100	5.135	5.135	0.000	94	98860	50.0	51.7	
67 Trichloroethene	130	5.443	5.443	0.000	97	318617	50.0	47.0	
69 Methylcyclohexane	83	5.608	5.608	0.000	91	506560	50.0	49.3	
70 1,2-Dichloropropane	63	5.620	5.620	0.000	96	300609	50.0	47.6	
73 Dibromomethane	93	5.715	5.715	0.000	92	173472	50.0	49.7	
72 1,4-Dioxane	88	5.715	5.715	0.000	46	71356	1000.0	1043.7	
74 Dichlorobromomethane	83	5.821	5.821	0.000	99	357066	50.0	52.6	
76 2-Chloroethyl vinyl ether	63	6.058	6.058	0.000	93	166921	100.0	104.1	
77 cis-1,3-Dichloropropene	75	6.188	6.188	0.000	95	431708	50.0	53.4	
78 4-Methyl-2-pentanone (MIBK	43	6.307	6.306	0.000	97	735321	100.0	104.3	
79 Toluene	91	6.484	6.484	0.000	98	1308073	50.0	47.6	
80 trans-1,3-Dichloropropene	75	6.650	6.650	0.000	94	374192	50.0	52.3	
81 Ethyl methacrylate	69	6.709	6.709	0.000	91	361900	50.0	52.3	
82 1,1,2-Trichloroethane	97	6.803	6.803	0.000	91	273156	50.0	47.5	
83 1,3-Dichloropropane	76	6.957	6.957	0.000	92	464404	50.0	49.1	
84 Tetrachloroethene	164	6.957	6.969	-0.012	95	264679	50.0	47.5	
85 2-Hexanone	43	7.005	7.005	0.000	98	563853	100.0	107.1	
87 Chlorodibromomethane	129	7.158	7.158	0.000	90	282358	50.0	53.4	
89 Ethylene Dibromide	107	7.277	7.277	0.000	99	274176	50.0	50.9	
91 Chlorobenzene	112	7.715	7.715	0.000	96	866581	50.0	46.6	
92 1,1,1,2-Tetrachloroethane	131	7.774	7.774	0.000	95	292141	50.0	52.0	
93 Ethylbenzene	106	7.797	7.797	0.000	98	475437	50.0	49.2	
94 m-Xylene & p-Xylene	106	7.904	7.904	0.000	99	585132	50.0	51.3	
95 o-Xylene	106	8.271	8.271	0.000	96	555144	50.0	51.0	
96 Styrene	104	8.283	8.282	0.001	94	898542	50.0	54.3	
97 Bromoform	173	8.460	8.460	0.000	98	183227	50.0	47.2	
98 Isopropylbenzene	105	8.614	8.614	0.000	95	1455954	50.0	53.0	
101 1,1,2,2-Tetrachloroethane	83	8.874	8.874	0.000	95	349496	50.0	49.1	
102 Bromobenzene	156	8.922	8.921	0.001	95	384175	50.0	48.4	
104 1,2,3-Trichloropropane	110	8.933	8.933	0.000	85	121923	50.0	49.2	
103 trans-1,4-Dichloro-2-buten	53	8.933	8.933	0.000	74	104469	50.0	51.3	
105 N-Propylbenzene	120	9.004	9.004	0.000	99	414360	50.0	52.9	
106 2-Chlorotoluene	126	9.099	9.099	0.000	97	349499	50.0	51.1	
107 1,3,5-Trimethylbenzene	105	9.170	9.170	0.000	95	1217483	50.0	52.8	
108 4-Chlorotoluene	126	9.194	9.194	0.000	98	369059	50.0	51.0	
109 tert-Butylbenzene	119	9.490	9.489	0.001	92	1123842	50.0	54.5	
110 1,2,4-Trimethylbenzene	105	9.537	9.537	0.000	94	1276363	50.0	52.9	
111 sec-Butylbenzene	105	9.703	9.702	0.001	93	1575428	50.0	53.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.821	9.821	0.000	97	695292	50.0	47.2	
113 4-Isopropyltoluene	119	9.845	9.844	0.000	97	1349059	50.0	51.8	
114 1,4-Dichlorobenzene	146	9.904	9.904	0.000	97	707247	50.0	45.7	
117 n-Butylbenzene	91	10.247	10.247	0.000	98	1140954	50.0	52.7	
118 1,2-Dichlorobenzene	146	10.270	10.270	0.000	99	664029	50.0	46.7	
119 1,2-Dibromo-3-Chloropropan	157	11.028	11.028	0.000	87	64629	50.0	49.5	
121 1,2,4-Trichlorobenzene	180	11.856	11.868	-0.012	94	446327	50.0	48.6	
122 Hexachlorobutadiene	225	12.034	12.033	0.001	95	252184	50.0	47.5	
123 Naphthalene	128	12.105	12.104	0.001	96	1202261	50.0	53.9	
124 1,2,3-Trichlorobenzene	180	12.365	12.365	0.000	96	457239	50.0	48.4	
S 127 1,2-Dichloroethene, Total	96				0		100.0	96.3	
S 128 1,3-Dichloropropene, Total	75				0		100.0	105.8	
S 129 Xylenes, Total	106				0		100.0	102.2	
S 126 Trihalomethanes, Total	1				0		200.0	200.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50ss_00192	Amount Added:	5.00	Units: uL	
VMRPRIMW_00114	Amount Added:	5.00	Units: uL	
VMRGAS_00092	Amount Added:	5.00	Units: uL	
VMAROLISTDW_00090	Amount Added:	5.00	Units: uL	
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent

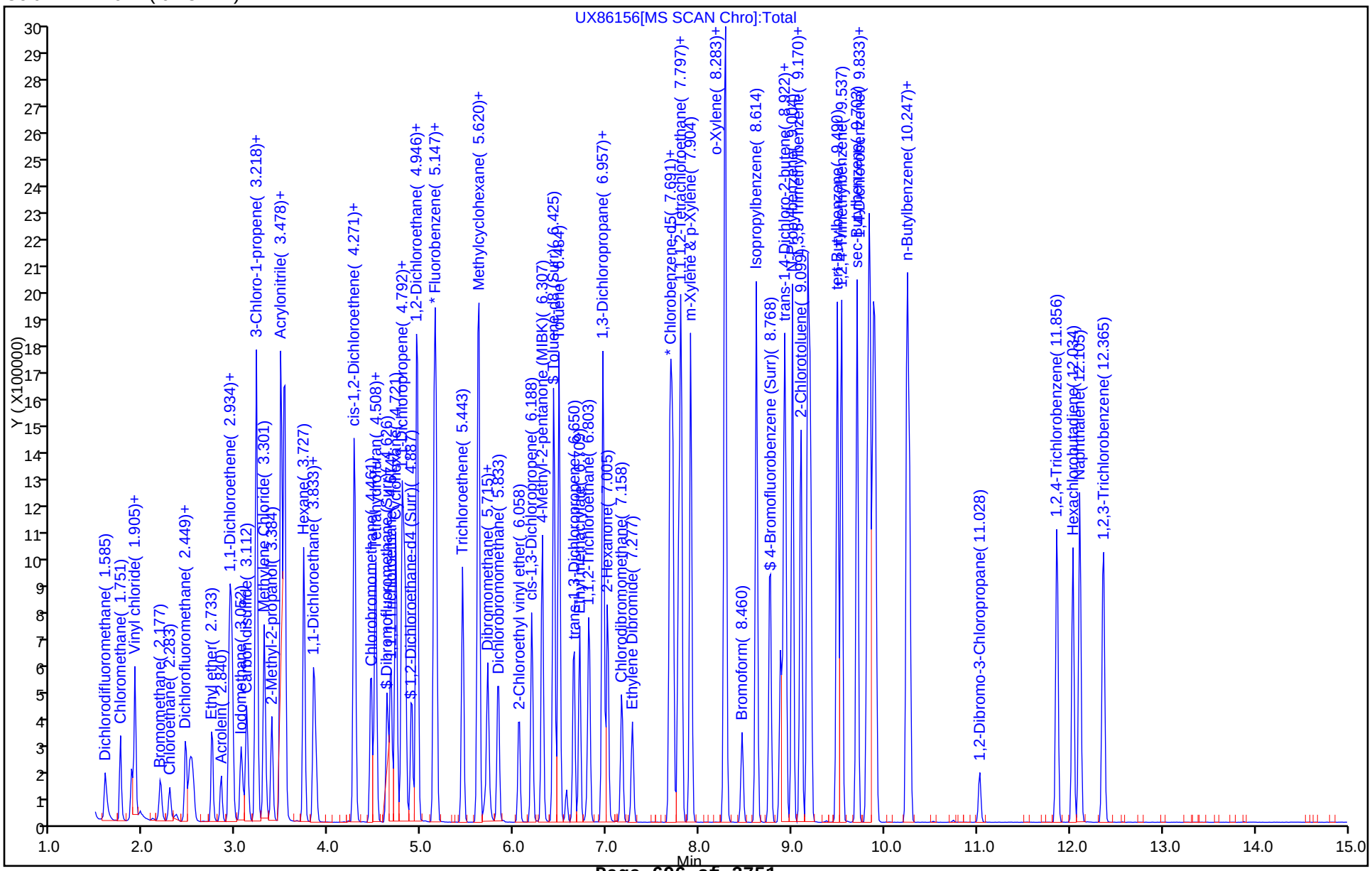
Report Date: 03-Mar-2015 23:34:39 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86156.D

Injection Date:	03-Mar-2015 00:55:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L6			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86157.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 03-Mar-2015 01:34:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-006
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:40 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 02:53:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.159	5.159	0.000	99	1259665	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.691	7.691	0.000	96	916655	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.880	9.880	0.000	99	494963	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.626	4.626	0.000	94	109442	20.0	19.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.886	4.886	0.000	94	131736	20.0	20.9	
$ 7 Toluene-d8 (Surr)	98	6.425	6.425	0.000	93	414688	20.0	19.0	
$ 8 4-Bromofluorobenzene (Surr	95	8.768	8.768	0.000	93	164587	20.0	20.7	
19 Dichlorodifluoromethane	85	1.585	1.585	0.000	99	92925	20.0	19.9	
20 Chloromethane	50	1.751	1.751	0.000	99	112051	20.0	20.1	
21 Vinyl chloride	62	1.869	1.869	0.000	98	79560	20.0	19.3	
152 Butadiene	54	1.905	1.905	0.000	0	82355	NC	NC	
22 Bromomethane	94	2.177	2.177	0.000	91	52522	20.0	21.2	
23 Chloroethane	64	2.283	2.283	0.000	99	47704	20.0	20.6	
24 Dichlorofluoromethane	67	2.449	2.449	0.000	98	113019	20.0	19.4	
25 Trichlorofluoromethane	101	2.508	2.508	0.000	99	114969	20.0	20.0	
26 Ethyl ether	59	2.733	2.733	0.000	95	77718	20.0	19.0	
27 Acrolein	56	2.839	2.839	0.000	99	59121	100.0	100.4	
28 1,1-Dichloroethene	96	2.922	2.922	0.000	99	93300	20.0	19.0	
29 1,1,2-Trichloro-1,2,2-trif	151	2.946	2.946	0.000	91	78620	20.0	19.8	
30 Acetone	43	2.958	2.958	0.000	100	151525	40.0	45.9	
32 Iodomethane	142	3.052	3.052	0.000	97	153743	20.0	19.8	
33 Carbon disulfide	76	3.112	3.112	0.000	99	233266	20.0	19.4	
35 3-Chloro-1-propene	76	3.206	3.206	0.000	92	54777	20.0	19.8	
36 Methyl acetate	43	3.218	3.218	0.000	98	634426	100.0	104.8	
37 Methylene Chloride	84	3.301	3.301	0.000	96	139281	20.0	19.5	
38 2-Methyl-2-propanol	59	3.384	3.384	0.000	96	159599	200.0	227.4	
39 Acrylonitrile	53	3.478	3.478	0.000	98	575627	200.0	216.2	
40 trans-1,2-Dichloroethene	96	3.526	3.526	0.000	62	112801	20.0	19.6	
41 Methyl tert-butyl ether	73	3.526	3.526	0.000	96	349825	20.0	21.1	
42 Hexane	86	3.727	3.727	0.000	95	31019	20.0	18.5	
43 1,1-Dichloroethane	63	3.833	3.833	0.000	97	198329	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.857	3.857	0.000	97	96712	19.2	17.7	
49 2-Butanone (MEK)	43	4.271	4.271	0.000	99	167280	40.0	42.2	
48 cis-1,2-Dichloroethene	96	4.271	4.271	0.000	82	125068	20.0	19.7	
50 2,2-Dichloropropane	77	4.283	4.283	0.000	91	92793	20.0	20.6	
54 Chlorobromomethane	128	4.461	4.461	0.000	96	65334	20.0	20.0	
55 Tetrahydrofuran	42	4.496	4.496	0.000	90	96186	40.0	43.7	
56 Chloroform	83	4.508	4.508	0.000	95	189353	20.0	19.2	
57 1,1,1-Trichloroethane	97	4.673	4.673	0.000	97	144266	20.0	19.5	
58 Cyclohexane	56	4.721	4.721	0.000	92	177991	20.0	19.1	
59 1,1-Dichloropropene	75	4.792	4.792	0.000	96	133306	20.0	19.2	
60 Carbon tetrachloride	117	4.804	4.804	0.000	99	121316	20.0	18.6	
61 Isobutyl alcohol	41	4.827	4.827	0.000	94	157253	500.0	578.5	
63 1,2-Dichloroethane	62	4.946	4.946	0.000	59	155694	20.0	19.8	
62 Benzene	78	4.946	4.946	0.000	96	460470	20.0	19.1	
65 n-Heptane	100	5.135	5.135	0.000	94	32908	20.0	18.2	
67 Trichloroethene	130	5.443	5.443	0.000	98	122742	20.0	19.1	
69 Methylcyclohexane	83	5.608	5.608	0.000	91	179971	20.0	18.5	
70 1,2-Dichloropropane	63	5.620	5.620	0.000	94	114127	20.0	19.1	
73 Dibromomethane	93	5.715	5.715	0.000	92	68832	20.0	20.8	
72 1,4-Dioxane	88	5.715	5.715	0.000	45	25764	400.0	398.1	
74 Dichlorobromomethane	83	5.821	5.821	0.000	99	131750	20.0	20.5	
76 2-Chloroethyl vinyl ether	63	6.058	6.058	0.000	93	58651	40.0	38.6	
77 cis-1,3-Dichloropropene	75	6.188	6.188	0.000	95	150110	20.0	19.6	
78 4-Methyl-2-pentanone (MIBK	43	6.306	6.306	0.000	97	297246	40.0	44.5	
79 Toluene	91	6.484	6.484	0.000	99	475267	20.0	18.9	
80 trans-1,3-Dichloropropene	75	6.650	6.650	0.000	94	126474	20.0	19.3	
81 Ethyl methacrylate	69	6.709	6.709	0.000	91	124396	20.0	19.6	
82 1,1,2-Trichloroethane	97	6.803	6.803	0.000	90	104901	20.0	19.9	
83 1,3-Dichloropropane	76	6.957	6.957	0.000	93	177129	20.0	20.4	
84 Tetrachloroethene	164	6.969	6.969	0.000	90	92185	20.0	18.0	
85 2-Hexanone	43	7.005	7.005	0.000	99	221209	40.0	45.8	
87 Chlorodibromomethane	129	7.158	7.158	0.000	90	97600	20.0	20.1	
89 Ethylene Dibromide	107	7.277	7.277	0.000	98	104303	20.0	21.1	
91 Chlorobenzene	112	7.715	7.715	0.000	95	316530	20.0	18.6	
92 1,1,1,2-Tetrachloroethane	131	7.774	7.774	0.000	95	105818	20.0	20.5	
93 Ethylbenzene	106	7.797	7.797	0.000	98	164729	20.0	18.6	
94 m-Xylene & p-Xylene	106	7.904	7.904	0.000	99	199947	20.0	19.1	
95 o-Xylene	106	8.271	8.271	0.000	95	199864	20.0	20.0	
96 Styrene	104	8.282	8.282	0.000	93	310009	20.0	20.4	
97 Bromoform	173	8.460	8.460	0.000	98	60546	20.0	17.5	
98 Isopropylbenzene	105	8.614	8.614	0.000	95	503589	20.0	20.0	
101 1,1,2,2-Tetrachloroethane	83	8.874	8.874	0.000	96	132203	20.0	19.8	
102 Bromobenzene	156	8.921	8.921	0.000	92	141435	20.0	19.0	
104 1,2,3-Trichloropropane	110	8.933	8.933	0.000	84	49607	20.0	21.3	
103 trans-1,4-Dichloro-2-buten	53	8.933	8.933	0.000	70	36170	20.0	18.9	
105 N-Propylbenzene	120	9.004	9.004	0.000	98	149165	20.0	20.3	
106 2-Chlorotoluene	126	9.099	9.099	0.000	97	125870	20.0	19.6	
107 1,3,5-Trimethylbenzene	105	9.170	9.170	0.000	94	436033	20.0	20.1	
108 4-Chlorotoluene	126	9.194	9.194	0.000	98	129830	20.0	19.1	
109 tert-Butylbenzene	119	9.489	9.489	0.000	92	391546	20.0	20.2	
110 1,2,4-Trimethylbenzene	105	9.537	9.537	0.000	94	461481	20.0	20.4	
111 sec-Butylbenzene	105	9.702	9.702	0.000	94	545467	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.821	9.821	0.000	98	257960	20.0	18.7	
113 4-Isopropyltoluene	119	9.844	9.844	0.000	97	481597	20.0	19.7	
114 1,4-Dichlorobenzene	146	9.904	9.904	0.000	96	270341	20.0	18.6	
117 n-Butylbenzene	91	10.247	10.247	0.000	97	398476	20.0	19.6	
118 1,2-Dichlorobenzene	146	10.270	10.270	0.000	98	267385	20.0	20.0	
119 1,2-Dibromo-3-Chloropropan	157	11.028	11.028	0.000	83	25539	20.0	20.8	
121 1,2,4-Trichlorobenzene	180	11.868	11.868	0.000	94	172104	20.0	20.0	
122 Hexachlorobutadiene	225	12.033	12.033	0.000	94	95659	20.0	19.2	
123 Naphthalene	128	12.104	12.104	0.000	96	478826	20.0	22.9	
124 1,2,3-Trichlorobenzene	180	12.365	12.365	0.000	97	183899	20.0	20.7	
S 127 1,2-Dichloroethene, Total	96				0		40.0	39.3	
S 128 1,3-Dichloropropene, Total	75				0		40.0	38.9	
S 129 Xylenes, Total	106				0		40.0	39.1	
S 126 Trihalomethanes, Total	1				0		80.0	77.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50ss_00192	Amount Added:	2.00	Units: uL	
VMRPRIMW_00114	Amount Added:	2.00	Units: uL	
VMRGAS_00092	Amount Added:	2.00	Units: uL	
VMAROLISTDW_00090	Amount Added:	2.00	Units: uL	
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent

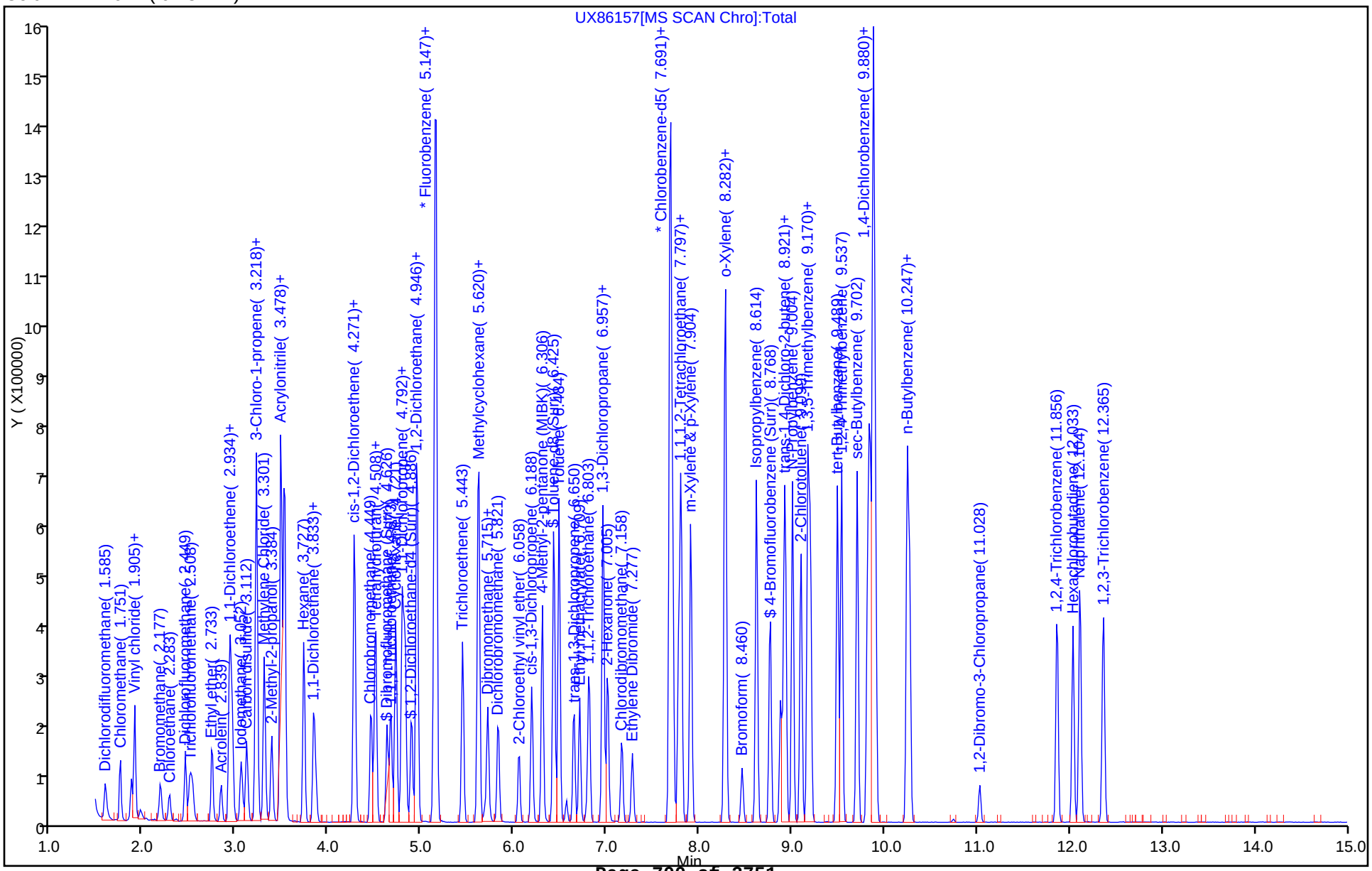
Report Date: 03-Mar-2015 23:34:42 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86157.D

Injection Date:	03-Mar-2015 01:34:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86158.D
Lims ID: STD8260 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 03-Mar-2015 01:56:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-007
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:43 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 02:54:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.157	5.159	-0.002	99	1298982	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.689	7.691	-0.002	95	956889	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.878	9.880	-0.002	99	497548	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.624	4.626	-0.002	94	65724	10.0	10.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.896	4.886	0.010	94	81568	10.0	10.9	
$ 7 Toluene-d8 (Surr)	98	6.423	6.425	-0.002	92	269121	10.0	10.6	
$ 8 4-Bromofluorobenzene (Surr	95	8.766	8.768	-0.002	95	100638	10.0	10.3	
19 Dichlorodifluoromethane	85	1.583	1.585	-0.002	100	53676	10.0	11.1	
20 Chloromethane	50	1.749	1.751	-0.002	99	59456	10.0	10.4	
21 Vinyl chloride	62	1.867	1.869	-0.002	97	48274	10.0	11.3	
152 Butadiene	54	1.903	1.905	-0.002	0	48298	NC	NC	
22 Bromomethane	94	2.187	2.177	0.010	91	30236	10.0	11.3	
23 Chloroethane	64	2.281	2.283	-0.002	99	27259	10.0	11.1	
24 Dichlorofluoromethane	67	2.459	2.449	0.010	98	66340	10.0	11.0	
25 Trichlorofluoromethane	101	2.506	2.508	-0.002	97	69444	10.0	11.7	
26 Ethyl ether	59	2.743	2.733	0.010	93	44665	10.0	10.6	
27 Acrolein	56	2.837	2.839	-0.002	97	23740	50.0	40.0	
28 1,1-Dichloroethene	96	2.932	2.922	0.010	97	54544	10.0	10.8	
29 1,1,2-Trichloro-1,2,2-trif	151	2.944	2.946	-0.002	92	44606	10.0	10.9	
30 Acetone	43	2.956	2.958	-0.002	99	97186	20.0	23.1	
32 Iodomethane	142	3.050	3.052	-0.002	97	87446	10.0	10.9	
33 Carbon disulfide	76	3.110	3.112	-0.002	99	131522	10.0	10.6	
35 3-Chloro-1-propene	76	3.216	3.206	0.010	92	32727	10.0	11.5	
36 Methyl acetate	43	3.216	3.218	-0.002	99	351963	50.0	56.4	
37 Methylene Chloride	84	3.299	3.301	-0.002	95	96035	10.0	11.2	
38 2-Methyl-2-propanol	59	3.382	3.384	-0.002	95	87810	100.0	121.3	
39 Acrylonitrile	53	3.488	3.478	0.010	98	309930	100.0	112.9	
40 trans-1,2-Dichloroethene	96	3.524	3.526	-0.002	65	65242	10.0	11.0	
41 Methyl tert-butyl ether	73	3.524	3.526	-0.002	97	190039	10.0	11.1	
42 Hexane	86	3.737	3.727	0.010	94	19127	10.0	11.1	
43 1,1-Dichloroethane	63	3.843	3.833	0.010	96	110888	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.867	3.857	0.010	97	62399	9.60	11.1	
49 2-Butanone (MEK)	43	4.269	4.271	-0.002	96	89778	20.0	22.0	
48 cis-1,2-Dichloroethene	96	4.281	4.271	0.010	84	70161	10.0	10.7	
50 2,2-Dichloropropane	77	4.281	4.283	-0.002	91	53498	10.0	11.5	
54 Chlorobromomethane	128	4.458	4.461	-0.002	95	36102	10.0	10.7	
55 Tetrahydrofuran	42	4.494	4.496	-0.002	90	52097	20.0	22.9	
56 Chloroform	83	4.506	4.508	-0.002	95	112262	10.0	11.0	
57 1,1,1-Trichloroethane	97	4.671	4.673	-0.002	97	82250	10.0	10.8	
58 Cyclohexane	56	4.719	4.721	-0.002	91	106448	10.0	11.1	
59 1,1-Dichloropropene	75	4.790	4.792	-0.002	98	82766	10.0	11.6	
60 Carbon tetrachloride	117	4.802	4.804	-0.002	98	71679	10.0	10.7	
61 Isobutyl alcohol	41	4.825	4.827	-0.002	93	85297	250.0	304.3	
63 1,2-Dichloroethane	62	4.955	4.946	0.009	59	86219	10.0	10.7	
62 Benzene	78	4.955	4.946	0.009	96	266853	10.0	10.7	
65 n-Heptane	100	5.145	5.135	0.010	94	21007	10.0	11.2	
67 Trichloroethene	130	5.441	5.443	-0.002	96	68861	10.0	10.4	
69 Methylcyclohexane	83	5.618	5.608	0.010	91	108864	10.0	10.8	
70 1,2-Dichloropropane	63	5.618	5.620	-0.002	97	67411	10.0	10.9	
73 Dibromomethane	93	5.713	5.715	-0.002	88	36171	10.0	10.6	
72 1,4-Dioxane	88	5.713	5.715	-0.002	46	16226	200.0	243.2	
74 Dichlorobromomethane	83	5.831	5.821	0.010	99	71483	10.0	10.8	
76 2-Chloroethyl vinyl ether	63	6.056	6.058	-0.002	93	32721	20.0	20.9	
77 cis-1,3-Dichloropropene	75	6.186	6.188	-0.002	94	82755	10.0	10.5	
78 4-Methyl-2-pentanone (MIBK	43	6.304	6.306	-0.002	98	161600	20.0	23.5	
79 Toluene	91	6.482	6.484	-0.002	99	285792	10.0	10.9	
80 trans-1,3-Dichloropropene	75	6.648	6.650	-0.002	94	67587	10.0	9.87	
81 Ethyl methacrylate	69	6.707	6.709	-0.002	92	70584	10.0	10.7	
82 1,1,2-Trichloroethane	97	6.813	6.803	0.010	89	61579	10.0	11.2	
83 1,3-Dichloropropane	76	6.955	6.957	-0.002	91	102438	10.0	11.3	
84 Tetrachloroethene	164	6.967	6.969	-0.002	89	58307	10.0	10.9	
85 2-Hexanone	43	7.014	7.005	0.009	97	119786	20.0	23.8	
87 Chlorodibromomethane	129	7.168	7.158	0.010	88	54058	10.0	10.7	
89 Ethylene Dibromide	107	7.275	7.277	-0.002	97	59216	10.0	11.5	
91 Chlorobenzene	112	7.712	7.715	-0.003	95	191499	10.0	10.8	
92 1,1,1,2-Tetrachloroethane	131	7.772	7.774	-0.002	96	58895	10.0	10.9	
93 Ethylbenzene	106	7.807	7.797	0.010	98	100716	10.0	10.9	
94 m-Xylene & p-Xylene	106	7.902	7.904	-0.002	99	123182	10.0	11.3	
95 o-Xylene	106	8.280	8.271	0.009	95	122871	10.0	11.8	
96 Styrene	104	8.280	8.282	-0.002	92	176122	10.0	11.1	
97 Bromoform	173	8.458	8.460	-0.002	98	34743	10.0	10.0	
98 Isopropylbenzene	105	8.612	8.614	-0.002	96	302032	10.0	11.5	
101 1,1,2,2-Tetrachloroethane	83	8.872	8.874	-0.002	96	79455	10.0	11.8	
102 Bromobenzene	156	8.919	8.921	-0.002	94	81970	10.0	11.0	
104 1,2,3-Trichloropropane	110	8.931	8.933	-0.002	84	29387	10.0	12.6	
103 trans-1,4-Dichloro-2-buten	53	8.931	8.933	-0.002	70	21836	10.0	11.4	
105 N-Propylbenzene	120	9.002	9.004	-0.002	99	86803	10.0	11.7	
106 2-Chlorotoluene	126	9.097	9.099	-0.002	97	74740	10.0	11.6	
107 1,3,5-Trimethylbenzene	105	9.168	9.170	-0.002	93	256025	10.0	11.8	
108 4-Chlorotoluene	126	9.203	9.194	0.009	96	80579	10.0	11.8	
109 tert-Butylbenzene	119	9.487	9.489	-0.002	93	226398	10.0	11.6	
110 1,2,4-Trimethylbenzene	105	9.535	9.537	-0.002	94	269052	10.0	11.8	
111 sec-Butylbenzene	105	9.700	9.702	-0.002	93	327363	10.0	11.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.819	9.821	-0.002	97	158051	10.0	11.4	
113 4-Isopropyltoluene	119	9.842	9.844	-0.002	97	280450	10.0	11.4	
114 1,4-Dichlorobenzene	146	9.902	9.904	-0.002	96	166416	10.0	11.4	
117 n-Butylbenzene	91	10.245	10.247	-0.002	97	230396	10.0	11.3	
118 1,2-Dichlorobenzene	146	10.268	10.270	-0.002	98	154686	10.0	11.5	
119 1,2-Dibromo-3-Chloropropan	157	11.026	11.028	-0.002	84	13425	10.0	10.9	
121 1,2,4-Trichlorobenzene	180	11.866	11.868	-0.002	94	91574	10.0	10.6	
122 Hexachlorobutadiene	225	12.031	12.033	-0.002	94	53441	10.0	10.7	
123 Naphthalene	128	12.102	12.104	-0.002	97	228207	10.0	10.8	
124 1,2,3-Trichlorobenzene	180	12.363	12.365	-0.002	96	95362	10.0	10.7	
S 127 1,2-Dichloroethene, Total	96				0		20.0	21.7	
S 128 1,3-Dichloropropene, Total	75				0		20.0	20.4	
S 129 Xylenes, Total	106				0		20.0	23.1	
S 126 Trihalomethanes, Total	1				0		40.0	42.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50ss_00192	Amount Added:	1.00	Units: uL		
VMRPRIMW_00114	Amount Added:	1.00	Units: uL		
VMRGAS_00092	Amount Added:	1.00	Units: uL		
VMAROLISTDW_00090	Amount Added:	1.00	Units: uL		
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent	
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent	

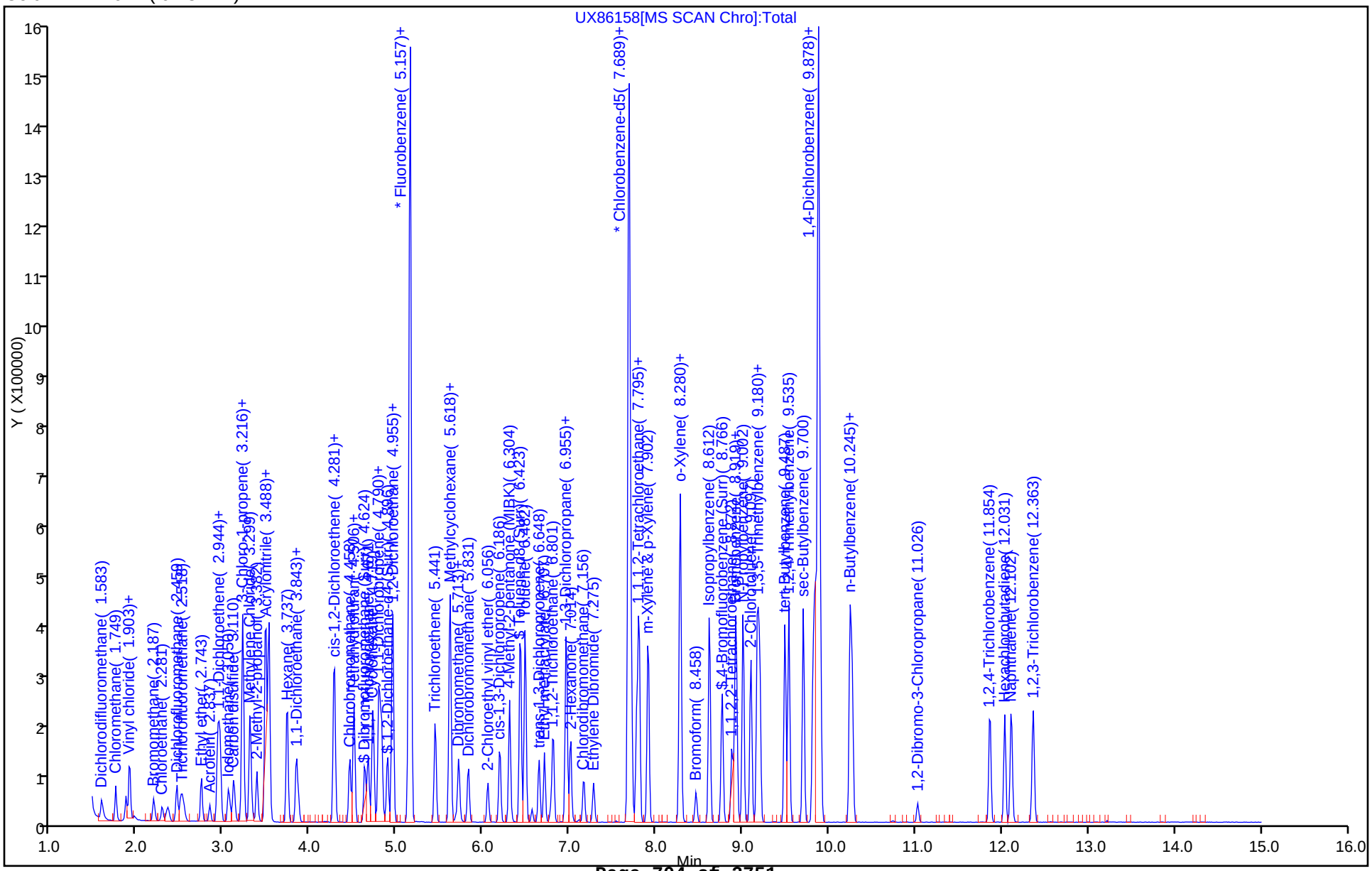
Report Date: 03-Mar-2015 23:34:43 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86158.D

Injection Date:	03-Mar-2015 01:56:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86159.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 03-Mar-2015 02:17:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-008
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:45 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 04:22:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.157	5.159	-0.002	99	1248570	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.689	7.691	-0.002	95	956826	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.878	9.880	-0.002	99	496607	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.636	4.626	0.010	94	41323	5.00	5.50	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.896	4.886	0.010	95	49683	5.00	5.41	
$ 7 Toluene-d8 (Surr)	98	6.435	6.425	0.010	93	170823	5.00	5.45	
$ 8 4-Bromofluorobenzene (Surr	95	8.766	8.768	-0.002	94	68128	5.00	5.54	
19 Dichlorodifluoromethane	85	1.583	1.585	-0.002	98	24299	5.00	5.24	
20 Chloromethane	50	1.749	1.751	-0.002	99	29111	5.00	5.28	
21 Vinyl chloride	62	1.867	1.869	-0.002	98	20932	5.00	5.12	
152 Butadiene	54	1.915	1.905	0.010	0	20131	NC	NC	
22 Bromomethane	94	2.187	2.177	0.010	88	13568	5.00	4.82	
23 Chloroethane	64	2.281	2.283	-0.002	96	11139	5.00	4.43	
24 Dichlorofluoromethane	67	2.459	2.449	0.010	98	30165	5.00	5.22	
25 Trichlorofluoromethane	101	2.506	2.508	-0.002	96	27122	5.00	4.75	
26 Ethyl ether	59	2.743	2.733	0.010	94	24685	5.00	6.08	
27 Acrolein	56	2.838	2.839	-0.001	99	14486	25.0	27.0	
28 1,1-Dichloroethene	96	2.932	2.922	0.010	97	24153	5.00	4.97	
29 1,1,2-Trichloro-1,2,2-trif	151	2.956	2.946	0.010	93	18407	5.00	4.67	
30 Acetone	43	2.968	2.958	0.010	100	54156	10.0	7.38	
32 Iodomethane	142	3.062	3.052	0.010	96	38096	5.00	4.96	
33 Carbon disulfide	76	3.122	3.112	0.010	99	55412	5.00	4.66	
35 3-Chloro-1-propene	76	3.216	3.206	0.010	92	13990	5.00	5.10	
36 Methyl acetate	43	3.228	3.218	0.010	99	143103	25.0	23.8	
37 Methylene Chloride	84	3.311	3.301	0.010	95	56270	5.00	4.55	
38 2-Methyl-2-propanol	59	3.382	3.384	-0.002	95	31227	50.0	44.9	
39 Acrylonitrile	53	3.488	3.478	0.010	98	125851	50.0	47.7	
40 trans-1,2-Dichloroethene	96	3.524	3.526	-0.002	67	30023	5.00	5.25	
41 Methyl tert-butyl ether	73	3.524	3.526	-0.002	97	79334	5.00	4.82	
42 Hexane	86	3.737	3.727	0.010	94	7730	5.00	4.66	
43 1,1-Dichloroethane	63	3.843	3.833	0.010	96	51089	5.00	5.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.867	3.857	0.010	96	24206	4.80	4.48	
49 2-Butanone (MEK)	43	4.281	4.271	0.010	89	39075	10.0	9.95	
48 cis-1,2-Dichloroethene	96	4.281	4.271	0.010	81	32045	5.00	5.09	
50 2,2-Dichloropropane	77	4.281	4.283	-0.002	91	21235	5.00	4.77	
54 Chlorobromomethane	128	4.459	4.461	-0.001	96	16071	5.00	4.96	
55 Tetrahydrofuran	42	4.506	4.496	0.010	93	20234	10.0	9.27	
56 Chloroform	83	4.506	4.508	-0.002	93	49212	5.00	5.03	
57 1,1,1-Trichloroethane	97	4.672	4.673	-0.001	97	33182	5.00	4.53	
58 Cyclohexane	56	4.719	4.721	-0.002	92	44419	5.00	4.82	
59 1,1-Dichloropropene	75	4.790	4.792	-0.002	98	33148	5.00	4.83	
60 Carbon tetrachloride	117	4.802	4.804	-0.002	96	30921	5.00	4.79	
61 Isobutyl alcohol	41	4.825	4.827	-0.002	91	30197	125.0	112.1	
63 1,2-Dichloroethane	62	4.956	4.946	0.010	57	37460	5.00	4.82	
62 Benzene	78	4.956	4.946	0.010	96	123667	5.00	5.17	
65 n-Heptane	100	5.145	5.135	0.010	93	7757	5.00	4.32	
67 Trichloroethene	130	5.441	5.443	-0.002	96	31821	5.00	5.00	
69 Methylcyclohexane	83	5.618	5.608	0.010	90	44839	5.00	4.65	
70 1,2-Dichloropropane	63	5.618	5.620	-0.002	94	29941	5.00	5.05	
73 Dibromomethane	93	5.713	5.715	-0.002	89	15977	5.00	4.87	
72 1,4-Dioxane	88	5.713	5.715	-0.002	46	6709	100.0	104.6	
74 Dichlorobromomethane	83	5.831	5.821	0.010	98	29804	5.00	4.68	
76 2-Chloroethyl vinyl ether	63	6.056	6.058	-0.002	93	12955	10.0	8.61	
77 cis-1,3-Dichloropropene	75	6.186	6.188	-0.002	94	35106	5.00	4.63	
78 4-Methyl-2-pentanone (MIBK	43	6.305	6.306	-0.001	98	62565	10.0	9.46	
79 Toluene	91	6.482	6.484	-0.002	99	127552	5.00	4.85	
80 trans-1,3-Dichloropropene	75	6.648	6.650	-0.002	95	26778	5.00	3.91	
81 Ethyl methacrylate	69	6.707	6.709	-0.002	91	27885	5.00	4.21	
82 1,1,2-Trichloroethane	97	6.813	6.803	0.010	88	28098	5.00	5.10	
83 1,3-Dichloropropane	76	6.955	6.957	-0.002	91	45024	5.00	4.97	
84 Tetrachloroethene	164	6.967	6.969	-0.002	94	26683	5.00	5.00	
85 2-Hexanone	43	7.015	7.005	0.010	98	44518	10.0	8.83	
87 Chlorodibromomethane	129	7.157	7.158	-0.001	91	20567	5.00	4.06	
89 Ethylene Dibromide	107	7.275	7.277	-0.002	71	26465	5.00	5.13	
91 Chlorobenzene	112	7.713	7.715	-0.002	95	91278	5.00	5.13	
92 1,1,1,2-Tetrachloroethane	131	7.772	7.774	-0.002	89	24739	5.00	4.60	
93 Ethylbenzene	106	7.807	7.797	0.010	98	47792	5.00	5.16	
94 m-Xylene & p-Xylene	106	7.902	7.904	-0.002	99	53687	5.00	4.91	
95 o-Xylene	106	8.281	8.271	0.010	94	51532	5.00	4.94	
96 Styrene	104	8.281	8.282	-0.001	87	73930	5.00	4.66	
97 Bromoform	173	8.458	8.460	-0.002	96	12042	5.00	4.04	
98 Isopropylbenzene	105	8.612	8.614	-0.002	95	124437	5.00	4.73	
101 1,1,2,2-Tetrachloroethane	83	8.872	8.874	-0.002	96	30022	5.00	4.48	
102 Bromobenzene	156	8.920	8.921	-0.001	92	38290	5.00	5.13	
104 1,2,3-Trichloropropane	110	8.931	8.933	-0.002	85	11621	5.00	4.98	
103 trans-1,4-Dichloro-2-buten	53	8.931	8.933	-0.002	67	8402	5.00	4.38	
105 N-Propylbenzene	120	9.002	9.004	-0.002	99	36791	5.00	4.99	
106 2-Chlorotoluene	126	9.097	9.099	-0.002	97	32177	5.00	5.00	
107 1,3,5-Trimethylbenzene	105	9.168	9.170	-0.002	94	104451	5.00	4.81	
108 4-Chlorotoluene	126	9.204	9.194	0.010	96	35359	5.00	5.19	
109 tert-Butylbenzene	119	9.488	9.489	-0.001	91	94194	5.00	4.85	
110 1,2,4-Trimethylbenzene	105	9.535	9.537	-0.002	94	112999	5.00	4.98	
111 sec-Butylbenzene	105	9.701	9.702	-0.001	93	137408	5.00	4.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.819	9.821	-0.002	97	70475	5.00	5.09	
113 4-Isopropyltoluene	119	9.843	9.844	-0.001	97	114762	5.00	4.68	
114 1,4-Dichlorobenzene	146	9.902	9.904	-0.002	95	73552	5.00	5.04	
117 n-Butylbenzene	91	10.245	10.247	-0.002	97	98548	5.00	4.83	
118 1,2-Dichlorobenzene	146	10.269	10.270	-0.001	98	69400	5.00	5.18	
119 1,2-Dibromo-3-Chloropropan	157	11.026	11.028	-0.002	84	4939	5.00	4.02	
121 1,2,4-Trichlorobenzene	180	11.866	11.868	-0.002	94	40283	5.00	4.66	
122 Hexachlorobutadiene	225	12.032	12.033	-0.001	94	24928	5.00	4.98	
123 Naphthalene	128	12.114	12.104	0.010	96	88270	5.00	4.20	
124 1,2,3-Trichlorobenzene	180	12.363	12.365	-0.002	94	41110	5.00	4.62	
S 127 1,2-Dichloroethene, Total	96				0		10.0	10.3	
S 128 1,3-Dichloropropene, Total	75				0		10.0	8.54	
S 129 Xylenes, Total	106				0		10.0	9.85	
S 126 Trihalomethanes, Total	1				0		20.0	17.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50ss_00192	Amount Added:	0.50	Units: uL	
VMRPRIMW_00114	Amount Added:	0.50	Units: uL	
VMRGAS_00092	Amount Added:	0.50	Units: uL	
VMAROLISTDW_00090	Amount Added:	0.50	Units: uL	
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent

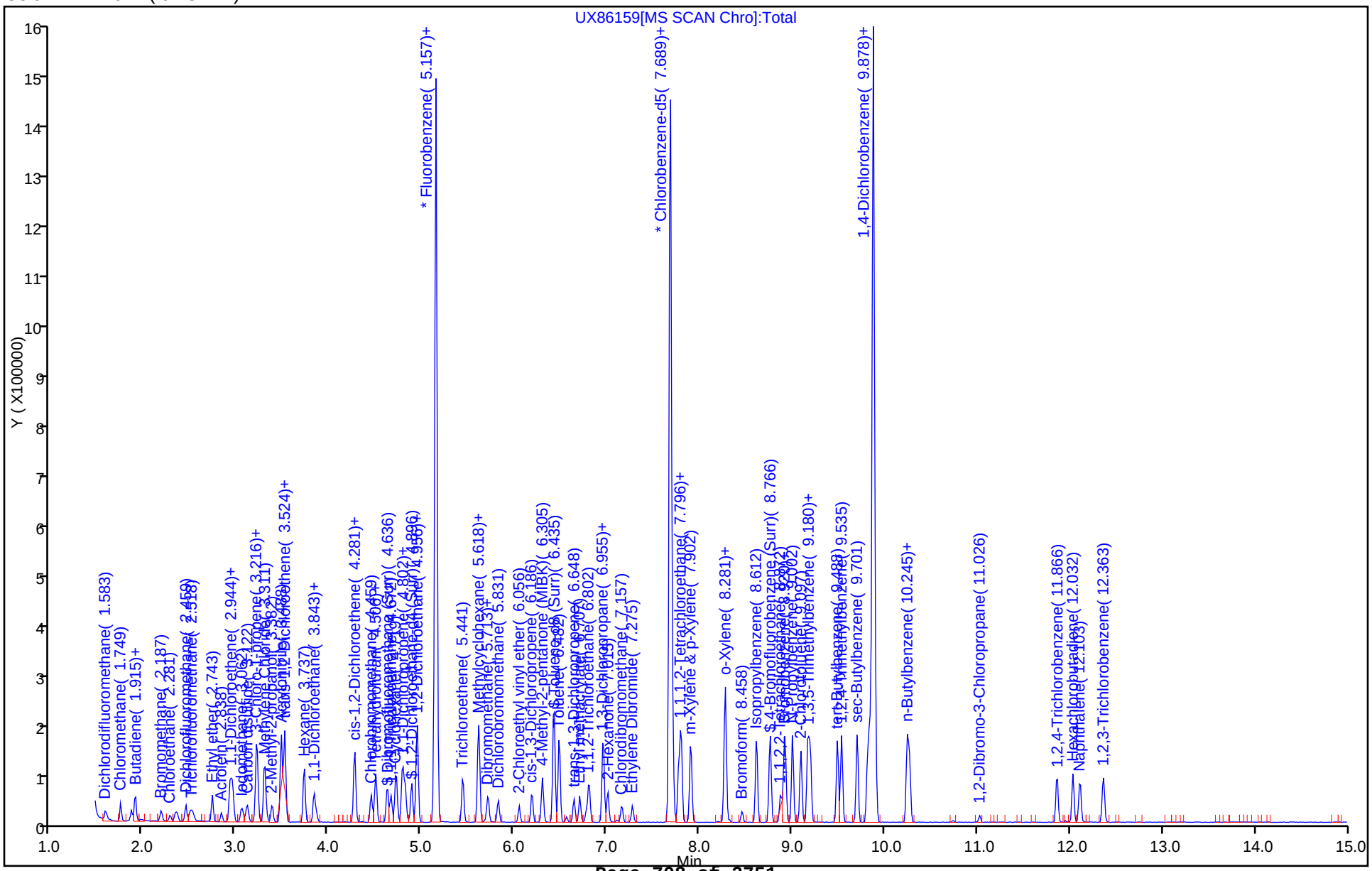
Report Date: 03-Mar-2015 23:34:46 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86159.D

Injection Date:	03-Mar-2015 02:17:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86160.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 03-Mar-2015 02:38:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-009
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:47 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 04:23:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.159	5.159	0.000	99	1221697	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.691	7.691	0.000	95	899266	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.880	9.880	0.000	99	491125	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.626	4.626	0.000	94	21813	2.00	1.41	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.898	4.886	0.012	89	25032	2.00	0.7502	
$ 7 Toluene-d8 (Surr)	98	6.425	6.425	0.000	93	83495	2.00	1.15	
$ 8 4-Bromofluorobenzene (Surr	95	8.756	8.768	-0.012	96	30993	2.00	0.3898	
19 Dichlorodifluoromethane	85	1.585	1.585	0.000	98	8380	2.00	1.85	
20 Chloromethane	50	1.751	1.751	0.000	97	11129	2.00	2.06	
21 Vinyl chloride	62	1.869	1.869	0.000	95	8672	2.00	2.17	
152 Butadiene	54	1.905	1.905	0.000	0	8904	NC	NC	
22 Bromomethane	94	2.189	2.177	0.012	81	5728	2.00	1.65	
23 Chloroethane	64	2.283	2.283	0.000	42	5300	2.00	1.94	
24 Dichlorofluoromethane	67	2.461	2.449	0.012	96	12140	2.00	2.15	
25 Trichlorofluoromethane	101	2.508	2.508	0.000	96	11366	2.00	2.04	
26 Ethyl ether	59	2.745	2.733	0.012	90	8685	2.00	2.19	
27 Acrolein	56	2.839	2.839	0.000	96	3701	10.0	10.8	
28 1,1-Dichloroethene	96	2.922	2.922	0.000	97	9981	2.00	2.10	
29 1,1,2-Trichloro-1,2,2-trif	151	2.946	2.946	0.000	88	7958	2.00	2.06	
30 Acetone	43	2.958	2.958	0.000	100	41362	4.00	2.61	
32 Iodomethane	142	3.052	3.052	0.000	95	16254	2.00	2.16	
33 Carbon disulfide	76	3.112	3.112	0.000	99	22924	2.00	1.97	
35 3-Chloro-1-propene	76	3.218	3.206	0.012	88	4374	2.00	1.63	
36 Methyl acetate	43	3.218	3.218	0.000	99	64483	10.0	11.0	
37 Methylene Chloride	84	3.301	3.301	0.000	97	40801	2.00	1.88	
38 2-Methyl-2-propanol	59	3.384	3.384	0.000	94	13746	20.0	20.2	
39 Acrylonitrile	53	3.478	3.478	0.000	100	55473	20.0	21.5	
40 trans-1,2-Dichloroethene	96	3.526	3.526	0.000	66	11386	2.00	2.04	
41 Methyl tert-butyl ether	73	3.526	3.526	0.000	96	31610	2.00	1.96	
42 Hexane	86	3.739	3.727	0.012	92	3878	2.00	2.39	
43 1,1-Dichloroethane	63	3.833	3.833	0.000	95	20404	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.857	3.857	0.000	93	10348	1.92	1.96	
49 2-Butanone (MEK)	43	4.271	4.271	0.000	98	17279	4.00	4.50	
48 cis-1,2-Dichloroethene	96	4.271	4.271	0.000	79	12117	2.00	1.97	
50 2,2-Dichloropropane	77	4.283	4.283	0.000	92	8742	2.00	2.01	
54 Chlorobromomethane	128	4.461	4.461	0.000	97	6354	2.00	2.00	
55 Tetrahydrofuran	42	4.496	4.496	0.000	84	8304	4.00	3.89	
56 Chloroform	83	4.508	4.508	0.000	94	19629	2.00	2.05	
57 1,1,1-Trichloroethane	97	4.673	4.673	0.000	96	14040	2.00	1.96	
58 Cyclohexane	56	4.721	4.721	0.000	91	17352	2.00	1.92	
59 1,1-Dichloropropene	75	4.792	4.792	0.000	91	13507	2.00	2.01	
60 Carbon tetrachloride	117	4.804	4.804	0.000	96	11856	2.00	1.88	
61 Isobutyl alcohol	41	4.827	4.827	0.000	87	13740	50.0	52.1	
63 1,2-Dichloroethane	62	4.946	4.946	0.000	60	16273	2.00	2.14	
62 Benzene	78	4.957	4.946	0.011	96	49022	2.00	2.10	
65 n-Heptane	100	5.135	5.135	0.000	89	2178	2.00	1.24	
67 Trichloroethene	130	5.443	5.443	0.000	93	13302	2.00	2.14	
69 Methylcyclohexane	83	5.608	5.608	0.000	93	19343	2.00	2.05	
70 1,2-Dichloropropane	63	5.620	5.620	0.000	86	11668	2.00	2.01	
73 Dibromomethane	93	5.715	5.715	0.000	88	6813	2.00	2.12	
72 1,4-Dioxane	88	5.715	5.715	0.000	44	2366	40.0	37.7	
74 Dichlorobromomethane	83	5.833	5.821	0.012	94	10100	2.00	1.62	
76 2-Chloroethyl vinyl ether	63	6.046	6.058	-0.012	89	4424	4.00	3.01	
77 cis-1,3-Dichloropropene	75	6.188	6.188	0.000	93	12162	2.00	1.64	
78 4-Methyl-2-pentanone (MIBK	43	6.306	6.306	0.000	96	23065	4.00	3.56	
79 Toluene	91	6.484	6.484	0.000	98	49880	2.00	2.02	
80 trans-1,3-Dichloropropene	75	6.650	6.650	0.000	93	8923	2.00	1.39	
81 Ethyl methacrylate	69	6.709	6.709	0.000	87	8713	2.00	1.40	
82 1,1,2-Trichloroethane	97	6.815	6.803	0.012	85	9473	2.00	1.83	
83 1,3-Dichloropropane	76	6.957	6.957	0.000	91	17184	2.00	2.02	
84 Tetrachloroethene	164	6.969	6.969	0.000	83	9932	2.00	1.98	
85 2-Hexanone	43	7.016	7.005	0.011	98	17412	4.00	3.67	
87 Chlorodibromomethane	129	7.158	7.158	0.000	82	7324	2.00	1.54	
89 Ethylene Dibromide	107	7.277	7.277	0.000	39	9579	2.00	1.98	
91 Chlorobenzene	112	7.715	7.715	0.000	97	36441	2.00	2.18	
92 1,1,1,2-Tetrachloroethane	131	7.774	7.774	0.000	70	9186	2.00	1.82	
93 Ethylbenzene	106	7.797	7.797	0.000	97	17538	2.00	2.02	
94 m-Xylene & p-Xylene	106	7.904	7.904	0.000	97	19881	2.00	1.94	
95 o-Xylene	106	8.282	8.271	0.011	96	19423	2.00	1.98	
96 Styrene	104	8.282	8.282	0.000	95	27695	2.00	1.86	
97 Bromoform	173	8.460	8.460	0.000	89	3909	2.00	1.96	
98 Isopropylbenzene	105	8.614	8.614	0.000	95	43935	2.00	1.78	
101 1,1,2,2-Tetrachloroethane	83	8.874	8.874	0.000	93	12906	2.00	1.95	
102 Bromobenzene	156	8.921	8.921	0.000	90	14897	2.00	2.02	
104 1,2,3-Trichloropropane	110	8.933	8.933	0.000	84	3959	2.00	1.72	
103 trans-1,4-Dichloro-2-buten	53	8.933	8.933	0.000	69	3495	2.00	1.84	
105 N-Propylbenzene	120	9.004	9.004	0.000	99	12091	2.00	1.66	
106 2-Chlorotoluene	126	9.099	9.099	0.000	96	11448	2.00	1.80	
107 1,3,5-Trimethylbenzene	105	9.170	9.170	0.000	92	36207	2.00	1.69	
108 4-Chlorotoluene	126	9.205	9.194	0.011	96	11739	2.00	1.74	
109 tert-Butylbenzene	119	9.489	9.489	0.000	93	31344	2.00	1.63	
110 1,2,4-Trimethylbenzene	105	9.537	9.537	0.000	93	39008	2.00	1.74	
111 sec-Butylbenzene	105	9.702	9.702	0.000	93	48980	2.00	1.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.821	9.821	0.000	95	27906	2.00	2.04	
113 4-Isopropyltoluene	119	9.844	9.844	0.000	97	39247	2.00	1.62	
114 1,4-Dichlorobenzene	146	9.904	9.904	0.000	92	28279	2.00	1.96	
117 n-Butylbenzene	91	10.247	10.247	0.000	97	35753	2.00	1.77	
118 1,2-Dichlorobenzene	146	10.270	10.270	0.000	97	27378	2.00	2.07	
119 1,2-Dibromo-3-Chloropropan	157	11.028	11.028	0.000	83	2055	2.00	1.69	
121 1,2,4-Trichlorobenzene	180	11.856	11.868	-0.012	90	16856	2.00	1.97	
122 Hexachlorobutadiene	225	12.033	12.033	0.000	92	9916	2.00	2.00	
123 Naphthalene	128	12.104	12.104	0.000	95	33793	2.00	1.63	
124 1,2,3-Trichlorobenzene	180	12.365	12.365	0.000	95	16505	2.00	1.88	
S 127 1,2-Dichloroethene, Total	96				0		4.00	4.00	
S 128 1,3-Dichloropropene, Total	75				0		4.00	3.03	
S 129 Xylenes, Total	106				0		4.00	3.92	
S 126 Trihalomethanes, Total	1				0		8.00	7.17	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50ss_00192	Amount Added:	0.20	Units: uL	
VMRPRIMW_00114	Amount Added:	0.20	Units: uL	
VMRGAS_00092	Amount Added:	0.20	Units: uL	
VMAROLISTDW_00090	Amount Added:	0.20	Units: uL	
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent

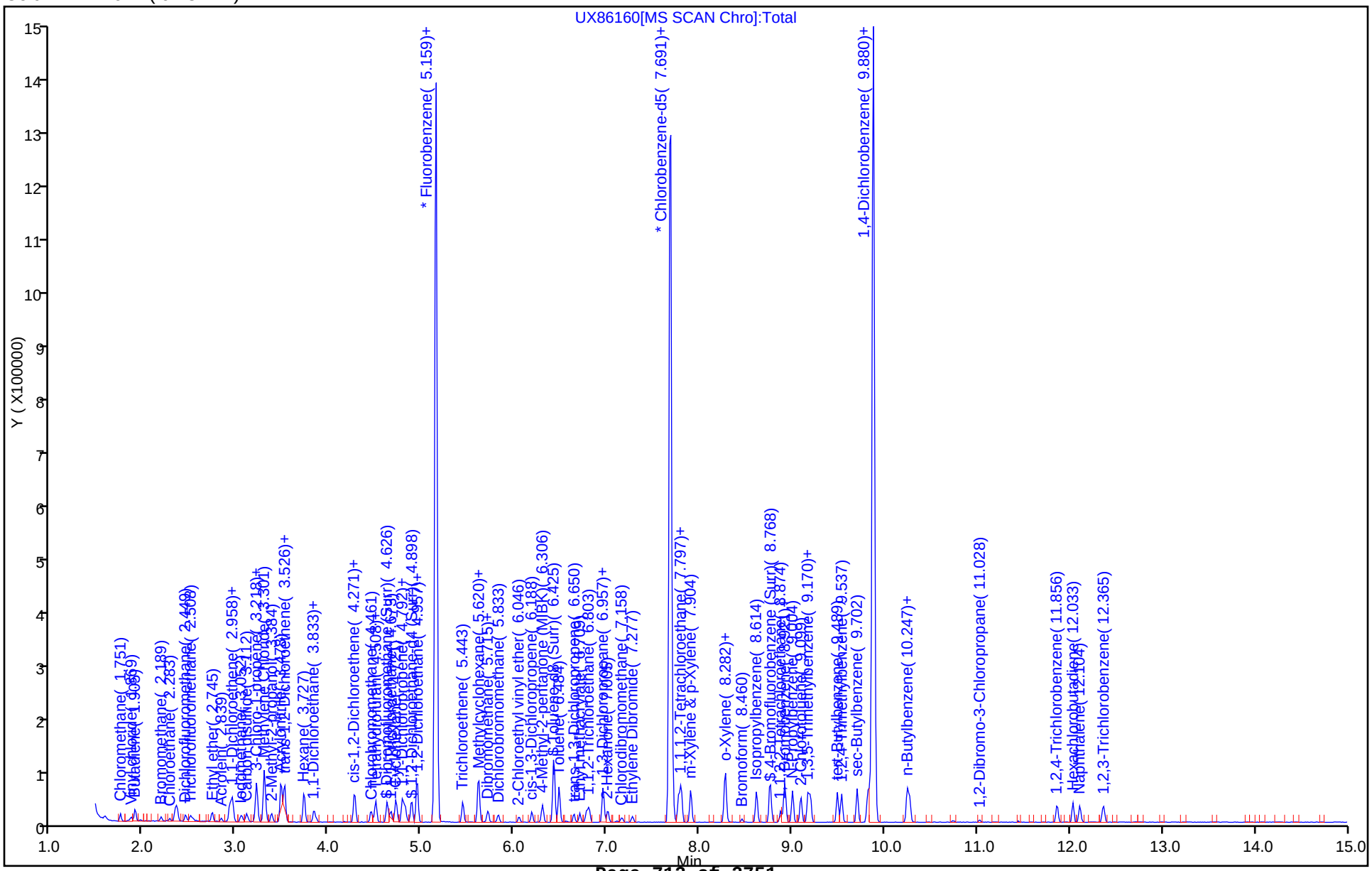
Report Date: 03-Mar-2015 23:34:48 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86160.D

Injection Date:	03-Mar-2015 02:38:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L2			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Mar-2015 03:00:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-010
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:49 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 04:44:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.157	5.159	-0.002	99	1197605	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.689	7.691	-0.002	95	910879	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.878	9.880	-0.002	99	463058	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.624	4.626	-0.002	94	19148	1.00	0.9110	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.896	4.886	0.010	94	22627	1.00	0.3634	
$ 7 Toluene-d8 (Surr)	98	6.435	6.425	0.010	92	75947	1.00	0.6710	
$ 8 4-Bromofluorobenzene (Surr	95		8.768				ND	ND	
19 Dichlorodifluoromethane	85	1.583	1.585	-0.002	94	3746	1.00	0.8427	
20 Chloromethane	50	1.749	1.751	-0.002	96	4906	1.00	0.9271	
21 Vinyl chloride	62	1.867	1.869	-0.002	95	3539	1.00	0.9022	
152 Butadiene	54	1.903	1.905	-0.002	0	3697	NC	NC	
22 Bromomethane	94	2.187	2.177	0.010	80	2565	1.00	0.3538	
23 Chloroethane	64	2.281	2.283	-0.002	8	1622	1.00	0.3344	
24 Dichlorofluoromethane	67	2.459	2.449	0.010	94	6406	1.00	1.15	
25 Trichlorofluoromethane	101	2.506	2.508	-0.002	94	4878	1.00	0.8914	
26 Ethyl ether	59	2.743	2.733	0.010	92	3977	1.00	1.02	
27 Acrolein	56	2.837	2.839	-0.002	75	2547	5.00	9.15	
28 1,1-Dichloroethene	96	2.932	2.922	0.010	94	4809	1.00	1.03	
29 1,1,2-Trichloro-1,2,2-trif	151	2.944	2.946	-0.002	81	3629	1.00	0.9599	
30 Acetone	43	2.968	2.958	0.010	100	30211	2.00	-1.71	
32 Iodomethane	142	3.050	3.052	-0.002	96	7454	1.00	1.01	
33 Carbon disulfide	76	3.121	3.112	0.009	97	9614	1.00	0.8431	
35 3-Chloro-1-propene	76	3.216	3.206	0.010	89	2058	1.00	0.7821	
36 Methyl acetate	43	3.228	3.218	0.010	99	29290	5.00	5.09	
37 Methylene Chloride	84	3.311	3.301	0.010	95	36606	1.00	1.23	
38 2-Methyl-2-propanol	59	3.382	3.384	-0.002	93	6829	10.0	10.2	
39 Acrylonitrile	53	3.488	3.478	0.010	97	24230	10.0	9.57	
40 trans-1,2-Dichloroethene	96	3.524	3.526	-0.002	67	5142	1.00	0.9382	
41 Methyl tert-butyl ether	73	3.524	3.526	-0.002	95	14586	1.00	0.9243	
42 Hexane	86	3.737	3.727	0.010	91	2807	1.00	1.76	
43 1,1-Dichloroethane	63	3.843	3.833	0.010	93	10117	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.867	3.857	0.010	92	3840	0.9600	0.7408	
49 2-Butanone (MEK)	43	4.269	4.271	-0.002	96	7271	2.00	1.93	
48 cis-1,2-Dichloroethene	96	4.269	4.271	-0.002	78	6001	1.00	0.99	
50 2,2-Dichloropropane	77	4.281	4.283	-0.002	15	3723	1.00	0.8712	
54 Chlorobromomethane	128	4.459	4.461	-0.002	89	3273	1.00	1.05	
55 Tetrahydrofuran	42	4.506	4.496	0.010	30	3911	2.00	1.87	
56 Chloroform	83	4.506	4.508	-0.002	91	9806	1.00	1.05	
57 1,1,1-Trichloroethane	97	4.672	4.673	-0.001	90	7087	1.00	1.01	
58 Cyclohexane	56	4.731	4.721	0.010	90	8101	1.00	0.9164	
59 1,1-Dichloropropene	75	4.790	4.792	-0.002	92	5904	1.00	0.8963	
60 Carbon tetrachloride	117	4.802	4.804	-0.002	89	6057	1.00	0.9786	
61 Isobutyl alcohol	41	4.825	4.827	-0.002	88	5552	25.0	21.5	
63 1,2-Dichloroethane	62	4.955	4.946	0.009	57	8174	1.00	1.10	
62 Benzene	78	4.955	4.946	0.009	95	24052	1.00	1.05	
65 n-Heptane	100	5.133	5.135	-0.002	41	1167	1.00	0.6778	
67 Trichloroethene	130	5.452	5.443	0.009	92	6422	1.00	1.05	
69 Methylcyclohexane	83	5.618	5.608	0.010	90	9163	1.00	0.99	
70 1,2-Dichloropropane	63	5.618	5.620	-0.002	86	6113	1.00	1.08	
73 Dibromomethane	93	5.713	5.715	-0.002	85	2704	1.00	0.8601	
72 1,4-Dioxane	88	5.725	5.715	0.010	1	1039	20.0	16.9	
74 Dichlorobromomethane	83	5.831	5.821	0.010	93	5074	1.00	0.8306	
76 2-Chloroethyl vinyl ether	63	6.056	6.058	-0.002	1	2167	2.00	1.50	
77 cis-1,3-Dichloropropene	75	6.198	6.188	0.010	91	6528	1.00	0.8978	
78 4-Methyl-2-pentanone (MIBK	43	6.304	6.306	-0.002	96	10136	2.00	1.60	
79 Toluene	91	6.482	6.484	-0.002	98	27355	1.00	1.09	
80 trans-1,3-Dichloropropene	75	6.648	6.650	-0.002	36	3551	1.00	0.5449	
81 Ethyl methacrylate	69	6.707	6.709	-0.002	12	3104	1.00	0.4923	
82 1,1,2-Trichloroethane	97	6.813	6.803	0.010	77	5765	1.00	1.10	
83 1,3-Dichloropropane	76	6.955	6.957	-0.002	88	7797	1.00	0.9043	
84 Tetrachloroethene	164	6.967	6.969	-0.002	80	5823	1.00	1.15	
85 2-Hexanone	43	7.014	7.005	0.009	94	7544	2.00	1.57	
87 Chlorodibromomethane	129	7.168	7.158	0.010	76	3201	1.00	0.6643	
89 Ethylene Dibromide	107	7.275	7.277	-0.002	37	3432	1.00	0.6990	
91 Chlorobenzene	112	7.713	7.715	-0.002	97	18260	1.00	1.08	
92 1,1,1,2-Tetrachloroethane	131	7.772	7.774	-0.002	49	4564	1.00	0.8907	
93 Ethylbenzene	106	7.807	7.797	0.010	95	8855	1.00	1.01	
94 m-Xylene & p-Xylene	106	7.902	7.904	-0.002	98	9747	1.00	0.9367	
95 o-Xylene	106	8.281	8.271	0.009	96	8090	1.00	0.8149	
96 Styrene	104	8.281	8.282	-0.002	89	11956	1.00	0.7924	
97 Bromoform	173	8.458	8.460	-0.002	0	1782	1.00	1.36	
98 Isopropylbenzene	105	8.612	8.614	-0.002	95	20810	1.00	0.8305	
101 1,1,2,2-Tetrachloroethane	83	8.872	8.874	-0.002	86	6343	1.00	1.02	
102 Bromobenzene	156	8.919	8.921	-0.002	90	6896	1.00	0.9899	
104 1,2,3-Trichloropropane	110	8.931	8.933	-0.002	82	2006	1.00	0.9224	
103 trans-1,4-Dichloro-2-buten	53	8.931	8.933	-0.002	64	1007	1.00	0.5635	
105 N-Propylbenzene	120	9.002	9.004	-0.002	98	5269	1.00	0.7660	
106 2-Chlorotoluene	126	9.097	9.099	-0.002	96	5191	1.00	0.8648	
107 1,3,5-Trimethylbenzene	105	9.168	9.170	-0.002	91	16061	1.00	0.7931	
108 4-Chlorotoluene	126	9.192	9.194	-0.002	95	5674	1.00	0.8933	
109 tert-Butylbenzene	119	9.487	9.489	-0.002	93	13743	1.00	0.7594	
110 1,2,4-Trimethylbenzene	105	9.535	9.537	-0.002	92	15572	1.00	0.7355	
111 sec-Butylbenzene	105	9.700	9.702	-0.002	92	19820	1.00	0.7615	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.819	9.821	-0.002	94	13671	1.00	1.06	
113 4-Isopropyltoluene	119	9.842	9.844	-0.002	95	15506	1.00	0.6778	
114 1,4-Dichlorobenzene	146	9.902	9.904	-0.002	94	16319	1.00	1.20	
117 n-Butylbenzene	91	10.245	10.247	-0.002	95	15673	1.00	0.8245	
118 1,2-Dichlorobenzene	146	10.268	10.270	-0.002	93	12112	1.00	0.9699	
119 1,2-Dibromo-3-Chloropropan	157	11.026	11.028	-0.002	65	805	1.00	0.7022	
121 1,2,4-Trichlorobenzene	180	11.866	11.868	-0.002	86	7799	1.00	0.9678	
122 Hexachlorobutadiene	225	12.032	12.033	-0.001	85	5207	1.00	1.12	
123 Naphthalene	128	12.114	12.104	0.010	93	15910	1.00	0.8120	
124 1,2,3-Trichlorobenzene	180	12.363	12.365	-0.002	93	9077	1.00	1.09	
S 127 1,2-Dichloroethene, Total	96				0		2.00	1.93	
S 128 1,3-Dichloropropene, Total	75				0		2.00	1.44	
S 129 Xylenes, Total	106				0		2.00	1.75	
S 126 Trihalomethanes, Total	1				0		4.00	3.90	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

vm50ss_00192	Amount Added:	0.10	Units: uL		
VMRPRIMW_00114	Amount Added:	0.10	Units: uL		
VMRGAS_00092	Amount Added:	0.10	Units: uL		
VMAROLISTDW_00090	Amount Added:	0.10	Units: uL		
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent	
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent	

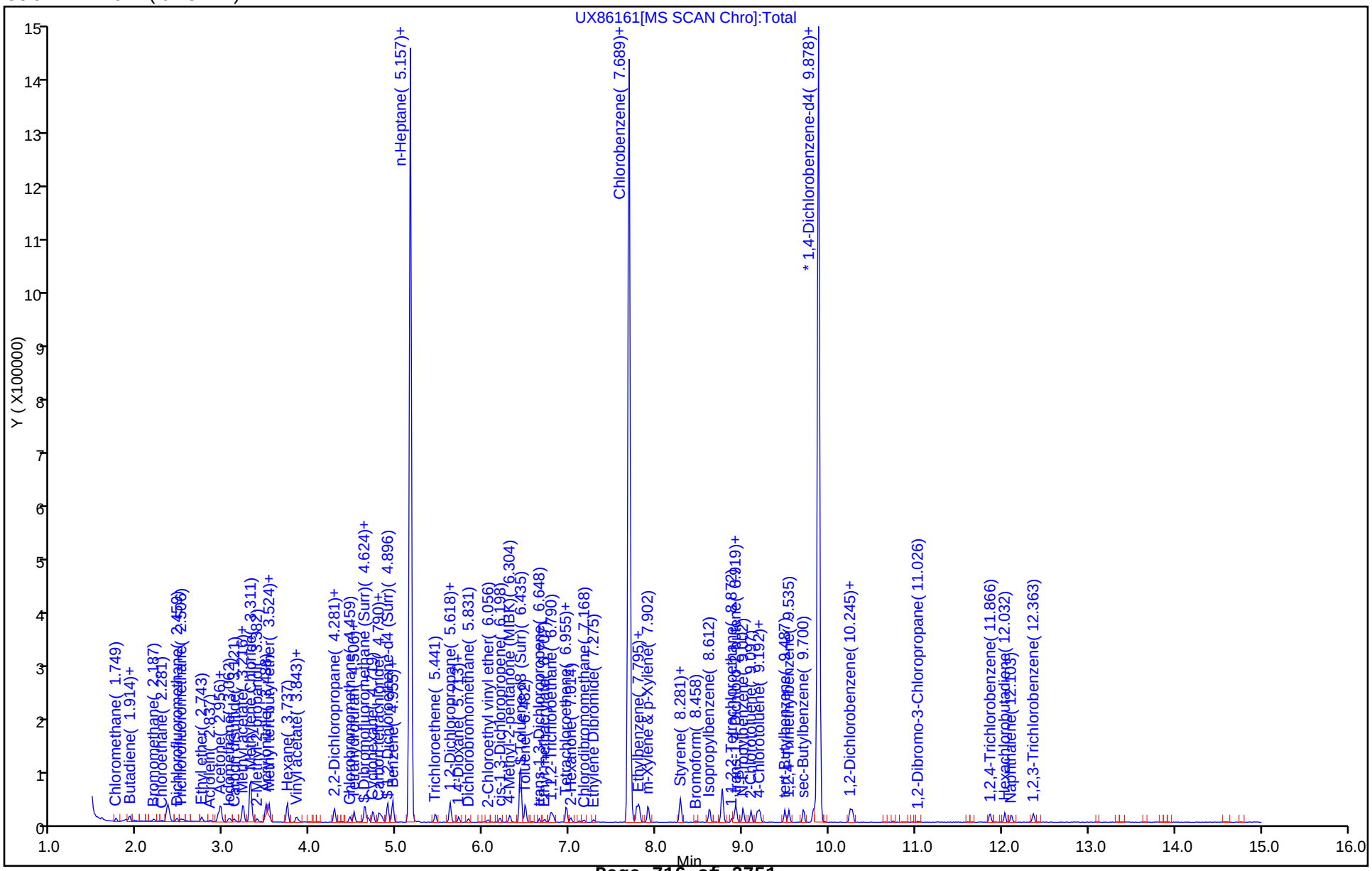
Report Date: 03-Mar-2015 23:34:50 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Injection Date:	03-Mar-2015 03:00:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	STD8260 L1			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-176233/12 Calibration Date: 04/13/2015 18:00

Instrument ID: A3UX14 Calib Start Date: 04/13/2015 14:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/13/2015 17:39

Lab File ID: 142384.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3123	0.3888	0.1000	0.0622	0.0500	24.5*	20.0
Chloromethane	Ave	0.3234	0.3363	0.1000	0.0520	0.0500	4.0	20.0
Vinyl chloride	Ave	0.3226	0.3331	0.1000	0.0516	0.0500	3.3	20.0
Bromomethane	Ave	0.2500	0.2441	0.0500	0.0488	0.0500	-2.4	20.0
Chloroethane	Lin1		0.1565	0.0500	0.0484	0.0500	-3.2	20.0
Dichlorofluoromethane	Ave	0.4942	0.4838		0.0489	0.0500	-2.1	20.0
Trichlorofluoromethane	Ave	0.4596	0.4778	0.1000	0.0520	0.0500	4.0	20.0
1,1-Dichloroethene	Ave	0.2298	0.2414	0.1000	0.0525	0.0500	5.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1786	0.1898	0.0500	0.0531	0.0500	6.3	20.0
Acetone	Lin1		0.0660	0.0500	0.110	0.100	10.5	20.0
Iodomethane	Ave	0.3039	0.3609		0.0594	0.0500	18.8	20.0
Carbon disulfide	Lin1		0.6943	0.1000	0.0544	0.0500	8.8	20.0
Methyl acetate	Ave	0.1658	0.1613	0.1000	0.243	0.250	-2.8	20.0
Methylene Chloride	Lin1		0.2633	0.1000	0.0518	0.0500	3.6	20.0
2-Methyl-2-propanol	Ave	0.0253	0.0240		0.475	0.500	-5.0	20.0
trans-1,2-Dichloroethene	Ave	0.2673	0.2831	0.1000	0.0530	0.0500	5.9	20.0
Methyl tert-butyl ether	Ave	0.7581	0.8082	0.1000	0.0533	0.0500	6.6	20.0
1,1-Dichloroethane	Ave	0.5476	0.5789	0.1000	0.0529	0.0500	5.7	20.0
Vinyl acetate	Ave	0.0175	0.0213		0.0606	0.0500	21.2*	20.0
2,2-Dichloropropane	Ave	0.2285	0.2212		0.0484	0.0500	-3.2	20.0
cis-1,2-Dichloroethene	Ave	0.2878	0.2936	0.1000	0.0510	0.0500	2.0	20.0
2-Butanone (MEK)	Ave	0.0876	0.0853	0.0500	0.0974	0.100	-2.6	20.0
Chlorobromomethane	Ave	0.1195	0.1179		0.0493	0.0500	-1.4	20.0
Chloroform	Ave	0.5154	0.5382	0.2000	0.0522	0.0500	4.4	20.0
1,1,1-Trichloroethane	Ave	0.4123	0.4415	0.1000	0.0535	0.0500	7.1	20.0
Cyclohexane	Ave	0.5068	0.5477	0.1000	0.0540	0.0500	8.1	20.0
Carbon tetrachloride	Ave	0.3807	0.4272	0.1000	0.0561	0.0500	12.2	20.0
1,1-Dichloropropene	Ave	0.3904	0.4393		0.0563	0.0500	12.5	20.0
Benzene	Ave	1.101	1.097	0.5000	0.0499	0.0500	-0.3	20.0
1,2-Dichloroethane	Ave	0.3578	0.3629	0.1000	0.0507	0.0500	1.4	20.0
Trichloroethene	Ave	0.2688	0.2694	0.2000	0.0501	0.0500	0.2	20.0
Methylcyclohexane	Ave	0.5063	0.5274	0.1000	0.0521	0.0500	4.2	20.0
1,2-Dichloropropane	Ave	0.2506	0.2537	0.1000	0.0506	0.0500	1.2	20.0
Dibromomethane	Ave	0.1298	0.1266		0.0488	0.0500	-2.5	20.0
1,4-Dioxane	Ave	0.0019	0.0019		0.997	1.00	-0.3	20.0
Dichlorobromomethane	Ave	0.3213	0.3372	0.1000	0.0525	0.0500	4.9	20.0
cis-1,3-Dichloropropene	Ave	0.3433	0.3662	0.1500	0.0533	0.0500	6.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2975	0.3007	0.0500	0.101	0.100	1.1	20.0
Toluene	Ave	1.741	1.700	0.4000	0.0488	0.0500	-2.3	20.0
trans-1,3-Dichloropropene	Ave	0.4325	0.5009	0.1000	0.0579	0.0500	15.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-176233/12 Calibration Date: 04/13/2015 18:00

Instrument ID: A3UX14 Calib Start Date: 04/13/2015 14:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/13/2015 17:39

Lab File ID: 142384.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Ave	0.2617	0.2583	0.1000	0.0493	0.0500	-1.3	20.0
Tetrachloroethene	Ave	0.3139	0.3094	0.2000	0.0493	0.0500	-1.4	20.0
1,3-Dichloropropane	Ave	0.4841	0.4731		0.0489	0.0500	-2.3	20.0
2-Hexanone	Ave	0.1763	0.1581	0.0500	0.0897	0.100	-10.3	20.0
Chlorodibromomethane	Ave	0.2824	0.3066		0.0543	0.0500	8.5	20.0
Ethylene Dibromide	Ave	0.2573	0.2450		0.0476	0.0500	-4.8	20.0
Chlorobenzene	Ave	0.9920	0.9558	0.3000	0.0482	0.0500	-3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3853	0.4062		0.0527	0.0500	5.4	20.0
Ethylbenzene	Ave	0.5699	0.5418		0.0475	0.0500	-4.9	20.0
m-Xylene & p-Xylene	Ave	0.6614	0.6583		0.0498	0.0500	-0.5	20.0
o-Xylene	Ave	0.7088	0.7095		0.0500	0.0500	0.1	20.0
Styrene	Ave	0.9186	0.9425	0.3000	0.0513	0.0500	2.6	20.0
Bromoform	Lin1		0.1549	0.1000	0.0451	0.0500	-9.8	20.0
Isopropylbenzene	Ave	2.017	2.075	0.1000	0.0514	0.0500	2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6654	0.6515	0.3000	0.0490	0.0500	-2.1	20.0
Bromobenzene	Ave	0.7497	0.7064		0.0471	0.0500	-5.8	20.0
1,2,3-Trichloropropane	Ave	0.2050	0.1935		0.0472	0.0500	-5.6	20.0
N-Propylbenzene	Ave	0.9567	0.9202		0.0481	0.0500	-3.8	20.0
2-Chlorotoluene	Ave	0.8096	0.8001		0.0494	0.0500	-1.2	20.0
1,3,5-Trimethylbenzene	Ave	3.232	3.227		0.0499	0.0500	-0.2	20.0
4-Chlorotoluene	Ave	0.7761	0.7224		0.0465	0.0500	-6.9	20.0
tert-Butylbenzene	Ave	2.919	3.022		0.0518	0.0500	3.5	20.0
1,2,4-Trimethylbenzene	Ave	3.185	3.171		0.0498	0.0500	-0.5	20.0
sec-Butylbenzene	Ave	4.228	4.392		0.0519	0.0500	3.9	20.0
1,3-Dichlorobenzene	Ave	1.546	1.389	0.6000	0.0449	0.0500	-10.2	20.0
4-Isopropyltoluene	Ave	3.478	3.466		0.0498	0.0500	-0.4	20.0
1,4-Dichlorobenzene	Ave	1.550	1.390	0.5000	0.0448	0.0500	-10.4	20.0
n-Butylbenzene	Ave	3.330	3.172		0.0476	0.0500	-4.8	20.0
1,2-Dichlorobenzene	Ave	1.486	1.370	0.4000	0.0461	0.0500	-7.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1130	0.1085	0.0500	0.0480	0.0500	-3.9	20.0
1,2,4-Trichlorobenzene	Ave	1.141	0.9699	0.2000	0.0425	0.0500	-15.0	20.0
Hexachlorobutadiene	Ave	0.6986	0.6298		0.0451	0.0500	-9.9	20.0
Naphthalene	Ave	2.292	2.101		0.0458	0.0500	-8.3	20.0
1,2,3-Trichlorobenzene	Ave	1.037	0.8553		0.0413	0.0500	-17.5	20.0
Dibromofluoromethane (Surr)	Lin1		0.2480		0.0475	0.0500	-5.1	20.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.3001		0.0480	0.0500	-4.0	20.0
Toluene-d8 (Surr)	Lin1		1.451		0.0484	0.0500	-3.1	20.0
4-Bromofluorobenzene (Surr)	Lin1		0.9165		0.0457	0.0500	-8.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142384.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 13-Apr-2015 18:00:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 240-0042511-012240-0042511-012
Operator ID: 002808 Instrument ID: A3UX14
Sublist:

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:48 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 15:08:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1386313	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	840125	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	97	435444	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.978	5.978	0.000	92	343769	50.0	47.5	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	94	416080	50.0	48.0	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	94	1219188	50.0	48.4	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	399066	50.0	45.7	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	538949	50.0	62.2	
12 Chloromethane	50	1.481	1.481	0.000	99	466146	50.0	52.0	
13 Vinyl chloride	62	1.600	1.600	0.000	98	461832	50.0	51.6	
14 Butadiene	54	1.623	1.623	0.000	93	445496	50.0	52.6	
15 Bromomethane	94	1.907	1.907	0.000	89	338399	50.0	48.8	
17 Chloroethane	64	2.002	2.002	0.000	99	216937	50.0	48.4	
18 Dichlorofluoromethane	67	2.250	2.262	-0.012	97	670697	50.0	48.9	
19 Trichlorofluoromethane	101	2.286	2.298	-0.012	97	662426	50.0	52.0	
20 Ethyl ether	59	2.641	2.641	0.000	94	299375	50.0	55.3	
21 Acrolein	56	2.818	2.818	0.000	99	149934	250.0	244.4	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	93	334678	50.0	52.5	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	95	263138	50.0	53.1	
26 Acetone	43	3.031	3.031	0.000	98	183042	100.0	110.5	
27 Iodomethane	142	3.079	3.091	-0.012	98	500321	50.0	59.4	
28 Carbon disulfide	76	3.150	3.150	0.000	99	962482	50.0	54.4	
29 3-Chloro-1-propene	76	3.398	3.398	0.000	91	201717	50.0	50.8	
31 Methyl acetate	43	3.481	3.481	0.000	99	1117708	250.0	243.1	
32 Methylene Chloride	84	3.599	3.599	0.000	97	364992	50.0	51.8	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	98	333282	500.0	474.9	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	94	392515	50.0	53.0	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	95	1120343	50.0	53.3	
36 Acrylonitrile	53	4.037	4.037	0.000	98	996093	500.0	498.8	
37 Hexane	86	4.404	4.404	0.000	94	99775	50.0	52.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	97	802533	50.0	52.9	
41 Vinyl acetate	86	4.771	4.783	-0.012	97	29481	50.0	60.6	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	90	306691	50.0	48.4	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	407053	50.0	51.0	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	100	236505	100.0	97.4	
48 Chlorobromomethane	128	5.694	5.694	0.000	95	163379	50.0	49.3	
50 Tetrahydrofuran	42	5.741	5.741	0.000	89	166350	100.0	97.6	
51 Chloroform	83	5.800	5.800	0.000	94	746038	50.0	52.2	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	97	612109	50.0	53.5	
53 Cyclohexane	56	5.990	5.990	0.000	94	759315	50.0	54.0	
54 Carbon tetrachloride	117	6.120	6.120	0.000	97	592183	50.0	56.1	
55 1,1-Dichloropropene	75	6.132	6.132	0.000	95	609032	50.0	56.3	
56 Benzene	78	6.356	6.356	0.000	97	1521465	50.0	49.9	
57 Isobutyl alcohol	41	6.392	6.392	0.000	96	245721	1250.0	1212.5	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	503126	50.0	50.7	
60 n-Heptane	100	6.640	6.640	0.000	95	97896	50.0	56.5	
61 Trichloroethene	130	7.007	7.007	0.000	96	373427	50.0	50.1	
64 Methylcyclohexane	83	7.161	7.161	0.000	94	731198	50.0	52.1	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	93	351707	50.0	50.6	
67 Dibromomethane	93	7.350	7.350	0.000	95	175501	50.0	48.8	
69 1,4-Dioxane	88	7.386	7.386	0.000	96	52306	1000.0	996.8	
70 Dichlorobromomethane	83	7.504	7.504	0.000	99	467398	50.0	52.5	
72 2-Chloroethyl vinyl ether	63	7.788	7.788	0.000	92	169518	60.0	61.8	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.001	94	507625	50.0	53.3	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	505294	100.0	101.1	
76 Toluene	91	8.191	8.191	0.001	97	1428093	50.0	48.8	
77 trans-1,3-Dichloropropene	75	8.404	8.403	0.001	94	420855	50.0	57.9	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	264861	50.0	56.5	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	91	216975	50.0	49.3	
80 Tetrachloroethene	164	8.664	8.664	0.000	95	259970	50.0	49.3	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	397440	50.0	48.9	
82 2-Hexanone	43	8.782	8.782	0.000	99	265678	100.0	89.7	
84 Chlorodibromomethane	129	8.901	8.900	0.001	93	257538	50.0	54.3	
85 Ethylene Dibromide	107	8.995	8.995	0.000	98	205848	50.0	47.6	
87 Chlorobenzene	112	9.409	9.409	0.000	92	802987	50.0	48.2	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	93	341271	50.0	52.7	
89 Ethylbenzene	106	9.492	9.492	0.000	99	455169	50.0	47.5	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	553040	50.0	49.8	
91 o-Xylene	106	9.930	9.930	0.000	98	596057	50.0	50.0	
92 Styrene	104	9.954	9.954	0.000	94	791849	50.0	51.3	
93 Bromoform	173	10.119	10.119	0.000	95	130132	50.0	45.1	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	1743223	50.0	51.4	
97 Bromobenzene	156	10.510	10.510	0.000	96	307577	50.0	47.1	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.510	0.000	93	283690	50.0	49.0	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	84	84242	50.0	47.2	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	78	82948	50.0	52.9	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	400677	50.0	48.1	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	348402	50.0	49.4	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	93	1405222	50.0	49.9	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	314584	50.0	46.5	
105 tert-Butylbenzene	119	11.007	11.007	0.000	92	1315859	50.0	51.8	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	95	1380635	50.0	49.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	95	1912562	50.0	51.9	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	604745	50.0	44.9	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	97	1509290	50.0	49.8	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	94	605053	50.0	44.8	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	1381070	50.0	47.6	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	96	596720	50.0	46.1	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	78	47261	50.0	48.0	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	93	422350	50.0	42.5	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	98	274230	50.0	45.1	
121 Naphthalene	128	13.231	13.231	0.000	98	914816	50.0	45.8	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	94	372419	50.0	41.3	
S 136 Xylenes, Total	106				0		100.0	99.8	
S 137 Trihalomethanes, Total	1				0		200.0	204.1	

Reagents:

VMFASAW_00077	Amount Added:	5.00	Units: uL	
VMFASPW_00094	Amount Added:	5.00	Units: uL	
VMFASGW_00090	Amount Added:	5.00	Units: uL	
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VM250SS_00030	Amount Added:	1.00	Units: uL	Run Reagent

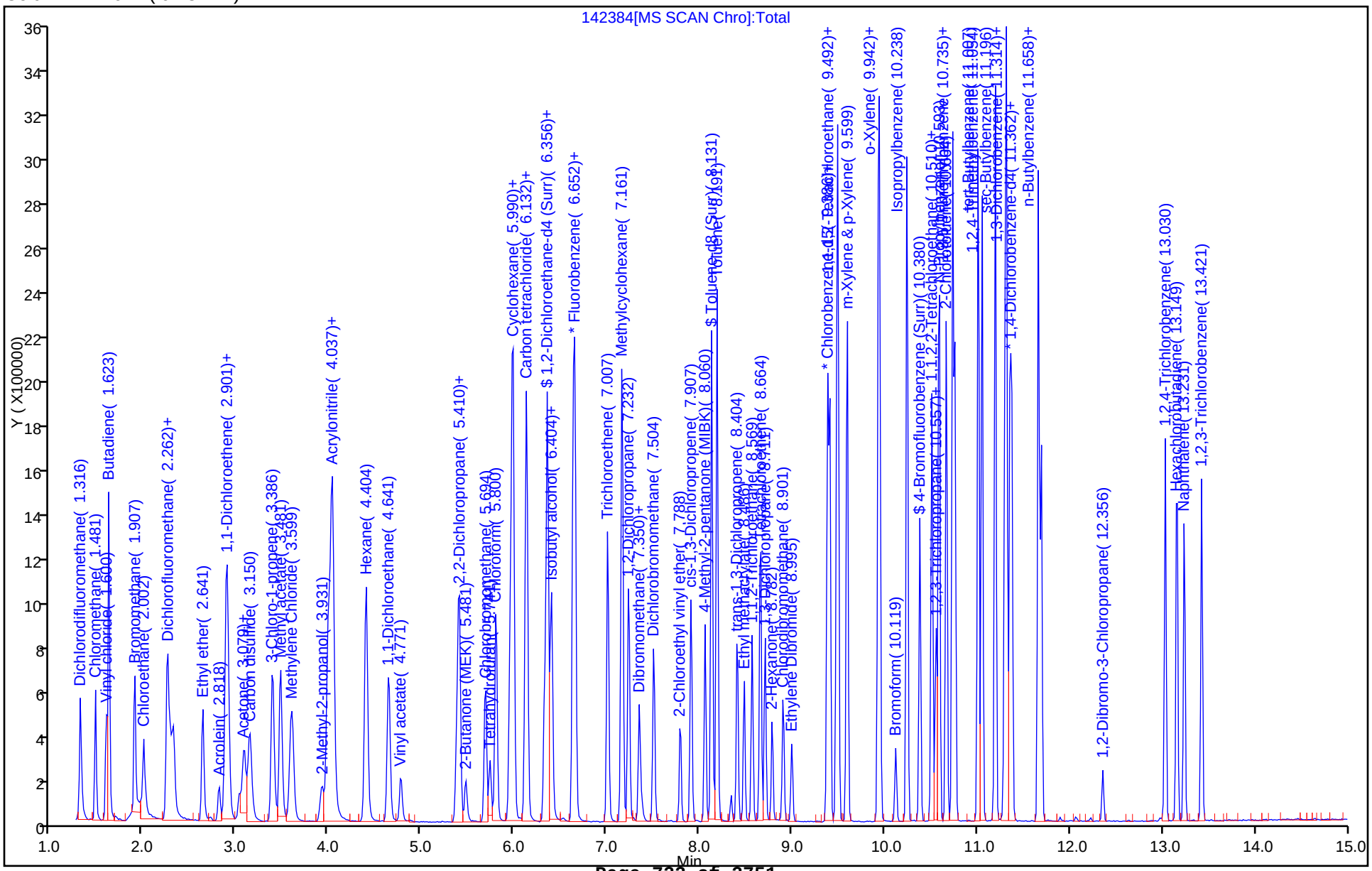
Report Date: 15-Apr-2015 13:05:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142384.D

Injection Date:	13-Apr-2015 18:00:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-176387/3 Calibration Date: 04/14/2015 12:58

Instrument ID: A3UX14 Calib Start Date: 04/13/2015 14:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/13/2015 17:39

Lab File ID: 142398.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3123	0.3456	0.1000	0.0553	0.0500	10.6	20.0
Chloromethane	Ave	0.3234	0.3484	0.1000	0.0539	0.0500	7.7	20.0
Vinyl chloride	Ave	0.3226	0.3500	0.1000	0.0542	0.0500	8.5	20.0
Bromomethane	Ave	0.2500	0.2776	0.0500	0.0555	0.0500	11.0	20.0
Chloroethane	Lin1		0.1771	0.0500	0.0548	0.0500	9.6	20.0
Dichlorofluoromethane	Ave	0.4942	0.5901		0.0597	0.0500	19.4	20.0
Trichlorofluoromethane	Ave	0.4596	0.5352	0.1000	0.0582	0.0500	16.4	20.0
1,1-Dichloroethene	Ave	0.2298	0.2503	0.1000	0.0545	0.0500	8.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1786	0.1914	0.0500	0.0536	0.0500	7.2	20.0
Acetone	Lin1		0.0645	0.0500	0.108	0.100	7.8	20.0
Iodomethane	Ave	0.3039	0.3364		0.0553	0.0500	10.7	20.0
Carbon disulfide	Lin1		0.6565	0.1000	0.0515	0.0500	3.0	20.0
Methyl acetate	Ave	0.1658	0.1692	0.1000	0.255	0.250	2.0	20.0
Methylene Chloride	Lin1		0.2880	0.1000	0.0570	0.0500	13.9	20.0
2-Methyl-2-propanol	Ave	0.0253	0.0243		0.479	0.500	-4.2	20.0
trans-1,2-Dichloroethene	Ave	0.2673	0.2900	0.1000	0.0542	0.0500	8.5	20.0
Methyl tert-butyl ether	Ave	0.7581	0.8372	0.1000	0.0552	0.0500	10.4	20.0
1,1-Dichloroethane	Ave	0.5476	0.6138	0.1000	0.0560	0.0500	12.1	20.0
Vinyl acetate	Ave	0.0175	0.0165		0.0452	0.0480	-5.8	20.0
2,2-Dichloropropane	Ave	0.2285	0.2912		0.0637	0.0500	27.4*	20.0
cis-1,2-Dichloroethene	Ave	0.2878	0.3125	0.1000	0.0543	0.0500	8.6	20.0
2-Butanone (MEK)	Ave	0.0876	0.0882	0.0500	0.101	0.100	0.7	20.0
Chlorobromomethane	Ave	0.1195	0.1196		0.0501	0.0500	0.1	20.0
Chloroform	Ave	0.5154	0.5735	0.2000	0.0556	0.0500	11.3	20.0
1,1,1-Trichloroethane	Ave	0.4123	0.4928	0.1000	0.0598	0.0500	19.5	20.0
Cyclohexane	Ave	0.5068	0.5885	0.1000	0.0581	0.0500	16.1	20.0
Carbon tetrachloride	Ave	0.3807	0.4556	0.1000	0.0598	0.0500	19.7	20.0
1,1-Dichloropropene	Ave	0.3904	0.4283		0.0549	0.0500	9.7	20.0
Benzene	Ave	1.101	1.186	0.5000	0.0539	0.0500	7.7	20.0
1,2-Dichloroethane	Ave	0.3578	0.3915	0.1000	0.0547	0.0500	9.4	20.0
Trichloroethene	Ave	0.2688	0.2851	0.2000	0.0530	0.0500	6.1	20.0
Methylcyclohexane	Ave	0.5063	0.5822	0.1000	0.0575	0.0500	15.0	20.0
1,2-Dichloropropane	Ave	0.2506	0.2723	0.1000	0.0543	0.0500	8.6	20.0
Dibromomethane	Ave	0.1298	0.1359		0.0524	0.0500	4.7	20.0
1,4-Dioxane	Ave	0.0019	0.0019		0.981	1.00	-1.9	20.0
Dichlorobromomethane	Ave	0.3213	0.3576	0.1000	0.0556	0.0500	11.3	20.0
cis-1,3-Dichloropropene	Ave	0.3433	0.3818	0.1500	0.0556	0.0500	11.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2975	0.3228	0.0500	0.108	0.100	8.5	20.0
Toluene	Ave	1.741	1.841	0.4000	0.0529	0.0500	5.7	20.0
trans-1,3-Dichloropropene	Ave	0.4325	0.4951	0.1000	0.0572	0.0500	14.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-176387/3 Calibration Date: 04/14/2015 12:58

Instrument ID: A3UX14 Calib Start Date: 04/13/2015 14:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/13/2015 17:39

Lab File ID: 142398.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Ave	0.2617	0.2693	0.1000	0.0514	0.0500	2.9	20.0
Tetrachloroethene	Ave	0.3139	0.3465	0.2000	0.0552	0.0500	10.4	20.0
1,3-Dichloropropane	Ave	0.4841	0.5089		0.0526	0.0500	5.1	20.0
2-Hexanone	Ave	0.1763	0.1715	0.0500	0.0973	0.100	-2.7	20.0
Chlorodibromomethane	Ave	0.2824	0.3188		0.0564	0.0500	12.9	20.0
Ethylene Dibromide	Ave	0.2573	0.2501		0.0486	0.0500	-2.8	20.0
Chlorobenzene	Ave	0.9920	1.025	0.3000	0.0517	0.0500	3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3853	0.4327		0.0561	0.0500	12.3	20.0
Ethylbenzene	Ave	0.5699	0.6148		0.0539	0.0500	7.9	20.0
m-Xylene & p-Xylene	Ave	0.6614	0.7525		0.0569	0.0500	13.8	20.0
o-Xylene	Ave	0.7088	0.7980		0.0563	0.0500	12.6	20.0
Styrene	Ave	0.9186	1.020	0.3000	0.0555	0.0500	11.1	20.0
Bromoform	Lin1		0.1598	0.1000	0.0465	0.0500	-7.0	20.0
Isopropylbenzene	Ave	2.017	2.286	0.1000	0.0567	0.0500	13.3	20.0
Bromobenzene	Ave	0.7497	0.7763		0.0518	0.0500	3.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6654	0.6825	0.3000	0.0513	0.0500	2.6	20.0
1,2,3-Trichloropropane	Ave	0.2050	0.2207		0.0538	0.0500	7.6	20.0
N-Propylbenzene	Ave	0.9567	1.079		0.0564	0.0500	12.8	20.0
2-Chlorotoluene	Ave	0.8096	0.9075		0.0560	0.0500	12.1	20.0
1,3,5-Trimethylbenzene	Ave	3.232	3.769		0.0583	0.0500	16.6	20.0
4-Chlorotoluene	Ave	0.7761	0.8432		0.0543	0.0500	8.6	20.0
tert-Butylbenzene	Ave	2.919	3.390		0.0581	0.0500	16.1	20.0
1,2,4-Trimethylbenzene	Ave	3.185	3.697		0.0580	0.0500	16.1	20.0
sec-Butylbenzene	Ave	4.228	5.067		0.0599	0.0500	19.8	20.0
1,3-Dichlorobenzene	Ave	1.546	1.622	0.6000	0.0524	0.0500	4.9	20.0
4-Isopropyltoluene	Ave	3.478	4.050		0.0582	0.0500	16.4	20.0
1,4-Dichlorobenzene	Ave	1.550	1.579	0.5000	0.0509	0.0500	1.9	20.0
n-Butylbenzene	Ave	3.330	3.929		0.0590	0.0500	18.0	20.0
1,2-Dichlorobenzene	Ave	1.486	1.555	0.4000	0.0523	0.0500	4.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1130	0.1126	0.0500	0.0498	0.0500	-0.4	20.0
1,2,4-Trichlorobenzene	Ave	1.141	1.138	0.2000	0.0499	0.0500	-0.2	20.0
Hexachlorobutadiene	Ave	0.6986	0.7397		0.0529	0.0500	5.9	20.0
Naphthalene	Ave	2.292	2.250		0.0491	0.0500	-1.8	20.0
1,2,3-Trichlorobenzene	Ave	1.037	1.004		0.0484	0.0500	-3.2	20.0
Dibromofluoromethane (Surr)	Lin1		0.2675		0.0513	0.0500	2.7	20.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.3302		0.0530	0.0500	6.0	20.0
Toluene-d8 (Surr)	Lin1		1.596		0.0536	0.0500	7.1	20.0
4-Bromofluorobenzene (Surr)	Lin1		1.047		0.0526	0.0500	5.1	20.0

Report Date: 15-Apr-2015 13:28:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142398.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Apr-2015 12:58:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 240-0042552-003240-0042552-003
Operator ID: 002808 Instrument ID: A3UX14
Sublist: chrom-8260_14*sub40

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:46 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 13:22:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	97	1221051	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	749206	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	87	384224	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.990	0.000	45	326684	50.0	51.3	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	93	403205	50.0	53.0	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	83	1195847	50.0	53.6	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	80	402196	50.0	52.6	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	87	421937	50.0	55.3	
12 Chloromethane	50	1.481	1.481	0.000	88	425367	50.0	53.9	
13 Vinyl chloride	62	1.600	1.600	0.000	83	427318	50.0	54.2	
14 Butadiene	54	1.623	1.623	0.000	93	435610	50.0	58.4	
15 Bromomethane	94	1.907	1.907	0.000	88	338932	50.0	55.5	
17 Chloroethane	64	2.002	2.002	0.000	99	216183	50.0	54.8	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	83	720568	50.0	59.7	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	88	653458	50.0	58.2	
20 Ethyl ether	59	2.641	2.641	0.000	92	251478	50.0	52.7	
21 Acrolein	56	2.818	2.818	0.000	92	135974	250.0	251.7	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	95	305651	50.0	54.5	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	86	233760	50.0	53.6	
26 Acetone	43	3.031	3.031	0.000	94	157588	100.0	107.8	
27 Iodomethane	142	3.079	3.079	0.000	98	410724	50.0	55.3	
28 Carbon disulfide	76	3.150	3.150	0.000	100	801563	50.0	51.5	
29 3-Chloro-1-propene	76	3.386	3.386	0.000	88	201332	50.0	57.6	
31 Methyl acetate	43	3.469	3.469	0.000	97	1033044	250.0	255.1	
32 Methylene Chloride	84	3.588	3.588	0.000	93	351622	50.0	57.0	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	96	296121	500.0	479.1	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	90	354041	50.0	54.2	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	87	1022227	50.0	55.2	
36 Acrylonitrile	53	4.037	4.037	0.000	99	917096	500.0	521.4	
37 Hexane	86	4.404	4.404	0.000	95	83612	50.0	49.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	4.641	4.641	0.000	85	749442	50.0	56.0	
41 Vinyl acetate	86	4.783	4.783	0.000	96	19367	48.0	45.2	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	85	355504	50.0	63.7	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	72	381586	50.0	54.3	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	97	215421	100.0	100.7	
48 Chlorobromomethane	128	5.694	5.694	0.000	92	146075	50.0	50.1	
50 Tetrahydrofuran	42	5.741	5.741	0.000	89	155652	100.0	103.7	
51 Chloroform	83	5.800	5.800	0.000	80	700275	50.0	55.6	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	91	601673	50.0	59.8	
53 Cyclohexane	56	5.990	5.990	0.000	94	718575	50.0	58.1	
54 Carbon tetrachloride	117	6.120	6.120	0.000	81	556262	50.0	59.8	
55 1,1-Dichloropropene	75	6.143	6.143	0.000	93	523003	50.0	54.9	
56 Benzene	78	6.356	6.356	0.000	97	1447867	50.0	53.9	
57 Isobutyl alcohol	41	6.392	6.392	0.000	92	223907	1250.0	1254.4	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	78	478024	50.0	54.7	
60 n-Heptane	100	6.640	6.640	0.000	92	90526	50.0	59.3	
61 Trichloroethene	130	7.007	7.007	0.000	89	348175	50.0	53.0	
64 Methylcyclohexane	83	7.161	7.161	0.000	88	710936	50.0	57.5	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	91	332430	50.0	54.3	
67 Dibromomethane	93	7.350	7.350	0.000	87	165955	50.0	52.4	
69 1,4-Dioxane	88	7.386	7.386	0.000	87	45329	1000.0	980.7	
70 Dichlorobromomethane	83	7.504	7.504	0.000	93	436629	50.0	55.6	
72 2-Chloroethyl vinyl ether	63	7.800	7.800	0.000	91	268855	100.0	111.2	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.000	90	466131	50.0	55.6	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	74	483641	100.0	108.5	
76 Toluene	91	8.191	8.191	0.000	96	1379006	50.0	52.9	
77 trans-1,3-Dichloropropene	75	8.404	8.404	0.000	94	370910	50.0	57.2	
78 Ethyl methacrylate	69	8.486	8.486	0.000	92	240331	50.0	57.4	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	89	201758	50.0	51.4	
80 Tetrachloroethene	164	8.664	8.664	0.000	86	259561	50.0	55.2	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	89	381278	50.0	52.6	
82 2-Hexanone	43	8.782	8.782	0.000	99	256945	100.0	97.3	
84 Chlorodibromomethane	129	8.901	8.901	0.000	90	238842	50.0	56.4	
85 Ethylene Dibromide	107	8.995	8.995	0.000	99	187356	50.0	48.6	
87 Chlorobenzene	112	9.409	9.409	0.000	90	767913	50.0	51.7	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	87	324143	50.0	56.1	
89 Ethylbenzene	106	9.504	9.504	0.000	98	460622	50.0	53.9	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	563754	50.0	56.9	
91 o-Xylene	106	9.930	9.930	0.000	99	597879	50.0	56.3	
92 Styrene	104	9.954	9.954	0.000	94	764345	50.0	55.5	
93 Bromoform	173	10.119	10.119	0.000	89	119697	50.0	46.5	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	1712694	50.0	56.7	
97 Bromobenzene	156	10.510	10.510	0.000	80	298256	50.0	51.8	
96 1,1,2,2-Tetrachloroethane	83	10.522	10.522	0.000	83	262233	50.0	51.3	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	40	84802	50.0	53.8	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	15	79971	50.0	57.8	
100 N-Propylbenzene	120	10.593	10.593	0.000	96	414726	50.0	56.4	
101 2-Chlorotoluene	126	10.664	10.664	0.000	93	348666	50.0	56.0	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	92	1448234	50.0	58.3	
103 4-Chlorotoluene	126	10.758	10.758	0.000	98	323964	50.0	54.3	
105 tert-Butylbenzene	119	11.007	11.007	0.000	80	1302635	50.0	58.1	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	68	1420298	50.0	58.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 sec-Butylbenzene	105	11.196	11.196	0.000	95	1946930	50.0	59.9	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	84	623087	50.0	52.4	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	84	1556204	50.0	58.2	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	90	606867	50.0	50.9	
115 n-Butylbenzene	91	11.658	11.658	0.000	97	1509589	50.0	59.0	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	96	597469	50.0	52.3	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	70	43245	50.0	49.8	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	90	437275	50.0	49.9	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	93	284210	50.0	52.9	
121 Naphthalene	128	13.231	13.231	0.000	98	864562	50.0	49.1	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	90	385597	50.0	48.4	
S 134 1,2-Dichloroethene, Total	96				0		100.0	108.5	
S 135 1,3-Dichloropropene, Total	75				0		100.0	112.8	
S 136 Xylenes, Total	106				0		100.0	113.2	
S 137 Trihalomethanes, Total	1				0		200.0	214.2	

Reagents:

vm50ss_00197	Amount Added:	5.00	Units: uL
VMRGAS_00097	Amount Added:	5.00	Units: uL
VMAROLISTDW_00095	Amount Added:	5.00	Units: uL
VMRPRIMW_00121	Amount Added:	5.00	Units: uL
VM250-IS_00028	Amount Added:	1.00	Units: uL

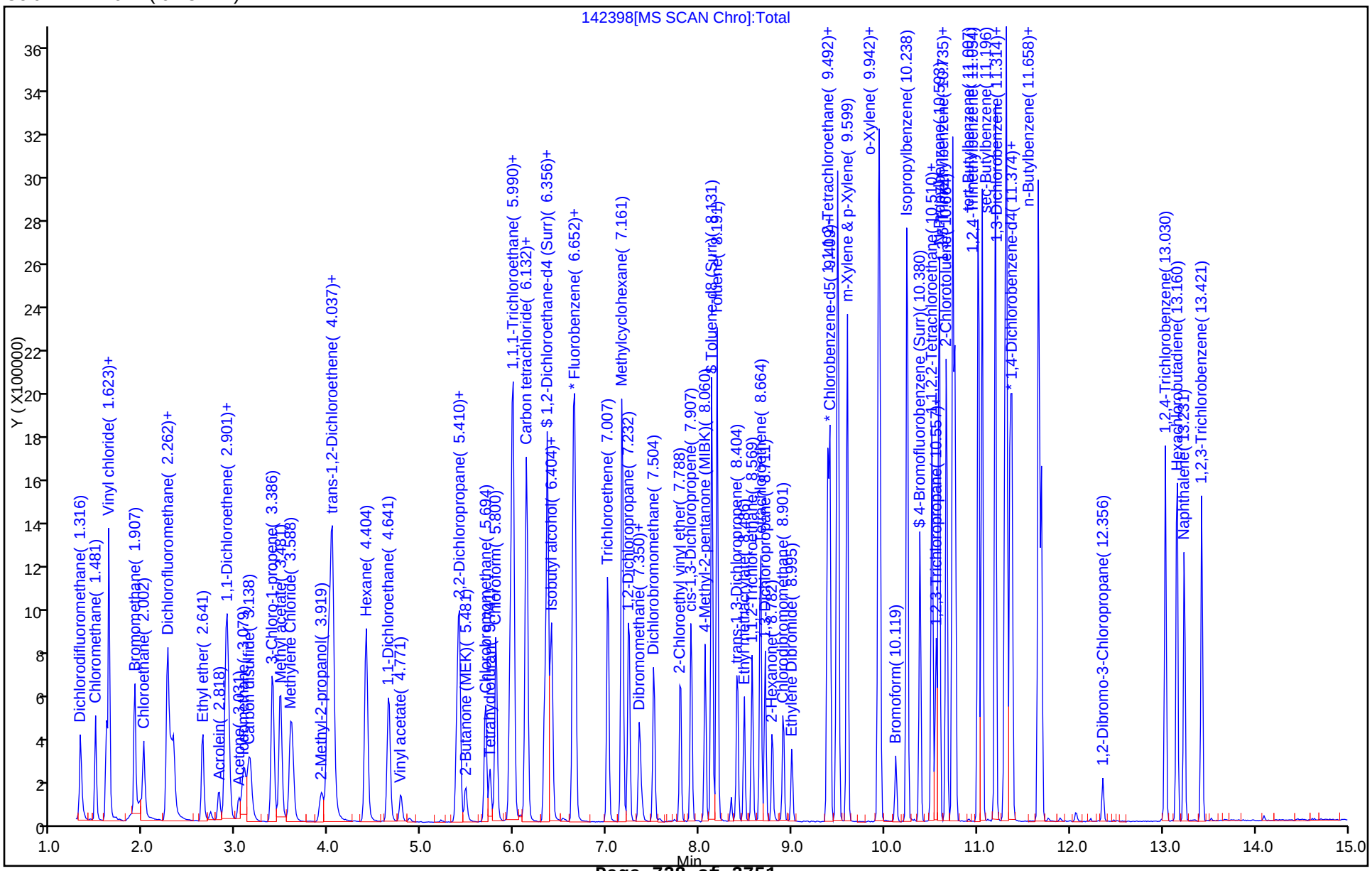
Report Date: 15-Apr-2015 13:28:47 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142398.D

Injection Date:	14-Apr-2015 12:58:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-175604/8 Calibration Date: 04/08/2015 15:15

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7072.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1843	0.1350	0.1000	0.00732	0.0100	-26.8*	20.0
Chloromethane	Ave	0.2536	0.2176	0.1000	0.00858	0.0100	-14.2	20.0
Vinyl chloride	Ave	0.2786	0.2390	0.1000	0.00858	0.0100	-14.2	20.0
Bromomethane	Ave	0.1343	0.1103	0.0500	0.00821	0.0100	-17.9	20.0
Chloroethane	Ave	0.1634	0.1452	0.0500	0.00888	0.0100	-11.2	20.0
Dichlorofluoromethane	Ave	0.3657	0.3367		0.00921	0.0100	-7.9	20.0
Trichlorofluoromethane	Ave	0.2428	0.2383	0.1000	0.00981	0.0100	-1.9	20.0
Ethyl ether	Ave	0.1803	0.1843		0.0102	0.0100	2.2	20.0
Acrolein	Ave	0.0233	0.0234		0.0502	0.0500	0.4	20.0
1,1-Dichloroethene	Ave	0.2023	0.2097	0.1000	0.0104	0.0100	3.7	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1572	0.1622	0.0500	0.0103	0.0100	3.2	20.0
Acetone	Ave	0.0604	0.0585	0.0500	0.0194	0.0200	-3.2	20.0
Iodomethane	Ave	0.3182	0.3423		0.0108	0.0100	7.6	20.0
Carbon disulfide	Ave	0.6221	0.6706	0.1000	0.0108	0.0100	7.8	20.0
3-Chloro-1-propene	Ave	0.1377	0.1290		0.00937	0.0100	-6.3	20.0
Methyl acetate	Ave	0.1332	0.1374	0.1000	0.0516	0.0500	3.2	20.0
Methylene Chloride	Lin1		0.2585	0.1000	0.0105	0.0100	4.7	20.0
2-Methyl-2-propanol	Ave	0.0128	0.0123		0.0964	0.100	-3.6	20.0
Acrylonitrile	Ave	0.0691	0.0686		0.0993	0.100	-0.7	20.0
Methyl tert-butyl ether	Ave	0.5917	0.6062	0.1000	0.0102	0.0100	2.4	20.0
trans-1,2-Dichloroethene	Ave	0.2427	0.2420	0.1000	0.00997	0.0100	-0.3	20.0
Hexane	Ave	0.0585	0.0671		0.0115	0.0100	14.6	20.0
1,1-Dichloroethane	Ave	0.3969	0.4158	0.1000	0.0105	0.0100	4.8	20.0
Vinyl acetate	Ave	0.1675	0.1183		0.00706	0.0100	-29.4*	20.0
2-Butanone (MEK)	Ave	0.0752	0.0759	0.0500	0.0202	0.0200	0.9	20.0
cis-1,2-Dichloroethene	Ave	0.2590	0.2616	0.1000	0.0101	0.0100	1.0	20.0
2,2-Dichloropropane	Ave	0.2543	0.2481		0.00976	0.0100	-2.4	20.0
Bromochloromethane	Ave	0.1215	0.1212		0.00998	0.0100	-0.2	20.0
Chloroform	Ave	0.3887	0.3881	0.2000	0.00999	0.0100	-0.1	20.0
1,1,1-Trichloroethane	Ave	0.2957	0.3004	0.1000	0.0102	0.0100	1.6	20.0
Cyclohexane	Ave	0.3656	0.3762	0.1000	0.0103	0.0100	2.9	20.0
1,1-Dichloropropene	Ave	0.2996	0.3204		0.0107	0.0100	6.9	20.0
Carbon tetrachloride	Ave	0.2428	0.2510	0.1000	0.0103	0.0100	3.4	20.0
Isobutyl alcohol	Ave	0.0044	0.0040		0.223	0.250	-10.9	20.0
1,2-Dichloroethane	Ave	0.2704	0.2706	0.1000	0.0100	0.0100	0.0	20.0
Benzene	Ave	1.002	0.9932	0.5000	0.00991	0.0100	-0.9	20.0
Trichloroethene	Ave	0.2546	0.2585	0.2000	0.0102	0.0100	1.5	20.0
Methylcyclohexane	Ave	0.3877	0.3879	0.1000	0.0100	0.0100	0.0	20.0
1,2-Dichloropropane	Ave	0.2267	0.2249	0.1000	0.00992	0.0100	-0.8	20.0
Dibromomethane	Ave	0.1203	0.1212		0.0101	0.0100	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-175604/8 Calibration Date: 04/08/2015 15:15

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7072.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.0017	0.0016		0.193	0.200	-3.3	20.0
Bromodichloromethane	Ave	0.2785	0.2746	0.1000	0.00986	0.0100	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1194	0.1182		0.0119	0.0120	-1.0	20.0
cis-1,3-Dichloropropene	Ave	0.3280	0.3388	0.1500	0.0103	0.0100	3.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1486	0.1470	0.0500	0.0198	0.0200	-1.0	20.0
Toluene	Ave	1.481	1.477	0.4000	0.00998	0.0100	-0.2	20.0
trans-1,3-Dichloropropene	Ave	0.3760	0.4124	0.1000	0.0110	0.0100	9.7	20.0
Ethyl methacrylate	Ave	0.3039	0.3135		0.0103	0.0100	3.1	20.0
1,1,2-Trichloroethane	Ave	0.2656	0.2559	0.1000	0.00964	0.0100	-3.6	20.0
1,3-Dichloropropane	Ave	0.4708	0.4586		0.00974	0.0100	-2.6	20.0
Tetrachloroethene	Ave	0.2804	0.2884	0.2000	0.0103	0.0100	2.8	20.0
2-Hexanone	Ave	0.1447	0.1415	0.0500	0.0196	0.0200	-2.2	20.0
Dibromochloromethane	Ave	0.2720	0.2725		0.0100	0.0100	0.2	20.0
1,2-Dibromoethane	Ave	0.2521	0.2526		0.0100	0.0100	0.2	20.0
Chlorobenzene	Ave	0.9491	0.9260	0.3000	0.00976	0.0100	-2.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3021	0.2978		0.00986	0.0100	-1.4	20.0
Ethylbenzene	Ave	0.5076	0.5078		0.0100	0.0100	0.0	20.0
m-Xylene & p-Xylene	Ave	0.6356	0.6337		0.00997	0.0100	-0.3	20.0
o-Xylene	Ave	0.6141	0.6176		0.0101	0.0100	0.6	20.0
Styrene	Ave	0.9843	0.9112	0.3000	0.00926	0.0100	-7.4	20.0
Bromoform	Ave	0.1657	0.1625	0.1000	0.00980	0.0100	-2.0	20.0
Isopropylbenzene	Ave	1.625	1.596	0.1000	0.00982	0.0100	-1.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5868	0.5613	0.3000	0.00957	0.0100	-4.3	20.0
Bromobenzene	Ave	0.7228	0.7188		0.00994	0.0100	-0.6	20.0
1,2,3-Trichloropropane	Ave	0.1823	0.1767		0.00969	0.0100	-3.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1434	0.1424		0.00993	0.0100	-0.7	20.0
N-Propylbenzene	Ave	0.7916	0.7835		0.00990	0.0100	-1.0	20.0
2-Chlorotoluene	Ave	0.6834	0.6608		0.00967	0.0100	-3.3	20.0
1,3,5-Trimethylbenzene	Ave	2.398	2.370		0.00988	0.0100	-1.2	20.0
4-Chlorotoluene	Ave	0.7270	0.7015		0.00965	0.0100	-3.5	20.0
tert-Butylbenzene	Ave	2.090	2.047		0.00979	0.0100	-2.1	20.0
1,2,4-Trimethylbenzene	Ave	2.508	2.394		0.00955	0.0100	-4.5	20.0
sec-Butylbenzene	Ave	3.014	2.877		0.00955	0.0100	-4.5	20.0
1,3-Dichlorobenzene	Ave	1.414	1.377	0.6000	0.00973	0.0100	-2.7	20.0
4-Isopropyltoluene	Ave	2.630	2.507		0.00953	0.0100	-4.7	20.0
1,4-Dichlorobenzene	Ave	1.449	1.383	0.5000	0.00955	0.0100	-4.5	20.0
n-Butylbenzene	Ave	2.195	2.110		0.00961	0.0100	-3.9	20.0
1,2-Dichlorobenzene	Ave	1.338	1.298	0.4000	0.00970	0.0100	-3.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0983	0.0971	0.0500	0.00988	0.0100	-1.2	20.0
1,2,4-Trichlorobenzene	Ave	0.8313	0.7795	0.2000	0.00938	0.0100	-6.2	20.0
Hexachlorobutadiene	Ave	0.3447	0.3112		0.00903	0.0100	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-175604/8 Calibration Date: 04/08/2015 15:15

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7072.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.798	1.712		0.00952	0.0100	-4.8	20.0
1,2,3-Trichlorobenzene	Ave	0.7434	0.6967		0.00937	0.0100	-6.3	20.0
Dibromofluoromethane (Surr)	Ave	0.1999	0.1881		0.0107	0.0114	-5.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2198	0.2021		0.0105	0.0114	-8.0	20.0
Toluene-d8 (Surr)	Ave	1.194	1.143		0.0109	0.0114	-4.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4286	0.4226		0.0112	0.0114	-1.4	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7072.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Apr-2015 15:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042365-008
Operator ID: 1904 Instrument ID: A3UX16
Sublist:

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:44 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: quayler Date: 09-Apr-2015 07:45:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.588	-0.001	99	1626133	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.280	-0.001	85	1148226	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	91	645335	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	348732	11.4	10.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	374638	11.4	10.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1496494	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	553203	11.4	11.2	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	98	219462	10.0	7.32	
10 Chloromethane	50	1.769	1.769	0.000	99	353914	10.0	8.58	
11 Vinyl chloride	62	1.888	1.888	0.000	97	388595	10.0	8.58	
12 Butadiene	54	1.935	1.923	0.012	0	354041	10.0	8.68	
13 Bromomethane	94	2.232	2.220	0.012	89	179293	10.0	8.21	
14 Chloroethane	64	2.326	2.327	-0.001	99	236140	10.0	8.88	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	547561	10.0	9.21	
16 Trichlorofluoromethane	101	2.575	2.564	0.011	96	387453	10.0	9.81	
17 Ethyl ether	59	2.836	2.837	0.000	89	299692	10.0	10.2	
18 Acrolein	56	2.943	2.943	0.000	99	190208	50.0	50.2	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	340995	10.0	10.4	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	91	263688	10.0	10.3	
21 Acetone	43	3.085	3.086	-0.001	77	190279	20.0	19.4	
23 Iodomethane	142	3.192	3.192	0.000	96	556646	10.0	10.8	
24 Carbon disulfide	76	3.263	3.263	0.000	98	1090420	10.0	10.8	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	209832	10.0	9.37	
27 Methyl acetate	43	3.394	3.394	0.000	97	1117288	50.0	51.6	
28 Methylene Chloride	84	3.489	3.489	-0.001	88	420371	10.0	10.5	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	100	200690	100.0	96.4	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1116240	100.0	99.3	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	69	393547	10.0	9.97	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	985741	10.0	10.2	
33 Hexane	86	3.987	3.999	-0.012	90	109051	10.0	11.5	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	676066	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	192322	10.0	7.06	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	425325	10.0	10.1	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	56	246703	20.0	20.2	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	87	403410	10.0	9.76	
45 Chlorobromomethane	128	4.805	4.805	0.000	90	197133	10.0	9.98	
46 Tetrahydrofuran	42	4.852	4.852	0.000	90	145562	20.0	18.7	
47 Chloroform	83	4.864	4.864	0.000	92	631169	10.0	9.99	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	488431	10.0	10.2	
49 Cyclohexane	56	5.113	5.113	0.000	87	611662	10.0	10.3	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	521061	10.0	10.7	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	408136	10.0	10.3	
52 Isobutyl alcohol	41	5.232	5.232	0.000	91	160836	250.0	222.6	
54 Benzene	78	5.362	5.362	0.000	94	1615127	10.0	9.91	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	439984	10.0	10.0	
56 n-Heptane	57	5.587	5.588	-0.001	86	281735	10.0	9.94	
58 Trichloroethene	130	5.908	5.908	0.000	96	420376	10.0	10.2	
60 Methylcyclohexane	83	6.086	6.086	0.000	89	630828	10.0	10.0	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	78	365714	10.0	9.92	
63 Dibromomethane	93	6.192	6.192	0.000	93	197018	10.0	10.1	
64 1,4-Dioxane	88	6.204	6.204	0.000	40	52272	200.0	193.4	
65 Dichlorobromomethane	83	6.323	6.323	0.000	99	446530	10.0	9.86	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	230600	12.0	11.9	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	550863	10.0	10.3	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	94	478138	20.0	19.8	
70 Toluene	91	7.022	7.023	-0.001	98	1696373	10.0	9.98	
71 trans-1,3-Dichloropropene	75	7.200	7.200	0.000	91	473524	10.0	11.0	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	359956	10.0	10.3	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	90	293880	10.0	9.64	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	88	526514	10.0	9.74	
75 Tetrachloroethene	164	7.532	7.532	0.000	96	331143	10.0	10.3	
76 2-Hexanone	43	7.580	7.580	0.000	94	325027	20.0	19.6	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	312912	10.0	10.0	
80 Ethylene Dibromide	107	7.852	7.853	-0.001	98	290083	10.0	10.0	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1063221	10.0	9.76	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	96	341952	10.0	9.86	
84 Ethylbenzene	106	8.398	8.398	0.000	98	583070	10.0	10.0	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	727593	10.0	9.97	
86 o-Xylene	106	8.884	8.884	0.000	95	709148	10.0	10.1	
87 Styrene	104	8.896	8.896	0.000	92	1046242	10.0	9.26	
88 Bromoform	173	9.074	9.074	0.000	98	186547	10.0	9.80	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1832423	10.0	9.82	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	362253	10.0	9.57	
93 Bromobenzene	156	9.536	9.537	-0.001	92	463862	10.0	9.94	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	114002	10.0	9.69	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	73	91916	10.0	9.93	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	505635	10.0	9.90	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	426463	10.0	9.67	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	1529277	10.0	9.88	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	452678	10.0	9.65	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	1320794	10.0	9.79	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	94	1545055	10.0	9.55	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	1856905	10.0	9.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	97	888328	10.0	9.73	
107 4-Isopropyltoluene	119	10.473	10.485	-0.012	97	1617728	10.0	9.53	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	95	892728	10.0	9.55	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1361343	10.0	9.61	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	99	837874	10.0	9.70	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	89	62663	10.0	9.88	
115 1,2,4-Trichlorobenzene	180	12.513	12.513	0.000	94	503026	10.0	9.38	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	200844	10.0	9.03	
117 Naphthalene	128	12.750	12.750	0.000	96	1104641	10.0	9.52	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	449585	10.0	9.37	
S 133 Xylenes, Total	106				0		20.0	20.0	
S 134 Trihalomethanes, Total	1				0		40.0	39.7	

Reagents:

VM50IS_00048	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00065	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent
VMFASPW_00093	Amount Added:	8.00	Units: uL	
VMFASGW_00089	Amount Added:	8.00	Units: uL	
VMFASAW_00077	Amount Added:	8.00	Units: uL	

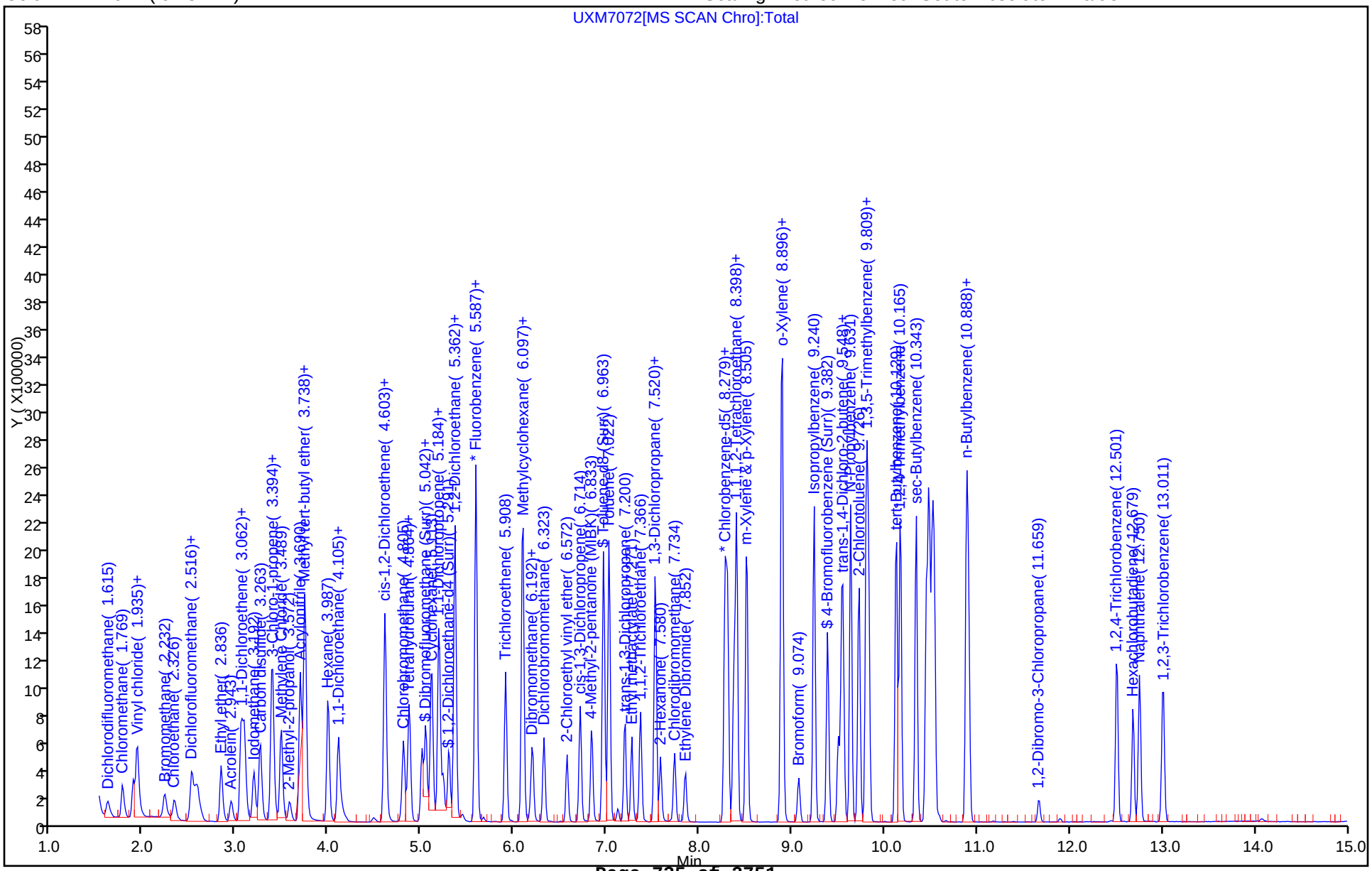
Report Date: 09-Apr-2015 07:46:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7072.D

Injection Date:	08-Apr-2015 15:15:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	ICV			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-175731/2 Calibration Date: 04/09/2015 10:35

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7081.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1843	0.2112	0.1000	0.0115	0.0100	14.6	20.0
Chloromethane	Ave	0.2536	0.2626	0.1000	0.0104	0.0100	3.5	20.0
Vinyl chloride	Ave	0.2786	0.2895	0.1000	0.0104	0.0100	3.9	20.0
Bromomethane	Ave	0.1343	0.1424	0.0500	0.0106	0.0100	6.0	20.0
Chloroethane	Ave	0.1634	0.1715	0.0500	0.0105	0.0100	4.9	20.0
Dichlorofluoromethane	Ave	0.3657	0.3834		0.0105	0.0100	4.8	20.0
Trichlorofluoromethane	Ave	0.2428	0.2797	0.1000	0.0115	0.0100	15.2	20.0
Ethyl ether	Ave	0.1803	0.1805		0.0100	0.0100	0.1	20.0
Acrolein	Ave	0.0233	0.0230		0.0492	0.0500	-1.5	20.0
1,1-Dichloroethene	Ave	0.2023	0.2099	0.1000	0.0104	0.0100	3.8	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1572	0.1775	0.0500	0.0113	0.0100	12.9	20.0
Acetone	Ave	0.0604	0.0567	0.0500	0.0188	0.0200	-6.1	20.0
Iodomethane	Ave	0.3182	0.3232		0.0102	0.0100	1.6	20.0
Carbon disulfide	Ave	0.6221	0.6142	0.1000	0.00987	0.0100	-1.3	20.0
3-Chloro-1-propene	Ave	0.1377	0.1413		0.0103	0.0100	2.6	20.0
Methyl acetate	Ave	0.1332	0.1352	0.1000	0.0508	0.0500	1.5	20.0
Methylene Chloride	Lin1		0.2525	0.1000	0.0102	0.0100	2.2	20.0
2-Methyl-2-propanol	Ave	0.0128	0.0134		0.105	0.100	4.5	20.0
Acrylonitrile	Ave	0.0691	0.0699		0.101	0.100	1.1	20.0
Methyl tert-butyl ether	Ave	0.5917	0.6070	0.1000	0.0103	0.0100	2.6	20.0
trans-1,2-Dichloroethene	Ave	0.2427	0.2441	0.1000	0.0101	0.0100	0.6	20.0
Hexane	Ave	0.0585	0.0639		0.0109	0.0100	9.1	20.0
1,1-Dichloroethane	Ave	0.3969	0.4110	0.1000	0.0104	0.0100	3.5	20.0
Vinyl acetate	Ave	0.1675	0.1633		0.00936	0.00960	-2.5	20.0
2,2-Dichloropropane	Ave	0.2543	0.2688		0.0106	0.0100	5.7	20.0
2-Butanone (MEK)	Ave	0.0752	0.0742	0.0500	0.0197	0.0200	-1.3	20.0
cis-1,2-Dichloroethene	Ave	0.2590	0.2641	0.1000	0.0102	0.0100	2.0	20.0
Bromochloromethane	Ave	0.1215	0.1239		0.0102	0.0100	2.0	20.0
Chloroform	Ave	0.3887	0.3974	0.2000	0.0102	0.0100	2.2	20.0
1,1,1-Trichloroethane	Ave	0.2957	0.3095	0.1000	0.0105	0.0100	4.6	20.0
Cyclohexane	Ave	0.3656	0.3956	0.1000	0.0108	0.0100	8.2	20.0
1,1-Dichloropropene	Ave	0.2996	0.3171		0.0106	0.0100	5.8	20.0
Carbon tetrachloride	Ave	0.2428	0.2629	0.1000	0.0108	0.0100	8.3	20.0
Isobutyl alcohol	Ave	0.0044	0.0042		0.237	0.250	-5.0	20.0
1,2-Dichloroethane	Ave	0.2704	0.2764	0.1000	0.0102	0.0100	2.2	20.0
Benzene	Ave	1.002	0.997	0.5000	0.00995	0.0100	-0.5	20.0
Trichloroethene	Ave	0.2546	0.2663	0.2000	0.0105	0.0100	4.6	20.0
Methylcyclohexane	Ave	0.3877	0.4096	0.1000	0.0106	0.0100	5.6	20.0
1,2-Dichloropropane	Ave	0.2267	0.2312	0.1000	0.0102	0.0100	2.0	20.0
Dibromomethane	Ave	0.1203	0.1227		0.0102	0.0100	2.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-175731/2 Calibration Date: 04/09/2015 10:35

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7081.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.0017	0.0017		0.206	0.200	3.0	20.0
Bromodichloromethane	Ave	0.2785	0.2888	0.1000	0.0104	0.0100	3.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1194	0.1225		0.0205	0.0200	2.6	20.0
cis-1,3-Dichloropropene	Ave	0.3280	0.3398	0.1500	0.0104	0.0100	3.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1486	0.1553	0.0500	0.0209	0.0200	4.5	20.0
Toluene	Ave	1.481	1.495	0.4000	0.0101	0.0100	1.0	20.0
trans-1,3-Dichloropropene	Ave	0.3760	0.3855	0.1000	0.0103	0.0100	2.5	20.0
Ethyl methacrylate	Ave	0.3039	0.3097		0.0102	0.0100	1.9	20.0
1,1,2-Trichloroethane	Ave	0.2656	0.2650	0.1000	0.00997	0.0100	-0.3	20.0
1,3-Dichloropropane	Ave	0.4708	0.4686		0.00995	0.0100	-0.5	20.0
Tetrachloroethene	Ave	0.2804	0.3012	0.2000	0.0107	0.0100	7.4	20.0
2-Hexanone	Ave	0.1447	0.1442	0.0500	0.0199	0.0200	-0.4	20.0
Dibromochloromethane	Ave	0.2720	0.2814		0.0103	0.0100	3.5	20.0
1,2-Dibromoethane	Ave	0.2521	0.2574		0.0102	0.0100	2.1	20.0
Chlorobenzene	Ave	0.9491	0.9572	0.3000	0.0101	0.0100	0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3021	0.3137		0.0104	0.0100	3.8	20.0
Ethylbenzene	Ave	0.5076	0.5328		0.0105	0.0100	5.0	20.0
m-Xylene & p-Xylene	Ave	0.6356	0.6420		0.0101	0.0100	1.0	20.0
o-Xylene	Ave	0.6141	0.6456		0.0105	0.0100	5.1	20.0
Styrene	Ave	0.9843	1.002	0.3000	0.0102	0.0100	1.8	20.0
Bromoform	Ave	0.1657	0.1715	0.1000	0.0103	0.0100	3.5	20.0
Isopropylbenzene	Ave	1.625	1.660	0.1000	0.0102	0.0100	2.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5868	0.5612	0.3000	0.00956	0.0100	-4.4	20.0
Bromobenzene	Ave	0.7228	0.7150		0.00989	0.0100	-1.1	20.0
1,2,3-Trichloropropane	Ave	0.1823	0.1821		0.00999	0.0100	-0.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1434	0.1426		0.00995	0.0100	-0.5	20.0
N-Propylbenzene	Ave	0.7916	0.8255		0.0104	0.0100	4.3	20.0
2-Chlorotoluene	Ave	0.6834	0.6865		0.0100	0.0100	0.4	20.0
1,3,5-Trimethylbenzene	Ave	2.398	2.433		0.0101	0.0100	1.5	20.0
4-Chlorotoluene	Ave	0.7270	0.7362		0.0101	0.0100	1.3	20.0
tert-Butylbenzene	Ave	2.090	2.147		0.0103	0.0100	2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.508	2.522		0.0101	0.0100	0.6	20.0
sec-Butylbenzene	Ave	3.014	3.042		0.0101	0.0100	0.9	20.0
1,3-Dichlorobenzene	Ave	1.414	1.410	0.6000	0.00997	0.0100	-0.3	20.0
4-Isopropyltoluene	Ave	2.630	2.678		0.0102	0.0100	1.8	20.0
1,4-Dichlorobenzene	Ave	1.449	1.436	0.5000	0.00992	0.0100	-0.8	20.0
n-Butylbenzene	Ave	2.195	2.231		0.0102	0.0100	1.6	20.0
1,2-Dichlorobenzene	Ave	1.338	1.329	0.4000	0.00993	0.0100	-0.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0983	0.1020	0.0500	0.0104	0.0100	3.8	20.0
1,2,4-Trichlorobenzene	Ave	0.8313	0.8303	0.2000	0.00999	0.0100	-0.1	20.0
Hexachlorobutadiene	Ave	0.3447	0.3461		0.0100	0.0100	0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-175731/2 Calibration Date: 04/09/2015 10:35

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7081.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.798	1.737		0.00966	0.0100	-3.4	20.0
1,2,3-Trichlorobenzene	Ave	0.7434	0.7265		0.00977	0.0100	-2.3	20.0
Dibromofluoromethane (Surr)	Ave	0.1999	0.1914		0.0109	0.0114	-4.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2198	0.2072		0.0107	0.0114	-5.7	20.0
Toluene-d8 (Surr)	Ave	1.194	1.151		0.0110	0.0114	-3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4286	0.4295		0.0114	0.0114	0.2	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7081.D
Lims ID: CCVIS L4 8260
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Apr-2015 10:35:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-002
Operator ID: 1904 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub29

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:11 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quayler Date: 09-Apr-2015 10:52:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.588	0.000	99	1619605	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.280	0.000	84	1165506	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	91	663916	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	95	353299	11.4	10.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	382486	11.4	10.7	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1528663	11.4	11.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	570620	11.4	11.4	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	342124	10.0	11.5	
10 Chloromethane	50	1.769	1.769	0.000	99	425272	10.0	10.4	
11 Vinyl chloride	62	1.888	1.888	0.000	98	468930	10.0	10.4	
12 Butadiene	54	1.923	1.923	0.000	0	433667	10.0	10.7	
13 Bromomethane	94	2.220	2.220	0.000	89	230604	10.0	10.6	
14 Chloroethane	64	2.327	2.327	0.000	98	277696	10.0	10.5	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	97	620894	10.0	10.5	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	453067	10.0	11.5	
17 Ethyl ether	59	2.836	2.836	0.000	88	292411	10.0	10.0	
18 Acrolein	56	2.943	2.943	0.000	99	185816	50.0	49.2	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	339928	10.0	10.4	
20 1,1,2-Trichloro-1,2,2-trif	151	3.086	3.086	0.000	91	287499	10.0	11.3	
21 Acetone	43	3.086	3.086	0.000	100	183772	20.0	18.8	
23 Iodomethane	142	3.192	3.192	0.000	96	523522	10.0	10.2	
24 Carbon disulfide	76	3.252	3.252	0.000	99	994686	10.0	9.87	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	228887	10.0	10.3	
27 Methyl acetate	43	3.394	3.394	0.000	97	1095048	50.0	50.8	
28 Methylene Chloride	84	3.489	3.489	0.000	89	409010	10.0	10.2	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	216646	100.0	104.5	
30 Acrylonitrile	53	3.690	3.690	0.000	100	1132536	100.0	101.1	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	983109	10.0	10.3	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	98	395292	10.0	10.1	
33 Hexane	86	3.987	3.987	0.000	90	103478	10.0	10.9	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	665584	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.141	4.141	0.000	97	253827	9.60	9.36	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	54	240387	20.0	19.7	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	427796	10.0	10.2	
41 2,2-Dichloropropane	77	4.603	4.610	-0.007	87	435346	10.0	10.6	
45 Chlorobromomethane	128	4.805	4.805	0.000	93	200724	10.0	10.2	
46 Tetrahydrofuran	42	4.852	4.852	0.000	88	153017	20.0	19.7	
47 Chloroform	83	4.864	4.864	0.000	92	643611	10.0	10.2	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	501182	10.0	10.5	
49 Cyclohexane	56	5.101	5.101	0.000	87	640715	10.0	10.8	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	99	513573	10.0	10.6	
51 Carbon tetrachloride	117	5.196	5.196	0.000	97	425759	10.0	10.8	
52 Isobutyl alcohol	41	5.232	5.232	0.000	96	170884	250.0	237.5	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	447669	10.0	10.2	
54 Benzene	78	5.362	5.362	0.000	94	1614198	10.0	9.95	
56 n-Heptane	57	5.576	5.576	0.000	87	288559	10.0	10.3	
58 Trichloroethene	130	5.908	5.908	0.000	94	431247	10.0	10.5	
60 Methylcyclohexane	83	6.086	6.086	0.000	89	663309	10.0	10.6	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	95	374385	10.0	10.2	
63 Dibromomethane	93	6.192	6.192	0.000	93	198752	10.0	10.2	
64 1,4-Dioxane	88	6.204	6.204	0.000	39	55454	200.0	206.0	
65 Dichlorobromomethane	83	6.323	6.323	0.000	100	467751	10.0	10.4	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	396633	20.0	20.5	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	550264	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	502895	20.0	20.9	
70 Toluene	91	7.023	7.023	0.000	98	1742564	10.0	10.1	
71 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	91	449263	10.0	10.3	
72 Ethyl methacrylate	69	7.272	7.272	0.000	88	360914	10.0	10.2	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	88	308824	10.0	9.97	
75 Tetrachloroethene	164	7.521	7.521	0.000	95	351102	10.0	10.7	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	90	546130	10.0	9.95	
76 2-Hexanone	43	7.580	7.580	0.000	94	336081	20.0	19.9	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	327975	10.0	10.3	
80 Ethylene Dibromide	107	7.841	7.841	0.000	97	300019	10.0	10.2	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1115659	10.0	10.1	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	95	365648	10.0	10.4	
84 Ethylbenzene	106	8.398	8.398	0.000	97	621015	10.0	10.5	
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	97	748203	10.0	10.1	
86 o-Xylene	106	8.884	8.884	0.000	94	752448	10.0	10.5	
87 Styrene	104	8.896	8.896	0.000	94	1167683	10.0	10.2	
88 Bromoform	173	9.074	9.074	0.000	98	199850	10.0	10.3	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1934802	10.0	10.2	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	372555	10.0	9.56	
93 Bromobenzene	156	9.537	9.537	0.000	92	474673	10.0	9.89	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	120920	10.0	9.99	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	82	94688	10.0	9.95	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	548029	10.0	10.4	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	455751	10.0	10.0	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	1615510	10.0	10.1	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	488741	10.0	10.1	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	1425315	10.0	10.3	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	1674515	10.0	10.1	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	2019516	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	97	936352	10.0	9.97	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	1777893	10.0	10.2	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	953637	10.0	9.92	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1481177	10.0	10.2	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	99	882128	10.0	9.93	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	89	67711	10.0	10.4	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	94	551235	10.0	9.99	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	229771	10.0	10.0	
117 Naphthalene	128	12.750	12.750	0.000	96	1152933	10.0	9.66	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	482351	10.0	9.77	
S 131 1,2-Dichloroethene, Total	96				0		20.0	20.3	
S 132 1,3-Dichloropropene, Total	75				0		20.0	20.6	
S 133 Xylenes, Total	106				0		20.0	20.6	
S 134 Trihalomethanes, Total	1				0		40.0	41.3	

Reagents:

VMAROLISTDW_00095	Amount Added:	8.00	Units: uL	
VMRPRIMW_00120	Amount Added:	8.00	Units: uL	
VMRGAS_00097	Amount Added:	8.00	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

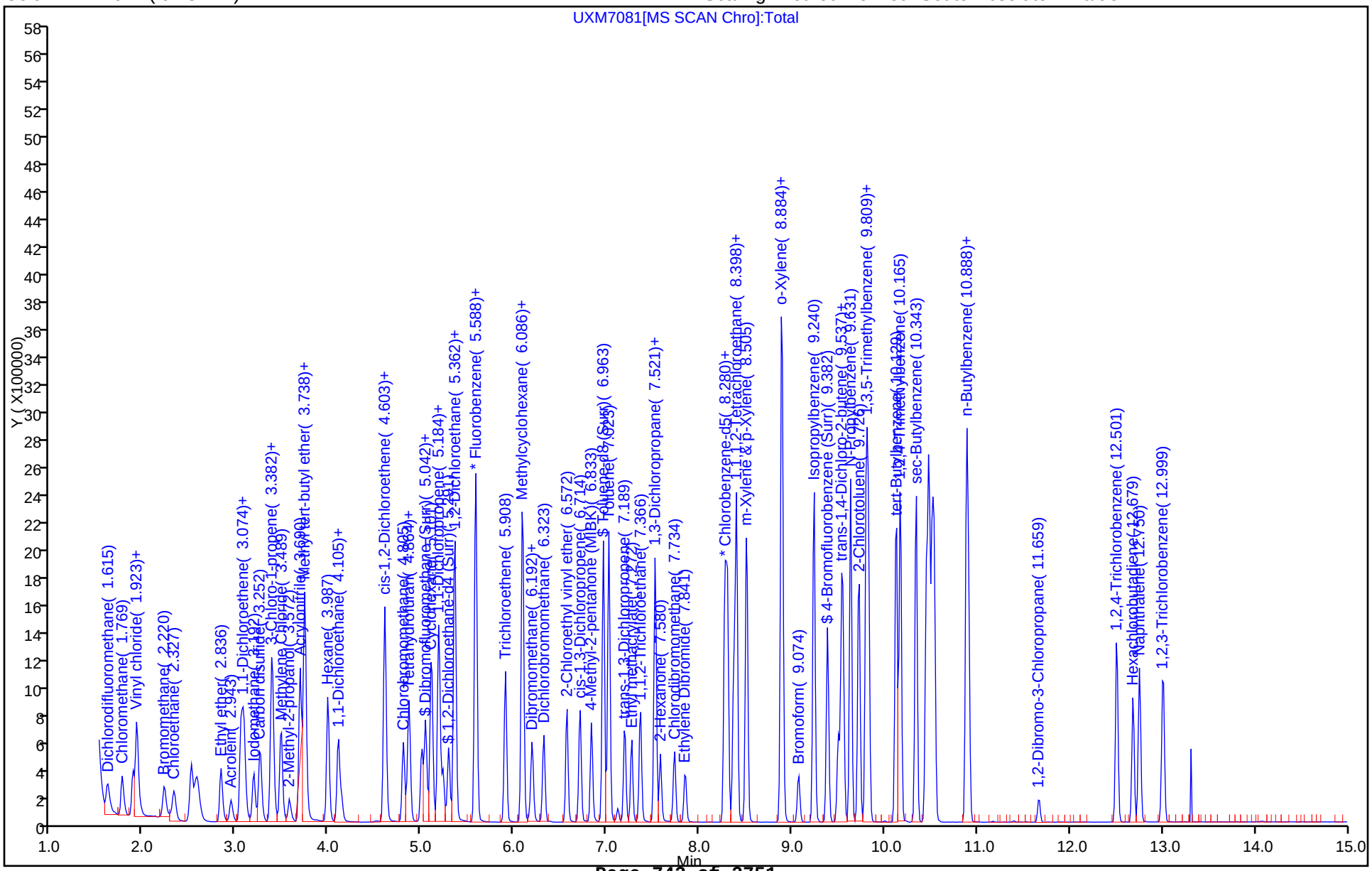
Report Date: 10-Apr-2015 07:30:12 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7081.D

Injection Date:	09-Apr-2015 10:35:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	CCVIS L4 8260			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-175731/16 Calibration Date: 04/09/2015 15:54

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7095.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1843			0.000515	0.000500		
Chloromethane	Ave	0.2536			0.000449	0.000500		
Vinyl chloride	Ave	0.2786			0.000488	0.000500		
Bromomethane	Ave	0.1343			0.000500	0.000500		
Chloroethane	Ave	0.1634			0.000506	0.000500		
Dichlorofluoromethane	Ave	0.3657			0.000393	0.000500		
Trichlorofluoromethane	Ave	0.2428			0.000510	0.000500		
Ethyl ether	Ave	0.1803			0.000451	0.000500		
Acrolein	Ave	0.0233			0.00183	0.00250		
1,1-Dichloroethene	Ave	0.2023			0.000491	0.000500		
Acetone	Ave	0.0604			0.00425	0.00500		
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1572			0.000447	0.000500		
Iodomethane	Ave	0.3182			0.000482	0.000500		
Carbon disulfide	Ave	0.6221			0.000392	0.000500		
3-Chloro-1-propene	Ave	0.1377			0.00200	0.000500		
Methyl acetate	Ave	0.1332			0.00238	0.00250		
Methylene Chloride	Lin1				0.000500	0.000500		
2-Methyl-2-propanol	Ave	0.0128			0.00500	0.00500		
Acrylonitrile	Ave	0.0691			0.00200	0.00500		
Methyl tert-butyl ether	Ave	0.5917			0.000471	0.000500		
trans-1,2-Dichloroethene	Ave	0.2427			0.000463	0.000500		
Hexane	Ave	0.0585			0.000500	0.000500		
1,1-Dichloroethane	Ave	0.3969			0.000460	0.000500		
Vinyl acetate	Ave	0.1675			0.000190	0.000480		
2-Butanone (MEK)	Ave	0.0752			0.000500	0.00500		
2,2-Dichloropropane	Ave	0.2543			0.000465	0.000500		
cis-1,2-Dichloroethene	Ave	0.2590			0.000470	0.000500		
Bromochloromethane	Ave	0.1215			0.000478	0.000500		
Chloroform	Ave	0.3887			0.000477	0.000500		
1,1,1-Trichloroethane	Ave	0.2957			0.000457	0.000500		

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-175731/16 Calibration Date: 04/09/2015 15:54

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7095.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.3656			0.000423	0.000500		
1,1-Dichloropropene	Ave	0.2996			0.000445	0.000500		
Carbon tetrachloride	Ave	0.2428			0.000409	0.000500		
Isobutyl alcohol	Ave	0.0044			0.0500	0.0125		
1,2-Dichloroethane	Ave	0.2704			0.000473	0.000500		
Benzene	Ave	1.002			0.000481	0.000500		
Trichloroethene	Ave	0.2546			0.000452	0.000500		
Methylcyclohexane	Ave	0.3877			0.000424	0.000500		
1,2-Dichloropropane	Ave	0.2267			0.000490	0.000500		
Dibromomethane	Ave	0.1203			0.000478	0.000500		
1,4-Dioxane	Ave	0.0017			0.0190	0.0100		
Bromodichloromethane	Ave	0.2785			0.000460	0.000500		
2-Chloroethyl vinyl ether	Ave	0.1194			0.00200	0.00100		
cis-1,3-Dichloropropene	Ave	0.3280			0.000250	0.000500		
4-Methyl-2-pentanone (MIBK)	Ave	0.1486			0.00429	0.00500		
Toluene	Ave	1.481			0.000466	0.000500		
trans-1,3-Dichloropropene	Ave	0.3760			0.000250	0.000500		
Ethyl methacrylate	Ave	0.3039			0.000456	0.000500		
1,1,2-Trichloroethane	Ave	0.2656			0.000489	0.000500		
1,3-Dichloropropane	Ave	0.4708			0.000462	0.000500		
Tetrachloroethene	Ave	0.2804			0.000458	0.000500		
2-Hexanone	Ave	0.1447			0.00420	0.00500		
Dibromochloromethane	Ave	0.2720			0.000250	0.000500		
1,2-Dibromoethane	Ave	0.2521			0.000484	0.000500		
Chlorobenzene	Ave	0.9491			0.000477	0.000500		
1,1,1,2-Tetrachloroethane	Ave	0.3021			0.000430	0.000500		
Ethylbenzene	Ave	0.5076			0.000423	0.000500		
m-Xylene & p-Xylene	Ave	0.6356			0.000439	0.000500		
o-Xylene	Ave	0.6141			0.000442	0.000500		
Styrene	Ave	0.9843			0.000250	0.000500		

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-175731/16 Calibration Date: 04/09/2015 15:54

Instrument ID: A3UX16 Calib Start Date: 04/08/2015 12:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/08/2015 14:53

Lab File ID: UXM7095.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromoform	Ave	0.1657			0.000500	0.000500		
Isopropylbenzene	Ave	1.625			0.000430	0.000500		
1,1,2,2-Tetrachloroethane	Ave	0.5868			0.000452	0.000500		
Bromobenzene	Ave	0.7228			0.000457	0.000500		
1,2,3-Trichloropropane	Ave	0.1823			0.000515	0.000500		
trans-1,4-Dichloro-2-butene	Ave	0.1434			0.000372	0.000500		
N-Propylbenzene	Ave	0.7916			0.000461	0.000500		
2-Chlorotoluene	Ave	0.6834			0.000441	0.000500		
1,3,5-Trimethylbenzene	Ave	2.398			0.000250	0.000500		
4-Chlorotoluene	Ave	0.7270			0.000435	0.000500		
tert-Butylbenzene	Ave	2.090			0.000436	0.000500		
1,2,4-Trimethylbenzene	Ave	2.508			0.000250	0.000500		
sec-Butylbenzene	Ave	3.014			0.000250	0.000500		
1,3-Dichlorobenzene	Ave	1.414			0.000426	0.000500		
4-Isopropyltoluene	Ave	2.630			0.000250	0.000500		
1,4-Dichlorobenzene	Ave	1.449			0.000484	0.000500		
n-Butylbenzene	Ave	2.195			0.000434	0.000500		
1,2-Dichlorobenzene	Ave	1.338			0.000465	0.000500		
1,2-Dibromo-3-Chloropropane	Ave	0.0983			0.000500	0.000500		
1,2,4-Trichlorobenzene	Ave	0.8313			0.000425	0.000500		
Hexachlorobutadiene	Ave	0.3447			0.000480	0.000500		
Naphthalene	Ave	1.798			0.000250	0.000500		
1,2,3-Trichlorobenzene	Ave	0.7434			0.000371	0.000500		
Dibromofluoromethane (Surr)	Ave	0.1999			0.0106	0.0114	93	85-115
1,2-Dichloroethane-d4 (Surr)	Ave	0.2198			0.0106	0.0114	93	70-120
Toluene-d8 (Surr)	Ave	1.194			0.0109	0.0114	96	85-120
4-Bromofluorobenzene (Surr)	Ave	0.4286			0.0113	0.0114	99	75-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7095.D
Lims ID: LODV
Client ID:
Sample Type: LODV
Inject. Date: 09-Apr-2015 15:54:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-016
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:13 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quayler Date: 10-Apr-2015 07:20:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.587	0.001	99	1530220	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	84	1088172	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	585975	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	94	324549	11.4	10.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	357252	11.4	10.6	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1416153	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	528486	11.4	11.3	
$ 8 BFB	95		3.775					ND	
9 Dichlorodifluoromethane	85	1.627	1.615	0.012	96	14509	0.5000	0.5146	
10 Chloromethane	50	1.769	1.769	0.000	97	17441	0.5000	0.4494	
11 Vinyl chloride	62	1.888	1.888	0.000	96	20807	0.5000	0.4880	
12 Butadiene	54	1.935	1.923	0.012	0	18665	0.5000	0.4862	
13 Bromomethane	94	2.232	2.220	0.012	78	7265	0.5000	0.3534	
14 Chloroethane	64	2.338	2.327	0.011	97	12657	0.5000	0.5061	
15 Dichlorofluoromethane	67	2.528	2.516	0.012	95	22010	0.5000	0.3933	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	93	18966	0.5000	0.5104	
17 Ethyl ether	59	2.836	2.836	0.000	86	12446	0.5000	0.4512	
18 Acrolein	56	2.955	2.943	0.012	97	6536	2.50	1.83	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	96	15213	0.5000	0.4915	
20 1,1,2-Trichloro-1,2,2-trif	151	3.109	3.086	0.023	56	10742	0.5000	0.4466	
21 Acetone	43	3.085	3.086	-0.001	100	39323	5.00	4.25	
22 Methylal	45		3.109					ND	
23 Iodomethane	142	3.192	3.192	0.000	96	23474	0.5000	0.4821	
24 Carbon disulfide	76	3.263	3.252	0.011	99	37360	0.5000	0.3924	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	94	9138	0.5000	0.4335	
27 Methyl acetate	43	3.394	3.394	0.000	97	48600	2.50	2.38	
28 Methylene Chloride	84	3.489	3.489	0.000	90	26007	0.5000	0.2274	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	97	10760	5.00	5.49	
30 Acrylonitrile	53	3.702	3.690	0.012	98	46915	5.00	4.43	
31 Methyl tert-butyl ether	73	3.749	3.738	0.011	94	42665	0.5000	0.4712	
32 trans-1,2-Dichloroethene	96	3.749	3.738	0.011	65	17197	0.5000	0.4630	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.987	3.987	0.000	88	3320	0.5000	0.3706	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	27910	0.5000	0.4596	
35 Vinyl acetate	43	4.153	4.141	0.012	94	9512	0.4800	0.3712	
36 Isopropyl ether	87		4.164					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	97	44829	5.00	3.90	
39 cis-1,2-Dichloroethene	96	4.615	4.603	0.012	77	18625	0.5000	0.4699	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	90	18077	0.5000	0.4645	
42 Propionitrile	54		4.639					ND	
43 Ethyl acetate	43		4.662					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128	4.805	4.805	0.000	89	8891	0.5000	0.4781	
46 Tetrahydrofuran	42	4.864	4.852	0.012	48	6965	1.00	0.9507	
47 Chloroform	83	4.876	4.864	0.012	92	28365	0.5000	0.4769	
48 1,1,1-Trichloroethane	97	5.054	5.042	0.012	96	20702	0.5000	0.4575	
49 Cyclohexane	56	5.101	5.101	0.000	87	23675	0.5000	0.4231	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	93	20399	0.5000	0.4449	
51 Carbon tetrachloride	117	5.196	5.196	0.000	78	15195	0.5000	0.4090	
52 Isobutyl alcohol	41	5.232	5.232	0.000	88	7104	12.5	10.4	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	19586	0.5000	0.4734	
54 Benzene	78	5.362	5.362	0.000	94	73766	0.5000	0.4812	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57	5.588	5.576	0.012	72	51966	0.5000	0.6420	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130	5.908	5.908	0.000	95	17603	0.5000	0.4518	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83	6.086	6.086	0.000	86	25179	0.5000	0.4244	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	86	16981	0.5000	0.4896	
62 Methyl methacrylate	41	6.097	6.168	-0.071	70	17718		0.8479	
63 Dibromomethane	93	6.192	6.192	0.000	91	8801	0.5000	0.4781	
64 1,4-Dioxane	88	6.204	6.204	0.000	37	2938	10.0	11.6	
65 Dichlorobromomethane	83	6.323	6.323	0.000	97	19621	0.5000	0.4605	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	91	15592	1.00	0.8536	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	93	20266	0.5000	0.4038	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	96	97548	5.00	4.29	
70 Toluene	91	7.022	7.023	-0.001	98	75048	0.5000	0.4658	
71 trans-1,3-Dichloropropene	75	7.200	7.189	0.011	91	16051	0.5000	0.3923	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	86	15092	0.5000	0.4563	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	86	14145	0.5000	0.4893	
75 Tetrachloroethene	164	7.532	7.521	0.011	93	13987	0.5000	0.4584	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	91	23690	0.5000	0.4624	
76 2-Hexanone	43	7.580	7.580	0.000	94	66137	5.00	4.20	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129	7.734	7.734	0.000	82	11005	0.5000	0.3719	
80 Ethylene Dibromide	107	7.852	7.841	0.011	91	13287	0.5000	0.4843	
81 1-Chlorohexane	91		8.267					ND	
82 Chlorobenzene	112	8.303	8.303	0.000	95	49301	0.5000	0.4774	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	93	14151	0.5000	0.4304	
84 Ethylbenzene	106	8.398	8.398	0.000	98	23376	0.5000	0.4232	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	95	30360	0.5000	0.4390	
86 o-Xylene	106	8.896	8.884	0.012	95	29507	0.5000	0.4416	
87 Styrene	104	8.896	8.896	0.000	92	41720	0.5000	0.3895	
88 Bromoform	173	9.074	9.074	0.000	95	7101	0.5000	0.3938	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	76089	0.5000	0.4304	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	91	15541	0.5000	0.4520	
93 Bromobenzene	156	9.536	9.537	-0.001	92	19373	0.5000	0.4574	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	85	5501	0.5000	0.5148	
94 trans-1,4-Dichloro-2-buten	53	9.548	9.560	-0.012	68	3122	0.5000	0.3715	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	21373	0.5000	0.4608	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	17642	0.5000	0.4405	
98 3-Ethyltoluene	105	9.797	9.733	0.064	93	57535		NC	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	96	57535	0.5000	0.4095	
100 4-Chlorotoluene	126	9.821	9.821	0.000	97	18521	0.5000	0.4347	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119	10.129	10.129	0.000	88	53383	0.5000	0.4359	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	58180	0.5000	0.3959	
105 sec-Butylbenzene	105	10.343	10.343	0.000	92	74257	0.5000	0.4205	
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	95	35291	0.5000	0.4258	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	61114	0.5000	0.3966	
108 1,4-Dichlorobenzene	146	10.533	10.533	-0.001	95	41103	0.5000	0.4842	
109 1,2,3-Trimethylbenzene	105		10.592					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91	10.888	10.888	0.000	96	55786	0.5000	0.4337	
112 1,2-Dichlorobenzene	146	10.900	10.900	0.000	96	36465	0.5000	0.4651	
113 1,2-Dibromo-3-Chloropropan	157	11.659	11.671	-0.012	79	3005	0.5000	0.5217	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	93	20715	0.5000	0.4252	
116 Hexachlorobutadiene	225	12.691	12.679	0.012	92	9685	0.5000	0.4795	
117 Naphthalene	128	12.750	12.750	0.000	96	36065	0.5000	0.3424	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	92	16160	0.5000	0.3710	
119 2-Methylnaphthalene	142		14.066					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
129 Isobutylene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96				0		1.00	0.9329	
S 132 1,3-Dichloropropene, Total	75				0		1.00	0.7961	
S 133 Xylenes, Total	106				0		1.00	0.8806	
S 134 Trihalomethanes, Total	1				0		2.00	1.70	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	0.40	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.40	Units: uL	
VMRGAS_00097	Amount Added:	0.40	Units: uL	
VMKETONE_00012	Amount Added:	1.60	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

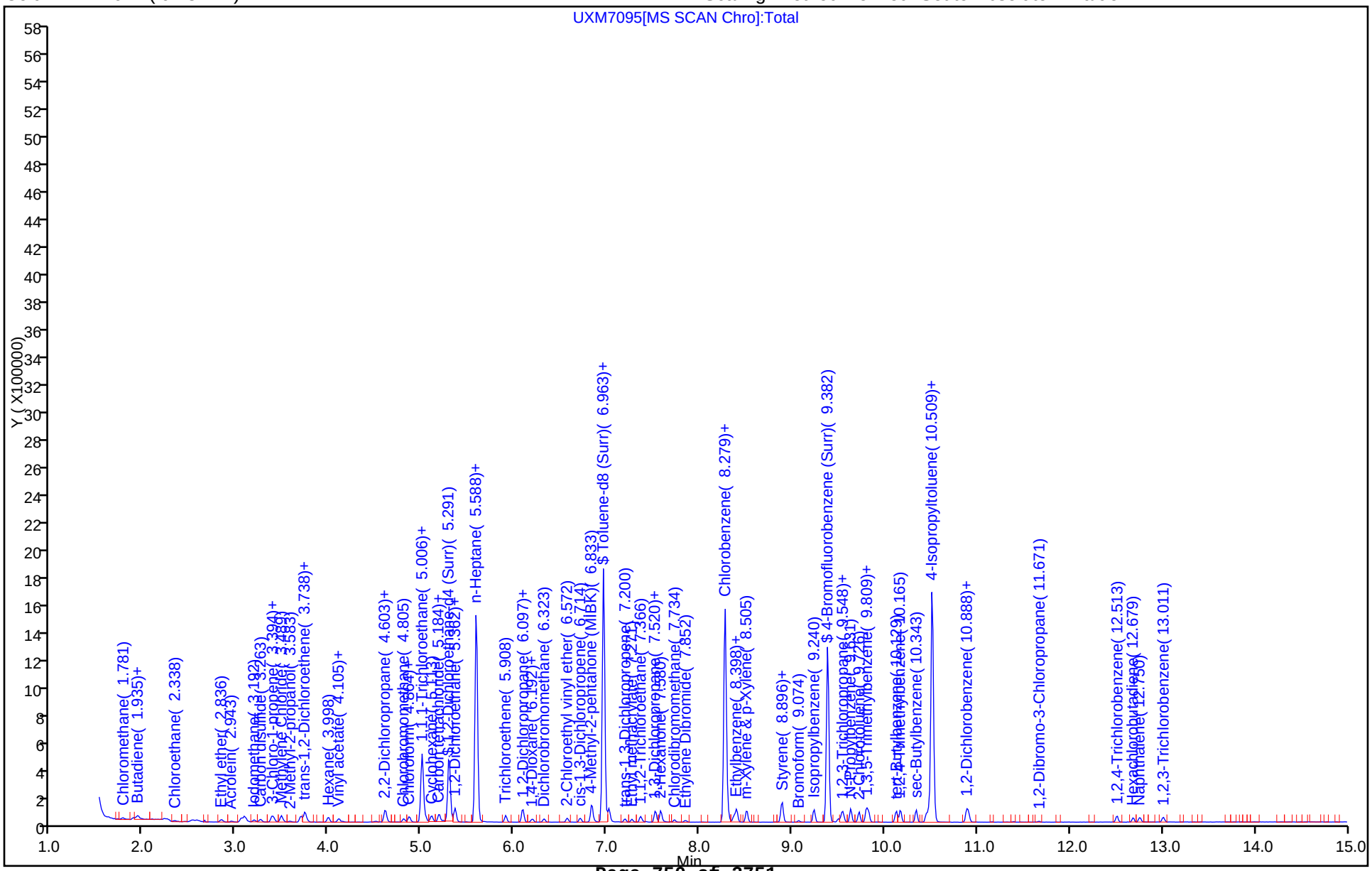
Report Date: 10-Apr-2015 07:30:23 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7095.D

Injection Date:	09-Apr-2015 15:54:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	LODV			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-170352/11 Calibration Date: 03/03/2015 03:21

Instrument ID: A3UX8 Calib Start Date: 03/03/2015 00:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/03/2015 03:00

Lab File ID: UX86162.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1856	0.2072	0.1000	0.0279	0.0250	11.7	20.0
Chloromethane	Ave	0.2209	0.2193	0.1000	0.0248	0.0250	-0.7	20.0
Vinyl chloride	Ave	0.1638	0.1679	0.1000	0.0256	0.0250	2.5	20.0
Bromomethane	Qua		0.1008	0.0500	0.0261	0.0250	4.3	20.0
Chloroethane	Qua		0.0953	0.0500	0.0263	0.0250	5.3	20.0
Dichlorofluoromethane	Ave	0.2316	0.2353		0.0254	0.0250	1.6	20.0
Trichlorofluoromethane	Ave	0.2285	0.2412	0.1000	0.0264	0.0250	5.6	20.0
1,1-Dichloroethene	Ave	0.1945	0.1861	0.1000	0.0239	0.0250	-4.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1578	0.1608	0.0500	0.0255	0.0250	1.9	20.0
Acetone	Lin1	0.1458	0.1130	0.0500	0.0423	0.0500	-15.5	20.0
Iodomethane	Ave	0.3078	0.3406		0.0277	0.0250	10.6	20.0
Carbon disulfide	Ave	0.4761	0.5415	0.1000	0.0284	0.0250	13.7	20.0
Methyl acetate	Ave	0.2404	0.2314	0.1000	0.120	0.125	-3.7	20.0
Methylene Chloride	Lin1	0.2993	0.2795	0.1000	0.0262	0.0250	4.8	20.0
2-Methyl-2-propanol	Ave	0.0279	0.0277		0.248	0.250	-0.7	20.0
Methyl tert-butyl ether	Ave	0.6588	0.6725	0.1000	0.0255	0.0250	2.1	20.0
trans-1,2-Dichloroethene	Ave	0.2288	0.2391	0.1000	0.0261	0.0250	4.5	20.0
1,1-Dichloroethane	Ave	0.4039	0.4126	0.1000	0.0255	0.0250	2.1	20.0
Vinyl acetate	Ave	0.2164	0.3626		0.0419	0.0250	67.5*	20.0
2-Butanone (MEK)	Ave	0.1572	0.1462	0.0500	0.0465	0.0500	-7.0	20.0
2,2-Dichloropropane	Ave	0.1784	0.1859		0.0261	0.0250	4.2	20.0
cis-1,2-Dichloroethene	Ave	0.2521	0.2621	0.1000	0.0260	0.0250	4.0	20.0
Bromochloromethane	Ave	0.1298	0.1325		0.0255	0.0250	2.0	20.0
Chloroform	Ave	0.3917	0.3916	0.2000	0.0250	0.0250	-0.0	20.0
1,1,1-Trichloroethane	Ave	0.2932	0.3042	0.1000	0.0259	0.0250	3.8	20.0
Cyclohexane	Ave	0.3691	0.3878	0.1000	0.0263	0.0250	5.1	20.0
1,1-Dichloropropene	Ave	0.2750	0.2997		0.0272	0.0250	9.0	20.0
Carbon tetrachloride	Ave	0.2584	0.2681	0.1000	0.0259	0.0250	3.8	20.0
1,2-Dichloroethane	Ave	0.3115	0.3129	0.1000	0.0251	0.0250	0.5	20.0
Benzene	Ave	0.9576	0.9522	0.5000	0.0249	0.0250	-0.6	20.0
Trichloroethene	Ave	0.2549	0.2501	0.2000	0.0245	0.0250	-1.9	20.0
1,2-Dichloropropane	Ave	0.2373	0.2421	0.1000	0.0255	0.0250	2.0	20.0
Methylcyclohexane	Ave	0.3863	0.3877	0.1000	0.0251	0.0250	0.3	20.0
1,4-Dioxane	Ave	0.0026	0.0027		0.528	0.500	5.5	20.0
Dibromomethane	Ave	0.1313	0.1373		0.0261	0.0250	4.6	20.0
Bromodichloromethane	Ave	0.2550	0.2727	0.1000	0.0267	0.0250	6.9	20.0
cis-1,3-Dichloropropene	Ave	0.3036	0.3344	0.1500	0.0275	0.0250	10.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2649	0.2868	0.0500	0.0541	0.0500	8.3	20.0
Toluene	Ave	1.375	1.408	0.4000	0.0256	0.0250	2.4	20.0
trans-1,3-Dichloropropene	Ave	0.3577	0.4100	0.1000	0.0287	0.0250	14.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-170352/11 Calibration Date: 03/03/2015 03:21

Instrument ID: A3UX8 Calib Start Date: 03/03/2015 00:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/03/2015 03:00

Lab File ID: UX86162.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2-Trichloroethane	Ave	0.2876	0.2998	0.1000	0.0261	0.0250	4.2	20.0
1,3-Dichloropropane	Ave	0.4733	0.4994		0.0264	0.0250	5.5	20.0
Tetrachloroethene	Ave	0.2787	0.2715	0.2000	0.0244	0.0250	-2.6	20.0
2-Hexanone	Ave	0.2635	0.2678	0.0500	0.0508	0.0500	1.6	20.0
Dibromochloromethane	Ave	0.2645	0.2919		0.0276	0.0250	10.3	20.0
1,2-Dibromoethane	Ave	0.2695	0.2939		0.0273	0.0250	9.1	20.0
Chlorobenzene	Ave	0.9295	0.9385	0.3000	0.0252	0.0250	1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2813	0.3071		0.0273	0.0250	9.2	20.0
Ethylbenzene	Ave	0.4836	0.5001		0.0259	0.0250	3.4	20.0
m-Xylene & p-Xylene	Ave	0.5712	0.6002		0.0263	0.0250	5.1	20.0
o-Xylene	Ave	0.5449	0.5927		0.0272	0.0250	8.8	20.0
Styrene	Ave	0.8283	0.9497	0.3000	0.0287	0.0250	14.7	20.0
Bromoform	Lin1		0.1822	0.1000	0.0239	0.0250	-4.5	20.0
Isopropylbenzene	Ave	1.375	1.498	0.1000	0.0272	0.0250	8.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6741	0.6990	0.3000	0.0259	0.0250	3.7	20.0
Bromobenzene	Ave	0.7522	0.7540		0.0251	0.0250	0.2	20.0
1,2,3-Trichloropropane	Ave	0.2348	0.2548		0.0271	0.0250	8.5	20.0
N-Propylbenzene	Ave	0.7428	0.7761		0.0261	0.0250	4.5	20.0
2-Chlorotoluene	Ave	0.6481	0.6750		0.0260	0.0250	4.1	20.0
1,3,5-Trimethylbenzene	Ave	2.187	2.288		0.0262	0.0250	4.6	20.0
4-Chlorotoluene	Ave	0.6858	0.7109		0.0259	0.0250	3.7	20.0
tert-Butylbenzene	Ave	1.954	2.037		0.0261	0.0250	4.3	20.0
1,2,4-Trimethylbenzene	Ave	2.286	2.319		0.0254	0.0250	1.4	20.0
sec-Butylbenzene	Ave	2.810	2.884		0.0257	0.0250	2.6	20.0
1,3-Dichlorobenzene	Ave	1.395	1.365	0.6000	0.0245	0.0250	-2.1	20.0
4-Isopropyltoluene	Ave	2.470	2.461		0.0249	0.0250	-0.3	20.0
1,4-Dichlorobenzene	Ave	1.468	1.385	0.5000	0.0236	0.0250	-5.7	20.0
n-Butylbenzene	Ave	2.053	2.041		0.0249	0.0250	-0.6	20.0
1,2-Dichlorobenzene	Ave	1.348	1.335	0.4000	0.0247	0.0250	-1.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1238	0.1184	0.0500	0.0239	0.0250	-4.4	20.0
1,2,4-Trichlorobenzene	Ave	0.8701	0.7720	0.2000	0.0222	0.0250	-11.3	20.0
Hexachlorobutadiene	Ave	0.5037	0.4355		0.0216	0.0250	-13.5	20.0
Naphthalene	Ave	2.116	1.933		0.0228	0.0250	-8.6	20.0
1,2,3-Trichlorobenzene	Ave	0.8960	0.7646		0.0213	0.0250	-14.7	20.0
Dibromofluoromethane (Surr)	Qua	0.2654	0.2135		0.0528	0.0500	5.6	20.0
1,2-Dichloroethane-d4 (Surr)	Qua	0.3102	0.2338		0.0510	0.0500	1.9	20.0
Toluene-d8 (Surr)	Qua	1.426	1.185		0.0544	0.0500	8.8	20.0
4-Bromofluorobenzene (Surr)	Qua	0.5303	0.4019		0.0512	0.0500	2.5	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86162.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 03-Mar-2015 03:21:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-011
Operator ID: 402279 Instrument ID: A3UX8
Sublist:

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:49 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 05:04:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.156	5.159	-0.003	99	1272907	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.688	7.691	-0.003	96	926219	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.877	9.880	-0.003	99	502598	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	4.624	4.626	-0.002	95	271743	50.0	52.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	4.896	4.886	0.010	95	297564	50.0	51.0	
$ 7 Toluene-d8 (Surr)	98	6.434	6.425	0.009	93	1097912	50.0	54.4	
$ 8 4-Bromofluorobenzene (Surr	95	8.765	8.768	-0.003	94	372220	50.0	51.2	
19 Dichlorodifluoromethane	85	1.583	1.585	-0.002	100	131896	25.0	27.9	
20 Chloromethane	50	1.748	1.751	-0.003	100	139595	25.0	24.8	
21 Vinyl chloride	62	1.867	1.869	-0.003	98	106842	25.0	25.6	
152 Butadiene	54	1.902	1.905	-0.003	0	111694	NC	NC	
22 Bromomethane	94	2.186	2.177	0.009	90	64158	25.0	26.1	
23 Chloroethane	64	2.281	2.283	-0.002	99	60668	25.0	26.3	
24 Dichlorofluoromethane	67	2.458	2.449	0.009	98	149758	25.0	25.4	
25 Trichlorofluoromethane	101	2.505	2.508	-0.003	98	153519	25.0	26.4	
26 Ethyl ether	59	2.742	2.733	0.009	94	103199	25.0	24.9	
27 Acrolein	56	2.837	2.839	-0.002	99	53000	125.0	88.6	
28 1,1-Dichloroethene	96	2.931	2.922	0.009	98	118454	25.0	23.9	
29 1,1,2-Trichloro-1,2,2-trif	151	2.943	2.946	-0.003	92	102364	25.0	25.5	
30 Acetone	43	2.955	2.958	-0.003	100	143865	50.0	42.3	
32 Iodomethane	142	3.050	3.052	-0.002	97	216772	25.0	27.7	
33 Carbon disulfide	76	3.109	3.112	-0.003	99	344611	25.0	28.4	
35 3-Chloro-1-propene	76	3.215	3.206	0.009	92	72585	25.0	26.0	
36 Methyl acetate	43	3.215	3.218	-0.003	99	736390	125.0	120.3	
37 Methylene Chloride	84	3.298	3.301	-0.003	96	177897	25.0	26.2	
38 2-Methyl-2-propanol	59	3.381	3.384	-0.003	96	176081	250.0	248.2	
39 Acrylonitrile	53	3.488	3.478	0.010	99	684896	250.0	254.6	
40 trans-1,2-Dichloroethene	96	3.523	3.526	-0.003	65	152150	25.0	26.1	
41 Methyl tert-butyl ether	73	3.523	3.526	-0.003	97	428024	25.0	25.5	
42 Hexane	86	3.736	3.727	0.009	94	42555	25.0	25.2	
43 1,1-Dichloroethane	63	3.843	3.833	0.010	97	262596	25.0	25.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Vinyl acetate	43	3.866	3.857	0.009	97	230754	25.0	41.9	
49 2-Butanone (MEK)	43	4.269	4.271	-0.002	93	186108	50.0	46.5	
48 cis-1,2-Dichloroethene	96	4.280	4.271	0.009	80	166831	25.0	26.0	
50 2,2-Dichloropropane	77	4.280	4.283	-0.003	93	118338	25.0	26.1	
54 Chlorobromomethane	128	4.458	4.461	-0.002	95	84313	25.0	25.5	
55 Tetrahydrofuran	42	4.493	4.496	-0.003	92	113233	50.0	50.9	
56 Chloroform	83	4.505	4.508	-0.003	95	249210	25.0	25.0	
57 1,1,1-Trichloroethane	97	4.671	4.673	-0.002	98	193621	25.0	25.9	
58 Cyclohexane	56	4.718	4.721	-0.003	91	246830	25.0	26.3	
59 1,1-Dichloropropene	75	4.789	4.792	-0.003	96	190728	25.0	27.2	
60 Carbon tetrachloride	117	4.801	4.804	-0.003	98	170656	25.0	25.9	
61 Isobutyl alcohol	41	4.825	4.827	-0.002	96	178230	625.0	648.8	
63 1,2-Dichloroethane	62	4.955	4.946	0.009	58	199171	25.0	25.1	
62 Benzene	78	4.955	4.946	0.009	96	606059	25.0	24.9	
65 n-Heptane	100	5.144	5.135	0.009	94	45655	25.0	24.9	
67 Trichloroethene	130	5.440	5.443	-0.003	97	159148	25.0	24.5	
69 Methylcyclohexane	83	5.618	5.608	0.010	93	246739	25.0	25.1	
70 1,2-Dichloropropane	63	5.618	5.620	-0.002	94	154104	25.0	25.5	
73 Dibromomethane	93	5.712	5.715	-0.003	92	87379	25.0	26.1	
72 1,4-Dioxane	88	5.712	5.715	-0.003	45	34502	500.0	527.6	
74 Dichlorobromomethane	83	5.830	5.821	0.009	100	173558	25.0	26.7	
76 2-Chloroethyl vinyl ether	63	6.055	6.058	-0.003	93	45449	30.0	29.6	
77 cis-1,3-Dichloropropene	75	6.185	6.188	-0.003	95	212847	25.0	27.5	
78 4-Methyl-2-pentanone (MIBK	43	6.304	6.306	-0.002	97	365073	50.0	54.1	
79 Toluene	91	6.481	6.484	-0.003	98	651857	25.0	25.6	
80 trans-1,3-Dichloropropene	75	6.647	6.650	-0.003	94	189873	25.0	28.7	
81 Ethyl methacrylate	69	6.706	6.709	-0.003	92	188015	25.0	29.3	
82 1,1,2-Trichloroethane	97	6.813	6.803	0.010	89	138833	25.0	26.1	
83 1,3-Dichloropropane	76	6.955	6.957	-0.002	95	231280	25.0	26.4	
84 Tetrachloroethene	164	6.966	6.969	-0.003	94	125747	25.0	24.4	
85 2-Hexanone	43	7.014	7.005	0.009	97	248071	50.0	50.8	
87 Chlorodibromomethane	129	7.168	7.158	0.010	90	135171	25.0	27.6	
89 Ethylene Dibromide	107	7.274	7.277	-0.003	98	136125	25.0	27.3	
91 Chlorobenzene	112	7.712	7.715	-0.003	95	434604	25.0	25.2	
92 1,1,1,2-Tetrachloroethane	131	7.771	7.774	-0.003	96	142241	25.0	27.3	
93 Ethylbenzene	106	7.807	7.797	0.010	98	231603	25.0	25.9	
94 m-Xylene & p-Xylene	106	7.913	7.904	0.009	99	277963	25.0	26.3	
95 o-Xylene	106	8.280	8.271	0.009	88	274492	25.0	27.2	
96 Styrene	104	8.280	8.282	-0.002	89	439821	25.0	28.7	
97 Bromoform	173	8.457	8.460	-0.003	99	84382	25.0	23.9	
98 Isopropylbenzene	105	8.611	8.614	-0.003	95	693747	25.0	27.2	
101 1,1,2,2-Tetrachloroethane	83	8.872	8.874	-0.002	96	175648	25.0	25.9	
102 Bromobenzene	156	8.919	8.921	-0.002	92	189474	25.0	25.1	
104 1,2,3-Trichloropropane	110	8.931	8.933	-0.002	84	64028	25.0	27.1	
103 trans-1,4-Dichloro-2-buten	53	8.931	8.933	-0.002	70	51476	25.0	26.5	
105 N-Propylbenzene	120	9.002	9.004	-0.002	99	195033	25.0	26.1	
106 2-Chlorotoluene	126	9.096	9.099	-0.003	97	169623	25.0	26.0	
107 1,3,5-Trimethylbenzene	105	9.167	9.170	-0.003	94	574974	25.0	26.2	
108 4-Chlorotoluene	126	9.203	9.194	0.009	96	178651	25.0	25.9	
109 tert-Butylbenzene	119	9.487	9.489	-0.002	93	511997	25.0	26.1	
110 1,2,4-Trimethylbenzene	105	9.534	9.537	-0.003	94	582703	25.0	25.4	
111 sec-Butylbenzene	105	9.700	9.702	-0.002	94	724731	25.0	25.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 1,3-Dichlorobenzene	146	9.818	9.821	-0.003	97	343103	25.0	24.5	
113 4-Isopropyltoluene	119	9.842	9.844	-0.002	97	618561	25.0	24.9	
114 1,4-Dichlorobenzene	146	9.901	9.904	-0.003	96	348025	25.0	23.6	
117 n-Butylbenzene	91	10.244	10.247	-0.003	98	512943	25.0	24.9	
118 1,2-Dichlorobenzene	146	10.268	10.270	-0.002	99	335470	25.0	24.7	
119 1,2-Dibromo-3-Chloropropan	157	11.025	11.028	-0.003	92	29747	25.0	23.9	
121 1,2,4-Trichlorobenzene	180	11.865	11.868	-0.003	94	193993	25.0	22.2	
122 Hexachlorobutadiene	225	12.031	12.033	-0.002	96	109447	25.0	21.6	
123 Naphthalene	128	12.114	12.104	0.010	96	485731	25.0	22.8	
124 1,2,3-Trichlorobenzene	180	12.362	12.365	-0.003	97	192140	25.0	21.3	
S 129 Xylenes, Total	106				0		50.0	53.5	
S 126 Trihalomethanes, Total	1				0		100.0	103.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMFASPW_00087	Amount Added:	2.50	Units: uL		
VMFASAW_00072	Amount Added:	2.50	Units: uL		
VMFASGW_00084	Amount Added:	2.50	Units: uL		
VMUX8SS_00017	Amount Added:	1.15	Units: uL		
vm250-IS_00021	Amount Added:	1.00	Units: uL	Run Reagent	
vmDist_H2o_00044	Amount Added:	0.00	Units:	Run Reagent	

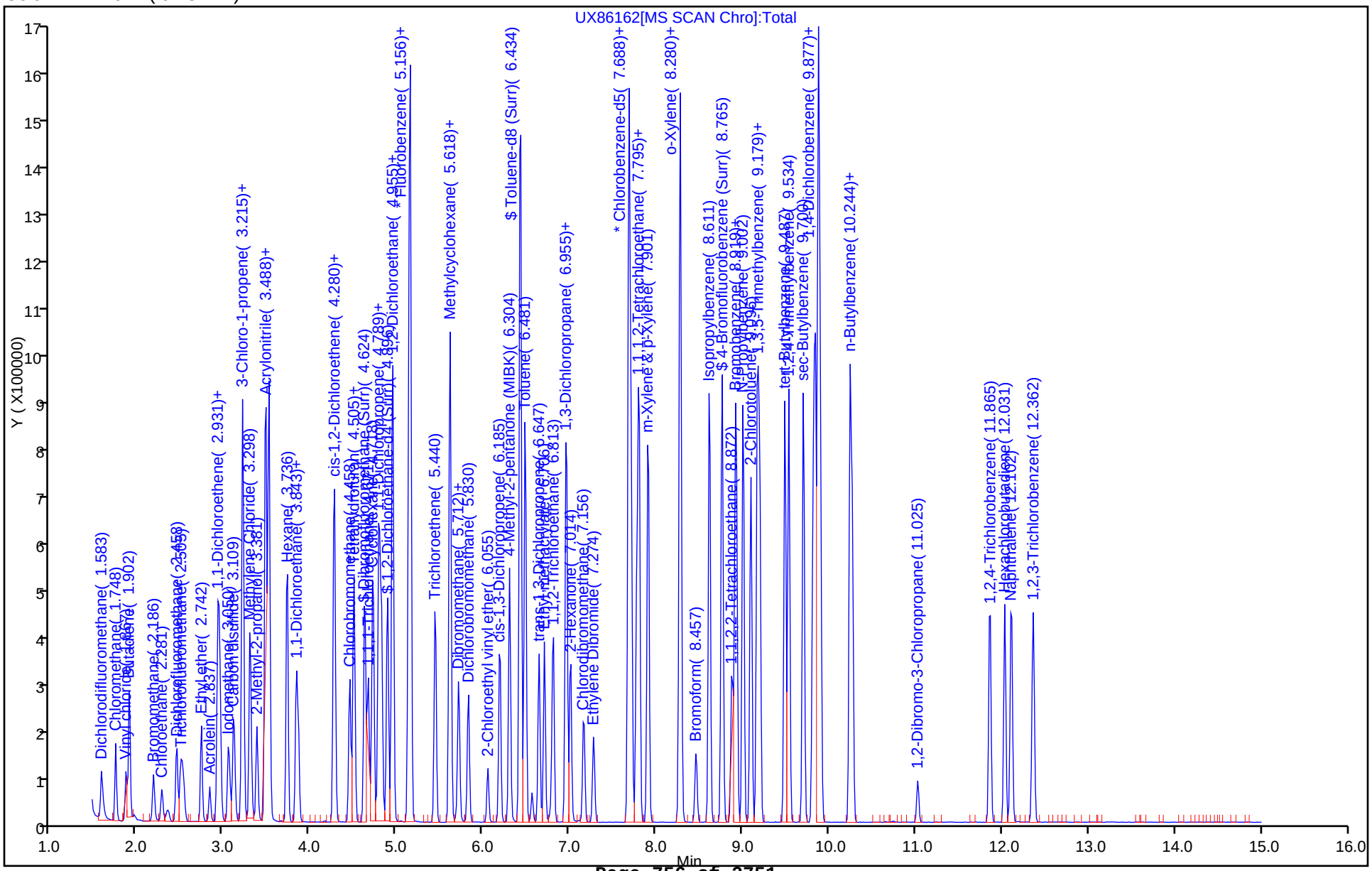
Report Date: 03-Mar-2015 23:34:51 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86162.D

Injection Date:	03-Mar-2015 03:21:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-176026/4 Calibration Date: 04/11/2015 01:15

Instrument ID: A3UX8 Calib Start Date: 03/03/2015 00:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/03/2015 03:00

Lab File ID: UX86937.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1856	0.1497	0.1000	0.0161	0.0200	-19.4	20.0
Chloromethane	Ave	0.2209	0.1826	0.1000	0.0165	0.0200	-17.4	20.0
Vinyl chloride	Ave	0.1638	0.1526	0.1000	0.0186	0.0200	-6.8	20.0
Bromomethane	Qua		0.1033	0.0500	0.0210	0.0200	5.2	20.0
Chloroethane	Qua		0.0884	0.0500	0.0192	0.0200	-4.1	20.0
Dichlorofluoromethane	Ave	0.2316	0.2238		0.0193	0.0200	-3.3	20.0
Trichlorofluoromethane	Ave	0.2285	0.2286	0.1000	0.0200	0.0200	0.0	20.0
1,1-Dichloroethene	Ave	0.1945	0.1822	0.1000	0.0187	0.0200	-6.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1578	0.1440	0.0500	0.0182	0.0200	-8.8	20.0
Iodomethane	Ave	0.3078	0.2850		0.0185	0.0200	-7.4	20.0
Carbon disulfide	Ave	0.4761	0.4545	0.1000	0.0191	0.0200	-4.5	20.0
Methyl acetate	Ave	0.2404	0.2144	0.1000	0.0892	0.100	-10.8	20.0
Methylene Chloride	Lin1	0.2993	0.2443	0.1000	0.0166	0.0200	-17.0	20.0
2-Methyl-2-propanol	Ave	0.0279	0.0263		0.189	0.200	-5.7	20.0
Methyl tert-butyl ether	Ave	0.6588	0.6158	0.1000	0.0187	0.0200	-6.5	20.0
trans-1,2-Dichloroethene	Ave	0.2288	0.2315	0.1000	0.0202	0.0200	1.2	20.0
1,1-Dichloroethane	Ave	0.4039	0.3739	0.1000	0.0185	0.0200	-7.4	20.0
Vinyl acetate	Ave	0.2164	0.2136		0.0190	0.0192	-1.3	20.0
2-Butanone (MEK)	Ave	0.1572	0.1456	0.0500	0.0370	0.0400	-7.4	20.0
cis-1,2-Dichloroethene	Ave	0.2521	0.2500	0.1000	0.0198	0.0200	-0.9	20.0
2,2-Dichloropropane	Ave	0.1784	0.1544		0.0173	0.0200	-13.5	20.0
Bromochloromethane	Ave	0.1298	0.1308		0.0202	0.0200	0.8	20.0
Chloroform	Ave	0.3917	0.3662	0.2000	0.0187	0.0200	-6.5	20.0
1,1,1-Trichloroethane	Ave	0.2932	0.2669	0.1000	0.0182	0.0200	-9.0	20.0
Cyclohexane	Ave	0.3691	0.3525	0.1000	0.0191	0.0200	-4.5	20.0
1,1-Dichloropropene	Ave	0.2750	0.2677		0.0195	0.0200	-2.7	20.0
Carbon tetrachloride	Ave	0.2584	0.2388	0.1000	0.0185	0.0200	-7.6	20.0
1,2-Dichloroethane	Ave	0.3115	0.2605	0.1000	0.0167	0.0200	-16.4	20.0
Benzene	Ave	0.9576	0.9317	0.5000	0.0195	0.0200	-2.7	20.0
Trichloroethene	Ave	0.2549	0.2571	0.2000	0.0202	0.0200	0.9	20.0
Methylcyclohexane	Ave	0.3863	0.3762	0.1000	0.0195	0.0200	-2.6	20.0
1,2-Dichloropropane	Ave	0.2373	0.2330	0.1000	0.0196	0.0200	-1.8	20.0
1,4-Dioxane	Ave	0.0026	0.0030		0.467	0.400	16.7	20.0
Dibromomethane	Ave	0.1313	0.1315		0.0200	0.0200	0.1	20.0
Bromodichloromethane	Ave	0.2550	0.2594	0.1000	0.0203	0.0200	1.7	20.0
cis-1,3-Dichloropropene	Ave	0.3036	0.3119	0.1500	0.0206	0.0200	2.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2649	0.2618	0.0500	0.0395	0.0400	-1.2	20.0
Toluene	Ave	1.375	1.405	0.4000	0.0204	0.0200	2.2	20.0
trans-1,3-Dichloropropene	Ave	0.3577	0.3354	0.1000	0.0188	0.0200	-6.2	20.0
1,1,2-Trichloroethane	Ave	0.2876	0.2892	0.1000	0.0201	0.0200	0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-176026/4 Calibration Date: 04/11/2015 01:15

Instrument ID: A3UX8 Calib Start Date: 03/03/2015 00:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/03/2015 03:00

Lab File ID: UX86937.D Conc. Units: ng/uL Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropane	Ave	0.4733	0.4900		0.0207	0.0200	3.5	20.0
Tetrachloroethene	Ave	0.2787	0.2806	0.2000	0.0201	0.0200	0.7	20.0
2-Hexanone	Ave	0.2635	0.2701	0.0500	0.0410	0.0400	2.5	20.0
Dibromochloromethane	Ave	0.2645	0.2758		0.0209	0.0200	4.3	20.0
1,2-Dibromoethane	Ave	0.2695	0.2836		0.0210	0.0200	5.2	20.0
Chlorobenzene	Ave	0.9295	0.9413	0.3000	0.0203	0.0200	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2813	0.2975		0.0212	0.0200	5.8	20.0
Ethylbenzene	Ave	0.4836	0.5037		0.0208	0.0200	4.2	20.0
m-Xylene & p-Xylene	Ave	0.5712	0.6005		0.0210	0.0200	5.1	20.0
o-Xylene	Ave	0.5449	0.5913		0.0217	0.0200	8.5	20.0
Styrene	Ave	0.8283	0.9257	0.3000	0.0224	0.0200	11.8	20.0
Bromoform	Lin1		0.1735	0.1000	0.0184	0.0200	-8.1	20.0
Isopropylbenzene	Ave	1.375	1.464	0.1000	0.0213	0.0200	6.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6741	0.6971	0.3000	0.0207	0.0200	3.4	20.0
Bromobenzene	Ave	0.7522	0.7592		0.0202	0.0200	0.9	20.0
1,2,3-Trichloropropane	Ave	0.2348	0.2374		0.0202	0.0200	1.1	20.0
N-Propylbenzene	Ave	0.7428	0.8339		0.0225	0.0200	12.3	20.0
2-Chlorotoluene	Ave	0.6481	0.6914		0.0213	0.0200	6.7	20.0
1,3,5-Trimethylbenzene	Ave	2.187	2.361		0.0216	0.0200	8.0	20.0
4-Chlorotoluene	Ave	0.6858	0.7320		0.0213	0.0200	6.7	20.0
tert-Butylbenzene	Ave	1.954	2.103		0.0215	0.0200	7.6	20.0
1,2,4-Trimethylbenzene	Ave	2.286	2.421		0.0212	0.0200	5.9	20.0
sec-Butylbenzene	Ave	2.810	3.011		0.0214	0.0200	7.1	20.0
1,3-Dichlorobenzene	Ave	1.395	1.373	0.6000	0.0197	0.0200	-1.6	20.0
4-Isopropyltoluene	Ave	2.470	2.574		0.0208	0.0200	4.2	20.0
1,4-Dichlorobenzene	Ave	1.468	1.410	0.5000	0.0192	0.0200	-4.0	20.0
n-Butylbenzene	Ave	2.053	2.192		0.0214	0.0200	6.8	20.0
1,2-Dichlorobenzene	Ave	1.348	1.305	0.4000	0.0194	0.0200	-3.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1238	0.1128	0.0500	0.0182	0.0200	-8.9	20.0
1,2,4-Trichlorobenzene	Ave	0.8701	0.7870	0.2000	0.0181	0.0200	-9.6	20.0
Hexachlorobutadiene	Ave	0.5037	0.4463		0.0177	0.0200	-11.4	20.0
Naphthalene	Ave	2.116	1.820		0.0172	0.0200	-14.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8960	0.7461		0.0167	0.0200	-16.7	20.0
Dibromofluoromethane (Surr)	Qua	0.2654	0.1993		0.0491	0.0500	-1.7	20.0
1,2-Dichloroethane-d4 (Surr)	Qua	0.3102	0.2012		0.0435	0.0500	-13.0	20.0
Toluene-d8 (Surr)	Qua	1.426	1.169		0.0536	0.0500	7.2	20.0
4-Bromofluorobenzene (Surr)	Qua	0.5303	0.3728		0.0473	0.0500	-5.5	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86937.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Apr-2015 01:15:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042461-004
Operator ID: 402279 Instrument ID: A3UX8
Sublist: chrom-8260_8*sub32

Method: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 01:56:26 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.157	5.157	0.000	99	1300746	50.0	50.0	
*	2 Chlorobenzene-d5	117	7.690	7.690	0.000	94	948647	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.879	9.879	0.000	99	491042	50.0	50.0	
$	4 Dibromofluoromethane (Surr	113	4.625	4.625	0.000	94	259266	50.0	49.1	
$	5 1,2-Dichloroethane-d4 (Sur	65	4.897	4.897	0.000	88	261740	50.0	43.5	
$	6 Toluene-d8 (Surr)	98	6.424	6.424	0.000	92	1109106	50.0	53.6	
$	7 4-Bromofluorobenzene (Surr	95	8.755	8.755	0.000	97	353628	50.0	47.3	
	9 Dichlorodifluoromethane	85	1.584	1.584	0.000	99	77873	20.0	16.1	
	10 Chloromethane	50	1.750	1.750	0.000	100	94991	20.0	16.5	
	11 Vinyl chloride	62	1.868	1.868	0.000	98	79382	20.0	18.6	
	12 Butadiene	54	1.915	1.915	0.000	0	79732	NC	NC	
	13 Bromomethane	94	2.187	2.187	0.000	90	53760	20.0	21.0	
	14 Chloroethane	64	2.294	2.294	0.000	100	45982	20.0	19.2	
	15 Dichlorofluoromethane	67	2.460	2.460	0.000	97	116465	20.0	19.3	
	16 Trichlorofluoromethane	101	2.507	2.507	0.000	97	118938	20.0	20.0	
	17 Ethyl ether	59	2.744	2.744	0.000	92	75030	20.0	17.7	
	18 Acrolein	56	2.838	2.838	0.000	100	67763	100.0	112.2	
	19 1,1-Dichloroethene	96	2.933	2.933	0.000	97	94790	20.0	18.7	
	20 1,1,2-Trichloro-1,2,2-trif	151	2.945	2.945	0.000	91	74912	20.0	18.2	
	21 Acetone	43	2.957	2.957	0.000	100	115641	40.0	30.2	
	23 Iodomethane	142	3.063	3.063	0.000	96	148284	20.0	18.5	
	24 Carbon disulfide	76	3.122	3.122	0.000	99	236478	20.0	19.1	
	26 3-Chloro-1-propene	76	3.217	3.217	0.000	94	60116	20.0	21.0	
	27 Methyl acetate	43	3.217	3.217	0.000	98	557737	100.0	89.2	
	28 Methylene Chloride	84	3.300	3.300	0.000	92	127121	20.0	16.6	
	29 2-Methyl-2-propanol	59	3.383	3.383	0.000	96	136637	200.0	188.5	
	30 Acrylonitrile	53	3.489	3.489	0.000	98	523736	200.0	190.5	
	31 trans-1,2-Dichloroethene	96	3.525	3.525	0.000	66	120468	20.0	20.2	
	32 Methyl tert-butyl ether	73	3.525	3.525	0.000	95	320392	20.0	18.7	
	33 Hexane	86	3.738	3.738	0.000	93	33729	20.0	19.5	
	34 1,1-Dichloroethane	63	3.844	3.844	0.000	96	194519	20.0	18.5	
	35 Vinyl acetate	43	3.868	3.868	0.000	96	106684	19.2	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.270	4.270	0.000	79	130065	20.0	19.8	
40 2-Butanone (MEK)	43	4.270	4.270	0.000	99	151471	40.0	37.0	
41 2,2-Dichloropropane	77	4.282	4.282	0.000	93	80328	20.0	17.3	
45 Chlorobromomethane	128	4.459	4.459	0.000	92	68068	20.0	20.2	
46 Tetrahydrofuran	42	4.495	4.495	0.000	90	85489	40.0	37.6	
47 Chloroform	83	4.507	4.507	0.000	94	190555	20.0	18.7	
48 1,1,1-Trichloroethane	97	4.672	4.672	0.000	98	138891	20.0	18.2	
49 Cyclohexane	56	4.720	4.720	0.000	89	183398	20.0	19.1	
50 1,1-Dichloropropene	75	4.791	4.791	0.000	95	139274	20.0	19.5	
51 Carbon tetrachloride	117	4.802	4.802	0.000	98	124231	20.0	18.5	
52 Isobutyl alcohol	41	4.826	4.826	0.000	96	131489	500.0	468.4	
54 Benzene	78	4.956	4.956	0.000	95	484767	20.0	19.5	
53 1,2-Dichloroethane	62	4.956	4.956	0.000	55	135548	20.0	16.7	
56 n-Heptane	100	5.134	5.134	0.000	92	37398	20.0	20.0	
58 Trichloroethene	130	5.441	5.441	0.000	94	133791	20.0	20.2	
60 Methylcyclohexane	83	5.607	5.607	0.000	91	195751	20.0	19.5	
61 1,2-Dichloropropane	63	5.619	5.619	0.000	97	121219	20.0	19.6	
64 1,4-Dioxane	88	5.714	5.714	0.000	60	31192	400.0	466.8	
63 Dibromomethane	93	5.714	5.714	0.000	92	68392	20.0	20.0	
65 Dichlorobromomethane	83	5.832	5.832	0.000	100	134960	20.0	20.3	
67 2-Chloroethyl vinyl ether	63	6.057	6.057	0.000	92	98328	40.0	62.7	
68 cis-1,3-Dichloropropene	75	6.187	6.187	0.000	96	162298	20.0	20.6	
69 4-Methyl-2-pentanone (MIBK	43	6.305	6.305	0.000	96	272401	40.0	39.5	
70 Toluene	91	6.483	6.483	0.000	98	533307	20.0	20.4	
71 trans-1,3-Dichloropropene	75	6.648	6.648	0.000	91	127275	20.0	18.8	
72 Ethyl methacrylate	69	6.708	6.708	0.000	88	141139	20.0	21.5	
73 1,1,2-Trichloroethane	97	6.802	6.802	0.000	88	109753	20.0	20.1	
74 1,3-Dichloropropane	76	6.956	6.956	0.000	91	185950	20.0	20.7	
75 Tetrachloroethene	164	6.968	6.968	0.000	92	106478	20.0	20.1	
76 2-Hexanone	43	7.003	7.003	0.000	97	204959	40.0	41.0	
78 Chlorodibromomethane	129	7.157	7.157	0.000	93	104671	20.0	20.9	
80 Ethylene Dibromide	107	7.276	7.276	0.000	99	107594	20.0	21.0	
82 Chlorobenzene	112	7.713	7.713	0.000	98	357197	20.0	20.3	
83 1,1,1,2-Tetrachloroethane	131	7.773	7.773	0.000	96	112877	20.0	21.2	
84 Ethylbenzene	106	7.796	7.796	0.000	98	191148	20.0	20.8	
85 m-Xylene & p-Xylene	106	7.903	7.903	0.000	99	227867	20.0	21.0	
86 o-Xylene	106	8.269	8.269	0.000	96	224383	20.0	21.7	
87 Styrene	104	8.281	8.281	0.000	92	351265	20.0	22.4	
88 Bromoform	173	8.459	8.459	0.000	99	65817	20.0	18.4	
89 Isopropylbenzene	105	8.613	8.613	0.000	95	555511	20.0	21.3	
92 1,1,2,2-Tetrachloroethane	83	8.873	8.873	0.000	95	136917	20.0	20.7	
93 Bromobenzene	156	8.920	8.920	0.000	93	149109	20.0	20.2	
94 1,2,3-Trichloropropane	110	8.932	8.932	0.000	87	46626	20.0	20.2	
95 trans-1,4-Dichloro-2-buten	53	8.932	8.932	0.000	76	35878	20.0	18.9	
96 N-Propylbenzene	120	9.003	9.003	0.000	98	163790	20.0	22.5	
97 2-Chlorotoluene	126	9.098	9.098	0.000	98	135807	20.0	21.3	
98 1,3,5-Trimethylbenzene	105	9.169	9.169	0.000	94	463678	20.0	21.6	
99 4-Chlorotoluene	126	9.192	9.192	0.000	97	143783	20.0	21.3	
100 tert-Butylbenzene	119	9.488	9.488	0.000	91	413035	20.0	21.5	
102 1,2,4-Trimethylbenzene	105	9.536	9.536	0.000	93	475557	20.0	21.2	
103 sec-Butylbenzene	105	9.701	9.701	0.000	93	591358	20.0	21.4	
104 1,3-Dichlorobenzene	146	9.820	9.820	0.000	98	269634	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Isopropyltoluene	119	9.843	9.843	0.000	97	505648	20.0	20.8	
106 1,4-Dichlorobenzene	146	9.902	9.902	0.000	96	276861	20.0	19.2	
109 n-Butylbenzene	91	10.246	10.246	0.000	97	430553	20.0	21.4	
110 1,2-Dichlorobenzene	146	10.269	10.269	0.000	99	256392	20.0	19.4	
111 1,2-Dibromo-3-Chloropropan	157	11.027	11.027	0.000	93	22155	20.0	18.2	
113 1,2,4-Trichlorobenzene	180	11.855	11.855	0.000	94	154580	20.0	18.1	
114 Hexachlorobutadiene	225	12.032	12.032	0.000	96	87663	20.0	17.7	
115 Naphthalene	128	12.103	12.103	0.000	96	357458	20.0	17.2	
116 1,2,3-Trichlorobenzene	180	12.364	12.364	0.000	96	146540	20.0	16.7	
S 126 1,2-Dichloroethene, Total	96				0		40.0	40.1	
S 127 1,3-Dichloropropene, Total	75				0		40.0	39.3	
S 128 Xylenes, Total	106				0		40.0	42.7	
S 129 Trihalomethanes, Total	1				0		80.0	78.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	2.00	Units: uL	
VMAROLISTDW_00095	Amount Added:	2.00	Units: uL	
VMRGAS_00097	Amount Added:	2.00	Units: uL	
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VMUX8SS_00018	Amount Added:	1.15	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent

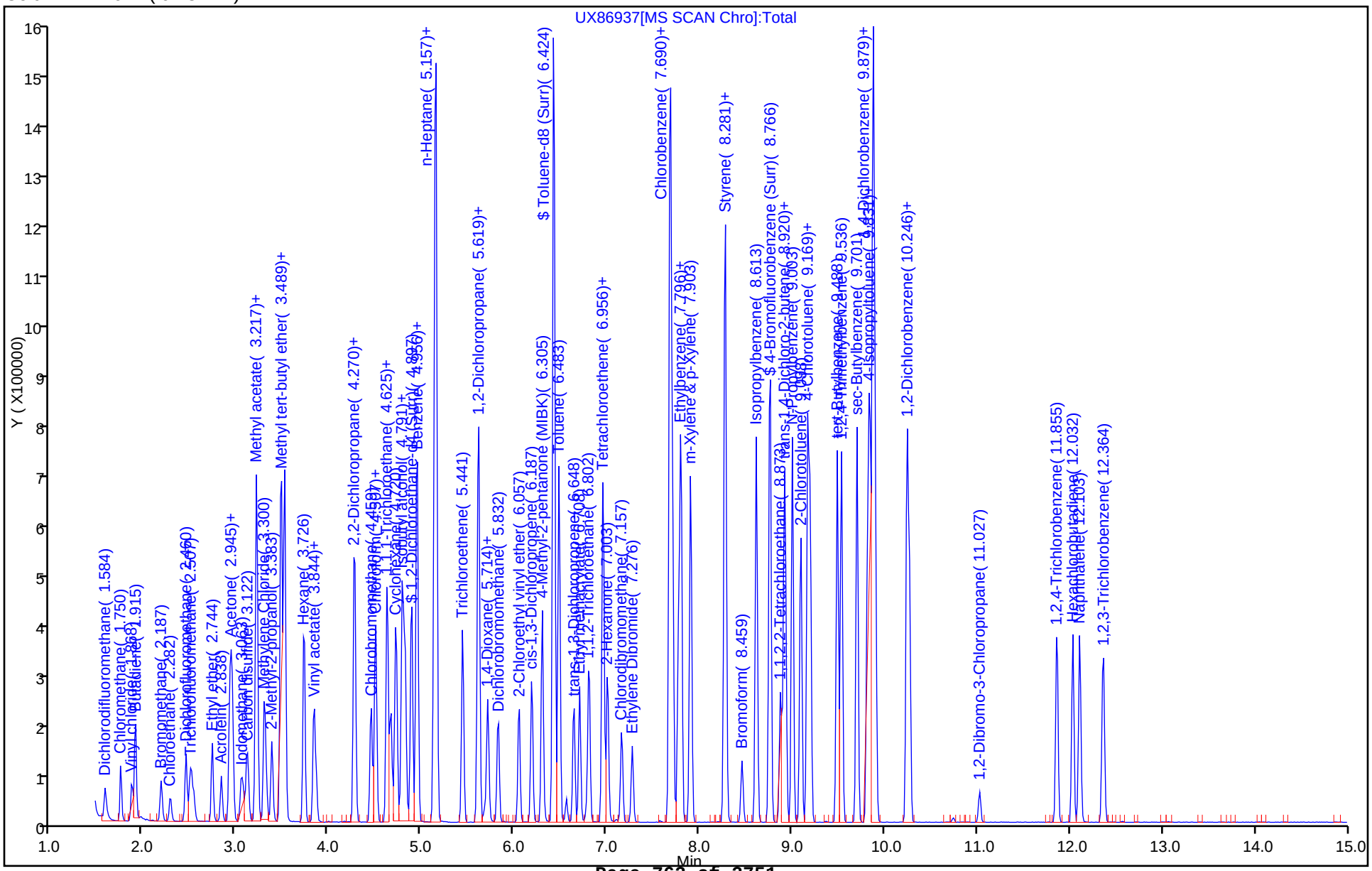
Report Date: 14-Apr-2015 01:56:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86937.D

Injection Date:	11-Apr-2015 01:15:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\BFB14922.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 13-Apr-2015 14:04:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 240-0042511-001240-0042511-001
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150413-42511.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:05:33 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 10 BFB	95	4.253	4.253	0.000	0	1897368	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

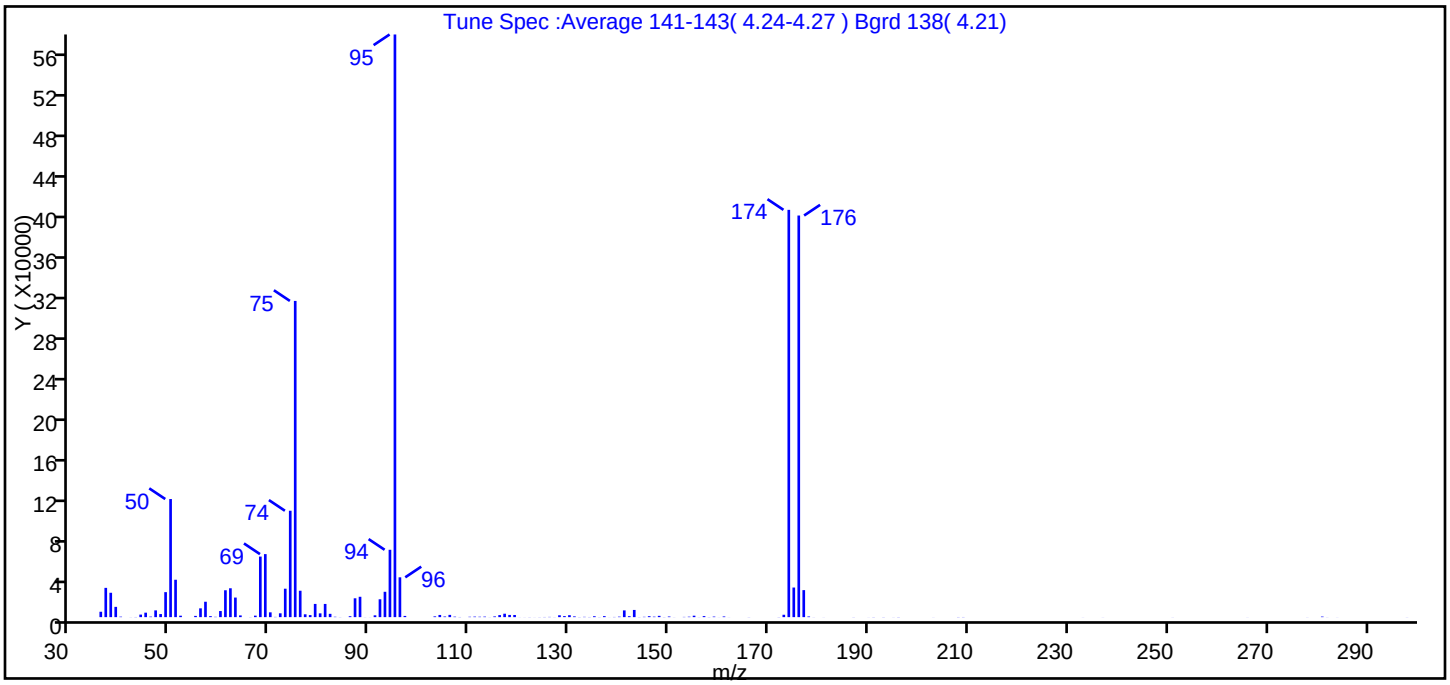
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\BFB14922.D
Injection Date: 13-Apr-2015 14:04:30 Instrument ID: A3UX14
Lims ID: bfb
Client ID:
Operator ID: 002808 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_14 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.3
75	30 to 60% of m/z 95	54.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	69.9
175	5 to 9% of m/z 174	5.1 (7.3)
176	Greater than 95% but less than 101% of m/z 174	68.9 (98.6)
177	5 to 9% of m/z 176	4.6 (6.7)

Report Date: 15-Apr-2015 13:05:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\BFB14922.D\8260_14.rslt\spectra.d
Injection Date: 13-Apr-2015 14:04:30
Spectrum: Tune Spec :Average 141-143(4.24-4.27) Bgrd 138(4.21)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5298	76.00	25936	119.00	2113	156.00	83
37.00	28760	77.00	2805	120.00	60	157.00	1014
38.00	23944	78.00	1996	121.00	58	158.00	123
39.00	10100	79.00	12984	122.00	106	159.00	543
40.00	461	80.00	3730	123.00	55	160.00	55
42.00	75	81.00	12970	124.00	100	161.00	661
43.00	153	82.00	3246	125.00	162	162.00	55
44.00	2488	83.00	368	126.00	230	166.00	97
45.00	4394	84.00	97	127.00	80	172.00	125
46.00	511	86.00	894	128.00	1845	173.00	2342
47.00	6640	87.00	18520	129.00	1018	174.00	400128
48.00	3034	88.00	20008	130.00	1921	175.00	29088
49.00	24560	89.00	71	131.00	739	176.00	394560
50.00	116032	90.00	60	132.00	134	177.00	26544
51.00	36744	91.00	1795	133.00	288	178.00	632
52.00	1424	92.00	17552	134.00	154	179.00	69
55.00	1229	93.00	24912	135.00	882	181.00	52
56.00	8648	94.00	66184	136.00	113	187.00	94
57.00	15131	95.00	572416	137.00	980	190.00	53
58.00	981	96.00	39128	138.00	54	191.00	123
59.00	299	97.00	1200	139.00	191	193.00	115
60.00	5992	103.00	759	140.00	483	195.00	65
61.00	26408	104.00	2155	141.00	6634	196.00	146
62.00	28368	105.00	627	142.00	902	203.00	56
63.00	19240	106.00	2216	143.00	7073	208.00	148
64.00	1691	107.00	472	144.00	110	209.00	152
66.00	101	108.00	155	145.00	321	233.00	52
67.00	1471	110.00	369	146.00	935	237.00	56
68.00	59496	111.00	520	147.00	475	251.00	64
69.00	61920	112.00	404	148.00	1275	266.00	54
70.00	4725	113.00	512	149.00	117	278.00	64
71.00	216	114.00	77	150.00	622	281.00	546
72.00	3775	115.00	714	151.00	70	282.00	68

Report Date: 15-Apr-2015 13:05:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44
Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\BFB14922.D\8260_14.rslt\spectra.d
Injection Date: 13-Apr-2015 14:04:30
Spectrum: Tune Spec :Average 141-143(4.24-4.27) Bgrd 138(4.21)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	27936	116.00	2018	153.00	235	284.00	51
74.00	104528	117.00	3367	154.00	432	298.00	72
75.00	310656	118.00	2168	155.00	1413		

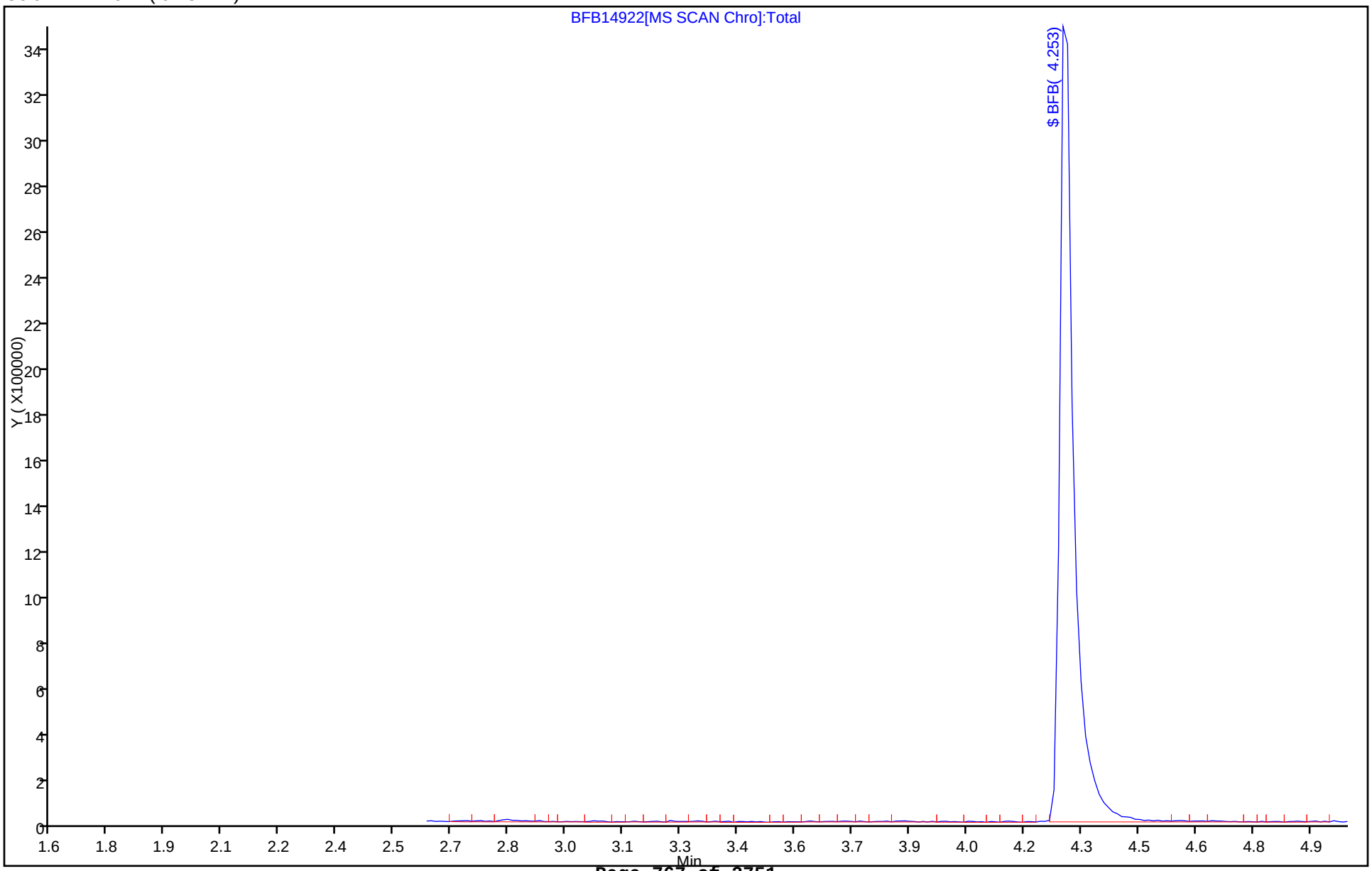
Report Date: 15-Apr-2015 13:05:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\BFB14922.D

Injection Date:	13-Apr-2015 14:04:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\BFB14924.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 14-Apr-2015 12:15:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 240-0042552-001
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:45 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 10 BFB	95	4.254	4.254	0.000	0	1451315	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

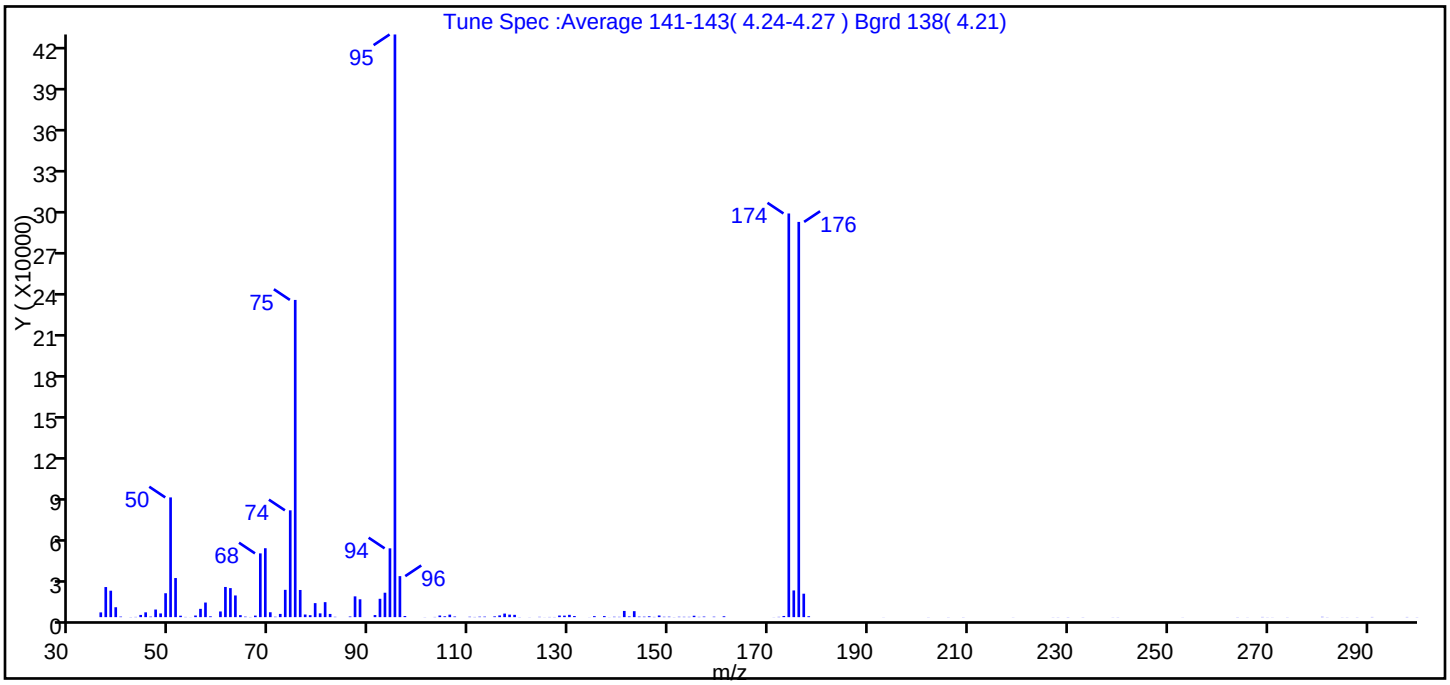
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\BFB14924.D
Injection Date: 14-Apr-2015 12:15:30 Instrument ID: A3UX14
Lims ID: bfb
Client ID:
Operator ID: 002808 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_14 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.6
75	30 to 60% of m/z 95	54.4
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	69.3
175	5 to 9% of m/z 174	4.6 (6.6)
176	Greater than 95% but less than 101% of m/z 174	67.8 (97.9)
177	5 to 9% of m/z 176	4.0 (5.9)

Report Date: 15-Apr-2015 13:28:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\BFB14924.D\8260_14.rslt\spectra.d
Injection Date: 14-Apr-2015 12:15:30
Spectrum: Tune Spec :Average 141-143(4.24-4.27) Bgrd 138(4.21)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3431	73.00	19712	119.00	1659	161.00	625
37.00	21728	74.00	77112	120.00	104	171.00	67
38.00	19088	75.00	228992	122.00	67	172.00	196
39.00	7152	76.00	19608	124.00	210	173.00	841
40.00	383	77.00	1903	125.00	53	174.00	291392
42.00	105	78.00	1399	126.00	138	175.00	19288
43.00	161	79.00	10115	127.00	117	176.00	285312
44.00	1594	80.00	2730	128.00	1169	177.00	16928
45.00	3469	81.00	10820	129.00	1097	178.00	639
46.00	371	82.00	2311	130.00	1659	193.00	53
47.00	5492	83.00	230	131.00	799	202.00	66
48.00	2691	86.00	452	134.00	60	206.00	67
49.00	17256	87.00	15002	135.00	720	209.00	78
50.00	86440	88.00	12891	137.00	760	219.00	58
51.00	28232	91.00	1509	138.00	59	227.00	64
52.00	1042	92.00	13246	139.00	277	228.00	67
53.00	149	93.00	17632	140.00	216	230.00	92
54.00	54	94.00	49656	141.00	4482	233.00	77
55.00	1168	95.00	420608	142.00	499	239.00	63
56.00	5984	96.00	29600	143.00	4314	240.00	71
57.00	10536	97.00	808	144.00	363	253.00	55
58.00	569	101.00	76	145.00	328	264.00	88
60.00	4104	103.00	144	146.00	602	266.00	52
61.00	21784	104.00	1175	147.00	170	269.00	141
62.00	20960	105.00	627	148.00	1184	270.00	65
63.00	15652	106.00	1801	149.00	266	271.00	55
64.00	1433	107.00	445	150.00	325	274.00	70
65.00	357	110.00	284	151.00	87	281.00	211
66.00	122	111.00	139	152.00	271	282.00	73
67.00	1120	112.00	342	153.00	240	285.00	57
68.00	46032	113.00	368	154.00	212	286.00	64
69.00	49752	115.00	555	155.00	1007	288.00	71
70.00	3526	116.00	1239	156.00	200	291.00	130

Report Date: 15-Apr-2015 13:28:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44
Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\BFB14924.D\8260_14.rslt\spectra.d
Injection Date: 14-Apr-2015 12:15:30
Spectrum: Tune Spec :Average 141-143(4.24-4.27) Bgrd 138(4.21)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	283	117.00	2568	157.00	417	298.00	129
72.00	2332	118.00	1807	159.00	324	300.00	73

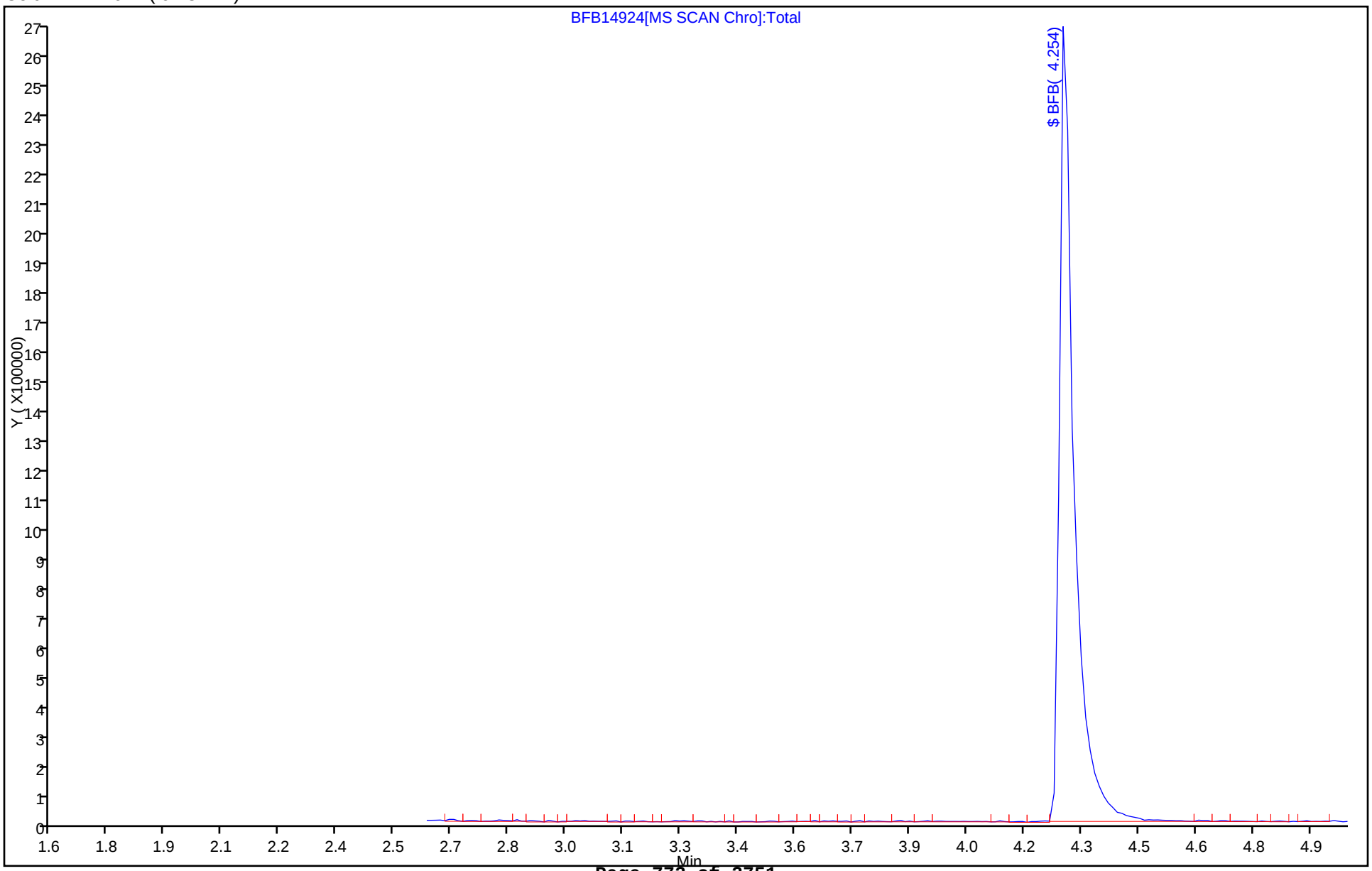
Report Date: 15-Apr-2015 13:28:45 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\BFB14924.D

Injection Date:	14-Apr-2015 12:15:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Apr-2015 12:22:30 ALS Bottle#: 11 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 09-Apr-2015 07:46:35 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.774	3.775	-0.001	0	505669	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

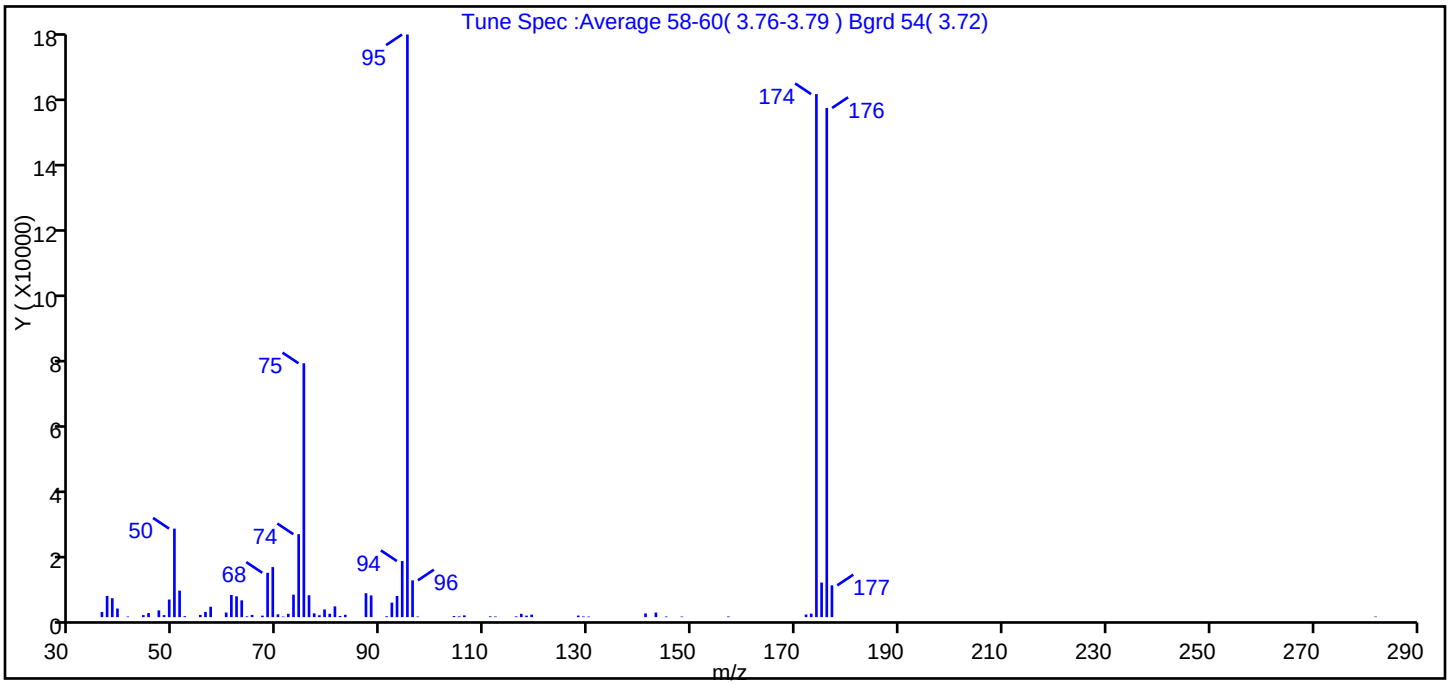
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D
Injection Date: 08-Apr-2015 12:22:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.2
75	30 to 60% of m/z 95	43.6
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	89.8
175	5 to 9% of m/z 174	5.9 (6.6)
176	Greater than 95% but less than 101% of m/z 174	87.4 (97.3)
177	5 to 9% of m/z 176	5.5 (6.2)

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D\8260_16.rslt\spectra.d
Injection Date: 08-Apr-2015 12:22:30
Spectrum: Tune Spec :Average 58-60(3.76-3.79) Bgrd 54(3.72)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1535	62.00	6150	81.00	3181	117.00	987
37.00	6267	63.00	4963	82.00	341	118.00	450
38.00	5599	64.00	236	83.00	704	119.00	752
39.00	2544	65.00	647	87.00	7075	128.00	456
41.00	187	67.00	450	88.00	6414	129.00	203
44.00	600	68.00	13099	91.00	260	130.00	172
45.00	1210	69.00	14781	92.00	4283	141.00	1099
47.00	2002	70.00	831	93.00	6244	143.00	1354
48.00	603	71.00	174	94.00	16560	145.00	198
49.00	5200	72.00	995	95.00	172032	148.00	173
50.00	26136	73.00	6637	96.00	10866	157.00	200
51.00	7846	74.00	24488	97.00	183	172.00	787
52.00	284	75.00	74952	104.00	310	173.00	1034
55.00	652	76.00	6469	105.00	234	174.00	154432
56.00	1549	77.00	1125	106.00	530	175.00	10214
57.00	3060	78.00	570	111.00	234	176.00	150336
60.00	1361	79.00	2281	112.00	196	177.00	9390
61.00	6538	80.00	991	116.00	229	282.00	168

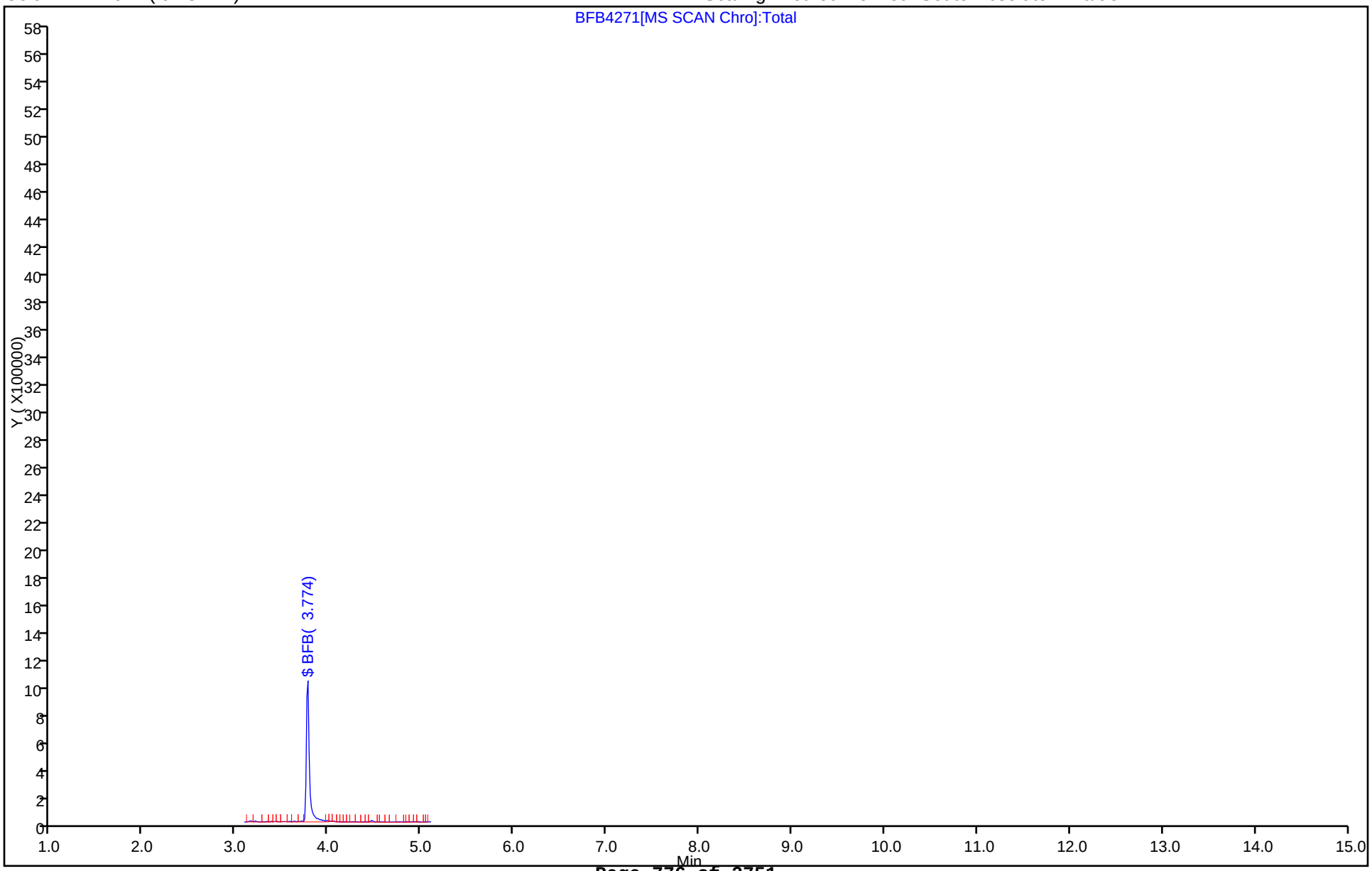
Report Date: 09-Apr-2015 07:46:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\BFB4271.D

Injection Date:	08-Apr-2015 12:22:30	Instrument ID:	A3UX16	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\BFB4272.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Apr-2015 09:53:30 ALS Bottle#: 14 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-001
Operator ID: Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:09 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.775	3.775	0.000	0	559769	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

vmbfb_00013 Amount Added: 1.00 Units: uL

Report Date: 10-Apr-2015 07:30:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\BFB4272.D

Injection Date: 09-Apr-2015 09:53:30 Instrument ID: A3UX16

Lims ID: BFB

Client ID:

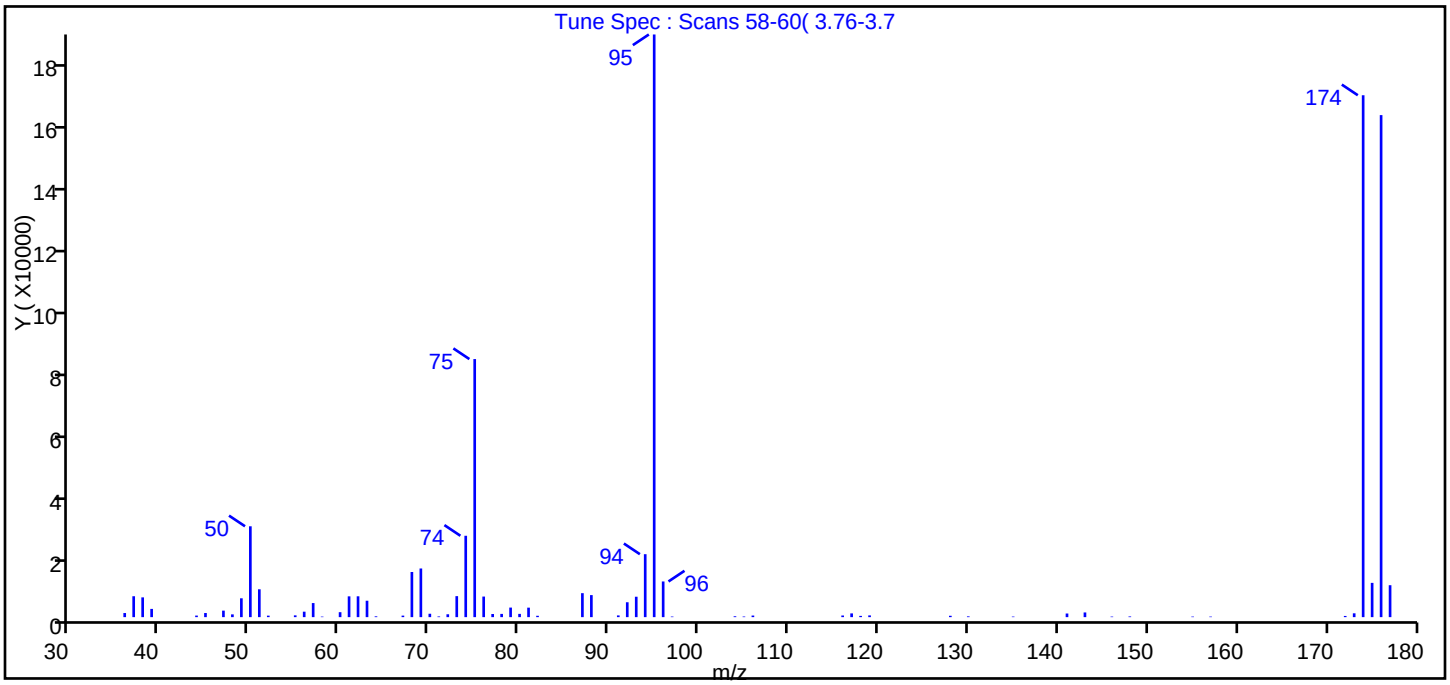
Operator ID: ALS Bottle#: 14 Worklist Smp#: 1

Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260_16 Limit Group: MSV 8260DOD ICAL

Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	44.3
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	0.7 (0.7)
174	50 to 120% of m/z 95	89.6
175	5 to 9% of m/z 174	5.9 (6.6)
176	Greater than 95% but less than 101% of m/z 174	86.2 (96.2)
177	5 to 9% of m/z 176	5.5 (6.4)

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\BFB4272.D\8260_16.rslt\spectra.d
Injection Date: 09-Apr-2015 09:53:30
Spectrum: Tune Spec : Scans 58-60(3.76-3.7
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1325	61.00	6703	80.00	1053	118.00	408
37.00	6739	62.00	6719	81.00	3058	119.00	562
38.00	6370	63.00	5288	82.00	439	128.00	439
39.00	2656	64.00	263	87.00	7727	130.00	249
44.00	507	67.00	490	88.00	7102	135.00	183
45.00	1331	68.00	14548	91.00	557	141.00	1170
47.00	2099	69.00	15681	92.00	4800	143.00	1513
48.00	895	70.00	1095	93.00	6579	146.00	181
49.00	6075	71.00	222	94.00	20288	148.00	224
50.00	29280	72.00	926	95.00	187776	155.00	180
51.00	8978	73.00	6770	96.00	11498	157.00	176
52.00	484	74.00	26224	97.00	189	172.00	385
55.00	575	75.00	83168	104.00	280	173.00	1235
56.00	1762	76.00	6634	105.00	200	174.00	168192
57.00	4536	77.00	1012	106.00	513	175.00	11045
58.00	175	78.00	1046	116.00	530	176.00	161792
60.00	1598	79.00	3082	117.00	1209	177.00	10292

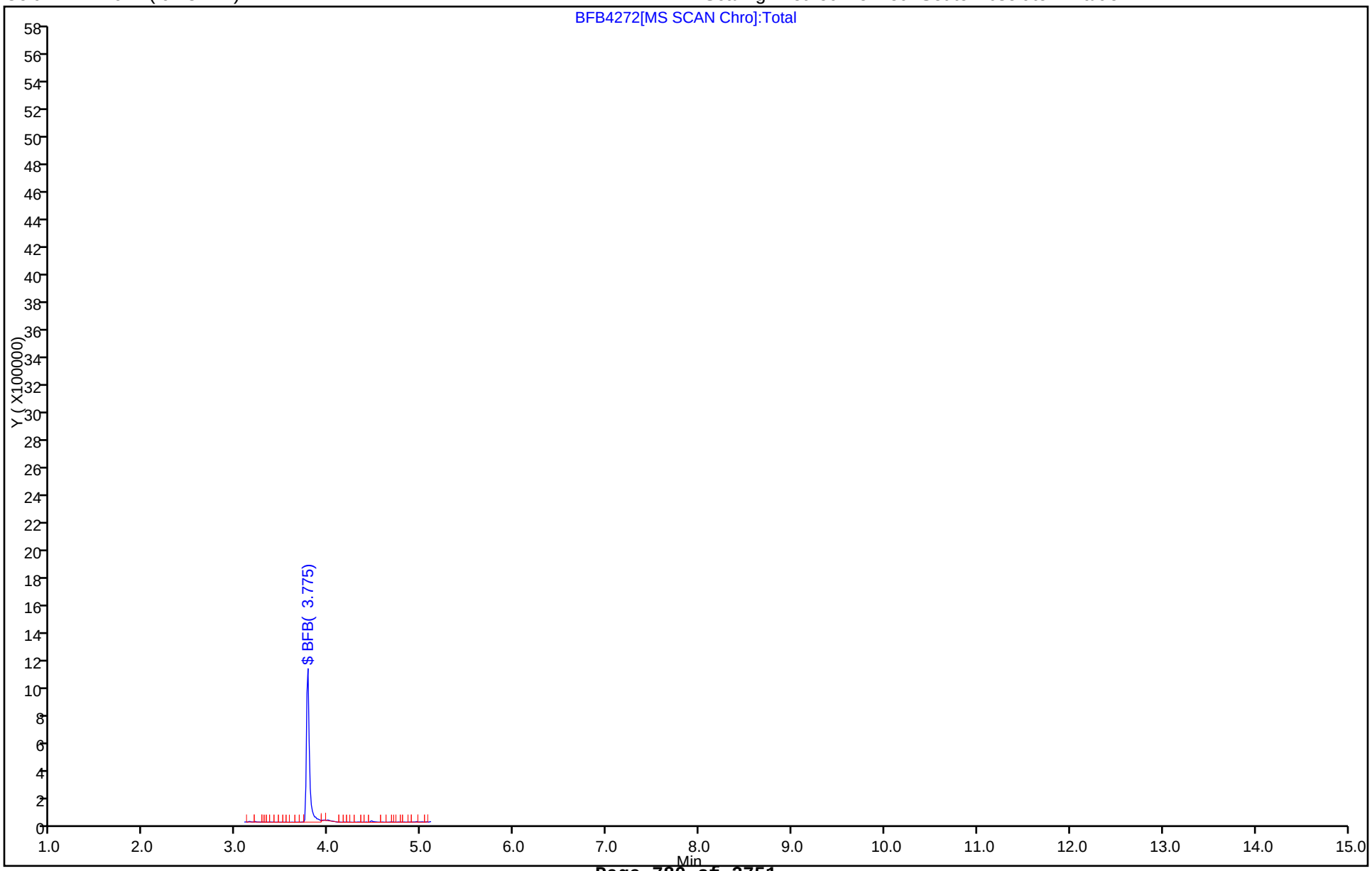
Report Date: 10-Apr-2015 07:30:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\BFB4272.D

Injection Date:	09-Apr-2015 09:53:30	Instrument ID:	A3UX16	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\BFB8752.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Mar-2015 23:39:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0040994-001
Misc. Info.: BFB
Operator ID: 402279 Instrument ID: A3UX8

Method: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 03-Mar-2015 23:34:32 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 03-Mar-2015 05:12:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 4 BFB	95	3.742	3.742	0.000	0	872875	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

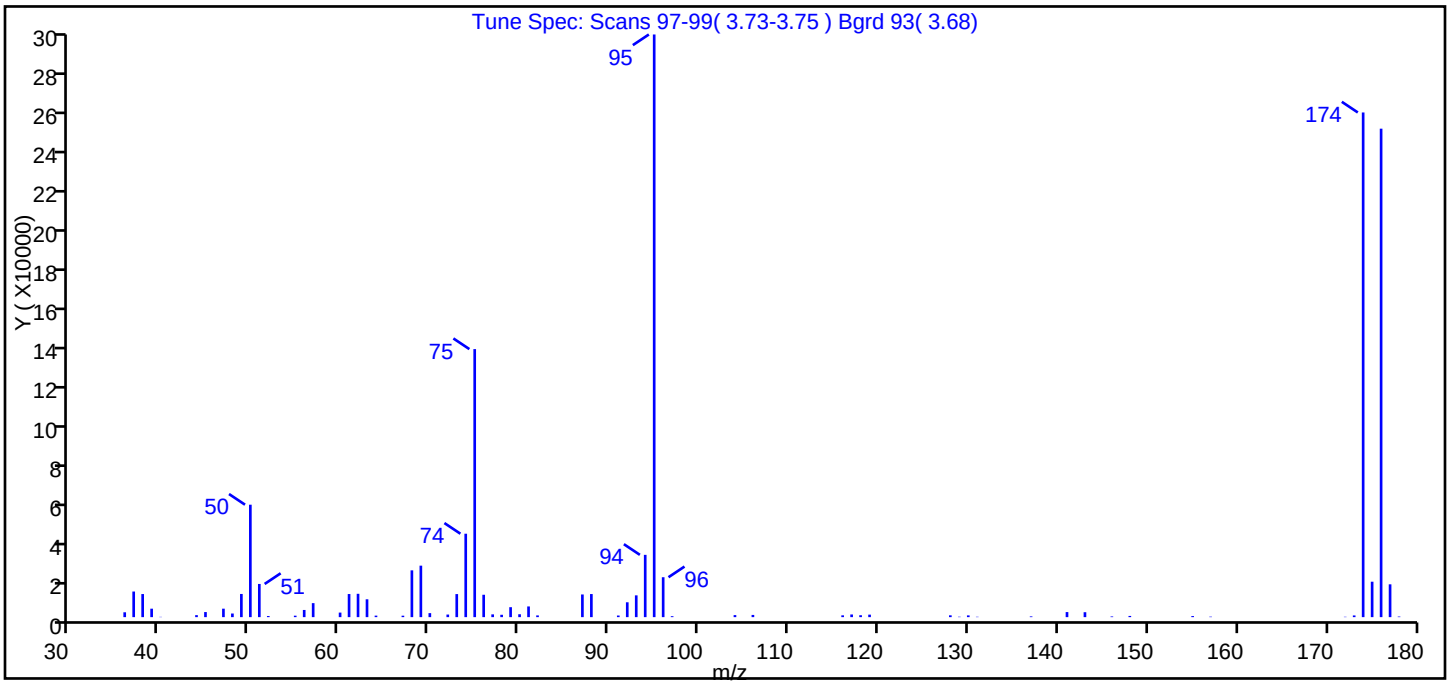
vmbfb_00013 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\BFB8752.D
Injection Date: 02-Mar-2015 23:39:30 Instrument ID: A3UX8
Lims ID: BFB
Client ID:
Operator ID: 402279 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_8 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.3
75	30 to 60% of m/z 95	46.0
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.3 (0.3)
174	50 to 120% of m/z 95	86.6
175	5 to 9% of m/z 174	6.1 (7.0)
176	Greater than 95% but less than 101% of m/z 174	83.8 (96.8)
177	5 to 9% of m/z 176	5.6 (6.7)

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\BFB8752.D\8260_8.rslt\spectra.d
Injection Date: 02-Mar-2015 23:39:30
Spectrum: Tune Spec: Scans 97-99(3.73-3.75) Bgrd 93(3.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2455	62.00	11802	87.00	11465	131.00	186
37.00	12947	63.00	9026	88.00	11675	137.00	377
38.00	11674	64.00	770	91.00	820	141.00	2562
39.00	4277	67.00	729	92.00	7513	143.00	2495
40.00	139	68.00	23656	93.00	11013	146.00	347
44.00	1012	69.00	26024	94.00	31488	148.00	609
45.00	2571	70.00	2027	95.00	294528	155.00	541
47.00	4279	72.00	1310	96.00	20176	157.00	242
48.00	1837	73.00	11657	97.00	468	172.00	181
49.00	11715	74.00	42168	104.00	1030	173.00	860
50.00	56840	75.00	135488	106.00	1118	174.00	255104
51.00	16776	76.00	11317	116.00	916	175.00	17912
52.00	557	77.00	1406	117.00	1353	176.00	246912
55.00	738	78.00	1198	118.00	968	177.00	16592
56.00	3630	79.00	5033	119.00	1267	178.00	298
57.00	7078	80.00	1468	128.00	917		
60.00	2305	81.00	5410	129.00	208		
61.00	11683	82.00	873	130.00	884		

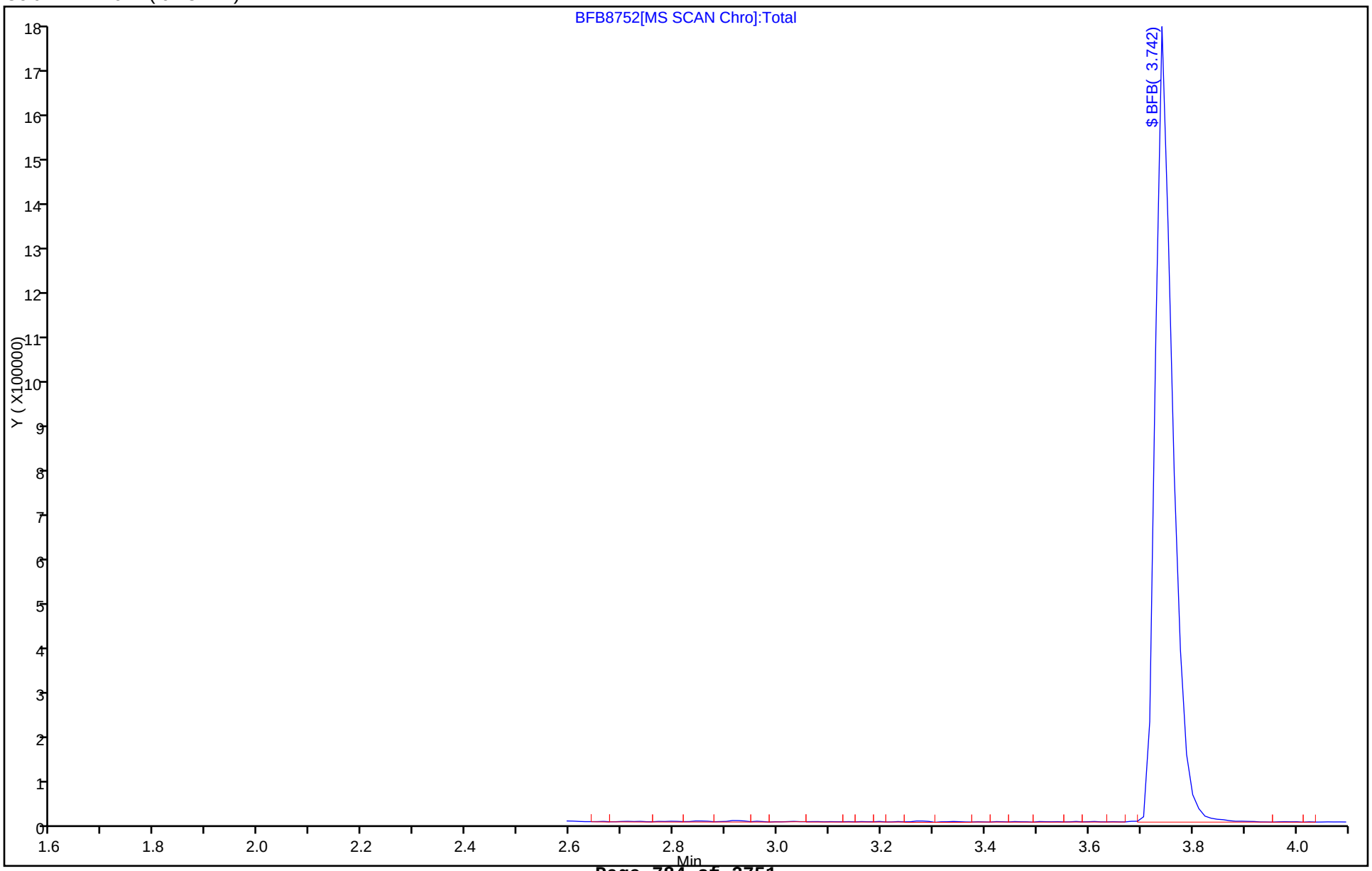
Report Date: 03-Mar-2015 23:34:34 Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\BFB8752.D

Injection Date:	02-Mar-2015 23:39:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX8\20150411-42461.b\BFB8784.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Apr-2015 00:44:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0042461-001				
Misc. Info.:	BFB				
Operator ID:	402279	Instrument ID:	A3UX8		
Method:	\\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m				
Limit Group:	MSV 8260DOD ICAL				
Last Update:	14-Apr-2015 01:56:25	Calib Date:	03-Mar-2015 03:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK017				
First Level Reviewer: latat		Date:	11-Apr-2015 05:33:49		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.741	3.741	0.000	0	795321	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

vmbfb_00013 Amount Added: 1.00 Units: uL

Report Date: 14-Apr-2015 01:56:26 Chrom Revision: 2.2 13-Mar-2015 11:20:44

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\BFB8784.D

Injection Date: 11-Apr-2015 00:44:30 Instrument ID: A3UX8

Lims ID: BFB

Client ID:

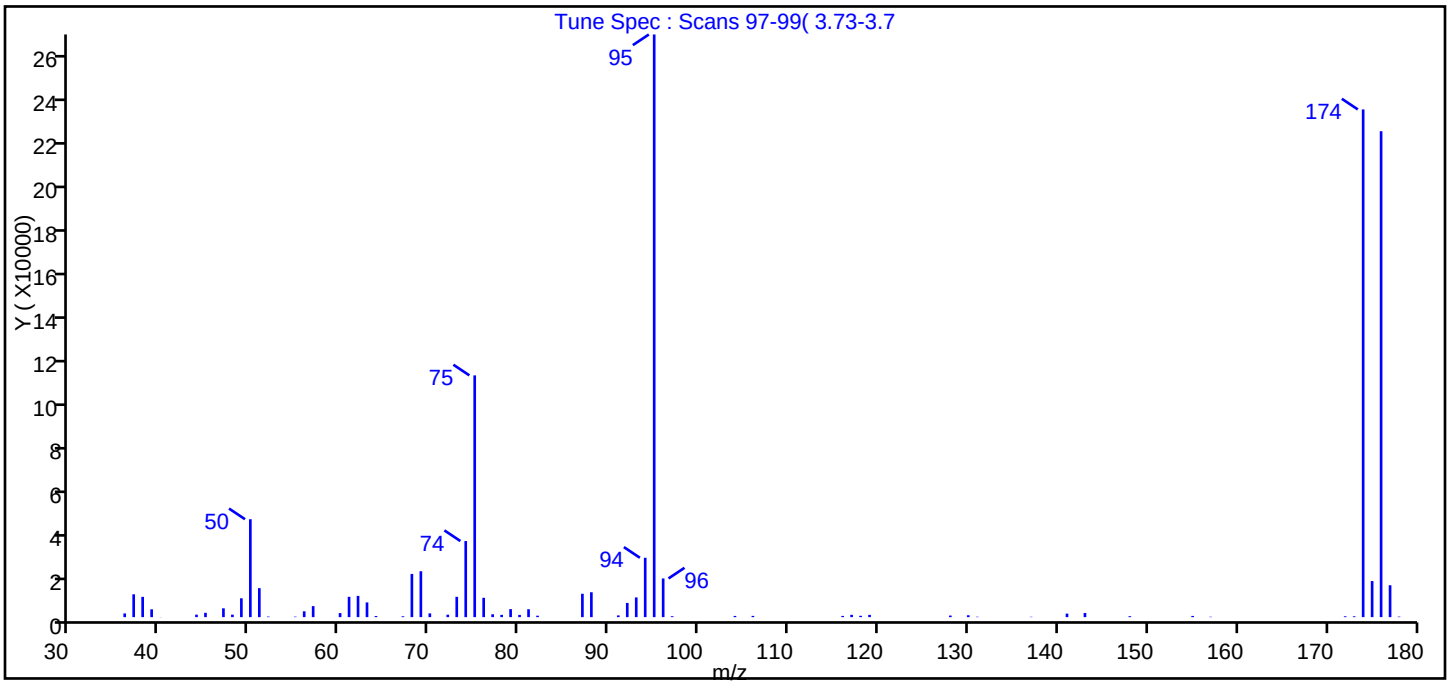
Operator ID: 402279 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260_8 Limit Group: MSV 8260DOD ICAL

Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	41.5
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.1 (0.2)
174	50 to 120% of m/z 95	87.1
175	5 to 9% of m/z 174	6.2 (7.1)
176	Greater than 95% but less than 101% of m/z 174	83.4 (95.7)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\BFB8784.D\8260_8.rslt\spectra.d
Injection Date: 11-Apr-2015 00:44:30
Spectrum: Tune Spec : Scans 97-99(3.73-3.7
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1706	61.00	9367	81.00	3642	128.00	729
37.00	10537	62.00	9806	82.00	667	130.00	872
38.00	9352	63.00	6787	87.00	10782	131.00	187
39.00	3615	64.00	512	88.00	11477	137.00	168
40.00	57	67.00	398	91.00	798	141.00	1629
44.00	1149	68.00	19920	92.00	6545	143.00	1915
45.00	1995	69.00	21168	93.00	9093	148.00	438
47.00	4077	70.00	1735	94.00	27376	155.00	564
48.00	1156	72.00	1133	95.00	268672	157.00	178
49.00	8687	73.00	9371	96.00	17832	172.00	390
50.00	45152	74.00	35088	97.00	419	173.00	379
51.00	13374	75.00	111480	104.00	559	174.00	234112
52.00	265	76.00	8924	106.00	583	175.00	16632
55.00	230	77.00	1334	116.00	575	176.00	224064
56.00	2687	78.00	1058	117.00	1061	177.00	14712
57.00	5084	79.00	3701	118.00	627	178.00	240
60.00	1872	80.00	1021	119.00	1040		

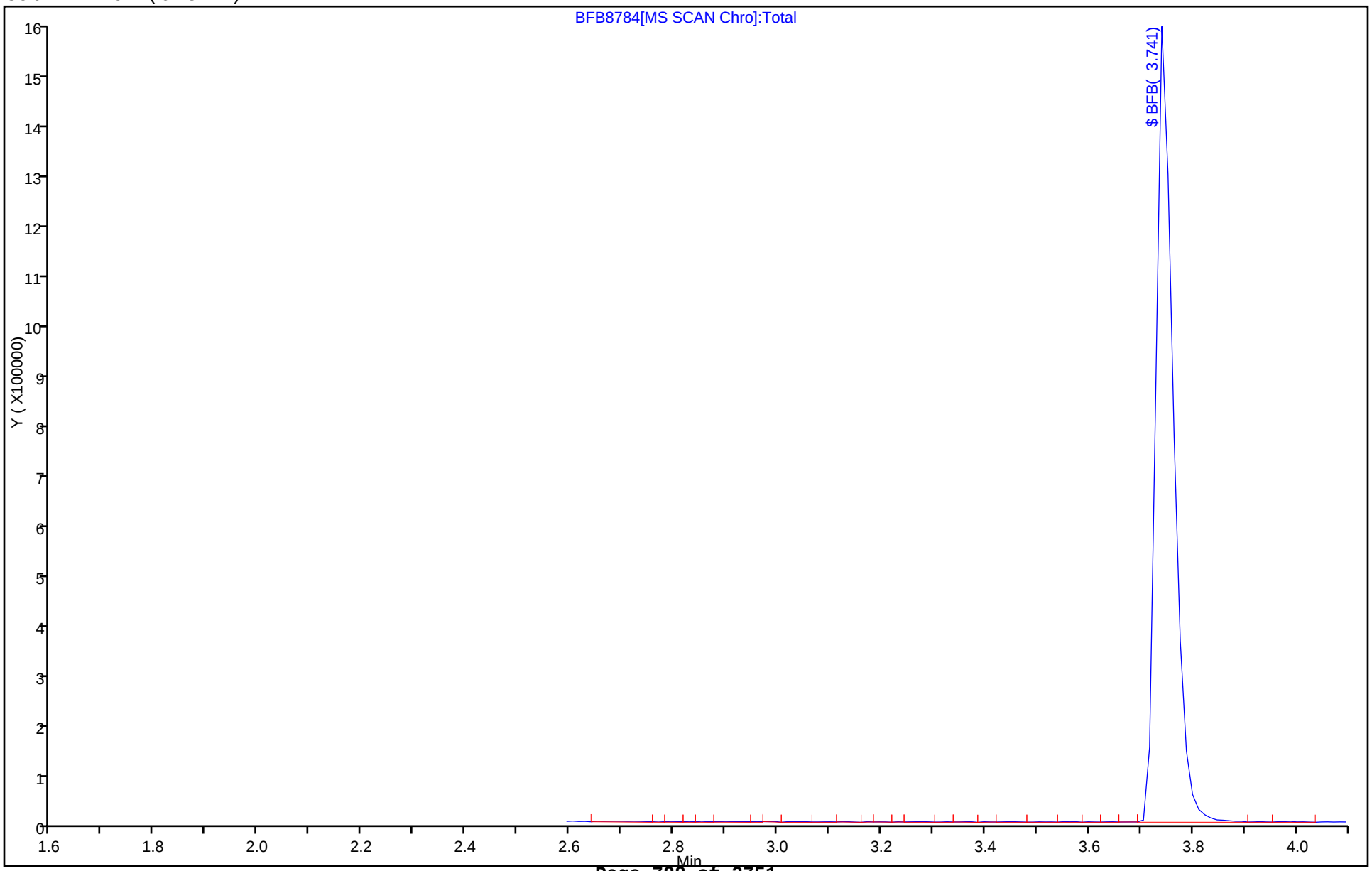
Report Date: 14-Apr-2015 01:56:26 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\BFB8784.D

Injection Date:	11-Apr-2015 00:44:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-175731/6

Matrix: Water | Lab File ID: UXM7085.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/09/2015 12:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 175731 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	1.0	U	1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	1.0	U	2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	2.0	U	10	2.0	0.53
591-78-6	2-Hexanone	2.0	U	10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	10	2.0	0.99
67-64-1	Acetone	1.64	J	10	2.0	0.94
71-43-2	Benzene	1.0	U	1.0	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	1.0	0.25
75-27-4	Bromodichloromethane	1.0	U	1.0	1.0	0.29
74-87-3	Chloromethane	1.0	U	1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	1.0	0.46
124-48-1	Dibromochloromethane	1.0	U	1.0	1.0	0.43
100-41-4	Ethylbenzene	1.0	U	1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	0.50	U	1.0	0.50	0.20
75-09-2	Methylene Chloride	1.0	U	1.0	1.0	0.33
100-42-5	Styrene	0.50	U	1.0	0.50	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	1.0	0.23
67-66-3	Chloroform	1.0	U	1.0	1.0	0.25
74-97-5	Bromochloromethane	1.0	U	1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	1.0	U	1.0	1.0	0.32
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	1.0	0.22
75-01-4	Vinyl chloride	1.0	U	1.0	1.0	0.29
75-00-3	Chloroethane	1.0	U	1.0	1.0	0.32
1330-20-7	Xylenes, Total	2.0	U	2.0	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MB 240-175731/6

Matrix: Water Lab File ID: UXM7085.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/09/2015 12:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 175731 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-120
2037-26-5	Toluene-d8 (Surr)	96		85-120
460-00-4	4-Bromofluorobenzene (Surr)	98		75-120
1868-53-7	Dibromofluoromethane (Surr)	93		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7085.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Apr-2015 12:06:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-006
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:13 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quayler Date: 09-Apr-2015 12:24:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.587	0.001	99	1561297	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	84	1133994	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	583466	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	95	331291	11.4	10.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	367689	11.4	10.7	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1475982	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	543423	11.4	11.2	
9 Dichlorodifluoromethane	85		1.615					ND	
10 Chloromethane	50		1.769					ND	
11 Vinyl chloride	62		1.888					ND	
12 Butadiene	54		1.923					ND	
13 Bromomethane	94		2.220					ND	
14 Chloroethane	64		2.327					ND	
15 Dichlorofluoromethane	67		2.516					ND	
16 Trichlorofluoromethane	101		2.576					ND	
17 Ethyl ether	59		2.836					ND	
18 Acrolein	56		2.943					ND	
19 1,1-Dichloroethene	96		3.050					ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.086					ND	
21 Acetone	43	3.085	3.086	-0.001	95	15494		1.64	
22 Methylal	45		3.109					ND	
23 Iodomethane	142		3.192					ND	
24 Carbon disulfide	76		3.252					ND	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76		3.382					ND	
27 Methyl acetate	43		3.394					ND	
28 Methylene Chloride	84		3.489					ND	
29 2-Methyl-2-propanol	59		3.572					ND	
30 Acrylonitrile	53		3.690					ND	
31 Methyl tert-butyl ether	73		3.738					ND	
32 trans-1,2-Dichloroethene	96		3.738					ND	
33 Hexane	86		3.987					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		4.105					ND	
35 Vinyl acetate	43		4.141					ND	
36 Isopropyl ether	87		4.164					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43		4.603					ND	
39 cis-1,2-Dichloroethene	96		4.603					ND	
41 2,2-Dichloropropane	77		4.610					ND	
42 Propionitrile	54		4.639					ND	
43 Ethyl acetate	43		4.662					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128		4.805					ND	
46 Tetrahydrofuran	42		4.852					ND	
47 Chloroform	83		4.864					ND	
48 1,1,1-Trichloroethane	97		5.042					ND	
49 Cyclohexane	56		5.101					ND	
50 1,1-Dichloropropene	75		5.184					ND	
51 Carbon tetrachloride	117		5.196					ND	
52 Isobutyl alcohol	41		5.232					ND	
53 1,2-Dichloroethane	62		5.362					ND	
54 Benzene	78		5.362					ND	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57		5.576					ND	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130		5.908					ND	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83		6.086					ND	
61 1,2-Dichloropropane	63		6.098					ND	
62 Methyl methacrylate	41		6.168					ND	
63 Dibromomethane	93		6.192					ND	
64 1,4-Dioxane	88		6.204					ND	
65 Dichlorobromomethane	83		6.323					ND	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63		6.572					ND	
68 cis-1,3-Dichloropropene	75		6.714					ND	
69 4-Methyl-2-pentanone (MIBK	43		6.833					ND	
70 Toluene	91		7.023					ND	
71 trans-1,3-Dichloropropene	75		7.189					ND	
72 Ethyl methacrylate	69		7.272					ND	
73 1,1,2-Trichloroethane	97		7.366					ND	
75 Tetrachloroethene	164		7.521					ND	
74 1,3-Dichloropropane	76		7.521					ND	
76 2-Hexanone	43		7.580					ND	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129		7.734					ND	
80 Ethylene Dibromide	107		7.841					ND	
81 1-Chlorohexane	91		8.267					ND	
82 Chlorobenzene	112		8.303					ND	
83 1,1,1,2-Tetrachloroethane	131		8.374					ND	
84 Ethylbenzene	106		8.398					ND	
85 m-Xylene & p-Xylene	106		8.505					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 o-Xylene	106		8.884					ND	
87 Styrene	104		8.896					ND	
88 Bromoform	173		9.074					ND	
89 Isopropylbenzene	105		9.240					ND	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83		9.501					ND	
93 Bromobenzene	156		9.537					ND	
95 1,2,3-Trichloropropane	110		9.548					ND	
94 trans-1,4-Dichloro-2-buten	53		9.560					ND	
96 N-Propylbenzene	120		9.631					ND	
97 2-Chlorotoluene	126		9.726					ND	
98 3-Ethyltoluene	105		9.733					ND	
99 1,3,5-Trimethylbenzene	105		9.797					ND	
100 4-Chlorotoluene	126		9.821					ND	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119		10.129					ND	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105		10.165					ND	
105 sec-Butylbenzene	105		10.343					ND	
106 1,3-Dichlorobenzene	146		10.450					ND	
107 4-Isopropyltoluene	119		10.473					ND	
108 1,4-Dichlorobenzene	146		10.533					ND	
109 1,2,3-Trimethylbenzene	105		10.592					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91		10.888					ND	
112 1,2-Dichlorobenzene	146		10.900					ND	
113 1,2-Dibromo-3-Chloropropan	157		11.671					ND	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180		12.501					ND	
116 Hexachlorobutadiene	225		12.679					ND	
117 Naphthalene	128		12.750					ND	
118 1,2,3-Trichlorobenzene	180		13.011					ND	
119 2-Methylnaphthalene	142		14.066					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
129 Isobutylene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96		1.140					ND	
S 132 1,3-Dichloropropene, Total	75		6.760					ND	
S 133 Xylenes, Total	106		16.530					ND	
S 134 Trihalomethanes, Total	1		0.000					ND	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

Reagents:

VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

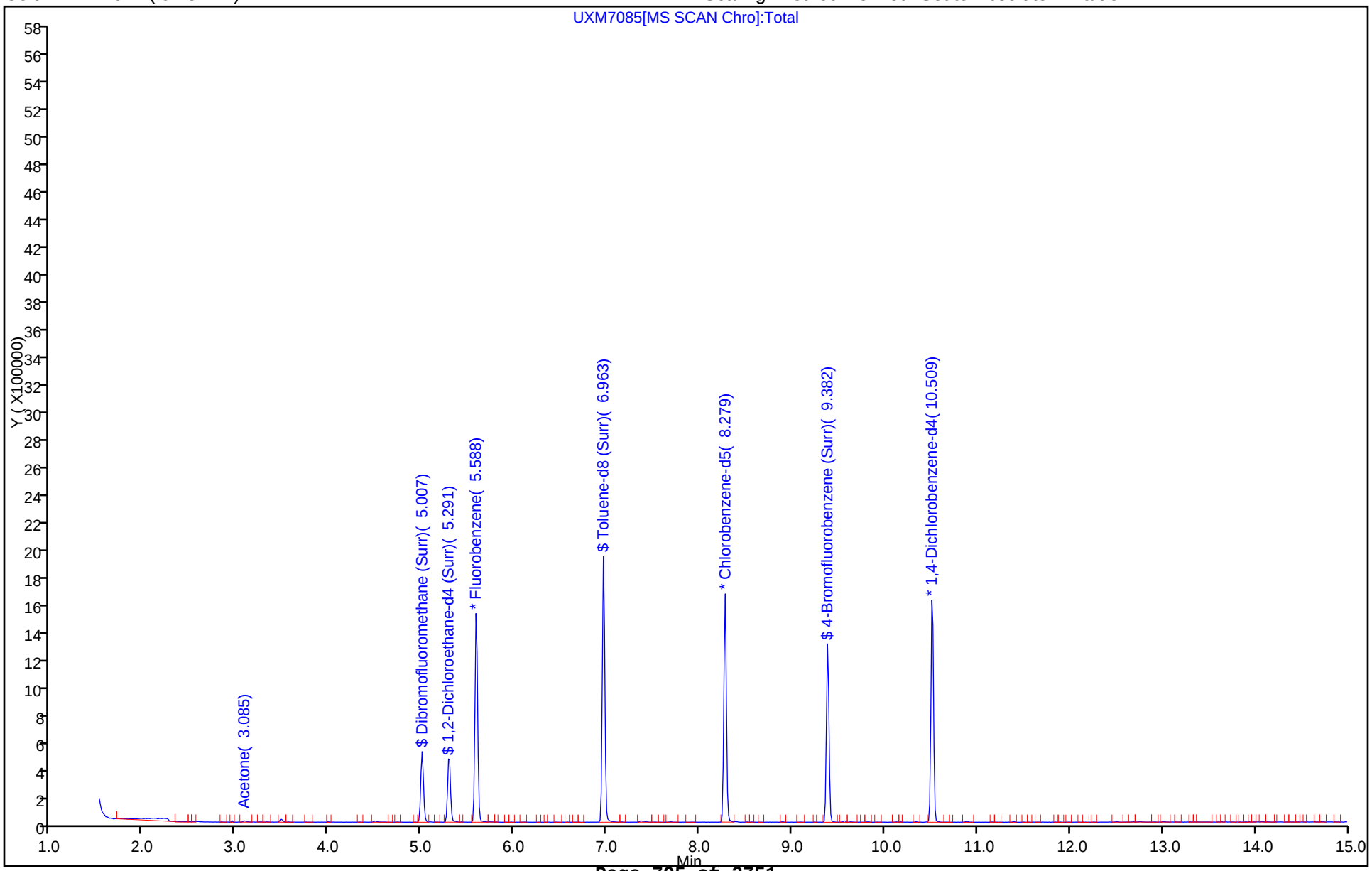
Report Date: 10-Apr-2015 07:30:17 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7085.D

Injection Date:	09-Apr-2015 12:06:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 10-Apr-2015 07:30:17 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7085.D

Injection Date: 09-Apr-2015 12:06:30 Instrument ID: A3UX16

Lims ID: MB

Client ID:

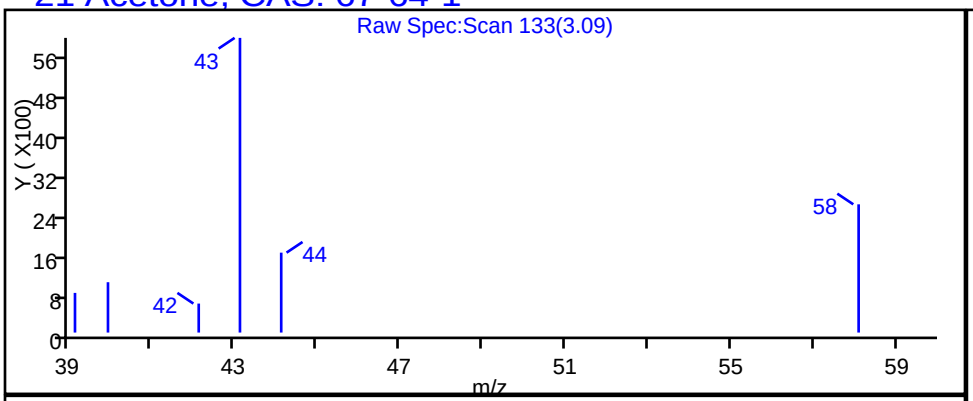
Operator ID: 1904 ALS Bottle#: 5 Worklist Smp#: 6

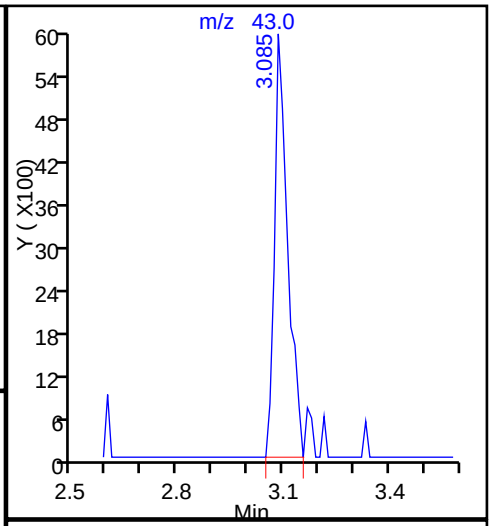
Purge Vol: 5.000 mL Dil. Factor: 1.0000

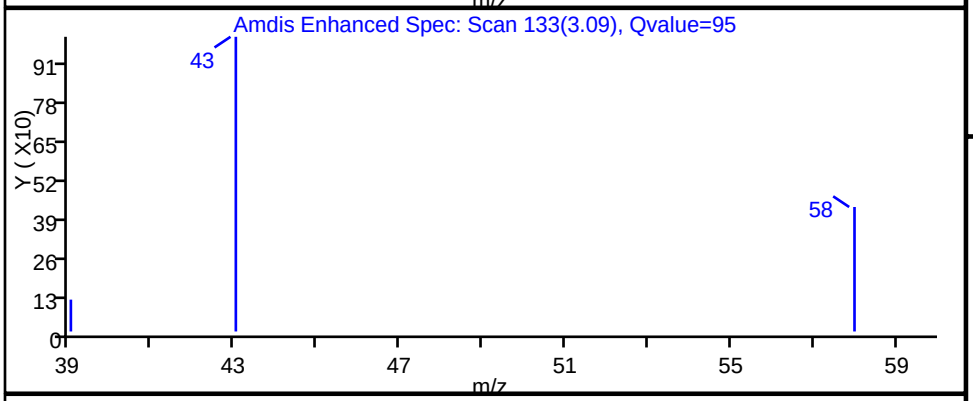
Method: 8260_16 Limit Group: MSV 8260DOD ICAL

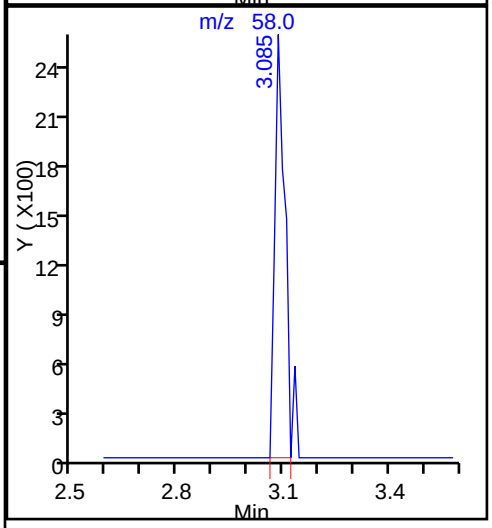
Column: DB-624 (0.18 mm) Detector MS SCAN

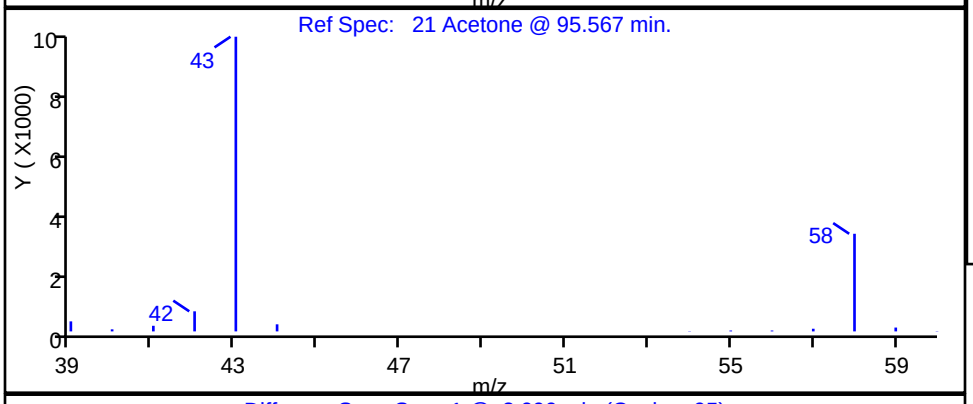
21 Acetone, CAS: 67-64-1

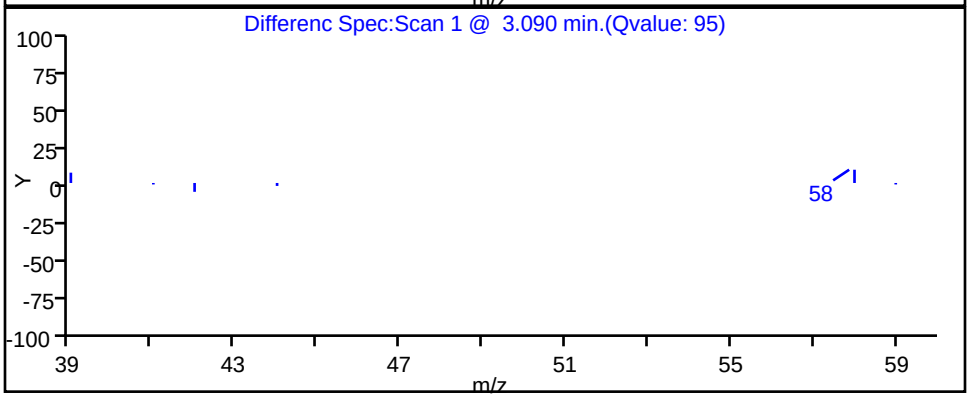












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-175865/2-A

Matrix: Solid | Lab File ID: UX86942.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/11/2015 03:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 176026 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.56
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	5.0	1.0	0.34
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.39
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.36
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.52
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.34
540-59-0	1,2-Dichloroethene, Total	2.0	U	10	2.0	0.36
78-87-5	1,2-Dichloropropane	2.0	U	5.0	2.0	0.69
78-93-3	2-Butanone (MEK)	4.0	U	20	4.0	1.4
591-78-6	2-Hexanone	1.0	U	20	1.0	0.63
108-10-1	4-Methyl-2-pentanone (MIBK)	1.0	U	20	1.0	0.54
71-43-2	Benzene	0.50	U	5.0	0.50	0.23
75-25-2	Bromoform	1.0	U	5.0	1.0	0.33
74-83-9	Bromomethane	1.0	U	5.0	1.0	0.54
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.37
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.33
75-27-4	Bromodichloromethane	0.50	U	5.0	0.50	0.28
74-87-3	Chloromethane	0.50	U	5.0	0.50	0.41
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.55
100-41-4	Ethylbenzene	0.50	U	5.0	0.50	0.26
1634-04-4	Methyl tert-butyl ether	1.0	U	5.0	1.0	0.43
75-09-2	Methylene Chloride	2.0	U	5.0	2.0	0.67
100-42-5	Styrene	0.50	U	5.0	0.50	0.15
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.52
108-88-3	Toluene	0.50	U	5.0	0.50	0.27
67-66-3	Chloroform	0.50	U	5.0	0.50	0.29
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.71
106-93-4	1,2-Dibromoethane	1.0	U	5.0	1.0	0.50
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.54
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.42
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.39
75-00-3	Chloroethane	1.0	U	5.0	1.0	0.86
1330-20-7	Xylenes, Total	2.0	U	10	2.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MB 240-175865/2-A

Matrix: Solid Lab File ID: UX86942.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/11/2015 03:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176026 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		61-130
2037-26-5	Toluene-d8 (Surr)	113		85-115
460-00-4	4-Bromofluorobenzene (Surr)	97		85-120
1868-53-7	Dibromofluoromethane (Surr)	106		59-138

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86942.D
Lims ID: MB 240-175865/2-A
Client ID:
Sample Type: MB
Inject. Date: 11-Apr-2015 03:04:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042461-009
Operator ID: 402279 Instrument ID: A3UX8

Method: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 01:56:28 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 11-Apr-2015 03:53:31

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.159	5.160	-0.001	99	1144899	50.0	50.0	
*	2 Chlorobenzene-d5	117	7.691	7.680	0.011	94	844497	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.880	9.881	-0.001	98	428501	50.0	50.0	
$	4 Dibromofluoromethane (Surr	113	4.627	4.625	0.002	95	245646	50.0	53.0	
$	5 1,2-Dichloroethane-d4 (Sur	65	4.899	4.897	0.002	90	257680	50.0	49.0	
$	6 Toluene-d8 (Surr)	98	6.425	6.424	0.001	93	1037741	50.0	56.4	
$	7 4-Bromofluorobenzene (Surr	95	8.768	8.755	0.013	97	322366	50.0	48.5	
	9 Dichlorodifluoromethane	85		1.584					ND	
	10 Chloromethane	50		1.750					ND	
	11 Vinyl chloride	62		1.868					ND	
	12 Butadiene	54		1.915					ND	
	13 Bromomethane	94		2.187					ND	
	14 Chloroethane	64		2.294					ND	
	15 Dichlorofluoromethane	67		2.460					ND	
	16 Trichlorofluoromethane	101		2.507					ND	
	17 Ethyl ether	59		2.744					ND	
	18 Acrolein	56		2.838					ND	
	19 1,1-Dichloroethene	96		2.933					ND	
	20 1,1,2-Trichloro-1,2,2-trif	151		2.945					ND	
	21 Acetone	43		2.957					ND	
	22 Methylal	45		2.980					ND	
	23 Iodomethane	142		3.063					ND	
	24 Carbon disulfide	76		3.122					ND	
	25 Acetonitrile	41		3.172					ND	
	26 3-Chloro-1-propene	76		3.217					ND	
	27 Methyl acetate	43		3.217					ND	
	28 Methylene Chloride	84		3.300					ND	
	29 2-Methyl-2-propanol	59		3.383					ND	
	30 Acrylonitrile	53		3.489					ND	
	31 trans-1,2-Dichloroethene	96		3.525					ND	
	32 Methyl tert-butyl ether	73		3.525					ND	
	33 Hexane	86	3.739	3.738	0.001	79	2050		1.35	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		3.844					ND	
35 Vinyl acetate	43		3.868					ND	
36 Isopropyl ether	87		3.882					ND	
37 2-Chloro-1,3-butadiene	53		3.906					ND	
38 Tert-butyl ethyl ether	59		4.154					ND	
39 cis-1,2-Dichloroethene	96		4.270					ND	
40 2-Butanone (MEK)	43		4.270					ND	
41 2,2-Dichloropropane	77		4.282					ND	
42 Ethyl acetate	43		4.308					ND	
43 Propionitrile	54		4.308					ND	
44 Methacrylonitrile	41		4.438					ND	
45 Chlorobromomethane	128		4.459					ND	
46 Tetrahydrofuran	42		4.495					ND	
47 Chloroform	83		4.507					ND	
48 1,1,1-Trichloroethane	97		4.672					ND	
49 Cyclohexane	56		4.720					ND	
50 1,1-Dichloropropene	75		4.791					ND	
51 Carbon tetrachloride	117		4.802					ND	
52 Isobutyl alcohol	41		4.826					ND	
54 Benzene	78		4.956					ND	
53 1,2-Dichloroethane	62		4.956					ND	
55 Tert-amyl methyl ether	73		5.018					ND	
56 n-Heptane	100		5.134					ND	
57 n-Butanol	56		5.326					ND	
58 Trichloroethene	130		5.441					ND	
59 Ethyl acrylate	55		5.491					ND	
60 Methylcyclohexane	83		5.607					ND	
61 1,2-Dichloropropane	63		5.619					ND	
62 Methyl methacrylate	41		5.681					ND	
64 1,4-Dioxane	88		5.714					ND	
63 Dibromomethane	93		5.714					ND	
65 Dichlorobromomethane	83		5.832					ND	
66 2-Nitropropane	41		6.000					ND	
67 2-Chloroethyl vinyl ether	63		6.057					ND	
68 cis-1,3-Dichloropropene	75		6.187					ND	
69 4-Methyl-2-pentanone (MIBK	43		6.305					ND	
70 Toluene	91		6.483					ND	
71 trans-1,3-Dichloropropene	75		6.648					ND	
72 Ethyl methacrylate	69		6.708					ND	
73 1,1,2-Trichloroethane	97		6.802					ND	
74 1,3-Dichloropropane	76		6.956					ND	
75 Tetrachloroethene	164		6.968					ND	
76 2-Hexanone	43		7.003					ND	
77 n-Butyl acetate	43		7.112					ND	
78 Chlorodibromomethane	129		7.157					ND	
79 Tetrahydrothiophene	60		7.168					ND	
80 Ethylene Dibromide	107		7.276					ND	
81 1-Chlorohexane	91		7.669					ND	
82 Chlorobenzene	112		7.713					ND	
83 1,1,1,2-Tetrachloroethane	131		7.773					ND	
84 Ethylbenzene	106		7.796					ND	
85 m-Xylene & p-Xylene	106		7.903					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 o-Xylene	106		8.269					ND	
87 Styrene	104		8.281					ND	
88 Bromoform	173		8.459					ND	
89 Isopropylbenzene	105		8.613					ND	
90 1,4-Dichlorobutane	90		8.697					ND	
91 Cyclohexanone	55		8.698					ND	
92 1,1,2,2-Tetrachloroethane	83		8.873					ND	
93 Bromobenzene	156		8.920					ND	
94 1,2,3-Trichloropropane	110		8.932					ND	
95 trans-1,4-Dichloro-2-buten	53		8.932					ND	
96 N-Propylbenzene	120		9.003					ND	
97 2-Chlorotoluene	126		9.098					ND	
98 1,3,5-Trimethylbenzene	105		9.169					ND	
99 4-Chlorotoluene	126		9.192					ND	
100 tert-Butylbenzene	119		9.488					ND	
101 Pentachloroethane	167		9.515					ND	
102 1,2,4-Trimethylbenzene	105		9.536					ND	
103 sec-Butylbenzene	105		9.701					ND	
104 1,3-Dichlorobenzene	146		9.820					ND	
105 4-Isopropyltoluene	119		9.843					ND	
106 1,4-Dichlorobenzene	146		9.902					ND	
107 1,2,3-Trimethylbenzene	105		9.952					ND	
108 Benzyl chloride	126		10.023					ND	
109 n-Butylbenzene	91		10.246					ND	
110 1,2-Dichlorobenzene	146		10.269					ND	
111 1,2-Dibromo-3-Chloropropan	157		11.027					ND	
112 1,3,5-Trichlorobenzene	180		11.242					ND	
113 1,2,4-Trichlorobenzene	180		11.855					ND	
114 Hexachlorobutadiene	225		12.032					ND	
115 Naphthalene	128	12.105	12.103	0.002	88	1950		0.1075	
116 1,2,3-Trichlorobenzene	180		12.364					ND	
117 2-Methylnaphthalene	142		13.431					ND	
123 1,3-Diethylbenzene TIC	1		0.000					ND	
124 Propene oxide	1		0.000					ND	
125 Isobutylene TIC	1		0.000					ND	
121 Ethylene oxide	1		0.000					ND	
122 1,3-Butadiene TIC	1		0.000					ND	
119 Epichlorohydrin	1		0.000					ND	
118 2-Ethyltoluene	1		0.000					ND	
120 3-Ethyltoluene	1		0.000					ND	
S 126 1,2-Dichloroethene, Total	96		1.140					ND	
S 127 1,3-Dichloropropene, Total	75		6.760					ND	
S 128 Xylenes, Total	106		16.530					ND	
S 129 Trihalomethanes, Total	1		0.000					ND	
T 130 Butyl Methacrylate TIC	69		9.231					ND	
T 131 Hexachloroethane TIC	166		10.500					ND	
T 132 Chlorodifluoromethane TIC	51		1.590					ND	
T 133 Pentachloroethane TIC	167		9.514					ND	

Reagents:

VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VMUX8SS_00018	Amount Added:	1.15	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent

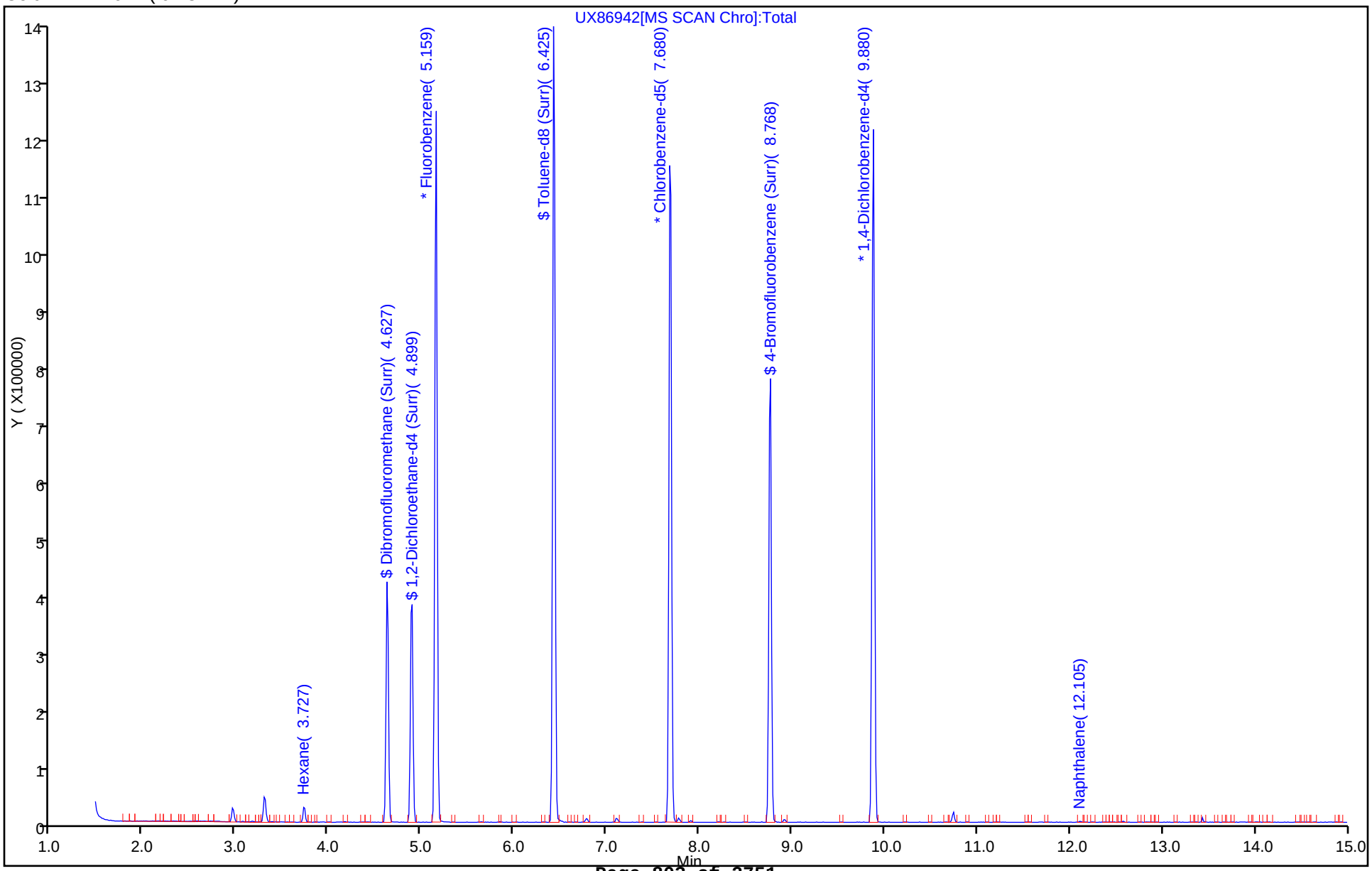
Report Date: 14-Apr-2015 01:56:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86942.D

Injection Date:	11-Apr-2015 03:04:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	MB 240-175865/2-A			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-176387/33

Matrix: Solid | Lab File ID: 142405.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/14/2015 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 176387 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.56
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	5.0	1.0	0.34
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.39
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.36
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.52
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.34
540-59-0	1,2-Dichloroethene, Total	2.0	U	10	2.0	0.36
78-87-5	1,2-Dichloropropane	2.0	U	5.0	2.0	0.69
78-93-3	2-Butanone (MEK)	4.0	U	20	4.0	1.4
591-78-6	2-Hexanone	1.0	U	20	1.0	0.63
108-10-1	4-Methyl-2-pentanone (MIBK)	1.0	U	20	1.0	0.54
67-64-1	Acetone	8.91	J	20	15	6.3
71-43-2	Benzene	0.50	U	5.0	0.50	0.23
75-25-2	Bromoform	1.0	U	5.0	1.0	0.33
74-83-9	Bromomethane	1.0	U	5.0	1.0	0.54
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.44
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.37
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.33
75-27-4	Bromodichloromethane	0.50	U	5.0	0.50	0.28
74-87-3	Chloromethane	0.50	U	5.0	0.50	0.41
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.55
100-41-4	Ethylbenzene	0.50	U	5.0	0.50	0.26
1634-04-4	Methyl tert-butyl ether	1.0	U	5.0	1.0	0.43
75-09-2	Methylene Chloride	2.50	J	5.0	2.0	0.67
100-42-5	Styrene	0.50	U	5.0	0.50	0.15
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.52
108-88-3	Toluene	0.50	U	5.0	0.50	0.27
67-66-3	Chloroform	0.50	U	5.0	0.50	0.29
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.71
106-93-4	1,2-Dibromoethane	1.0	U	5.0	1.0	0.50
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.54
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.42
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.39
75-00-3	Chloroethane	1.0	U	5.0	1.0	0.86
1330-20-7	Xylenes, Total	2.0	U	10	2.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MB 240-176387/33

Matrix: Solid Lab File ID: 142405.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/14/2015 15:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176387 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-130
2037-26-5	Toluene-d8 (Surr)	103		85-115
460-00-4	4-Bromofluorobenzene (Surr)	96		85-120
1868-53-7	Dibromofluoromethane (Surr)	95		59-138

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142405.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 14-Apr-2015 15:28:30 ALS Bottle#: 9 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 240-0042552-033240-0042552-033
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:47 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 15:48:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 TBA-d9 (IS)	65		3.789					ND	
* 1 Fluorobenzene	96	6.652	6.652	0.000	99	1165451	50.0	50.0	
* 4 Dioxane-d8 (IS)	96		7.339					ND	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	666484	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	95	346955	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.990	0.000	92	290614	50.0	47.7	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	94	380205	50.0	52.4	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	95	1028766	50.0	51.7	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	85	334146	50.0	48.1	
11 Dichlorodifluoromethane	85		1.316					ND	
12 Chloromethane	50		1.481					ND	
13 Vinyl chloride	62		1.600					ND	
14 Butadiene	54		1.623					ND	
15 Bromomethane	94		1.907					ND	
16 Ethylene oxide	44	1.966	1.955	0.011	20	5356		NC	
17 Chloroethane	64		2.002					ND	
18 Dichlorofluoromethane	67		2.262					ND	
19 Trichlorofluoromethane	101		2.298					ND	
20 Ethyl ether	59	2.641	2.641	0.000	80	1540		0.3382	
21 Acrolein	56		2.818					ND	
22 Propene oxide	58		2.819					ND	
23 1,1-Dichloroethene	96		2.889					ND	
24 1,1,2-Trichloro-1,2,2-trif	151		2.913					ND	
25 Methylal	45		2.932					ND	
26 Acetone	43	3.031	3.031	0.000	99	23708		8.91	
27 Iodomethane	142		3.079					ND	
28 Carbon disulfide	76		3.150					ND	
29 3-Chloro-1-propene	76		3.386					ND	
30 Acetonitrile	41		3.434					ND	
31 Methyl acetate	43		3.469					ND	
32 Methylene Chloride	84	3.599	3.588	0.011	96	31415		2.50	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 2-Methyl-2-propanol	59		3.919					ND	
34 trans-1,2-Dichloroethene	96		3.990					ND	
35 Methyl tert-butyl ether	73		4.025					ND	
36 Acrylonitrile	53		4.037					ND	
37 Hexane	86	4.404	4.404	0.000	78	353		0.2189	
38 1,1-Dichloroethane	63		4.641					ND	
39 2-Chloro-1,3-butadiene	53		4.759					ND	
40 Isopropyl ether	87		4.771					ND	
41 Vinyl acetate	86		4.783					ND	
42 Tert-butyl ethyl ether	59		5.244					ND	
43 2,2-Dichloropropane	77		5.386					ND	
44 cis-1,2-Dichloroethene	96		5.410					ND	
45 2-Butanone (MEK)	43		5.481					ND	
46 Ethyl acetate	43		5.564					ND	
47 Propionitrile	54		5.564					ND	
48 Chlorobromomethane	128		5.694					ND	
49 Methacrylonitrile	41		5.718					ND	
50 Tetrahydrofuran	42		5.741					ND	
51 Chloroform	83		5.800					ND	
52 1,1,1-Trichloroethane	97		5.954					ND	
53 Cyclohexane	56		5.990					ND	
54 Carbon tetrachloride	117		6.120					ND	
55 1,1-Dichloropropene	75		6.143					ND	
56 Benzene	78		6.356					ND	
57 Isobutyl alcohol	41		6.392					ND	
58 1,2-Dichloroethane	62		6.404					ND	
59 Tert-amyl methyl ether	73		6.499					ND	
60 n-Heptane	100		6.640					ND	
61 Trichloroethene	130		7.007					ND	
62 n-Butanol	56	7.055	7.043	0.012	41	2372		29.0	
64 Methylcyclohexane	83		7.161					ND	
63 Ethyl acrylate	55		7.161					ND	
65 1,2-Dichloropropane	63		7.232					ND	
66 Tetrahydrothiophene	60		7.255					ND	
67 Dibromomethane	93		7.350					ND	
68 Methyl methacrylate	41		7.374					ND	
69 1,4-Dioxane	88		7.386					ND	
70 Dichlorobromomethane	83		7.504					ND	
71 2-Nitropropane	41		7.741					ND	
72 2-Chloroethyl vinyl ether	63		7.800					ND	
73 cis-1,3-Dichloropropene	75		7.907					ND	
74 Epichlorohydrin	57		7.919					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.060					ND	
76 Toluene	91		8.191					ND	
77 trans-1,3-Dichloropropene	75		8.404					ND	
78 Ethyl methacrylate	69		8.486					ND	
79 1,1,2-Trichloroethane	97		8.569					ND	
80 Tetrachloroethene	164		8.664					ND	
81 1,3-Dichloropropane	76		8.711					ND	
82 2-Hexanone	43		8.782					ND	
83 n-Butyl acetate	43	8.889	8.889	0.000	62	3238		0.2888	
84 Chlorodibromomethane	129		8.901					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Ethylene Dibromide	107		8.995					ND	
86 1-Chlorohexane	91		9.386					ND	
87 Chlorobenzene	112		9.409					ND	
88 1,1,1,2-Tetrachloroethane	131		9.480					ND	
89 Ethylbenzene	106		9.504					ND	
90 m-Xylene & p-Xylene	106		9.599					ND	
91 o-Xylene	106		9.930					ND	
92 Styrene	104		9.954					ND	
93 Bromoform	173		10.119					ND	
94 Isopropylbenzene	105		10.238					ND	
95 Cyclohexanone	55		10.344					ND	
97 Bromobenzene	156		10.510					ND	
96 1,1,2,2-Tetrachloroethane	83		10.522					ND	
98 1,2,3-Trichloropropane	110		10.557					ND	
99 trans-1,4-Dichloro-2-buten	53		10.557					ND	
100 N-Propylbenzene	120		10.593					ND	
101 2-Chlorotoluene	126		10.664					ND	
102 1,3,5-Trimethylbenzene	105		10.735					ND	
103 4-Chlorotoluene	126		10.758					ND	
104 3-Ethyltoluene	105		10.920					ND	
105 tert-Butylbenzene	119		11.007					ND	
106 Pentachloroethane	167		11.042					ND	
107 1,2,4-Trimethylbenzene	105		11.054					ND	
108 2-Ethyltoluene	105		11.168					ND	
109 sec-Butylbenzene	105		11.196					ND	
110 1,3-Dichlorobenzene	146		11.303					ND	
111 4-Isopropyltoluene	119		11.314					ND	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	35	1147		0.1066	
113 1,2,3-Trimethylbenzene	105		11.409					ND	
114 Benzyl chloride	126		11.492					ND	
115 n-Butylbenzene	91		11.658					ND	
116 1,2-Dichlorobenzene	146		11.693					ND	
117 1,2-Dibromo-3-Chloropropan	157		12.356					ND	
118 1,3,5-Trichlorobenzene	180	12.521	12.510	0.011	82	3118		0.3199	
119 1,2,4-Trichlorobenzene	180		13.030					ND	
120 Hexachlorobutadiene	225		13.160					ND	
121 Naphthalene	128		13.231					ND	
122 1,2,3-Trichlorobenzene	180		13.421					ND	
123 2-Methylnaphthalene	142	14.095	14.095	0.000	89	20630		1.70	
130 1,4-Dichlorobutane	1		0.000					ND	
131 Hexachloroethane TIC	1		0.000					ND	
125 Isobutylene TIC	1		0.000					ND	
124 Chlorodifluoromethane TIC	1		0.000					ND	
128 1,3-Butadiene TIC	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
129 Pentachloroethane TIC	1		0.000					ND	
127 Butyl Methacrylate TIC	1		0.000					ND	
A 132 C6-C10	1	7.550	(4.240-10.860)		0	716617		NC	
A 133 C6-C12	1	8.508	(4.240-12.775)		0	1304084		NC	
S 134 1,2-Dichloroethene, Total	96		1.140					ND	
S 135 1,3-Dichloropropene, Total	75		6.760					ND	
S 136 Xylenes, Total	106		16.530					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VM250SS_00030	Amount Added:	1.00	Units: uL	Run Reagent

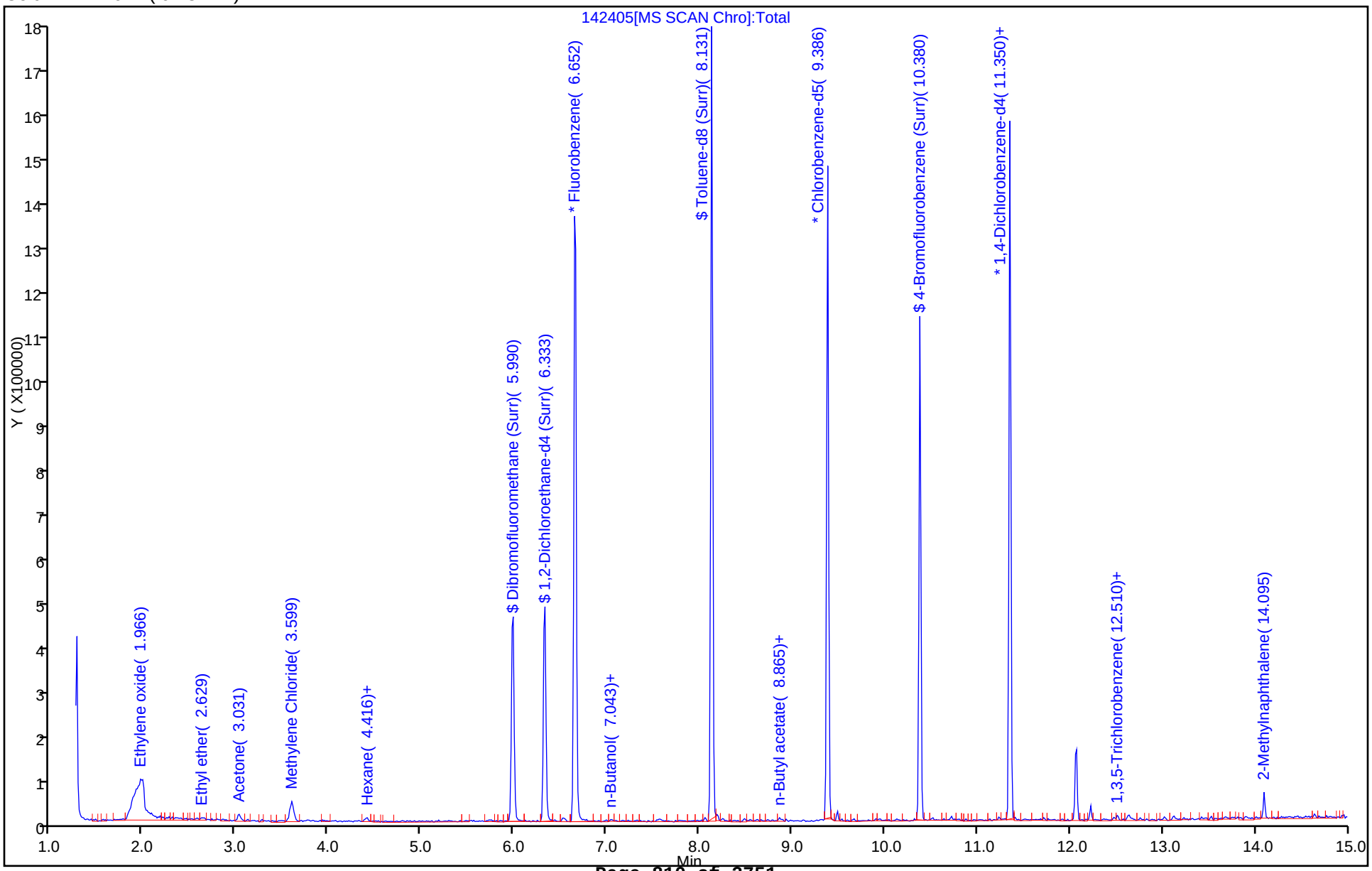
Report Date: 15-Apr-2015 13:28:54 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142405.D

Injection Date:	14-Apr-2015 15:28:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	mb			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



Report Date: 15-Apr-2015 13:28:54 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142405.D

Injection Date: 14-Apr-2015 15:28:30 Instrument ID: A3UX14

Lims ID: mb

Client ID:

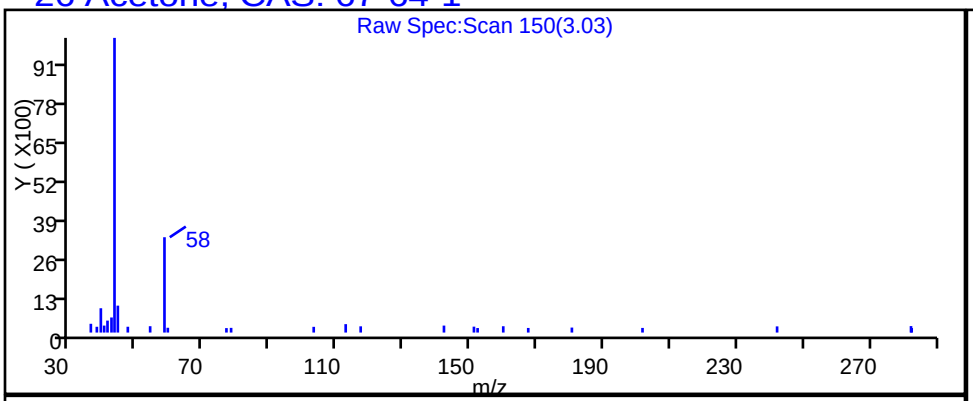
Operator ID: 002808 ALS Bottle#: 9 Worklist Smp#: 33

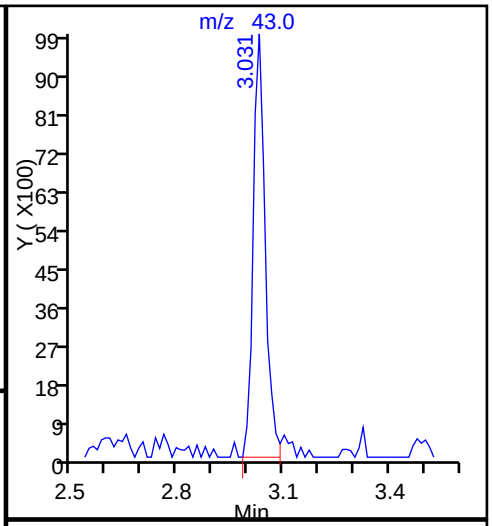
Purge Vol: 5.000 mL Dil. Factor: 1.0000

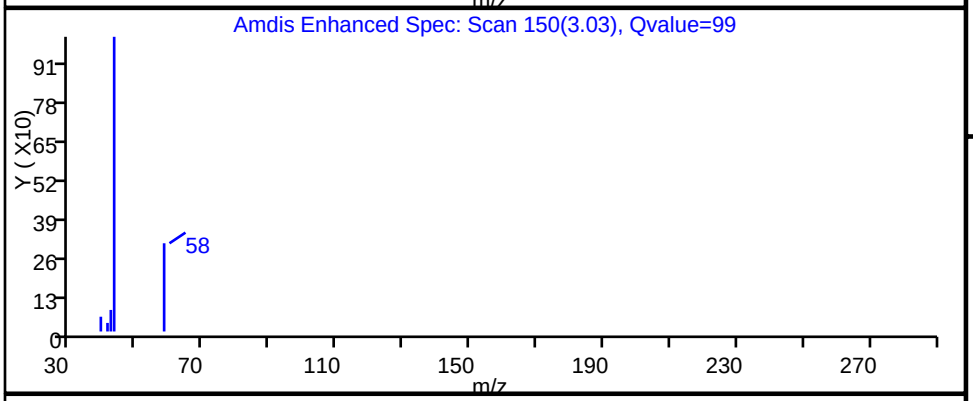
Method: 8260_14 Limit Group: MSV 8260DOD ICAL

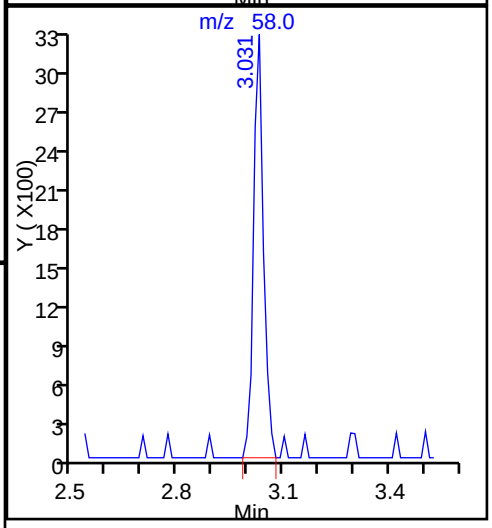
Column: DB-624 (0.18 mm) Detector MS SCAN

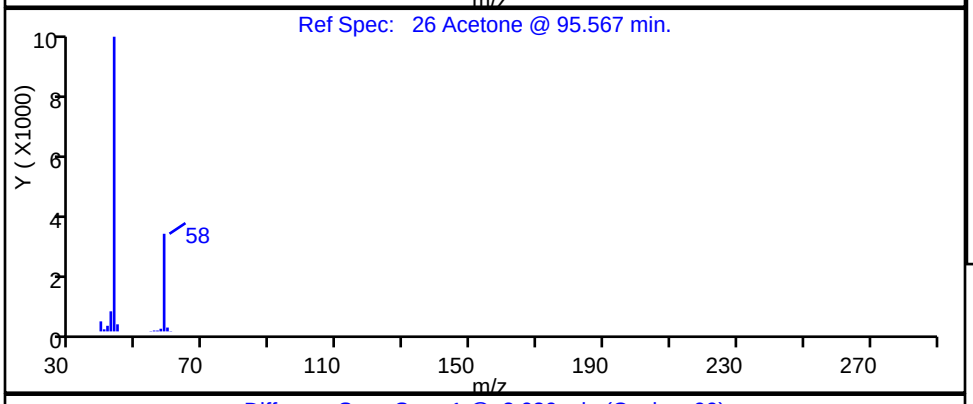
26 Acetone, CAS: 67-64-1

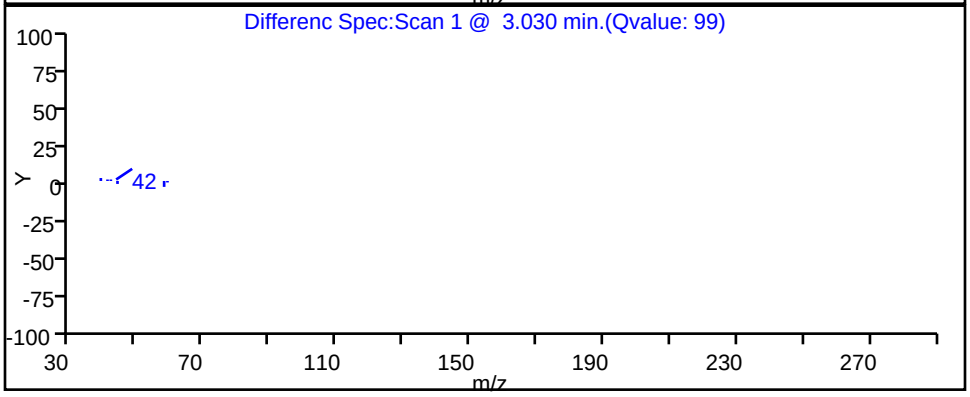












Report Date: 15-Apr-2015 13:28:54 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142405.D

Injection Date: 14-Apr-2015 15:28:30 Instrument ID: A3UX14

Lims ID: mb

Client ID:

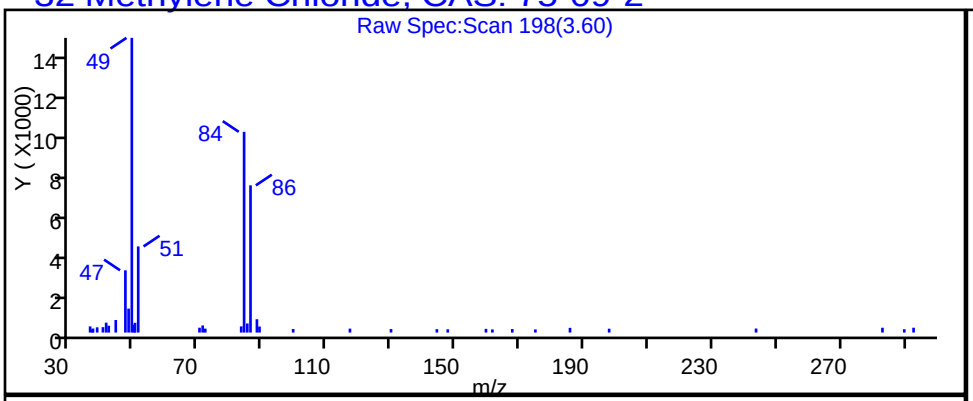
Operator ID: 002808 ALS Bottle#: 9 Worklist Smp#: 33

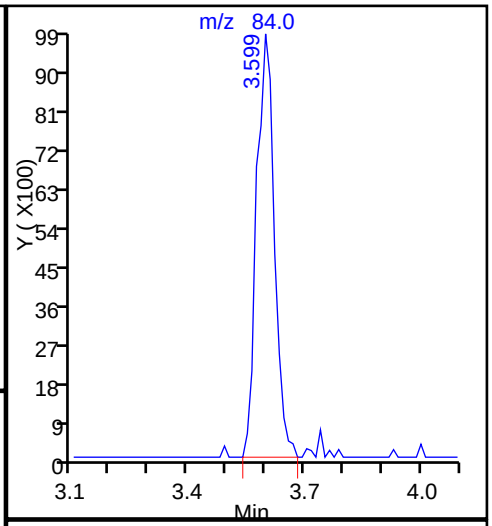
Purge Vol: 5.000 mL Dil. Factor: 1.0000

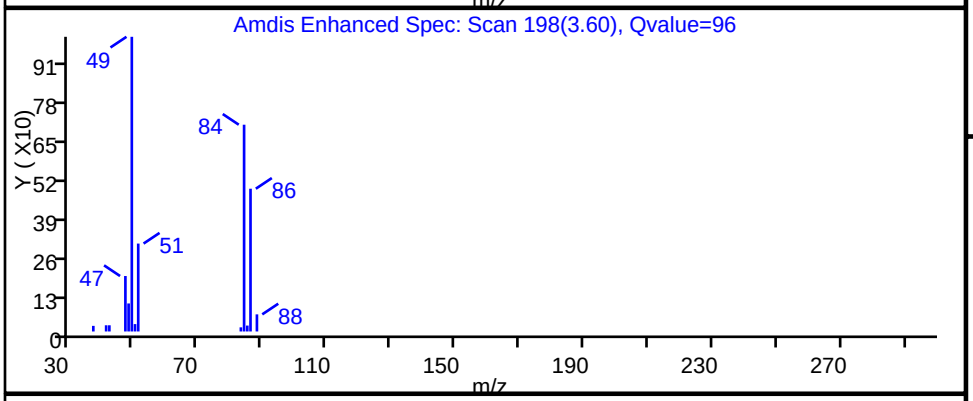
Method: 8260_14 Limit Group: MSV 8260DOD ICAL

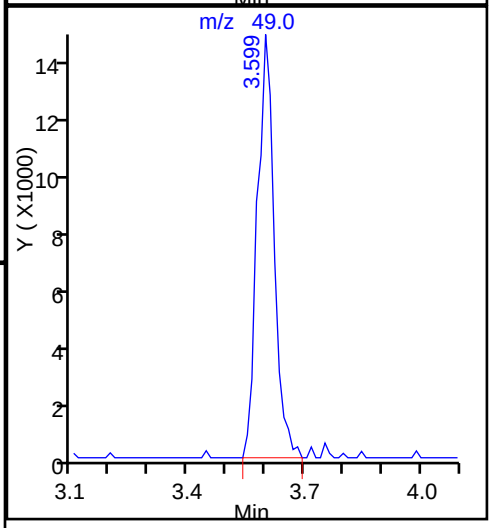
Column: DB-624 (0.18 mm) Detector MS SCAN

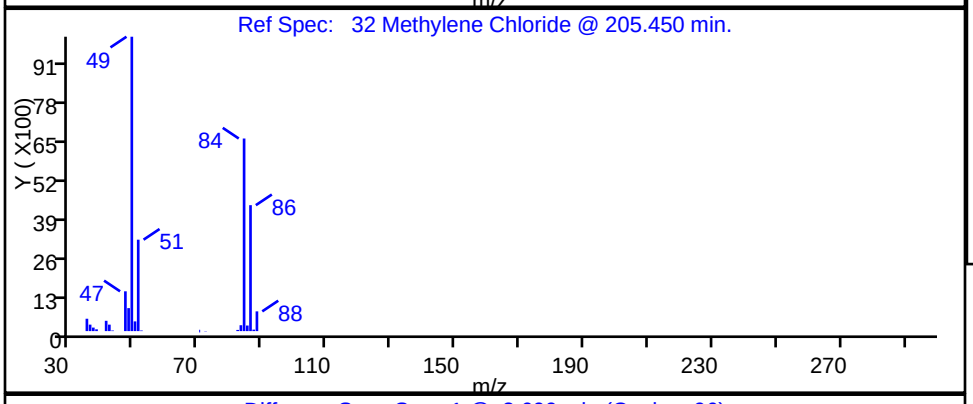
32 Methylene Chloride, CAS: 75-09-2

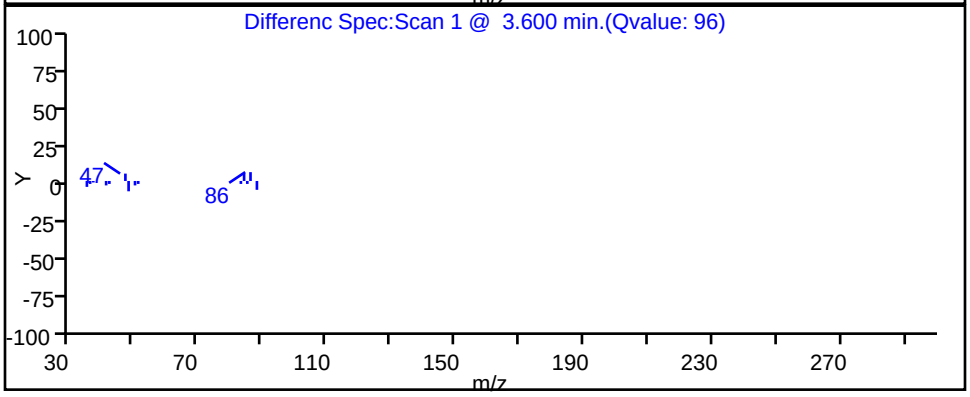












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-175731/4

Matrix: Water | Lab File ID: UXM7083.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/09/2015 11:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 175731 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	10.4		1.0	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	9.71		1.0	0.50	0.22
79-00-5	1,1,2-Trichloroethane	9.84		1.0	0.50	0.24
75-34-3	1,1-Dichloroethane	10.5		1.0	1.0	0.30
75-35-4	1,1-Dichloroethene	10.7		1.0	1.0	0.45
107-06-2	1,2-Dichloroethane	10.4		1.0	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	20.7		2.0	1.0	0.20
78-87-5	1,2-Dichloropropane	10.1		1.0	1.0	0.25
78-93-3	2-Butanone (MEK)	19.9		10	2.0	0.53
591-78-6	2-Hexanone	19.2		10	2.0	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	20.1		10	2.0	0.99
67-64-1	Acetone	17.4		10	2.0	0.94
71-43-2	Benzene	10.1		1.0	1.0	0.35
75-25-2	Bromoform	9.74		1.0	1.0	0.56
74-83-9	Bromomethane	8.58		1.0	1.0	0.44
75-15-0	Carbon disulfide	10.9		1.0	1.0	0.38
56-23-5	Carbon tetrachloride	10.8		1.0	1.0	0.43
108-90-7	Chlorobenzene	9.79		1.0	1.0	0.25
75-27-4	Bromodichloromethane	9.81		1.0	1.0	0.29
74-87-3	Chloromethane	8.18		1.0	1.0	0.44
10061-01-5	cis-1,3-Dichloropropene	10.5		1.0	1.0	0.46
124-48-1	Dibromochloromethane	10.0		1.0	1.0	0.43
100-41-4	Ethylbenzene	10.1		1.0	1.0	0.25
1634-04-4	Methyl tert-butyl ether	10.3		1.0	0.50	0.20
75-09-2	Methylene Chloride	10.5		1.0	1.0	0.33
100-42-5	Styrene	9.36		1.0	0.50	0.45
127-18-4	Tetrachloroethene	10.1		1.0	1.0	0.31
108-88-3	Toluene	10.0		1.0	1.0	0.23
67-66-3	Chloroform	10.1		1.0	1.0	0.25
74-97-5	Bromochloromethane	9.90		1.0	1.0	0.50
106-93-4	1,2-Dibromoethane	10.0		1.0	1.0	0.32
10061-02-6	trans-1,3-Dichloropropene	10.8		1.0	1.0	0.56
79-01-6	Trichloroethene	10.4		1.0	1.0	0.22
75-01-4	Vinyl chloride	8.68		1.0	1.0	0.29
75-00-3	Chloroethane	8.70		1.0	1.0	0.32
1330-20-7	Xylenes, Total	19.9		2.0	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-175731/4

Matrix: Water Lab File ID: UXM7083.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/09/2015 11:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 175731 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-120
2037-26-5	Toluene-d8 (Surr)	96		85-120
460-00-4	4-Bromofluorobenzene (Surr)	98		75-120
1868-53-7	Dibromofluoromethane (Surr)	94		85-115

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7083.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Apr-2015 11:20:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-004
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:13 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.587	0.001	99	1619676	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	85	1168877	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	92	648310	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	345496	11.4	10.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	376571	11.4	10.6	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1521284	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	557106	11.4	11.1	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	211948	10.0	7.10	
10 Chloromethane	50	1.769	1.769	0.000	99	335987	10.0	8.18	
11 Vinyl chloride	62	1.888	1.888	0.000	97	391665	10.0	8.68	
12 Butadiene	54	1.935	1.923	0.012	0	341308	10.0	8.40	
13 Bromomethane	94	2.232	2.220	0.012	90	186747	10.0	8.58	
14 Chloroethane	64	2.338	2.327	0.011	98	230271	10.0	8.70	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	551753	10.0	9.31	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	98	393582	10.0	10.0	
17 Ethyl ether	59	2.836	2.836	0.000	88	300592	10.0	10.3	
18 Acrolein	56	2.943	2.943	0.000	99	196390	50.0	52.0	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	350631	10.0	10.7	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	90	278858	10.0	11.0	
21 Acetone	43	3.085	3.086	-0.001	65	170306	20.0	17.4	
23 Iodomethane	142	3.192	3.192	0.000	95	568687	10.0	11.0	
24 Carbon disulfide	76	3.263	3.252	0.011	98	1101636	10.0	10.9	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	93	218922	10.0	9.81	
27 Methyl acetate	43	3.394	3.394	0.000	97	1134073	50.0	52.6	
28 Methylene Chloride	84	3.489	3.489	0.000	89	419167	10.0	10.5	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	197585	100.0	95.3	
30 Acrylonitrile	53	3.690	3.690	0.000	99	1134861	100.0	101.3	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	987731	10.0	10.3	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	69	415392	10.0	10.6	
33 Hexane	86	3.999	3.987	0.012	90	117532	10.0	12.4	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	96	675260	10.0	10.5	
35 Vinyl acetate	43	4.141	4.141	0.000	96	212823	10.0	7.85	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	97	242493	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	80	425466	10.0	10.1	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	86	420268	10.0	10.2	
45 Chlorobromomethane	128	4.805	4.805	0.000	90	194860	10.0	9.90	
46 Tetrahydrofuran	42	4.852	4.852	0.000	89	149031	20.0	19.2	
47 Chloroform	83	4.864	4.864	0.000	92	635642	10.0	10.1	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	498559	10.0	10.4	
49 Cyclohexane	56	5.113	5.101	0.012	87	639678	10.0	10.8	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	525218	10.0	10.8	
51 Carbon tetrachloride	117	5.196	5.196	0.000	96	423839	10.0	10.8	
52 Isobutyl alcohol	41	5.232	5.232	0.000	92	158689	250.0	220.5	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	453382	10.0	10.4	
54 Benzene	78	5.362	5.362	0.000	94	1635358	10.0	10.1	
56 n-Heptane	57	5.588	5.576	0.012	88	294926	10.0	10.5	
58 Trichloroethene	130	5.908	5.908	0.000	96	429764	10.0	10.4	
60 Methylcyclohexane	83	6.086	6.086	0.000	90	668950	10.0	10.7	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	89	372387	10.0	10.1	
63 Dibromomethane	93	6.192	6.192	0.000	94	199458	10.0	10.2	
64 1,4-Dioxane	88	6.204	6.204	0.000	39	48804	200.0	181.3	
65 Dichlorobromomethane	83	6.323	6.323	0.000	100	442284	10.0	9.81	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	92	238888	12.0	12.4	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	97	555590	10.0	10.5	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	483354	20.0	20.1	
70 Toluene	91	7.022	7.023	-0.001	98	1735788	10.0	10.0	
71 trans-1,3-Dichloropropene	75	7.200	7.189	0.011	91	472692	10.0	10.8	
72 Ethyl methacrylate	69	7.272	7.272	0.000	88	366940	10.0	10.3	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	89	305584	10.0	9.84	
75 Tetrachloroethene	164	7.532	7.521	0.011	92	331398	10.0	10.1	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	89	529483	10.0	9.62	
76 2-Hexanone	43	7.580	7.580	0.000	95	324271	20.0	19.2	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	318237	10.0	10.0	
80 Ethylene Dibromide	107	7.853	7.841	0.012	98	295897	10.0	10.0	
82 Chlorobenzene	112	8.303	8.303	0.000	96	1085593	10.0	9.79	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	95	355429	10.0	10.1	
84 Ethylbenzene	106	8.398	8.398	0.000	98	597370	10.0	10.1	
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	97	730532	10.0	9.83	
86 o-Xylene	106	8.884	8.884	0.000	96	724983	10.0	10.1	
87 Styrene	104	8.896	8.896	0.000	93	1077386	10.0	9.36	
88 Bromoform	173	9.074	9.074	0.000	98	188652	10.0	9.74	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	1881979	10.0	9.91	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	369352	10.0	9.71	
93 Bromobenzene	156	9.536	9.537	-0.001	92	471631	10.0	10.1	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	81	120547	10.0	10.2	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	87	93806	10.0	10.1	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	528703	10.0	10.3	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	445630	10.0	10.1	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	94	1577241	10.0	10.1	
100 4-Chlorotoluene	126	9.821	9.821	0.000	98	453357	10.0	9.62	
102 tert-Butylbenzene	119	10.129	10.129	0.000	90	1370245	10.0	10.1	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	1584813	10.0	9.75	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	1951519	10.0	9.99	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	98	900867	10.0	9.82	
107 4-Isopropyltoluene	119	10.485	10.473	0.012	97	1684659	10.0	9.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	96	929953	10.0	9.90	
111 n-Butylbenzene	91	10.888	10.888	0.000	97	1409274	10.0	9.90	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	99	847602	10.0	9.77	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	90	65258	10.0	10.2	
115 1,2,4-Trichlorobenzene	180	12.501	12.501	0.000	94	524452	10.0	9.73	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	211777	10.0	9.48	
117 Naphthalene	128	12.750	12.750	0.000	96	1099915	10.0	9.44	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	96	462376	10.0	9.59	
S 133 Xylenes, Total	106				0		20.0	19.9	
S 134 Trihalomethanes, Total	1				0		40.0	39.7	

Reagents:

VMFASAW_00077	Amount Added:	8.00	Units: uL	
VMFASPW_00093	Amount Added:	8.00	Units: uL	
VMFASGW_00089	Amount Added:	8.00	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

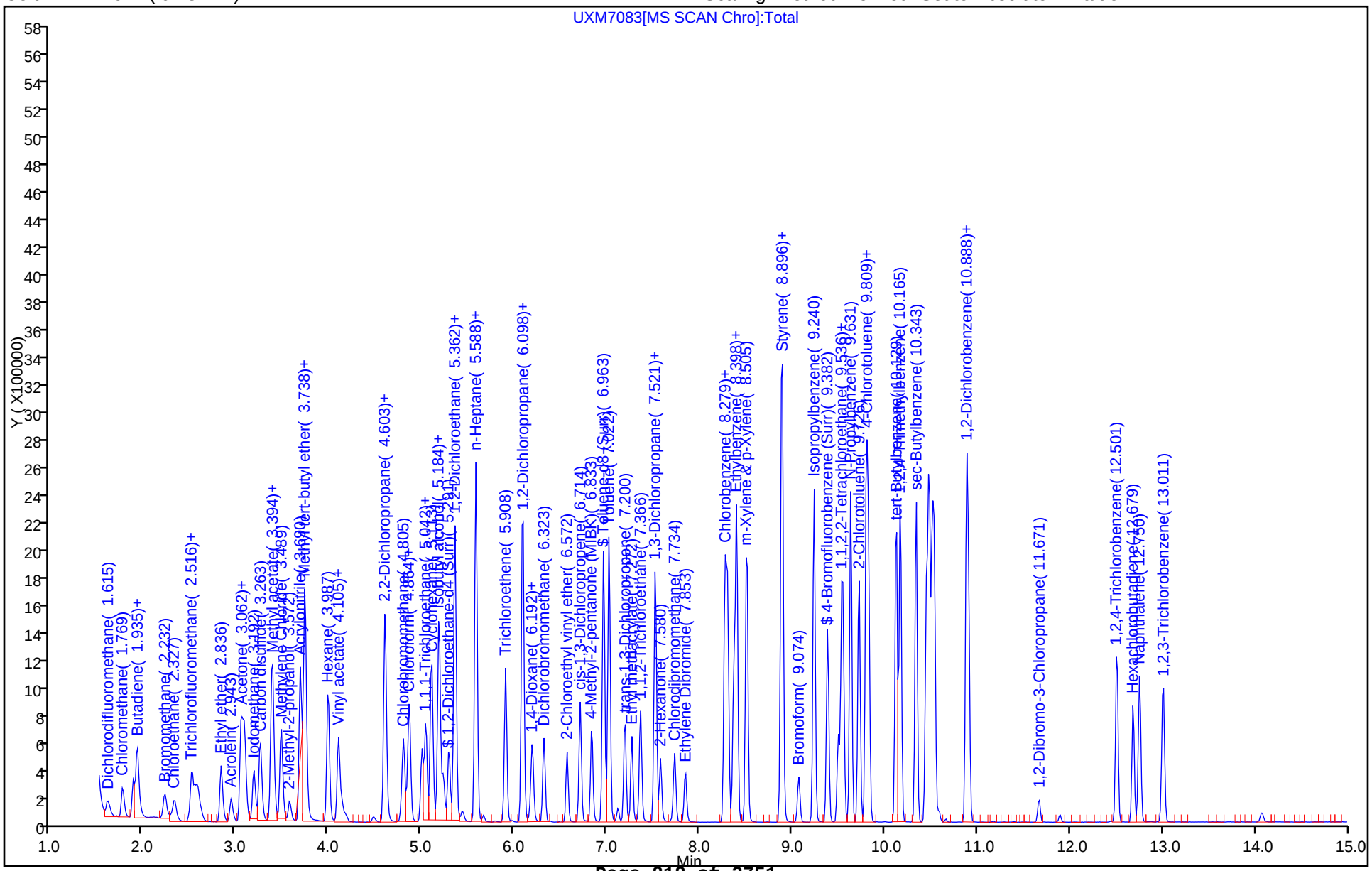
Report Date: 10-Apr-2015 07:30:14 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7083.D

Injection Date:	09-Apr-2015 11:20:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-176026/6

Matrix: Solid Lab File ID: UX86939.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/11/2015 01:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176026 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	49.2		5.0	1.0	0.56
79-34-5	1,1,2,2-Tetrachloroethane	50.8		5.0	1.0	0.34
79-00-5	1,1,2-Trichloroethane	50.3		5.0	1.0	0.39
75-34-3	1,1-Dichloroethane	49.0		5.0	1.0	0.36
75-35-4	1,1-Dichloroethene	49.8		5.0	1.0	0.52
107-06-2	1,2-Dichloroethane	44.4		5.0	1.0	0.34
540-59-0	1,2-Dichloroethene, Total	106		10	2.0	0.36
78-87-5	1,2-Dichloropropane	50.5		5.0	2.0	0.69
78-93-3	2-Butanone (MEK)	89.7		20	4.0	1.4
591-78-6	2-Hexanone	99.8		20	1.0	0.63
108-10-1	4-Methyl-2-pentanone (MIBK)	101		20	1.0	0.54
71-43-2	Benzene	50.4		5.0	0.50	0.23
75-25-2	Bromoform	47.2		5.0	1.0	0.33
74-83-9	Bromomethane	50.1		5.0	1.0	0.54
75-15-0	Carbon disulfide	54.7		5.0	1.0	0.44
56-23-5	Carbon tetrachloride	52.0		5.0	1.0	0.37
108-90-7	Chlorobenzene	49.9		5.0	1.0	0.33
75-27-4	Bromodichloromethane	53.2		5.0	0.50	0.28
74-87-3	Chloromethane	35.3		5.0	0.50	0.41
10061-01-5	cis-1,3-Dichloropropene	56.4		5.0	1.0	0.34
124-48-1	Dibromochloromethane	55.2		5.0	1.0	0.55
100-41-4	Ethylbenzene	51.8		5.0	0.50	0.26
1634-04-4	Methyl tert-butyl ether	49.1		5.0	1.0	0.43
75-09-2	Methylene Chloride	49.5		5.0	2.0	0.67
100-42-5	Styrene	53.1		5.0	0.50	0.15
127-18-4	Tetrachloroethene	49.9		5.0	1.0	0.52
108-88-3	Toluene	51.1		5.0	0.50	0.27
67-66-3	Chloroform	47.9		5.0	0.50	0.29
74-97-5	Bromochloromethane	51.7		5.0	2.0	0.71
106-93-4	1,2-Dibromoethane	52.6		5.0	1.0	0.50
10061-02-6	trans-1,3-Dichloropropene	55.2		5.0	1.0	0.54
79-01-6	Trichloroethene	52.6		5.0	1.0	0.42
75-01-4	Vinyl chloride	38.7		5.0	1.0	0.39
75-00-3	Chloroethane	46.4		5.0	1.0	0.86
1330-20-7	Xylenes, Total	108		10	2.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-176026/6

Matrix: Solid Lab File ID: UX86939.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/11/2015 01:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176026 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		61-130
2037-26-5	Toluene-d8 (Surr)	113		85-115
460-00-4	4-Bromofluorobenzene (Surr)	101		85-120
1868-53-7	Dibromofluoromethane (Surr)	107		59-138

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86939.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Apr-2015 01:58:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042461-006
Operator ID: 402279 Instrument ID: A3UX8

Method: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 01:56:28 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.157	5.160	-0.003	99	1206305	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.689	7.680	0.009	94	907420	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.878	9.881	-0.003	99	464364	50.0	50.0	
$ 4 Dibromofluoromethane (Surr	113	4.624	4.625	-0.001	95	260176	50.0	53.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.897	4.897	0.000	92	256886	50.0	46.2	
$ 6 Toluene-d8 (Surr)	98	6.423	6.424	-0.001	92	1113634	50.0	56.4	
$ 7 4-Bromofluorobenzene (Surr	95	8.766	8.755	0.011	97	358175	50.0	50.3	
9 Dichlorodifluoromethane	85	1.583	1.584	-0.001	100	111237	50.0	24.8	
10 Chloromethane	50	1.749	1.750	-0.001	100	188191	50.0	35.3	
11 Vinyl chloride	62	1.879	1.868	0.011	98	152858	50.0	38.7	
12 Butadiene	54	1.915	1.915	0.000	0	150573	NC	NC	
13 Bromomethane	94	2.187	2.187	0.000	90	109938	50.0	50.1	
14 Chloroethane	64	2.293	2.294	-0.001	99	97301	50.0	46.4	
15 Dichlorofluoromethane	67	2.459	2.460	-0.001	98	269979	50.0	48.3	
16 Trichlorofluoromethane	101	2.506	2.507	-0.001	98	265066	50.0	48.1	
17 Ethyl ether	59	2.743	2.744	-0.001	93	185039	50.0	47.2	
18 Acrolein	56	2.838	2.838	0.000	100	87437	125.0	162.7	
19 1,1-Dichloroethene	96	2.932	2.933	-0.001	96	233683	50.0	49.8	
20 1,1,2-Trichloro-1,2,2-trif	151	2.944	2.945	-0.001	91	191485	50.0	50.3	
21 Acetone	43	2.968	2.957	0.011	100	236269	100.0	83.8	
23 Iodomethane	142	3.063	3.063	-0.001	97	378897	50.0	51.0	
24 Carbon disulfide	76	3.122	3.122	0.000	99	628193	50.0	54.7	
26 3-Chloro-1-propene	76	3.216	3.217	-0.001	94	146717	50.0	55.4	
27 Methyl acetate	43	3.228	3.217	0.011	98	1345004	250.0	231.9	
28 Methylene Chloride	84	3.311	3.300	0.011	92	291632	50.0	49.5	
29 2-Methyl-2-propanol	59	3.382	3.383	-0.001	97	305480	500.0	454.4	
30 Acrylonitrile	53	3.488	3.489	-0.001	99	1208874	500.0	474.1	
31 trans-1,2-Dichloroethene	96	3.524	3.525	-0.001	66	296091	50.0	53.6	
32 Methyl tert-butyl ether	73	3.524	3.525	-0.001	95	780735	50.0	49.1	
33 Hexane	86	3.737	3.738	-0.001	91	81469	50.0	50.8	
34 1,1-Dichloroethane	63	3.843	3.844	-0.001	96	477172	50.0	49.0	
35 Vinyl acetate	43	3.867	3.868	-0.001	97	176068	50.0	33.7	
39 cis-1,2-Dichloroethene	96	4.281	4.270	0.011	79	319697	50.0	52.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.269	4.270	-0.001	93	340411	100.0	89.7	
41 2,2-Dichloropropane	77	4.281	4.282	-0.001	93	196091	50.0	45.6	
45 Chlorobromomethane	128	4.459	4.459	0.000	92	161920	50.0	51.7	
46 Tetrahydrofuran	42	4.494	4.495	-0.001	89	201027	100.0	95.3	
47 Chloroform	83	4.506	4.507	-0.001	93	452487	50.0	47.9	
48 1,1,1-Trichloroethane	97	4.672	4.672	0.000	98	347879	50.0	49.2	
49 Cyclohexane	56	4.719	4.720	-0.001	89	461802	50.0	51.9	
50 1,1-Dichloropropene	75	4.790	4.791	-0.001	98	360434	50.0	54.3	
51 Carbon tetrachloride	117	4.802	4.802	0.000	98	324075	50.0	52.0	
52 Isobutyl alcohol	41	4.826	4.826	0.000	95	297851	1250.0	1144.2	
54 Benzene	78	4.956	4.956	0.000	95	1165097	50.0	50.4	
53 1,2-Dichloroethane	62	4.956	4.956	0.000	56	333474	50.0	44.4	
56 n-Heptane	100	5.145	5.134	0.011	92	91751	50.0	52.9	
58 Trichloroethene	130	5.441	5.441	0.000	97	323694	50.0	52.6	
60 Methylcyclohexane	83	5.618	5.607	0.011	89	494431	50.0	53.0	
61 1,2-Dichloropropane	63	5.618	5.619	-0.001	94	289363	50.0	50.5	
64 1,4-Dioxane	88	5.713	5.714	-0.001	46	68581	1000.0	1106.7	
63 Dibromomethane	93	5.713	5.714	-0.001	92	162406	50.0	51.3	
65 Dichlorobromomethane	83	5.831	5.832	-0.001	100	327384	50.0	53.2	
67 2-Chloroethyl vinyl ether	63	6.056	6.057	-0.001	92	144860	60.0	99.7	
68 cis-1,3-Dichloropropene	75	6.186	6.187	-0.001	96	413208	50.0	56.4	
69 4-Methyl-2-pentanone (MIBK	43	6.305	6.305	0.000	96	645342	100.0	101.0	
70 Toluene	91	6.482	6.483	-0.001	99	1275001	50.0	51.1	
71 trans-1,3-Dichloropropene	75	6.648	6.648	0.000	91	358440	50.0	55.2	
72 Ethyl methacrylate	69	6.707	6.708	-0.001	90	360586	50.0	57.4	
73 1,1,2-Trichloroethane	97	6.813	6.802	0.011	88	262504	50.0	50.3	
74 1,3-Dichloropropane	76	6.955	6.956	-0.001	92	439388	50.0	51.2	
75 Tetrachloroethene	164	6.967	6.968	-0.001	93	252675	50.0	49.9	
76 2-Hexanone	43	7.003	7.003	0.000	97	477153	100.0	99.8	
78 Chlorodibromomethane	129	7.157	7.157	0.000	90	265082	50.0	55.2	
80 Ethylene Dibromide	107	7.275	7.276	-0.001	98	257085	50.0	52.6	
82 Chlorobenzene	112	7.713	7.713	0.000	97	842291	50.0	49.9	
83 1,1,1,2-Tetrachloroethane	131	7.772	7.773	-0.001	95	271074	50.0	53.1	
84 Ethylbenzene	106	7.807	7.796	0.011	97	454768	50.0	51.8	
85 m-Xylene & p-Xylene	106	7.902	7.903	-0.001	99	558952	50.0	53.9	
86 o-Xylene	106	8.269	8.269	0.000	93	538145	50.0	54.4	
87 Styrene	104	8.281	8.281	0.000	91	798038	50.0	53.1	
88 Bromoform	173	8.458	8.459	-0.001	99	166383	50.0	47.2	
89 Isopropylbenzene	105	8.612	8.613	-0.001	95	1359754	50.0	54.5	
92 1,1,2,2-Tetrachloroethane	83	8.872	8.873	-0.001	94	317751	50.0	50.8	
93 Bromobenzene	156	8.920	8.920	0.000	91	352539	50.0	50.5	
94 1,2,3-Trichloropropane	110	8.932	8.932	0.000	82	110186	50.0	50.5	
95 trans-1,4-Dichloro-2-buten	53	8.932	8.932	0.000	71	93138	50.0	52.0	
96 N-Propylbenzene	120	9.003	9.003	0.000	98	400316	50.0	58.0	
97 2-Chlorotoluene	126	9.097	9.098	-0.001	98	323316	50.0	53.7	
98 1,3,5-Trimethylbenzene	105	9.168	9.169	-0.001	94	1110529	50.0	54.7	
99 4-Chlorotoluene	126	9.192	9.192	0.000	97	345116	50.0	54.2	
100 tert-Butylbenzene	119	9.488	9.488	0.000	90	1016385	50.0	56.0	
102 1,2,4-Trimethylbenzene	105	9.535	9.536	-0.001	94	1124597	50.0	53.0	
103 sec-Butylbenzene	105	9.701	9.701	0.000	93	1465238	50.0	56.1	
104 1,3-Dichlorobenzene	146	9.819	9.820	-0.001	98	628329	50.0	48.5	
105 4-Isopropyltoluene	119	9.843	9.843	0.000	97	1214182	50.0	52.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,4-Dichlorobenzene	146	9.902	9.902	0.000	96	650215	50.0	47.7	
109 n-Butylbenzene	91	10.245	10.246	-0.001	97	1021085	50.0	53.6	
110 1,2-Dichlorobenzene	146	10.269	10.269	0.000	99	610300	50.0	48.7	
111 1,2-Dibromo-3-Chloropropan	157	11.026	11.027	-0.001	90	58944	50.0	51.3	
113 1,2,4-Trichlorobenzene	180	11.866	11.855	0.011	94	370463	50.0	45.8	
114 Hexachlorobutadiene	225	12.032	12.032	0.000	95	211485	50.0	45.2	
115 Naphthalene	128	12.103	12.103	0.000	96	947213	50.0	48.2	
116 1,2,3-Trichlorobenzene	180	12.363	12.364	-0.001	96	363912	50.0	43.7	
S 128 Xylenes, Total	106				0		100.0	108.3	
S 129 Trihalomethanes, Total	1				0		200.0	203.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMFASAW_00077	Amount Added:	2.50	Units: uL	
VMFASGW_00089	Amount Added:	5.00	Units: uL	
VMFASPW_00093	Amount Added:	5.00	Units: uL	
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VMUX8SS_00018	Amount Added:	1.15	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent

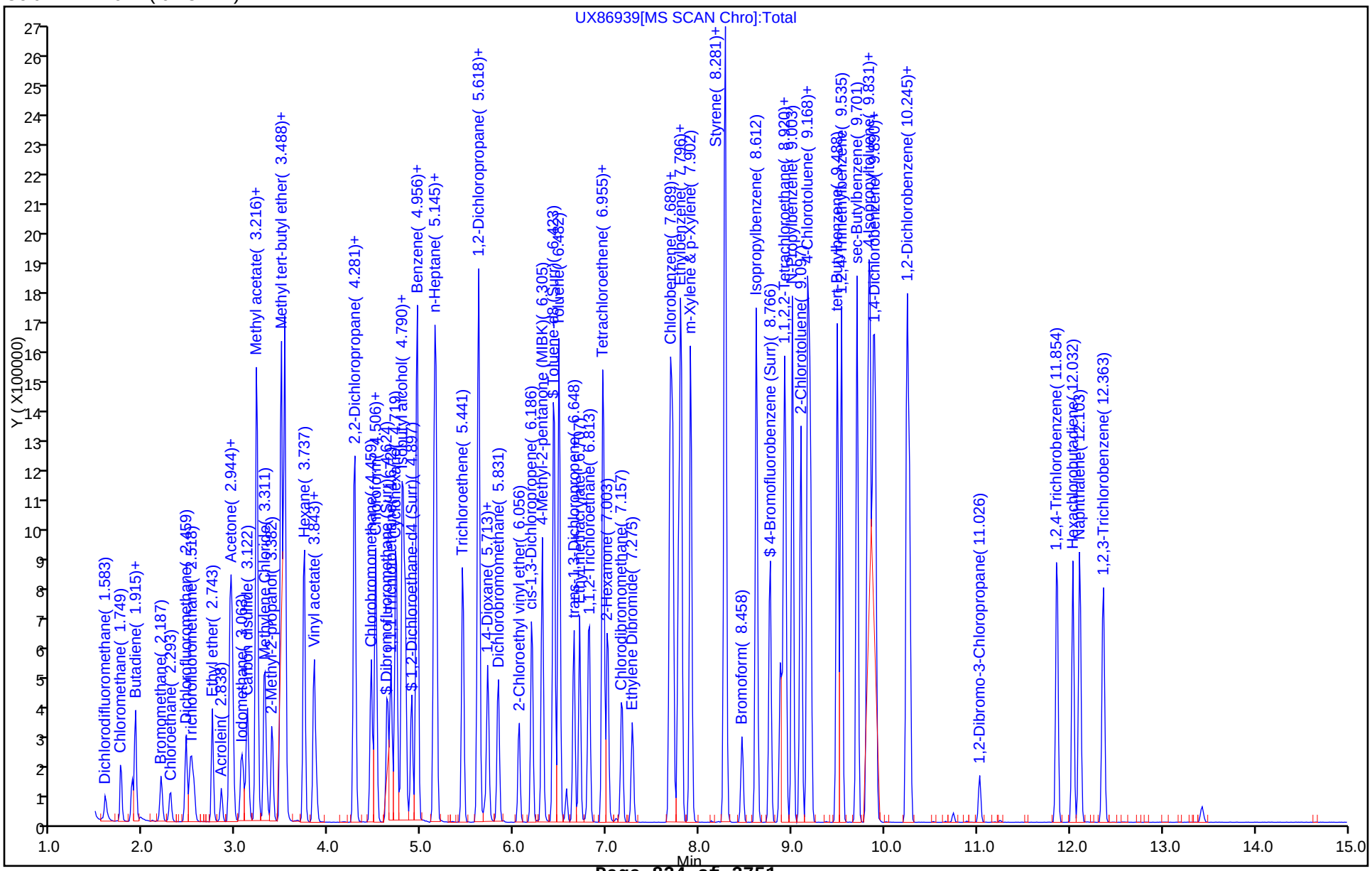
Report Date: 14-Apr-2015 01:56:29 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86939.D

Injection Date:	11-Apr-2015 01:58:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-176387/5

Matrix: Solid | Lab File ID: 142400.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/14/2015 13:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 176387 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	58.3		5.0	1.0	0.56
79-34-5	1,1,2,2-Tetrachloroethane	50.6		5.0	1.0	0.34
79-00-5	1,1,2-Trichloroethane	51.9		5.0	1.0	0.39
75-34-3	1,1-Dichloroethane	55.1		5.0	1.0	0.36
75-35-4	1,1-Dichloroethene	57.2		5.0	1.0	0.52
107-06-2	1,2-Dichloroethane	54.0		5.0	1.0	0.34
540-59-0	1,2-Dichloroethene, Total	109		10	2.0	0.36
78-87-5	1,2-Dichloropropane	53.6		5.0	2.0	0.69
78-93-3	2-Butanone (MEK)	95.2		20	4.0	1.4
591-78-6	2-Hexanone	96.5		20	1.0	0.63
108-10-1	4-Methyl-2-pentanone (MIBK)	106		20	1.0	0.54
67-64-1	Acetone	107		20	15	6.3
71-43-2	Benzene	52.6		5.0	0.50	0.23
75-25-2	Bromoform	44.9		5.0	1.0	0.33
74-83-9	Bromomethane	52.2		5.0	1.0	0.54
75-15-0	Carbon disulfide	58.9		5.0	1.0	0.44
56-23-5	Carbon tetrachloride	59.3		5.0	1.0	0.37
108-90-7	Chlorobenzene	51.4		5.0	1.0	0.33
75-27-4	Bromodichloromethane	54.2		5.0	0.50	0.28
74-87-3	Chloromethane	56.9		5.0	0.50	0.41
10061-01-5	cis-1,3-Dichloropropene	56.7		5.0	1.0	0.34
124-48-1	Dibromochloromethane	56.1		5.0	1.0	0.55
100-41-4	Ethylbenzene	52.1		5.0	0.50	0.26
1634-04-4	Methyl tert-butyl ether	53.6		5.0	1.0	0.43
75-09-2	Methylene Chloride	58.5		5.0	2.0	0.67
100-42-5	Styrene	55.7		5.0	0.50	0.15
127-18-4	Tetrachloroethene	52.8		5.0	1.0	0.52
108-88-3	Toluene	51.0		5.0	0.50	0.27
67-66-3	Chloroform	54.4		5.0	0.50	0.29
74-97-5	Bromochloromethane	52.0		5.0	2.0	0.71
106-93-4	1,2-Dibromoethane	50.1		5.0	1.0	0.50
10061-02-6	trans-1,3-Dichloropropene	60.5		5.0	1.0	0.54
79-01-6	Trichloroethene	52.7		5.0	1.0	0.42
75-01-4	Vinyl chloride	55.0		5.0	1.0	0.39
75-00-3	Chloroethane	56.6		5.0	1.0	0.86
1330-20-7	Xylenes, Total	107		10	2.0	0.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-176387/5

Matrix: Solid Lab File ID: 142400.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/14/2015 13:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176387 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		61-130
2037-26-5	Toluene-d8 (Surr)	102		85-115
460-00-4	4-Bromofluorobenzene (Surr)	101		85-120
1868-53-7	Dibromofluoromethane (Surr)	96		59-138

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142400.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Apr-2015 13:41:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 240-0042552-005240-0042552-005
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:47 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 14:09:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.652	6.652	0.000	98	1290613	50.0	50.0	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	786094	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	97	399245	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.990	0.000	91	323961	50.0	48.1	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	95	398225	50.0	49.4	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	94	1193145	50.0	50.8	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	84	403171	50.0	50.6	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	99	535055	50.0	66.4	
12 Chloromethane	50	1.481	1.481	0.000	99	474775	50.0	56.9	
13 Vinyl chloride	62	1.600	1.600	0.000	98	457561	50.0	55.0	
14 Butadiene	54	1.623	1.623	0.000	93	444420	50.0	56.4	
15 Bromomethane	94	1.907	1.907	0.000	89	336633	50.0	52.2	
17 Chloroethane	64	2.002	2.002	0.000	99	235991	50.0	56.6	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	97	701065	50.0	55.0	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	98	663693	50.0	55.9	
20 Ethyl ether	59	2.641	2.641	0.000	93	289620	50.0	57.4	
21 Acrolein	56	2.807	2.818	-0.011	98	134392	250.0	235.3	
23 1,1-Dichloroethene	96	2.890	2.889	0.001	93	339236	50.0	57.2	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	95	255924	50.0	55.5	
26 Acetone	43	3.032	3.031	0.001	99	165716	100.0	107.2	
27 Iodomethane	142	3.091	3.079	0.012	98	485592	50.0	61.9	
28 Carbon disulfide	76	3.150	3.150	0.000	100	970380	50.0	58.9	
29 3-Chloro-1-propene	76	3.398	3.386	0.012	90	198297	50.0	53.7	
31 Methyl acetate	43	3.481	3.469	0.012	99	1061718	250.0	248.0	
32 Methylene Chloride	84	3.599	3.588	0.011	97	381054	50.0	58.5	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	98	290471	500.0	444.6	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	94	384378	50.0	55.7	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	95	1049775	50.0	53.6	
36 Acrylonitrile	53	4.037	4.037	0.000	98	945697	500.0	508.7	
37 Hexane	86	4.404	4.404	0.000	95	102441	50.0	57.4	
38 1,1-Dichloroethane	63	4.653	4.641	0.012	97	779409	50.0	55.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Vinyl acetate	86	4.771	4.783	-0.012	97	27949	50.0	61.7	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	89	343198	50.0	58.2	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	84	393981	50.0	53.0	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	99	215341	100.0	95.2	
48 Chlorobromomethane	128	5.694	5.694	0.000	97	160474	50.0	52.0	
50 Tetrahydrofuran	42	5.741	5.741	0.000	91	159051	100.0	100.3	
51 Chloroform	83	5.800	5.800	0.000	94	724023	50.0	54.4	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	98	620039	50.0	58.3	
53 Cyclohexane	56	5.990	5.990	0.000	95	752783	50.0	57.5	
54 Carbon tetrachloride	117	6.132	6.120	0.012	97	582819	50.0	59.3	
55 1,1-Dichloropropene	75	6.144	6.143	0.001	97	584343	50.0	58.0	
56 Benzene	78	6.357	6.356	0.001	97	1494857	50.0	52.6	
57 Isobutyl alcohol	41	6.392	6.392	0.000	95	208462	1250.0	1104.9	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	98	498644	50.0	54.0	
60 n-Heptane	100	6.641	6.640	0.001	95	95978	50.0	59.5	
61 Trichloroethene	130	7.007	7.007	0.000	97	365742	50.0	52.7	
64 Methylcyclohexane	83	7.161	7.161	0.000	93	733588	50.0	56.1	
65 1,2-Dichloropropane	63	7.232	7.232	0.000	93	346569	50.0	53.6	
67 Dibromomethane	93	7.351	7.350	0.001	94	171166	50.0	51.1	
69 1,4-Dioxane	88	7.386	7.386	0.000	94	43339	1000.0	887.1	
70 Dichlorobromomethane	83	7.504	7.504	0.000	99	449532	50.0	54.2	
72 2-Chloroethyl vinyl ether	63	7.788	7.800	-0.012	93	160859	60.0	62.9	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.000	95	502452	50.0	56.7	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	98	497339	100.0	106.3	
76 Toluene	91	8.191	8.191	0.000	97	1395210	50.0	51.0	
77 trans-1,3-Dichloropropene	75	8.415	8.404	0.011	94	411625	50.0	60.5	
78 Ethyl methacrylate	69	8.486	8.486	0.000	91	273538	50.0	62.3	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	93	213559	50.0	51.9	
80 Tetrachloroethene	164	8.664	8.664	0.000	91	260351	50.0	52.8	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	93	387897	50.0	51.0	
82 2-Hexanone	43	8.782	8.782	0.000	98	267357	100.0	96.5	
84 Chlorodibromomethane	129	8.901	8.901	0.001	90	249117	50.0	56.1	
85 Ethylene Dibromide	107	8.995	8.995	0.000	98	202504	50.0	50.1	
87 Chlorobenzene	112	9.409	9.409	0.000	92	801403	50.0	51.4	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	93	332117	50.0	54.8	
89 Ethylbenzene	106	9.492	9.504	-0.012	99	466976	50.0	52.1	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	99	561371	50.0	54.0	
91 o-Xylene	106	9.930	9.930	0.000	99	588322	50.0	52.8	
92 Styrene	104	9.954	9.954	0.000	94	803753	50.0	55.7	
93 Bromoform	173	10.119	10.119	0.000	95	121105	50.0	44.9	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	1739538	50.0	54.8	
97 Bromobenzene	156	10.510	10.510	0.000	97	304068	50.0	50.8	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.522	-0.012	93	269041	50.0	50.6	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	87	84073	50.0	51.4	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	81	87017	50.0	60.5	
100 N-Propylbenzene	120	10.593	10.593	0.000	99	421293	50.0	55.2	
101 2-Chlorotoluene	126	10.664	10.664	0.000	95	361380	50.0	55.9	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	92	1433344	50.0	55.5	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	331133	50.0	53.4	
105 tert-Butylbenzene	119	11.007	11.007	0.000	92	1343664	50.0	57.6	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	95	1409929	50.0	55.4	
109 sec-Butylbenzene	105	11.196	11.196	0.000	95	1912233	50.0	56.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	96	632547	50.0	51.2	
111 4-Isopropyltoluene	119	11.315	11.314	0.001	97	1548601	50.0	55.8	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	92	611064	50.0	49.4	
115 n-Butylbenzene	91	11.658	11.658	0.000	98	1470350	50.0	55.3	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	96	605759	50.0	51.0	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	78	45519	50.0	50.5	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	93	438358	50.0	48.1	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	97	279361	50.0	50.1	
121 Naphthalene	128	13.231	13.231	0.000	98	897737	50.0	49.1	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	95	378698	50.0	45.8	
S 136 Xylenes, Total	106				0		100.0	106.8	
S 137 Trihalomethanes, Total	1				0		200.0	209.6	

Reagents:

VMFASAW_00077	Amount Added:	5.00	Units: uL	
VMFASGW_00090	Amount Added:	5.00	Units: uL	
VMFASPW_00094	Amount Added:	5.00	Units: uL	
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VM250SS_00030	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 15-Apr-2015 13:28:49 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142400.D

Injection Date: 14-Apr-2015 13:41:30 Instrument ID: A3UX14 Operator ID: 002808

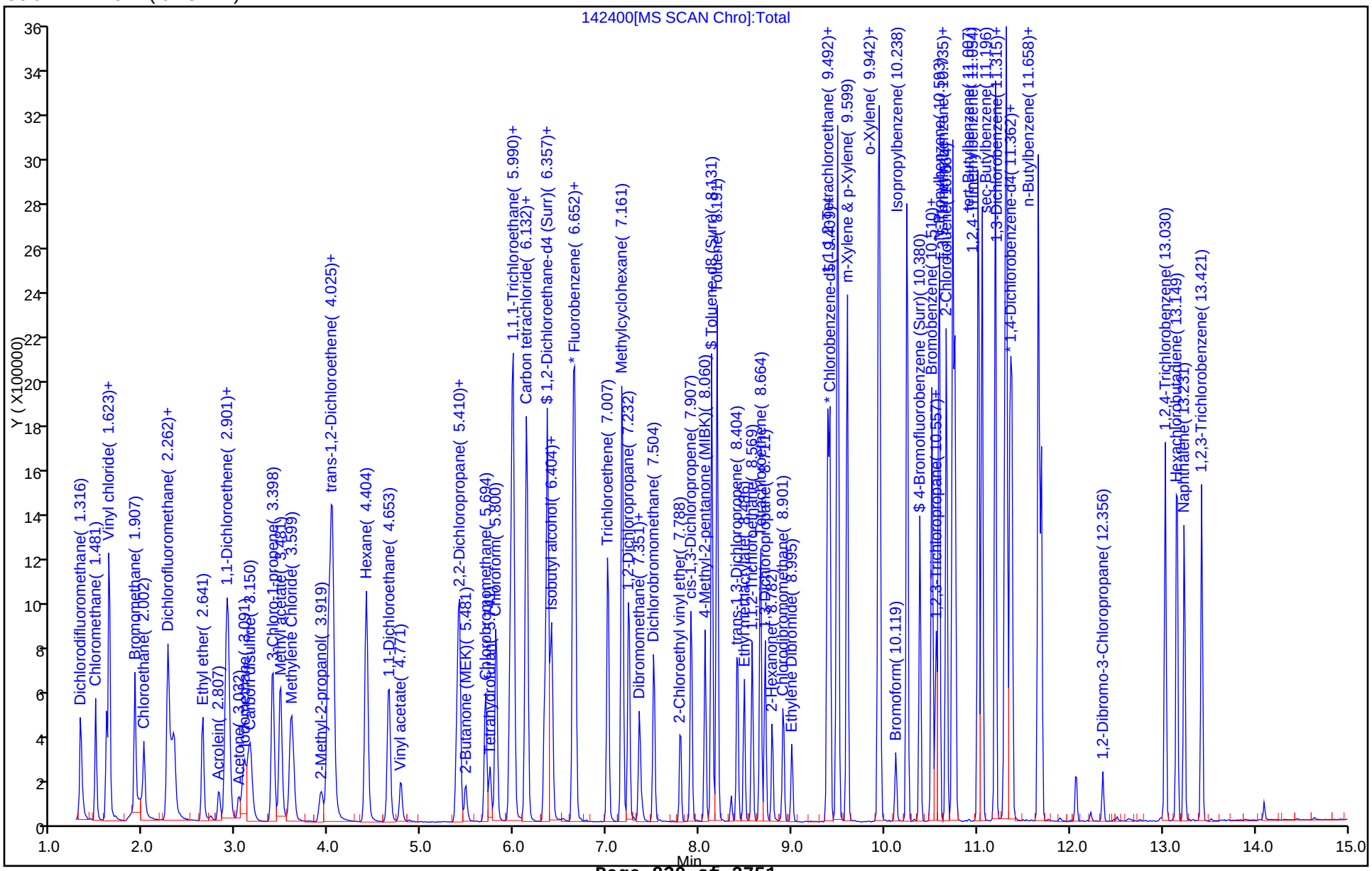
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260_14 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-175731/5

Matrix: Water | Lab File ID: UXM7084.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/09/2015 11:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 175731 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00105		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.000994	J	0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.000994	J	0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.00110		0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.00104		0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.00110		0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.00216		0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.00105		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.00874	J	0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.00878	J	0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00931	J	0.010	0.00050	0.0036
67-64-1	Acetone	0.00914	J	0.010	0.0010	0.0034
71-43-2	Benzene	0.00104		0.0010	0.00025	0.00024
75-25-2	Bromoform	0.000955	J	0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00157	^	0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.00103		0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.00108		0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.00103		0.0010	0.00025	0.00019
75-27-4	Bromodichloromethane	0.000974	J	0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00156	^	0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.000989	J	0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.000885	J	0.0010	0.00025	0.00043
100-41-4	Ethylbenzene	0.00102		0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.00101		0.0010	0.00025	0.00016
75-09-2	Methylene Chloride	0.000838	J	0.0010	0.00050	0.00028
100-42-5	Styrene	0.000965	J	0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00107		0.0010	0.00050	0.00020
108-88-3	Toluene	0.00100		0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00101		0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.00101		0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.00103		0.0010	0.00025	0.00019
10061-02-6	trans-1,3-Dichloropropene	0.000936	J	0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.00104		0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00149	^	0.0010	0.00025	0.00029
75-00-3	Chloroethane	0.00152	^	0.0010	0.00050	0.00033
1330-20-7	Xylenes, Total	0.00199	J	0.0020	0.00025	0.00043

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-175731/5

Matrix: Water Lab File ID: UXM7084.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/09/2015 11:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 175731 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		50-150
2037-26-5	Toluene-d8 (Surr)	95		50-150
460-00-4	4-Bromofluorobenzene (Surr)	99		50-150
1868-53-7	Dibromofluoromethane (Surr)	94		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7084.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 09-Apr-2015 11:43:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-005
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:13 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quayler Date: 09-Apr-2015 12:04:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.587	5.587	0.000	99	1537072	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.279	8.279	0.000	84	1108443	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	93	600788	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.006	5.007	-0.001	95	327952	11.4	10.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	369083	11.4	10.9	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	93	1438726	11.4	10.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	92	538350	11.4	11.3	
$ 8 BFB	95	3.738	3.775	-0.037	0	2142		NR	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	46033	1.00	1.63	
10 Chloromethane	50	1.769	1.769	0.000	99	60738	1.00	1.56	
11 Vinyl chloride	62	1.888	1.888	0.000	97	63725	1.00	1.49	
12 Butadiene	54	1.923	1.923	0.000	0	58084	1.00	1.51	
13 Bromomethane	94	2.220	2.220	0.000	91	32473	1.00	1.57	
14 Chloroethane	64	2.326	2.327	-0.001	97	38272	1.00	1.52	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	96	84342	1.00	1.50	
16 Trichlorofluoromethane	101	2.575	2.576	-0.001	99	59789	1.00	1.60	
17 Ethyl ether	59	2.836	2.836	0.000	86	29396	1.00	1.06	
18 Acrolein	56	2.943	2.943	0.000	98	17479	5.00	4.88	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	32349	1.00	1.04	
20 1,1,2-Trichloro-1,2,2-trif	151	3.085	3.086	-0.001	61	27127	1.00	1.12	
21 Acetone	43	3.085	3.086	-0.001	100	84932	10.0	9.14	
22 Methylal	45		3.109					ND	
23 Iodomethane	142	3.192	3.192	0.000	96	49547	1.00	1.01	
24 Carbon disulfide	76	3.263	3.252	0.011	98	98557	1.00	1.03	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	92	23317	1.00	1.10	
27 Methyl acetate	43	3.394	3.394	0.000	97	104684	5.00	5.11	
28 Methylene Chloride	84	3.489	3.489	-0.001	90	48265	1.00	0.8385	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	99	20660	10.0	10.5	
30 Acrylonitrile	53	3.690	3.690	0.000	100	110041	10.0	10.4	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	92315	1.00	1.01	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	92	39488	1.00	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.998	3.987	0.011	84	9622	1.00	1.07	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	66830	1.00	1.10	
35 Vinyl acetate	43	4.141	4.141	0.000	96	22435	0.9600	0.8716	
36 Isopropyl ether	87		4.164					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	100	100914	10.0	8.74	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	74	43830	1.00	1.10	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	88	39618	1.00	1.01	
42 Propionitrile	54		4.639					ND	
43 Ethyl acetate	43		4.662					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128	4.805	4.805	0.000	91	18785	1.00	1.01	
46 Tetrahydrofuran	42	4.852	4.852	0.000	60	14420	2.00	1.96	
47 Chloroform	83	4.864	4.864	0.000	91	60080	1.00	1.01	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	96	47823	1.00	1.05	
49 Cyclohexane	56	5.101	5.101	0.000	88	58704	1.00	1.04	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	98	45656	1.00	0.99	
51 Carbon tetrachloride	117	5.196	5.196	0.000	95	40417	1.00	1.08	
52 Isobutyl alcohol	41	5.232	5.232	0.000	88	17317	25.0	25.4	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	55	45599	1.00	1.10	
54 Benzene	78	5.362	5.362	0.000	94	160011	1.00	1.04	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57	5.587	5.576	0.011	76	67966	1.00	1.33	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130	5.908	5.908	0.000	96	40810	1.00	1.04	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83	6.097	6.086	0.011	88	60499	1.00	1.02	
61 1,2-Dichloropropane	63	6.097	6.098	-0.001	77	36667	1.00	1.05	
62 Methyl methacrylate	41	6.180	6.168	0.012	24	3200		0.1524	
63 Dibromomethane	93	6.192	6.192	0.000	94	20241	1.00	1.09	
64 1,4-Dioxane	88	6.204	6.204	0.000	36	5331	20.0	20.9	
65 Dichlorobromomethane	83	6.323	6.323	0.000	98	41685	1.00	0.9739	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	90	36604	2.00	2.00	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	96	49860	1.00	0.9891	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	94	212501	10.0	9.31	
70 Toluene	91	7.022	7.023	-0.001	98	164435	1.00	1.00	
71 trans-1,3-Dichloropropene	75	7.200	7.189	0.011	91	38995	1.00	0.9356	
72 Ethyl methacrylate	69	7.271	7.272	-0.001	88	32730	1.00	0.9715	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	89	29282	1.00	0.99	
75 Tetrachloroethene	164	7.532	7.521	0.011	91	33352	1.00	1.07	
74 1,3-Dichloropropane	76	7.520	7.521	-0.001	88	54861	1.00	1.05	
76 2-Hexanone	43	7.580	7.580	0.000	93	140867	10.0	8.78	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129	7.734	7.734	0.000	92	26681	1.00	0.8851	
80 Ethylene Dibromide	107	7.852	7.841	0.011	98	28888	1.00	1.03	
81 1-Chlorohexane	91		8.267					ND	
82 Chlorobenzene	112	8.303	8.303	0.000	96	108666	1.00	1.03	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	93	31300	1.00	0.9347	
84 Ethylbenzene	106	8.398	8.398	0.000	98	57545	1.00	1.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.517	8.505	0.012	96	70879	1.00	1.01	
86 o-Xylene	106	8.884	8.884	0.000	94	66830	1.00	0.9818	
87 Styrene	104	8.896	8.896	0.000	94	105239	1.00	0.9645	
88 Bromoform	173	9.074	9.074	0.000	95	17549	1.00	0.9554	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	178900	1.00	0.99	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	94	35054	1.00	0.99	
93 Bromobenzene	156	9.536	9.537	-0.001	93	46266	1.00	1.07	
95 1,2,3-Trichloropropane	110	9.548	9.548	0.000	83	11906	1.00	1.09	
94 trans-1,4-Dichloro-2-buten	53	9.548	9.560	-0.012	70	8556	1.00	0.99	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	50004	1.00	1.05	
97 2-Chlorotoluene	126	9.726	9.726	0.000	97	43608	1.00	1.06	
98 3-Ethyltoluene	105	9.797	9.733	0.064	94	147849		NC	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	95	147849	1.00	1.03	
100 4-Chlorotoluene	126	9.833	9.821	0.012	97	47690	1.00	1.09	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119	10.129	10.129	0.000	89	132693	1.00	1.06	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	96	151310	1.00	1.00	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	187194	1.00	1.03	
106 1,3-Dichlorobenzene	146	10.449	10.450	-0.001	94	95903	1.00	1.13	
107 4-Isopropyltoluene	119	10.473	10.473	0.000	97	160106	1.00	1.01	
108 1,4-Dichlorobenzene	146	10.532	10.533	-0.001	96	96901	1.00	1.11	
109 1,2,3-Trimethylbenzene	105		10.592					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91	10.888	10.888	0.000	96	134448	1.00	1.02	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	98	87525	1.00	1.09	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	90	5727	1.00	0.9698	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	91	56051	1.00	1.12	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	93	23040	1.00	1.11	
117 Naphthalene	128	12.750	12.750	0.000	96	110314	1.00	1.02	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	94	51086	1.00	1.14	
119 2-Methylnaphthalene	142	14.078	14.066	0.012	83	7472		0.1329	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
129 Isobutylene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96				0		2.00	2.16	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.92	
S 133 Xylenes, Total	106				0		2.00	1.99	
S 134 Trihalomethanes, Total	1				0		4.00	3.82	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	0.80	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.80	Units: uL	
VMRGAS_00097	Amount Added:	0.80	Units: uL	
VMKETONE_00012	Amount Added:	3.20	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

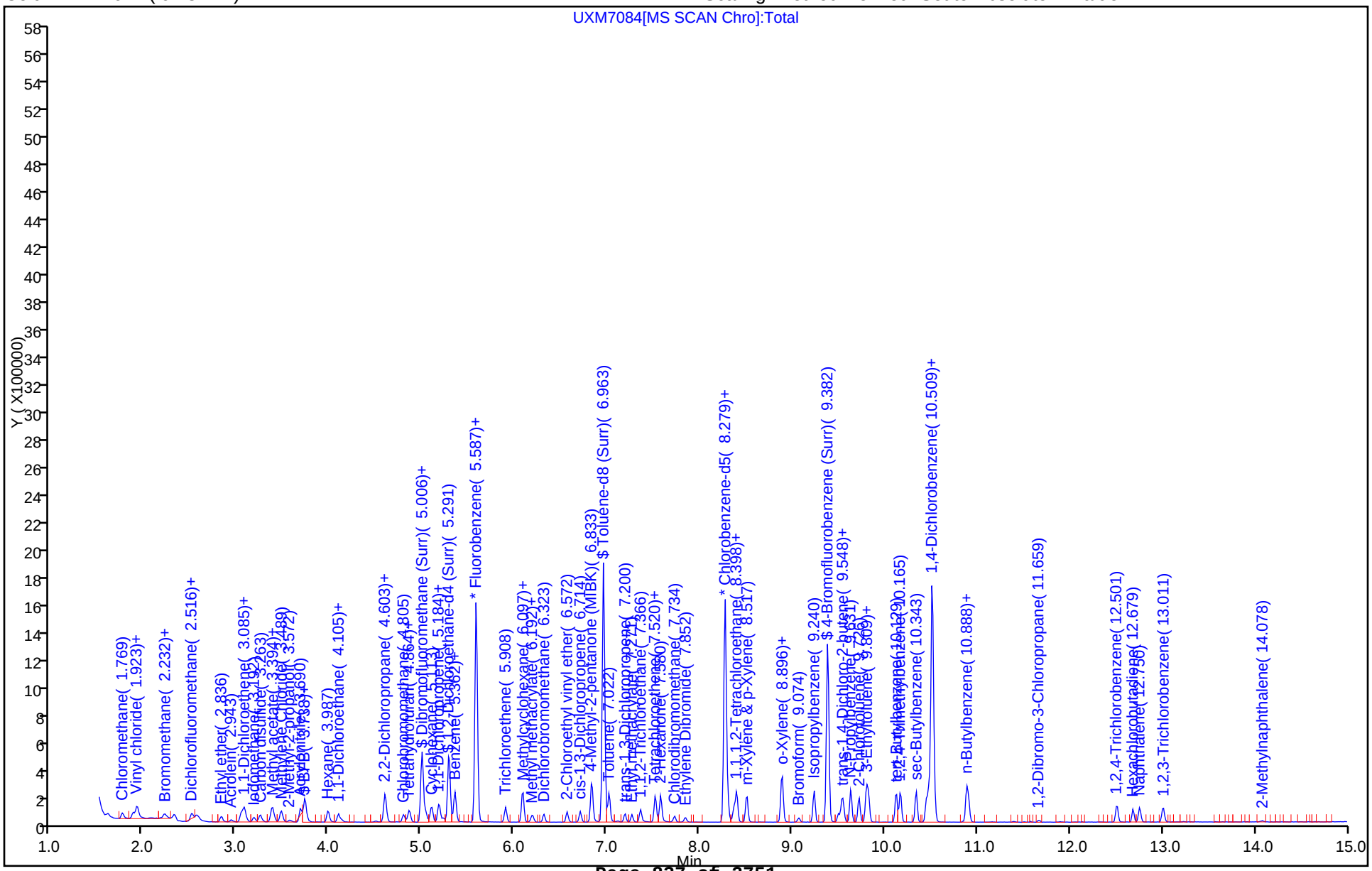
Report Date: 10-Apr-2015 07:30:16 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7084.D

Injection Date:	09-Apr-2015 11:43:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	MRL			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-175731/15

Matrix: Water | Lab File ID: UXM7094.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/09/2015 15:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 175731 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.000744	J	0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.000753	J	0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.000744	J	0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.000783	J	0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.000789	J	0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.000765	J	0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.00158	J	0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.000802	J	0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.00776	J	0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.00812	J	0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00860	J	0.010	0.00050	0.0036
67-64-1	Acetone	0.00793	J	0.010	0.0010	0.0034
71-43-2	Benzene	0.000821	J	0.0010	0.00025	0.00024
75-25-2	Bromoform	0.000604	J ^	0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.000895	J	0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.000710	J	0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.000754	J	0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.000781	J	0.0010	0.00025	0.00019
75-27-4	Bromodichloromethane	0.000754	J	0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.000884	J	0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.000683	J ^	0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.000689	J ^	0.0010	0.00025	0.00043
100-41-4	Ethylbenzene	0.000758	J	0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.000789	J	0.0010	0.00025	0.00016
75-09-2	Methylene Chloride	0.000685	J ^	0.0010	0.00050	0.00028
100-42-5	Styrene	0.000702	J	0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.000746	J	0.0010	0.00050	0.00020
108-88-3	Toluene	0.000797	J	0.0010	0.00025	0.00022
67-66-3	Chloroform	0.000830	J	0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.000739	J	0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.000750	J	0.0010	0.00025	0.00019
10061-02-6	trans-1,3-Dichloropropene	0.000682	J ^	0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.000777	J	0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.000866	J	0.0010	0.00025	0.00029
75-00-3	Chloroethane	0.000955	J	0.0010	0.00050	0.00033
1330-20-7	Xylenes, Total	0.00152	J	0.0020	0.00025	0.00043

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-175731/15

Matrix: Water Lab File ID: UXM7094.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/09/2015 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 175731 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		50-150
2037-26-5	Toluene-d8 (Surr)	96		50-150
460-00-4	4-Bromofluorobenzene (Surr)	97		50-150
1868-53-7	Dibromofluoromethane (Surr)	91		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7094.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 09-Apr-2015 15:31:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042394-015
Operator ID: 1904 Instrument ID: A3UX16

Method: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\8260_16.m
Limit Group: MSV 8260DOD ICAL
Last Update: 10-Apr-2015 07:30:13 Calib Date: 08-Apr-2015 17:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX16\20150408-42365.b\UXM7078.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quayler Date: 10-Apr-2015 07:20:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.588	5.587	0.001	99	1550965	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.280	8.279	0.001	84	1110054	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.509	10.509	0.000	94	591008	10.0	10.0	
$ 4 Dibromofluoromethane (Surr	113	5.007	5.007	0.000	94	321640	11.4	10.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.291	5.291	0.000	0	359170	11.4	10.5	
$ 6 Toluene-d8 (Surr)	98	6.963	6.963	0.000	92	1451268	11.4	11.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.382	9.382	0.000	93	528016	11.4	11.1	
$ 8 BFB	95		3.775					ND	
9 Dichlorodifluoromethane	85	1.615	1.615	0.000	97	25185	1.00	0.8812	
10 Chloromethane	50	1.769	1.769	0.000	97	34785	1.00	0.8842	
11 Vinyl chloride	62	1.888	1.888	0.000	97	37407	1.00	0.8657	
12 Butadiene	54	1.935	1.923	0.012	0	34011	1.00	0.8742	
13 Bromomethane	94	2.232	2.220	0.012	88	18640	1.00	0.8947	
14 Chloroethane	64	2.338	2.327	0.011	96	24213	1.00	0.9552	
15 Dichlorofluoromethane	67	2.516	2.516	0.000	95	47382	1.00	0.8354	
16 Trichlorofluoromethane	101	2.576	2.576	0.000	96	35515	1.00	0.9430	
17 Ethyl ether	59	2.836	2.836	0.000	88	23427	1.00	0.8378	
18 Acrolein	56	2.943	2.943	0.000	98	16620	5.00	4.60	
19 1,1-Dichloroethene	96	3.050	3.050	0.000	97	24745	1.00	0.7887	
20 1,1,2-Trichloro-1,2,2-trif	151	3.086	3.086	0.000	57	19199	1.00	0.7875	
21 Acetone	43	3.086	3.086	0.000	100	74357	10.0	7.93	
22 Methylal	45		3.109					ND	
23 Iodomethane	142	3.192	3.192	0.000	95	38411	1.00	0.7783	
24 Carbon disulfide	76	3.263	3.252	0.011	98	68552	1.00	0.7104	
25 Acetonitrile	41		3.334					ND	
26 3-Chloro-1-propene	76	3.382	3.382	0.000	87	15016	1.00	0.7029	
27 Methyl acetate	43	3.394	3.394	0.000	98	84978	5.00	4.11	
28 Methylene Chloride	84	3.489	3.489	0.000	88	43095	1.00	0.6851	
29 2-Methyl-2-propanol	59	3.572	3.572	0.000	97	14256	10.0	7.18	
30 Acrylonitrile	53	3.690	3.690	0.000	97	76366	10.0	7.12	
31 Methyl tert-butyl ether	73	3.738	3.738	0.000	94	72369	1.00	0.7885	
32 trans-1,2-Dichloroethene	96	3.738	3.738	0.000	69	29314	1.00	0.7787	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.987	3.987	0.000	88	7593	1.00	0.8363	
34 1,1-Dichloroethane	63	4.105	4.105	0.000	95	48194	1.00	0.7830	
35 Vinyl acetate	43	4.141	4.141	0.000	93	16087	0.9600	0.6194	
36 Isopropyl ether	87		4.164					ND	
37 2-Chloro-1,3-butadiene	53		4.188					ND	
38 Tert-butyl ethyl ether	59		4.485					ND	
40 2-Butanone (MEK)	43	4.603	4.603	0.000	98	90481	10.0	7.76	
39 cis-1,2-Dichloroethene	96	4.603	4.603	0.000	70	32269	1.00	0.8032	
41 2,2-Dichloropropane	77	4.615	4.610	0.005	84	30085	1.00	0.7628	
42 Propionitrile	54		4.639					ND	
43 Ethyl acetate	43		4.662					ND	
44 Methacrylonitrile	41		4.781					ND	
45 Chlorobromomethane	128	4.805	4.805	0.000	90	13925	1.00	0.7388	
46 Tetrahydrofuran	42	4.852	4.852	0.000	62	11365	2.00	1.53	
47 Chloroform	83	4.876	4.864	0.012	92	50047	1.00	0.8302	
48 1,1,1-Trichloroethane	97	5.042	5.042	0.000	98	34136	1.00	0.7442	
49 Cyclohexane	56	5.101	5.101	0.000	84	43899	1.00	0.7741	
50 1,1-Dichloropropene	75	5.184	5.184	0.000	96	34881	1.00	0.7506	
51 Carbon tetrachloride	117	5.196	5.196	0.000	95	28382	1.00	0.7538	
52 Isobutyl alcohol	41	5.232	5.232	0.000	91	10863	25.0	15.8	
53 1,2-Dichloroethane	62	5.362	5.362	0.000	54	32082	1.00	0.7650	
54 Benzene	78	5.362	5.362	0.000	93	127631	1.00	0.8214	
55 Tert-amyl methyl ether	73		5.445					ND	
56 n-Heptane	57	5.588	5.576	0.012	37	59250	1.00	0.9253	
57 n-Butanol	56		5.801					ND	
58 Trichloroethene	130	5.908	5.908	0.000	96	30684	1.00	0.7770	
59 Ethyl acrylate	55		5.967					ND	
60 Methylcyclohexane	83	6.098	6.086	0.012	89	44327	1.00	0.7371	
61 1,2-Dichloropropane	63	6.098	6.098	0.000	78	28194	1.00	0.8020	
62 Methyl methacrylate	41	6.086	6.168	-0.082	62	30305		1.43	
63 Dibromomethane	93	6.192	6.192	0.000	94	14093	1.00	0.7554	
64 1,4-Dioxane	88	6.204	6.204	0.000	35	4060	20.0	15.7	
65 Dichlorobromomethane	83	6.323	6.323	0.000	98	32544	1.00	0.7535	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63	6.572	6.572	0.000	90	26784	2.00	1.45	
68 cis-1,3-Dichloropropene	75	6.714	6.714	0.000	96	34761	1.00	0.6834	
69 4-Methyl-2-pentanone (MIBK	43	6.833	6.833	0.000	95	198104	10.0	8.60	
70 Toluene	91	7.023	7.023	0.000	97	130967	1.00	0.7968	
71 trans-1,3-Dichloropropene	75	7.200	7.189	0.011	91	28471	1.00	0.6821	
72 Ethyl methacrylate	69	7.272	7.272	0.000	89	24705	1.00	0.7323	
73 1,1,2-Trichloroethane	97	7.366	7.366	0.000	90	21950	1.00	0.7444	
75 Tetrachloroethene	164	7.532	7.521	0.011	94	23210	1.00	0.7457	
74 1,3-Dichloropropane	76	7.521	7.521	0.000	88	40907	1.00	0.7827	
76 2-Hexanone	43	7.580	7.580	0.000	95	130393	10.0	8.12	
77 n-Butyl acetate	43		7.698					ND	
79 Tetrahydrothiophene	60		7.734					ND	
78 Chlorodibromomethane	129	7.734	7.734	0.000	90	20786	1.00	0.6885	
80 Ethylene Dibromide	107	7.841	7.841	0.000	96	20993	1.00	0.7501	
81 1-Chlorohexane	91		8.267					ND	
82 Chlorobenzene	112	8.303	8.303	0.000	96	82269	1.00	0.7809	
83 1,1,1,2-Tetrachloroethane	131	8.374	8.374	0.000	91	27187	1.00	0.8107	
84 Ethylbenzene	106	8.398	8.398	0.000	98	42711	1.00	0.7580	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	8.505	8.505	0.000	98	54808	1.00	0.7769	
86 o-Xylene	106	8.884	8.884	0.000	96	50678	1.00	0.7434	
87 Styrene	104	8.896	8.896	0.000	91	76692	1.00	0.7019	
88 Bromoform	173	9.074	9.074	0.000	91	11106	1.00	0.6037	
89 Isopropylbenzene	105	9.240	9.240	0.000	95	136803	1.00	0.7585	
90 1,4-Dichlorobutane	55		9.323					ND	
91 Cyclohexanone	55		9.330					ND	
92 1,1,2,2-Tetrachloroethane	83	9.501	9.501	0.000	92	26098	1.00	0.7526	
93 Bromobenzene	156	9.537	9.537	0.000	93	33169	1.00	0.7764	
95 1,2,3-Trichloropropane	110	9.560	9.548	0.012	81	8560	1.00	0.7943	
94 trans-1,4-Dichloro-2-buten	53	9.560	9.560	0.000	70	6298	1.00	0.7431	
96 N-Propylbenzene	120	9.631	9.631	0.000	99	34688	1.00	0.7414	
97 2-Chlorotoluene	126	9.726	9.726	0.000	96	34686	1.00	0.8588	
98 3-Ethyltoluene	105	9.797	9.733	0.064	95	104987		NC	
99 1,3,5-Trimethylbenzene	105	9.797	9.797	0.000	92	104987	1.00	0.7409	
100 4-Chlorotoluene	126	9.833	9.821	0.012	97	35080	1.00	0.8164	
101 2-Ethyltoluene	105		10.018					ND	
102 tert-Butylbenzene	119	10.129	10.129	0.000	89	95506	1.00	0.7732	
103 Pentachloroethane	167		10.141					ND	
104 1,2,4-Trimethylbenzene	105	10.165	10.165	0.000	95	111017	1.00	0.7489	
105 sec-Butylbenzene	105	10.343	10.343	0.000	93	133953	1.00	0.7521	
106 1,3-Dichlorobenzene	146	10.450	10.450	0.000	95	65457	1.00	0.7831	
107 4-Isopropyltoluene	119	10.485	10.473	0.012	97	115864	1.00	0.7455	
108 1,4-Dichlorobenzene	146	10.533	10.533	0.000	95	72059	1.00	0.8417	
109 1,2,3-Trimethylbenzene	105		10.592					ND	
110 Benzyl chloride	126		10.663					ND	
111 n-Butylbenzene	91	10.888	10.888	0.000	96	93576	1.00	0.7212	
112 1,2-Dichlorobenzene	146	10.912	10.900	0.012	98	64426	1.00	0.8147	
113 1,2-Dibromo-3-Chloropropan	157	11.671	11.671	0.000	81	3906	1.00	0.6724	
114 1,3,5-Trichlorobenzene	180		11.915					ND	
115 1,2,4-Trichlorobenzene	180	12.513	12.501	0.012	91	36014	1.00	0.7330	
116 Hexachlorobutadiene	225	12.679	12.679	0.000	94	13673	1.00	0.6712	
117 Naphthalene	128	12.750	12.750	0.000	96	65855	1.00	0.6199	
118 1,2,3-Trichlorobenzene	180	13.011	13.011	0.000	95	33845	1.00	0.7704	
119 2-Methylnaphthalene	142		14.066					ND	
126 Butyl Methacrylate TIC	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
128 Pentachloroethane TIC	1		0.000					ND	
129 Isobutylene TIC	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
124 1,3-Butadiene TIC	1		0.000					ND	
123 Ethylene oxide	1		0.000					ND	
127 1,3-Diethylbenzene TIC	1		0.000					ND	
S 131 1,2-Dichloroethene, Total	96				0		2.00	1.58	
S 132 1,3-Dichloropropene, Total	75				0		2.00	1.37	
S 133 Xylenes, Total	106				0		2.00	1.52	
S 134 Trihalomethanes, Total	1				0		4.00	2.88	
T 125 Chlorodifluoromethane TIC	51		1.575					ND	
T 135 Hexachloroethane TIC	1		11.350					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	0.80	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.80	Units: uL	
VMRGAS_00097	Amount Added:	0.80	Units: uL	
VMKETONE_00012	Amount Added:	3.20	Units: uL	
VM50IS_00045	Amount Added:	1.00	Units: uL	Run Reagent
vm50ss_stk_00063	Amount Added:	1.14	Units: uL	Run Reagent
vmDist_H2o_00042	Amount Added:	0.00	Units:	Run Reagent

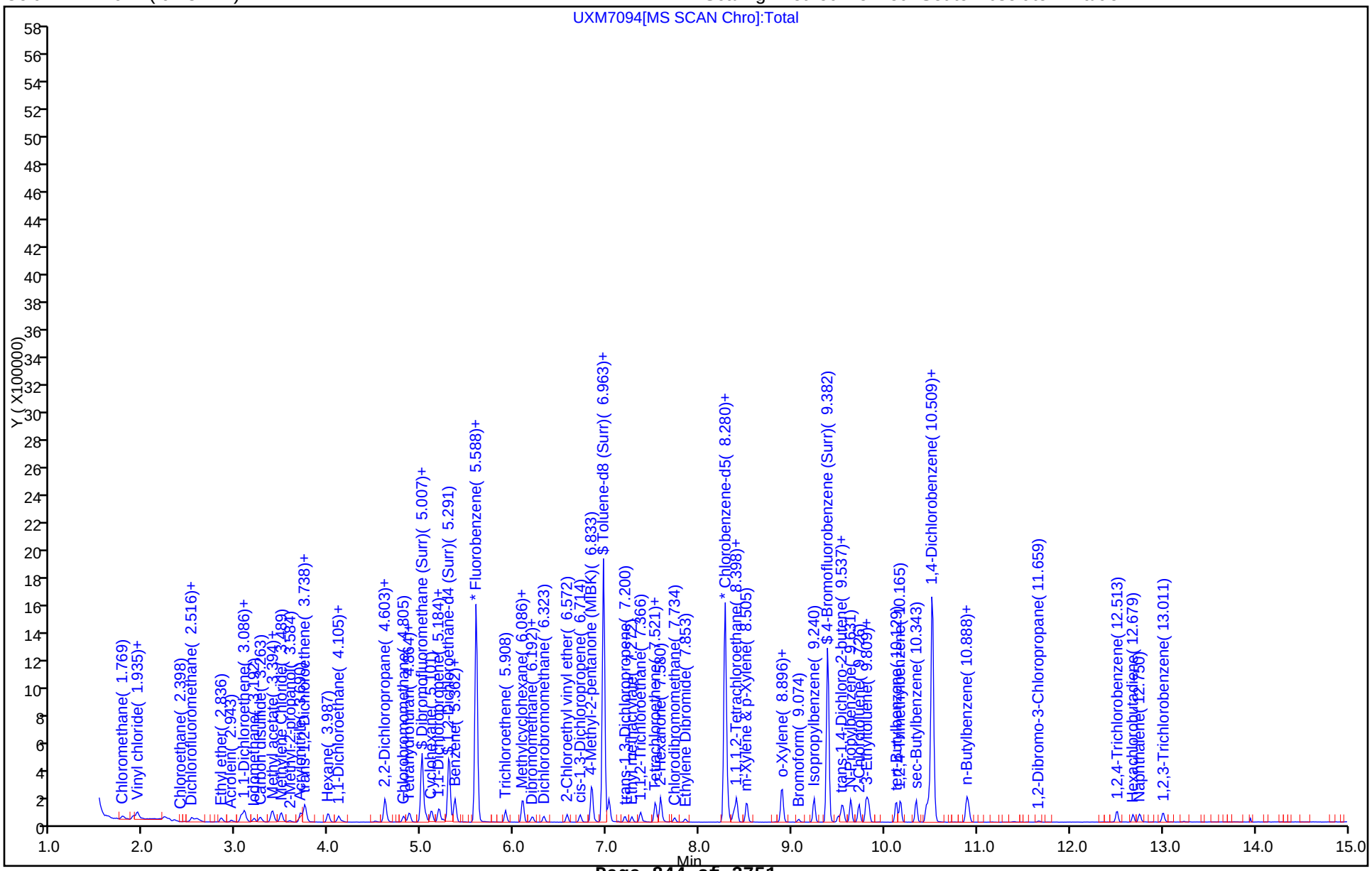
Report Date: 10-Apr-2015 07:30:23 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX16\20150409-42394.b\UXM7094.D

Injection Date:	09-Apr-2015 15:31:30	Instrument ID:	A3UX16	Operator ID:	1904
Lims ID:	MRL			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-176026/7

Matrix: Solid Lab File ID: UX86940.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/11/2015 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176026 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00488		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00517		0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.00498		0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.00475		0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.00507		0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.00430		0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.0105		0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.00483		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.0101		0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.0102		0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.00970	J	0.010	0.00050	0.0036
71-43-2	Benzene	0.00501		0.0010	0.00025	0.00024
75-25-2	Bromoform	0.00435		0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00517		0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.00462		0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.00457		0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.00513		0.0010	0.00025	0.00019
75-27-4	Bromodichloromethane	0.00450		0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00461		0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.00429		0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.00435		0.0010	0.00025	0.00043
100-41-4	Ethylbenzene	0.00498		0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.00463		0.0010	0.00025	0.00016
100-42-5	Styrene	0.00508		0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00491		0.0010	0.00050	0.00020
108-88-3	Toluene	0.00509		0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00481		0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.00512		0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.00516		0.0010	0.00025	0.00019
10061-02-6	trans-1,3-Dichloropropene	0.00418		0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.00524		0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00497		0.0010	0.00025	0.00029
75-00-3	Chloroethane	0.00486		0.0010	0.0050	0.00033
1330-20-7	Xylenes, Total	0.00995		0.0020	0.00025	0.00043

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-176026/7

Matrix: Solid Lab File ID: UX86940.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/11/2015 02:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176026 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		50-150
2037-26-5	Toluene-d8 (Surr)	111		50-150
460-00-4	4-Bromofluorobenzene (Surr)	98		50-150
1868-53-7	Dibromofluoromethane (Surr)	103		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86940.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 11-Apr-2015 02:19:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042461-007
Operator ID: 402279 Instrument ID: A3UX8

Method: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 01:56:28 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 11-Apr-2015 03:14:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.160	5.160	0.000	99	1213632	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.680	7.680	0.000	95	898758	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.881	9.881	0.000	98	478673	50.0	50.0	
$ 4 Dibromofluoromethane (Surr	113	4.627	4.625	0.002	95	253437	50.0	51.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.888	4.897	-0.009	91	259905	50.0	46.5	
$ 6 Toluene-d8 (Surr)	98	6.426	6.424	0.002	92	1084040	50.0	55.4	
$ 7 4-Bromofluorobenzene (Surr	95	8.757	8.755	0.002	96	345449	50.0	48.8	
$ 8 BFB	95	3.515	3.741	-0.226	0	1012		NR	
9 Dichlorodifluoromethane	85	1.586	1.584	0.002	98	18797	5.00	4.17	
10 Chloromethane	50	1.752	1.750	0.002	98	24718	5.00	4.61	
11 Vinyl chloride	62	1.870	1.868	0.002	97	19738	5.00	4.97	
12 Butadiene	54	1.918	1.915	0.003	0	19154	NC	NC	
13 Bromomethane	94	2.190	2.187	0.003	91	14001	5.00	5.17	
14 Chloroethane	64	2.284	2.294	-0.010	96	11775	5.00	4.86	
15 Dichlorofluoromethane	67	2.462	2.460	0.002	97	28581	5.00	5.08	
16 Trichlorofluoromethane	101	2.509	2.507	0.002	97	28668	5.00	5.17	
17 Ethyl ether	59	2.746	2.744	0.002	91	21017	5.00	5.33	
18 Acrolein	56	2.840	2.838	0.002	97	23943	25.0	42.9	
19 1,1-Dichloroethene	96	2.935	2.933	0.002	95	23954	5.00	5.07	
20 1,1,2-Trichloro-1,2,2-trif	151	2.947	2.945	0.002	93	18353	5.00	4.79	
21 Acetone	43	2.959	2.957	0.002	99	44800	10.0	4.14	
22 Methylal	45		2.980					ND	
23 Iodomethane	142	3.053	3.063	-0.010	98	35625	5.00	4.77	
24 Carbon disulfide	76	3.113	3.122	-0.009	98	53352	5.00	4.62	
25 Acetonitrile	41		3.172					ND	
26 3-Chloro-1-propene	76	3.219	3.217	0.002	94	12690	5.00	4.76	
27 Methyl acetate	43	3.219	3.217	0.002	98	138750	25.0	23.8	
28 Methylene Chloride	84	3.302	3.300	0.002	88	43840	5.00	2.50	
29 2-Methyl-2-propanol	59	3.385	3.383	0.002	95	32581	50.0	48.2	
30 Acrylonitrile	53	3.479	3.489	-0.010	98	129131	50.0	50.3	
31 trans-1,2-Dichloroethene	96	3.527	3.525	0.002	67	29425	5.00	5.30	
32 Methyl tert-butyl ether	73	3.527	3.525	0.002	96	73975	5.00	4.63	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.728	3.738	-0.010	91	8640	5.00	5.36	
34 1,1-Dichloroethane	63	3.834	3.844	-0.010	96	46611	5.00	4.75	
35 Vinyl acetate	43	3.858	3.868	-0.010	96	21891	4.80	4.17	
36 Isopropyl ether	87		3.882					ND	
37 2-Chloro-1,3-butadiene	53		3.906					ND	
38 Tert-butyl ethyl ether	59		4.154					ND	
39 cis-1,2-Dichloroethene	96	4.272	4.270	0.002	78	31927	5.00	5.22	
40 2-Butanone (MEK)	43	4.272	4.270	0.002	97	38414	10.0	10.1	
41 2,2-Dichloropropane	77	4.284	4.282	0.002	90	17635	5.00	4.07	
42 Ethyl acetate	43		4.308					ND	
43 Propionitrile	54		4.308					ND	
44 Methacrylonitrile	41		4.438					ND	
45 Chlorobromomethane	128	4.462	4.459	0.003	91	16123	5.00	5.12	
46 Tetrahydrofuran	42	4.497	4.495	0.002	89	19828	10.0	9.34	
47 Chloroform	83	4.509	4.507	0.002	93	45715	5.00	4.81	
48 1,1,1-Trichloroethane	97	4.675	4.672	0.003	98	34762	5.00	4.88	
49 Cyclohexane	56	4.722	4.720	0.002	89	41387	5.00	4.62	
50 1,1-Dichloropropene	75	4.793	4.791	0.002	96	31170	5.00	4.67	
51 Carbon tetrachloride	117	4.805	4.802	0.003	96	28678	5.00	4.57	
52 Isobutyl alcohol	41	4.817	4.826	-0.009	94	31351	125.0	119.7	
54 Benzene	78	4.947	4.956	-0.009	94	116500	5.00	5.01	
53 1,2-Dichloroethane	62	4.947	4.956	-0.009	55	32530	5.00	4.30	
55 Tert-amyl methyl ether	73		5.018					ND	
56 n-Heptane	100	5.136	5.134	0.002	92	7582	5.00	4.35	
57 n-Butanol	56		5.326					ND	
58 Trichloroethene	130	5.444	5.441	0.003	95	32414	5.00	5.24	
59 Ethyl acrylate	55		5.491					ND	
60 Methylcyclohexane	83	5.609	5.607	0.002	90	46117	5.00	4.92	
61 1,2-Dichloropropane	63	5.621	5.619	0.002	93	27809	5.00	4.83	
62 Methyl methacrylate	41		5.681					ND	
64 1,4-Dioxane	88	5.716	5.714	0.002	47	6800	100.0	109.1	
63 Dibromomethane	93	5.716	5.714	0.002	92	16114	5.00	5.06	
65 Dichlorobromomethane	83	5.822	5.832	-0.010	99	27864	5.00	4.50	
66 2-Nitropropane	41		6.000					ND	
67 2-Chloroethyl vinyl ether	63	6.047	6.057	-0.010	92	20037	10.0	13.7	
68 cis-1,3-Dichloropropene	75	6.189	6.187	0.002	93	31580	5.00	4.29	
69 4-Methyl-2-pentanone (MIBK	43	6.307	6.305	0.002	96	62362	10.0	9.70	
70 Toluene	91	6.485	6.483	0.002	99	125823	5.00	5.09	
71 trans-1,3-Dichloropropene	75	6.639	6.648	-0.009	91	26882	5.00	4.18	
72 Ethyl methacrylate	69	6.710	6.708	0.002	89	31395	5.00	5.05	
73 1,1,2-Trichloroethane	97	6.804	6.802	0.002	89	25735	5.00	4.98	
74 1,3-Dichloropropane	76	6.958	6.956	0.002	89	43556	5.00	5.12	
75 Tetrachloroethene	164	6.958	6.968	-0.010	80	24612	5.00	4.91	
76 2-Hexanone	43	7.006	7.003	0.003	97	48191	10.0	10.2	
77 n-Butyl acetate	43		7.112					ND	
78 Chlorodibromomethane	129	7.159	7.157	0.002	89	20660	5.00	4.35	
79 Tetrahydrothiophene	60		7.168					ND	
80 Ethylene Dibromide	107	7.278	7.276	0.002	97	24996	5.00	5.16	
81 1-Chlorohexane	91		7.669					ND	
82 Chlorobenzene	112	7.716	7.713	0.003	96	85708	5.00	5.13	
83 1,1,1,2-Tetrachloroethane	131	7.775	7.773	0.002	94	24409	5.00	4.83	
84 Ethylbenzene	106	7.798	7.796	0.002	98	43329	5.00	4.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	7.905	7.903	0.002	98	51341	5.00	5.00	
86 o-Xylene	106	8.272	8.269	0.003	95	48453	5.00	4.95	
87 Styrene	104	8.284	8.281	0.003	93	75575	5.00	5.08	
88 Bromoform	173	8.461	8.459	0.002	97	12401	5.00	4.35	
89 Isopropylbenzene	105	8.615	8.613	0.002	94	126984	5.00	5.14	
90 1,4-Dichlorobutane	90		8.697					ND	
91 Cyclohexanone	55		8.698					ND	
92 1,1,2,2-Tetrachloroethane	83	8.875	8.873	0.002	93	33336	5.00	5.17	
93 Bromobenzene	156	8.911	8.920	-0.009	90	38162	5.00	5.30	
94 1,2,3-Trichloropropane	110	8.923	8.932	-0.009	85	11447	5.00	5.09	
95 trans-1,4-Dichloro-2-buten	53	8.934	8.932	0.002	69	7966	5.00	4.31	
96 N-Propylbenzene	120	9.005	9.003	0.002	99	36660	5.00	5.16	
97 2-Chlorotoluene	126	9.100	9.098	0.002	98	33160	5.00	5.34	
98 1,3,5-Trimethylbenzene	105	9.171	9.169	0.002	95	104347	5.00	4.98	
99 4-Chlorotoluene	126	9.195	9.192	0.003	96	34355	5.00	5.23	
100 tert-Butylbenzene	119	9.491	9.488	0.002	91	94004	5.00	5.03	
101 Pentachloroethane	167		9.515					ND	
102 1,2,4-Trimethylbenzene	105	9.538	9.536	0.002	93	106797	5.00	4.88	
103 sec-Butylbenzene	105	9.703	9.701	0.002	93	139842	5.00	5.20	
104 1,3-Dichlorobenzene	146	9.822	9.820	0.002	96	66733	5.00	5.00	
105 4-Isopropyltoluene	119	9.845	9.843	0.002	97	114951	5.00	4.86	
106 1,4-Dichlorobenzene	146	9.905	9.902	0.003	96	69837	5.00	4.97	
107 1,2,3-Trimethylbenzene	105		9.952					ND	
108 Benzyl chloride	126		10.023					ND	
109 n-Butylbenzene	91	10.236	10.246	-0.010	97	96177	5.00	4.89	
110 1,2-Dichlorobenzene	146	10.271	10.269	0.002	99	64123	5.00	4.97	
111 1,2-Dibromo-3-Chloropropan	157	11.029	11.027	0.002	85	4900	5.00	4.14	
112 1,3,5-Trichlorobenzene	180		11.242					ND	
113 1,2,4-Trichlorobenzene	180	11.857	11.855	0.002	94	38657	5.00	4.64	
114 Hexachlorobutadiene	225	12.035	12.032	0.003	90	24387	5.00	5.06	
115 Naphthalene	128	12.106	12.103	0.003	96	110989	5.00	5.48	
116 1,2,3-Trichlorobenzene	180	12.366	12.364	0.002	94	40822	5.00	4.76	
117 2-Methylnaphthalene	142		13.431					ND	
123 1,3-Diethylbenzene TIC	1		0.000					ND	
124 Propene oxide	1		0.000					ND	
125 Isobutylene TIC	1		0.000					ND	
121 Ethylene oxide	1		0.000					ND	
122 1,3-Butadiene TIC	1		0.000					ND	
119 Epichlorohydrin	1		0.000					ND	
118 2-Ethyltoluene	1		0.000					ND	
120 3-Ethyltoluene	1		0.000					ND	
S 126 1,2-Dichloroethene, Total	96				0		10.0	10.5	
S 127 1,3-Dichloropropene, Total	75				0		10.0	8.47	
S 128 Xylenes, Total	106				0		10.0	9.95	
S 129 Trihalomethanes, Total	1				0		20.0	18.0	
T 130 Butyl Methacrylate TIC	69		9.231					ND	
T 131 Hexachloroethane TIC	166		10.500					ND	
T 132 Chlorodifluoromethane TIC	51		1.590					ND	
T 133 Pentachloroethane TIC	167		9.514					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	0.50	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.50	Units: uL	
VMRGAS_00097	Amount Added:	0.50	Units: uL	
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VMUX8SS_00018	Amount Added:	1.15	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent

Report Date: 14-Apr-2015 01:56:30 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86940.D

Injection Date: 11-Apr-2015 02:19:30 Instrument ID: A3UX8 Operator ID: 402279

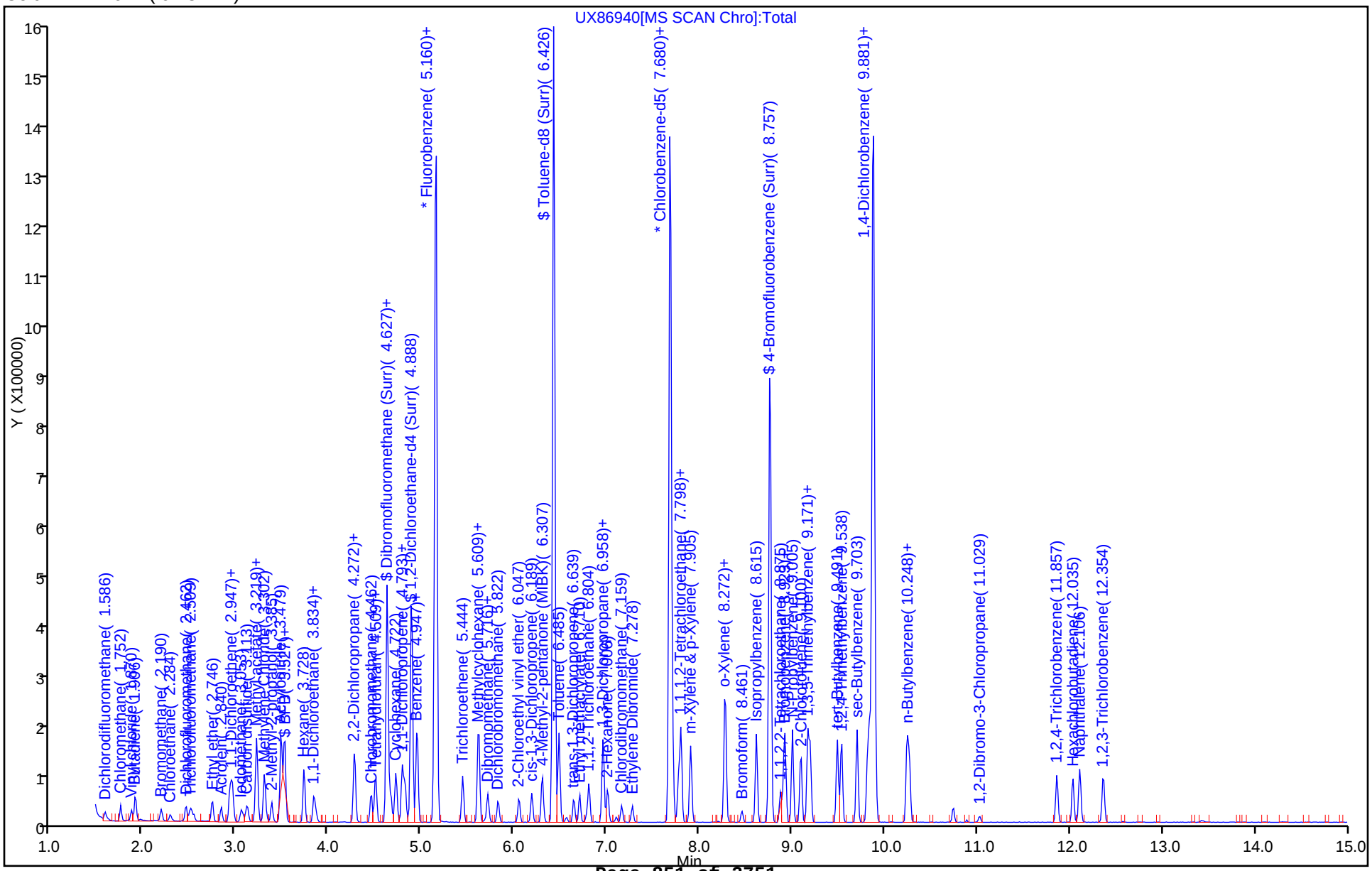
Lims ID: MRL Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260_8 Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-176026/35

Matrix: Solid | Lab File ID: UX86968.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/11/2015 12:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 176026 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00412		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00510		0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.00537		0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.00453		0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.00445		0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.00462		0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.00971		0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.00468		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.0112		0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.0107		0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.0104		0.010	0.00050	0.0036
71-43-2	Benzene	0.00474		0.0010	0.00025	0.00024
75-25-2	Bromoform	0.00381		0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00523		0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.00353		0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.00373		0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.00489		0.0010	0.00025	0.00019
75-27-4	Bromodichloromethane	0.00401		0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00495		0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.00384		0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.00360		0.0010	0.00025	0.00043
100-41-4	Ethylbenzene	0.00470		0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.00472		0.0010	0.00025	0.00016
100-42-5	Styrene	0.00441		0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00449		0.0010	0.00050	0.00020
108-88-3	Toluene	0.00481		0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00438		0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.00486		0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.00532		0.0010	0.00025	0.00019
10061-02-6	trans-1,3-Dichloropropene	0.00347	^	0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.00502		0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00488		0.0010	0.00025	0.00029
75-00-3	Chloroethane	0.00495		0.0010	0.0050	0.00033
1330-20-7	Xylenes, Total	0.00940		0.0020	0.00025	0.00043

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-176026/35

Matrix: Solid Lab File ID: UX86968.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/11/2015 12:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176026 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		50-150
2037-26-5	Toluene-d8 (Surr)	115		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150
1868-53-7	Dibromofluoromethane (Surr)	103		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86968.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 11-Apr-2015 12:20:30 ALS Bottle#: 33 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0042461-035
Operator ID: 402279 Instrument ID: A3UX8

Method: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\8260_8.m
Limit Group: MSV 8260DOD ICAL
Last Update: 14-Apr-2015 03:13:22 Calib Date: 03-Mar-2015 03:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX8\20150302-40994.b\UX86161.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: latat Date: 14-Apr-2015 03:13:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.159	5.160	-0.001	99	1192587	50.0	50.0	
* 2 Chlorobenzene-d5	117	7.680	7.680	0.000	94	877207	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.881	9.881	-0.001	98	457912	50.0	50.0	
$ 4 Dibromofluoromethane (Surr	113	4.627	4.625	0.002	95	249405	50.0	51.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	4.899	4.897	0.002	89	258216	50.0	47.0	
$ 6 Toluene-d8 (Surr)	98	6.425	6.424	0.001	92	1096500	50.0	57.4	
$ 7 4-Bromofluorobenzene (Surr	95	8.756	8.755	0.001	97	351500	50.0	51.1	
$ 8 BFB	95	3.514	3.741	-0.227	0	983		NR	
9 Dichlorodifluoromethane	85	1.586	1.584	0.002	98	19149	5.00	4.33	
10 Chloromethane	50	1.751	1.750	0.001	99	26093	5.00	4.95	
11 Vinyl chloride	62	1.870	1.868	0.002	97	19044	5.00	4.88	
12 Butadiene	54	1.905	1.915	-0.010	0	17574	NC	NC	
13 Bromomethane	94	2.189	2.187	0.002	89	13900	5.00	5.23	
14 Chloroethane	64	2.284	2.294	-0.010	96	11771	5.00	4.95	
15 Dichlorofluoromethane	67	2.461	2.460	0.001	98	28027	5.00	5.07	
16 Trichlorofluoromethane	101	2.509	2.507	0.002	97	25050	5.00	4.60	
17 Ethyl ether	59	2.745	2.744	0.001	91	23561	5.00	6.08	
18 Acrolein	56	2.840	2.838	0.002	97	26142	25.0	47.3	
19 1,1-Dichloroethene	96	2.935	2.933	0.002	96	20641	5.00	4.45	
20 1,1,2-Trichloro-1,2,2-trif	151	2.946	2.945	0.001	88	16940	5.00	4.50	
21 Acetone	43	2.958	2.957	0.001	100	51549	10.0	7.30	
22 Methylal	45		2.980					ND	
23 Iodomethane	142	3.053	3.063	-0.010	96	33792	5.00	4.60	
24 Carbon disulfide	76	3.124	3.122	0.002	98	40066	5.00	3.53	
25 Acetonitrile	41		3.172					ND	
27 Methyl acetate	43	3.230	3.217	0.013	98	148439	25.0	25.9	
26 3-Chloro-1-propene	76	3.219	3.217	0.002	95	10845	5.00	4.14	
28 Methylene Chloride	84	3.301	3.300	0.001	92	42647	5.00	2.42	
29 2-Methyl-2-propanol	59	3.384	3.383	0.001	95	38356	50.0	57.7	
30 Acrylonitrile	53	3.491	3.489	0.002	99	137475	50.0	54.5	
31 trans-1,2-Dichloroethene	96	3.526	3.525	0.001	63	26536	5.00	4.86	
32 Methyl tert-butyl ether	73	3.526	3.525	0.001	96	74220	5.00	4.72	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	86	3.739	3.738	0.001	93	7806	5.00	4.93	
34 1,1-Dichloroethane	63	3.846	3.844	0.002	96	43604	5.00	4.53	
35 Vinyl acetate	43	3.869	3.868	0.001	96	14850	4.80	2.88	
36 Isopropyl ether	87		3.882					ND	
37 2-Chloro-1,3-butadiene	53		3.906					ND	
38 Tert-butyl ethyl ether	59		4.154					ND	
40 2-Butanone (MEK)	43	4.272	4.270	0.002	100	42151	10.0	11.2	
39 cis-1,2-Dichloroethene	96	4.284	4.270	0.014	77	29189	5.00	4.85	
41 2,2-Dichloropropane	77	4.284	4.282	0.002	89	15800	5.00	3.71	
42 Ethyl acetate	43		4.308					ND	
43 Propionitrile	54		4.308					ND	
44 Methacrylonitrile	41		4.438					ND	
45 Chlorobromomethane	128	4.461	4.459	0.002	92	15043	5.00	4.86	
46 Tetrahydrofuran	42	4.497	4.495	0.002	93	22901	10.0	11.0	
47 Chloroform	83	4.508	4.507	0.001	93	40912	5.00	4.38	
48 1,1,1-Trichloroethane	97	4.674	4.672	0.002	97	28843	5.00	4.12	
49 Cyclohexane	56	4.721	4.720	0.001	88	38913	5.00	4.42	
50 1,1-Dichloropropene	75	4.792	4.791	0.001	95	27180	5.00	4.14	
51 Carbon tetrachloride	117	4.804	4.802	0.002	96	22969	5.00	3.73	
52 Isobutyl alcohol	41	4.828	4.826	0.002	90	34958	125.0	135.8	
53 1,2-Dichloroethane	62	4.946	4.956	-0.010	57	34297	5.00	4.62	
54 Benzene	78	4.958	4.956	0.002	94	108310	5.00	4.74	
55 Tert-amyl methyl ether	73		5.018					ND	
56 n-Heptane	100	5.136	5.134	0.002	91	7253	5.00	4.23	
57 n-Butanol	56		5.326					ND	
58 Trichloroethene	130	5.443	5.441	0.002	95	30497	5.00	5.02	
59 Ethyl acrylate	55		5.491					ND	
60 Methylcyclohexane	83	5.609	5.607	0.002	90	39114	5.00	4.24	
61 1,2-Dichloropropane	63	5.621	5.619	0.002	94	26476	5.00	4.68	
62 Methyl methacrylate	41		5.681					ND	
63 Dibromomethane	93	5.715	5.714	0.001	90	14561	5.00	4.65	
64 1,4-Dioxane	88	5.715	5.714	0.001	44	6650	100.0	108.5	
65 Dichlorobromomethane	83	5.822	5.832	-0.010	99	24386	5.00	4.01	
66 2-Nitropropane	41		6.000					ND	
67 2-Chloroethyl vinyl ether	63	6.059	6.057	0.001	90	19404	10.0	13.5	
68 cis-1,3-Dichloropropene	75	6.189	6.187	0.002	94	27772	5.00	3.84	
69 4-Methyl-2-pentanone (MIBK	43	6.307	6.305	0.002	96	65540	10.0	10.4	
70 Toluene	91	6.484	6.483	0.001	98	115989	5.00	4.81	
71 trans-1,3-Dichloropropene	75	6.650	6.648	0.002	92	21793	5.00	3.47	
72 Ethyl methacrylate	69	6.709	6.708	0.001	89	28055	5.00	4.62	
73 1,1,2-Trichloroethane	97	6.804	6.802	0.002	88	27085	5.00	5.37	
74 1,3-Dichloropropane	76	6.958	6.956	0.002	93	42055	5.00	5.06	
75 Tetrachloroethene	164	6.958	6.968	-0.010	91	21966	5.00	4.49	
76 2-Hexanone	43	7.005	7.003	0.002	97	49575	10.0	10.7	
77 n-Butyl acetate	43		7.112					ND	
78 Chlorodibromomethane	129	7.159	7.157	0.002	90	16728	5.00	3.60	
79 Tetrahydrothiophene	60		7.168					ND	
80 Ethylene Dibromide	107	7.277	7.276	0.001	72	25143	5.00	5.32	
81 1-Chlorohexane	91		7.669					ND	
82 Chlorobenzene	112	7.715	7.713	0.002	97	79769	5.00	4.89	
83 1,1,1,2-Tetrachloroethane	131	7.774	7.773	0.001	92	21944	5.00	4.45	
84 Ethylbenzene	106	7.798	7.796	0.002	97	39842	5.00	4.70	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106	7.904	7.903	0.001	100	45341	5.00	4.52	
86 o-Xylene	106	8.271	8.269	0.002	96	46656	5.00	4.88	
87 Styrene	104	8.283	8.281	0.002	94	64156	5.00	4.41	
88 Bromoform	173	8.461	8.459	0.002	95	10233	5.00	3.81	
89 Isopropylbenzene	105	8.614	8.613	0.001	94	108463	5.00	4.49	
90 1,4-Dichlorobutane	90		8.697					ND	
91 Cyclohexanone	55		8.698					ND	
92 1,1,2,2-Tetrachloroethane	83	8.875	8.873	0.002	95	31455	5.00	5.10	
93 Bromobenzene	156	8.922	8.920	0.002	92	31764	5.00	4.61	
94 1,2,3-Trichloropropane	110	8.922	8.932	-0.010	85	11383	5.00	5.29	
95 trans-1,4-Dichloro-2-buten	53	8.934	8.932	0.002	69	7113	5.00	4.02	
96 N-Propylbenzene	120	9.005	9.003	0.002	98	32889	5.00	4.83	
97 2-Chlorotoluene	126	9.100	9.098	0.002	98	28836	5.00	4.86	
98 1,3,5-Trimethylbenzene	105	9.171	9.169	0.002	93	87660	5.00	4.38	
99 4-Chlorotoluene	126	9.194	9.192	0.002	95	30504	5.00	4.86	
100 tert-Butylbenzene	119	9.490	9.488	0.002	91	82981	5.00	4.64	
101 Pentachloroethane	167		9.515					ND	
102 1,2,4-Trimethylbenzene	105	9.537	9.536	0.001	93	90610	5.00	4.33	
103 sec-Butylbenzene	105	9.703	9.701	0.002	93	115139	5.00	4.47	
104 1,3-Dichlorobenzene	146	9.821	9.820	0.001	96	57173	5.00	4.48	
105 4-Isopropyltoluene	119	9.845	9.843	0.002	96	94313	5.00	4.17	
106 1,4-Dichlorobenzene	146	9.904	9.902	0.002	95	59435	5.00	4.42	
107 1,2,3-Trimethylbenzene	105		9.952					ND	
108 Benzyl chloride	126		10.023					ND	
109 n-Butylbenzene	91	10.235	10.246	-0.011	97	76618	5.00	4.08	
110 1,2-Dichlorobenzene	146	10.271	10.269	0.002	98	57438	5.00	4.65	
111 1,2-Dibromo-3-Chloropropan	157	11.028	11.027	0.001	81	3963	5.00	3.50	
112 1,3,5-Trichlorobenzene	180		11.242					ND	
113 1,2,4-Trichlorobenzene	180	11.857	11.855	0.002	92	30867	5.00	3.87	
114 Hexachlorobutadiene	225	12.034	12.032	0.002	94	18077	5.00	3.92	
115 Naphthalene	128	12.105	12.103	0.002	96	80361	5.00	4.15	
116 1,2,3-Trichlorobenzene	180	12.365	12.364	0.001	95	33103	5.00	4.03	
117 2-Methylnaphthalene	142		13.431					ND	
119 Epichlorohydrin	1		0.000					ND	
118 2-Ethyltoluene	1		0.000					ND	
120 3-Ethyltoluene	1		0.000					ND	
121 Ethylene oxide	1		0.000					ND	
122 1,3-Butadiene TIC	1		0.000					ND	
124 Propene oxide	1		0.000					ND	
123 1,3-Diethylbenzene TIC	1		0.000					ND	
125 Isobutylene TIC	1		0.000					ND	
S 126 1,2-Dichloroethene, Total	96				0		10.0	9.72	
S 127 1,3-Dichloropropene, Total	75				0		10.0	7.31	
S 128 Xylenes, Total	106				0		10.0	9.40	
S 129 Trihalomethanes, Total	1				0		20.0	15.8	
T 130 Butyl Methacrylate TIC	69		9.231					ND	
T 131 Hexachloroethane TIC	166		10.500					ND	
T 132 Chlorodifluoromethane TIC	51	1.598	1.590	0.008	90	66501		0	
T 133 Pentachloroethane TIC	167		9.514					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMRPRIMW_00120	Amount Added:	0.50	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.50	Units: uL	
VMRGAS_00097	Amount Added:	0.50	Units: uL	
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VMUX8SS_00018	Amount Added:	1.15	Units: uL	Run Reagent
vmDist_H2o_00045	Amount Added:	0.00	Units:	Run Reagent

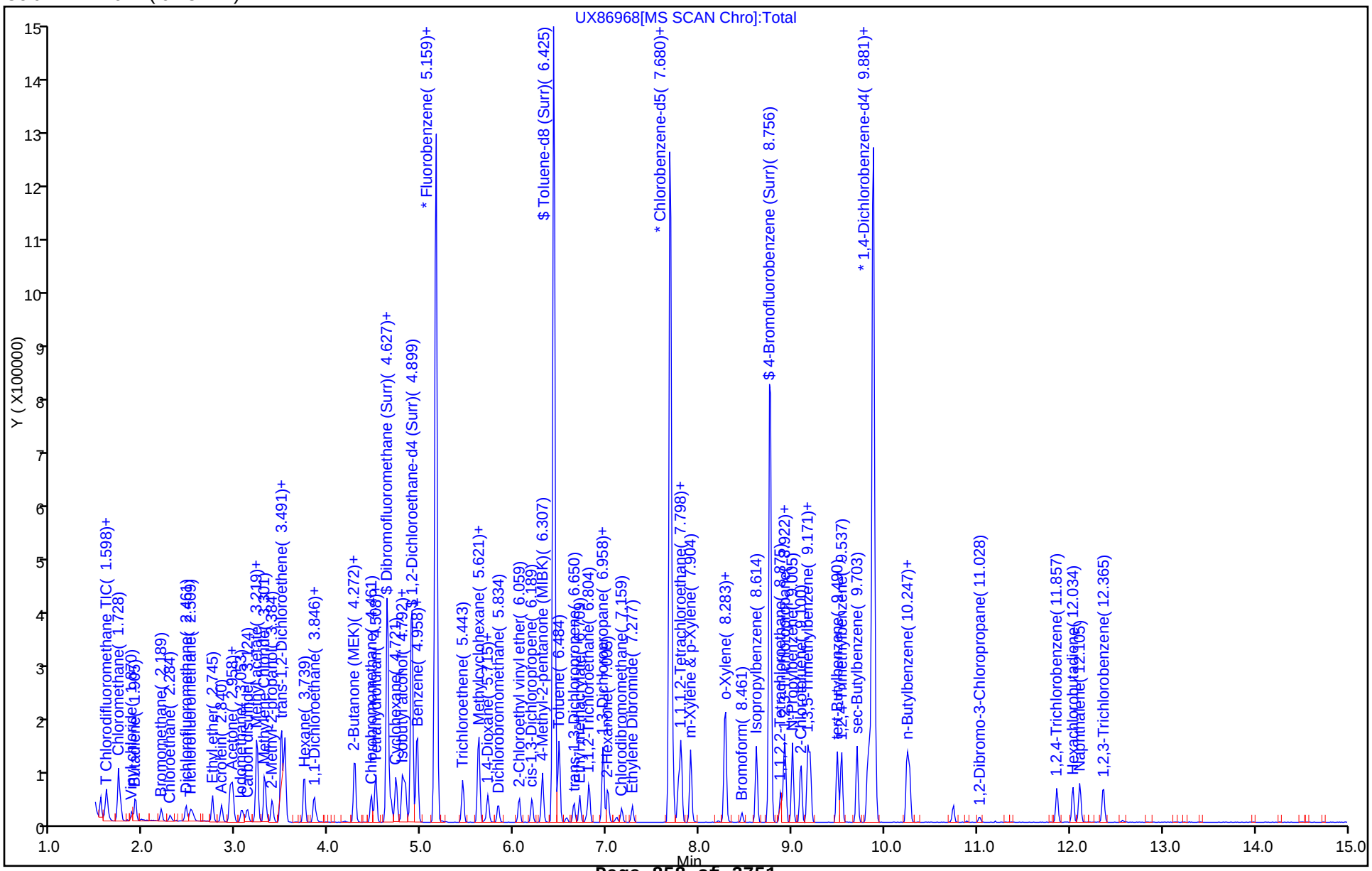
Report Date: 14-Apr-2015 03:13:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX8\20150411-42461.b\UX86968.D

Injection Date:	11-Apr-2015 12:20:30	Instrument ID:	A3UX8	Operator ID:	402279
Lims ID:	MRL			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	8260_8	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-176387/6

Matrix: Solid | Lab File ID: 142401.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/14/2015 14:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 176387 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00642		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00555		0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.00526		0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.00609		0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.00658	^	0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.00630		0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.0122		0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.00627		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.0109		0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.0111		0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.0110		0.010	0.00050	0.0036
67-64-1	Acetone	0.0174	^	0.010	0.0010	0.0034
71-43-2	Benzene	0.00612		0.0010	0.00025	0.00024
75-25-2	Bromoform	0.00512		0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00638		0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.00563		0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.00638		0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.00635		0.0010	0.00025	0.00019
75-27-4	Bromodichloromethane	0.00515		0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00659	^	0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.00484		0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.00496		0.0010	0.00025	0.00043
100-41-4	Ethylbenzene	0.00576		0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.00575		0.0010	0.00025	0.00016
75-09-2	Methylene Chloride	0.00803	^	0.0010	0.00050	0.00028
100-42-5	Styrene	0.00542		0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00550		0.0010	0.00050	0.00020
108-88-3	Toluene	0.00583		0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00618		0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.00580		0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.00577		0.0010	0.00025	0.00019
10061-02-6	trans-1,3-Dichloropropene	0.00529		0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.00579		0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00636		0.0010	0.00025	0.00029
75-00-3	Chloroethane	0.00772	^	0.0010	0.0050	0.00033
1330-20-7	Xylenes, Total	0.0116		0.0020	0.00025	0.00043

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-176387/6

Matrix: Solid Lab File ID: 142401.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/14/2015 14:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176387 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		50-150
2037-26-5	Toluene-d8 (Surr)	108		50-150
460-00-4	4-Bromofluorobenzene (Surr)	100		50-150
1868-53-7	Dibromofluoromethane (Surr)	101		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142401.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 14:02:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mrl
Misc. Info.: 240-0042552-006240-0042552-006
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:47 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 14-Apr-2015 14:30:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 TBA-d9 (IS)	65	3.789	3.789	0.000	64	2489		1000.0	
* 1 Fluorobenzene	96	6.652	6.652	0.000	98	1161774	50.0	50.0	
* 4 Dioxane-d8 (IS)	96	7.327	7.339	-0.012	1	133		1000.0	s
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	95	659372	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	94	345282	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.990	0.000	82	304639	50.0	50.3	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	93	377403	50.0	52.1	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	95	1056321	50.0	53.8	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	81	344905	50.0	50.0	
$ 10 BFB	95	4.203	4.254	-0.051	0	349		NR	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	86	42984	5.00	5.92	
12 Chloromethane	50	1.481	1.481	0.000	89	49484	5.00	6.59	
13 Vinyl chloride	62	1.600	1.600	0.000	94	47679	5.00	6.36	
14 Butadiene	54	1.623	1.623	0.000	94	46066	5.00	6.49	
15 Bromomethane	94	1.907	1.907	0.000	87	37083	5.00	6.38	
16 Ethylene oxide	44	2.049	1.955	0.094	77	6986		NC	
17 Chloroethane	64	2.002	2.002	0.000	89	29812	5.00	7.72	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	80	82631	5.00	7.20	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	96	65703	5.00	6.15	
20 Ethyl ether	59	2.641	2.641	0.000	93	29334	5.00	6.46	
21 Acrolein	56	2.818	2.818	0.000	79	14015	25.0	27.3	
22 Propene oxide	58		2.819					ND	
23 1,1-Dichloroethene	96	2.889	2.889	0.000	92	35159	5.00	6.58	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	82	24766	5.00	5.97	
25 Methylal	45		2.932					ND	
26 Acetone	43	3.031	3.031	0.000	88	34482	10.0	17.4	
27 Iodomethane	142	3.091	3.079	0.012	98	45656	5.00	6.47	
28 Carbon disulfide	76	3.150	3.150	0.000	98	73837	5.00	5.63	
29 3-Chloro-1-propene	76	3.398	3.386	0.012	81	20098	5.00	6.04	
30 Acetonitrile	41		3.434					ND	
31 Methyl acetate	43	3.481	3.469	0.012	96	107994	25.0	28.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Methylene Chloride	84	3.599	3.588	0.011	96	62145	5.00	8.03	
33 2-Methyl-2-propanol	59	3.919	3.919	0.000	32	24816	50.0	42.2	
34 trans-1,2-Dichloroethene	96	3.990	3.990	0.000	88	38782	5.00	6.24	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	93	101314	5.00	5.75	
36 Acrylonitrile	53	4.049	4.037	0.012	96	91564	50.0	54.7	
37 Hexane	86	4.404	4.404	0.000	94	8828	5.00	5.49	
38 1,1-Dichloroethane	63	4.653	4.641	0.012	85	77501	5.00	6.09	
39 2-Chloro-1,3-butadiene	53		4.759					ND	
40 Isopropyl ether	87		4.771					ND	
41 Vinyl acetate	86	4.783	4.783	0.000	89	1262	4.80	3.10	
42 Tert-butyl ethyl ether	59		5.244					ND	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	85	34920	5.00	6.58	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	70	40107	5.00	6.00	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	89	22220	10.0	10.9	
46 Ethyl acetate	43		5.564					ND	
47 Propionitrile	54		5.564					ND	
48 Chlorobromomethane	128	5.694	5.694	0.000	88	16091	5.00	5.80	
49 Methacrylonitrile	41		5.718					ND	
50 Tetrahydrofuran	42	5.741	5.741	0.000	88	16311	10.0	11.4	
51 Chloroform	83	5.800	5.800	0.000	91	73946	5.00	6.18	
52 1,1,1-Trichloroethane	97	5.954	5.954	0.000	90	61550	5.00	6.42	
53 Cyclohexane	56	5.990	5.990	0.000	45	73867	5.00	6.27	
54 Carbon tetrachloride	117	6.132	6.120	0.012	76	56399	5.00	6.38	
55 1,1-Dichloropropene	75	6.143	6.143	0.000	94	55718	5.00	6.14	
56 Benzene	78	6.356	6.356	0.000	97	156632	5.00	6.12	
57 Isobutyl alcohol	41	6.392	6.392	0.000	90	19500	125.0	114.8	
58 1,2-Dichloroethane	62	6.416	6.404	0.012	71	52361	5.00	6.30	
59 Tert-amyl methyl ether	73		6.499					ND	
60 n-Heptane	100	6.640	6.640	0.000	49	7875	5.00	5.42	
61 Trichloroethene	130	7.007	7.007	0.000	90	36130	5.00	5.79	
62 n-Butanol	56	7.055	7.043	0.012	44	1959		24.2	
64 Methylcyclohexane	83	7.161	7.161	0.000	90	73013	5.00	6.21	
63 Ethyl acrylate	55		7.161					ND	
65 1,2-Dichloropropane	63	7.244	7.232	0.012	91	36525	5.00	6.27	
66 Tetrahydrothiophene	60		7.255					ND	
67 Dibromomethane	93	7.350	7.350	0.000	80	17135	5.00	5.68	
68 Methyl methacrylate	41		7.374					ND	
69 1,4-Dioxane	88	7.386	7.386	0.000	65	5282	100.0	120.1	
70 Dichlorobromomethane	83	7.504	7.504	0.000	92	38449	5.00	5.15	
71 2-Nitropropane	41		7.741					ND	
72 2-Chloroethyl vinyl ether	63	7.800	7.800	0.000	87	21103	10.0	9.17	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.000	85	38565	5.00	4.84	
74 Epichlorohydrin	57		7.919					ND	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	70	43197	10.0	11.0	
76 Toluene	91	8.191	8.191	0.000	90	133889	5.00	5.83	
77 trans-1,3-Dichloropropene	75	8.415	8.404	0.011	89	30198	5.00	5.29	
78 Ethyl methacrylate	69	8.486	8.486	0.000	87	19547	5.00	5.31	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	93	18142	5.00	5.26	
80 Tetrachloroethene	164	8.664	8.664	0.000	79	22773	5.00	5.50	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	89	34568	5.00	5.41	
82 2-Hexanone	43	8.782	8.782	0.000	90	25837	10.0	11.1	
83 n-Butyl acetate	43		8.889					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Chlorodibromomethane	129	8.901	8.901	0.001	79	18454	5.00	4.96	
85 Ethylene Dibromide	107	8.995	8.995	0.000	89	19596	5.00	5.77	
86 1-Chlorohexane	91		9.386					ND	
87 Chlorobenzene	112	9.409	9.409	0.000	90	83016	5.00	6.35	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	85	27843	5.00	5.48	
89 Ethylbenzene	106	9.504	9.504	0.000	98	43320	5.00	5.76	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	98	50335	5.00	5.77	
91 o-Xylene	106	9.930	9.930	0.000	98	54537	5.00	5.83	
92 Styrene	104	9.954	9.954	0.000	92	65646	5.00	5.42	
93 Bromoform	173	10.119	10.119	0.000	85	9932	5.00	5.12	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	162680	5.00	6.12	
95 Cyclohexanone	55		10.344					ND	
97 Bromobenzene	156	10.510	10.510	0.000	87	28957	5.00	5.59	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.522	-0.012	58	25526	5.00	5.55	
98 1,2,3-Trichloropropane	110	10.545	10.557	-0.012	43	7136	5.00	5.04	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	44	8519	5.00	6.85	
100 N-Propylbenzene	120	10.593	10.593	0.000	96	39347	5.00	5.96	
101 2-Chlorotoluene	126	10.664	10.664	0.000	92	34047	5.00	6.09	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	94	133075	5.00	5.96	
103 4-Chlorotoluene	126	10.758	10.758	0.000	97	31608	5.00	5.90	
104 3-Ethyltoluene	105	11.007	10.920	0.087	23	873		NC	
105 tert-Butylbenzene	119	11.007	11.007	0.000	75	124470	5.00	6.17	
106 Pentachloroethane	167		11.042					ND	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	67	132588	5.00	6.03	
108 2-Ethyltoluene	105	11.196	11.168	0.028	88	177726		NC	
109 sec-Butylbenzene	105	11.196	11.196	0.000	94	177726	5.00	6.09	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	35	61475	5.00	5.76	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	73	146903	5.00	6.12	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	84	64484	5.00	6.02	
113 1,2,3-Trimethylbenzene	105		11.409					ND	
114 Benzyl chloride	126		11.492					ND	
115 n-Butylbenzene	91	11.658	11.658	0.000	97	140614	5.00	6.11	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	95	63294	5.00	6.17	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	54	4171	5.00	5.35	
118 1,3,5-Trichlorobenzene	180		12.510					ND	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	92	51582	5.00	6.55	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	92	33163	5.00	6.87	
121 Naphthalene	128	13.231	13.231	0.000	98	97854	5.00	6.18	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	93	45862	5.00	6.41	
123 2-Methylnaphthalene	142	14.095	14.095	0.000	83	10421		0.8628	
130 1,4-Dichlorobutane	1		0.000					ND	
131 Hexachloroethane TIC	1		0.000					ND	
125 Isobutylene TIC	1		0.000					ND	
124 Chlorodifluoromethane TIC	1		0.000					ND	
128 1,3-Butadiene TIC	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
129 Pentachloroethane TIC	1		0.000					ND	
127 Butyl Methacrylate TIC	1		0.000					ND	
A 132 C6-C10	1	7.550	(4.240-10.860)		0	8184054		NC	
A 133 C6-C12	1	8.508	(4.240-12.775)		0	11287257		NC	
S 134 1,2-Dichloroethene, Total	96				0		10.0	12.2	
S 135 1,3-Dichloropropene, Total	75				0		10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 Xylenes, Total	106				0		10.0	11.6	
S 137 Trihalomethanes, Total	1				0		20.0	21.4	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
s - Failed ISTD Recovery Test

Reagents:

VMRPRIMW_00121	Amount Added:	0.50	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.50	Units: uL	
VMRGAS_00097	Amount Added:	0.50	Units: uL	
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VM250SS_00030	Amount Added:	1.00	Units: uL	Run Reagent

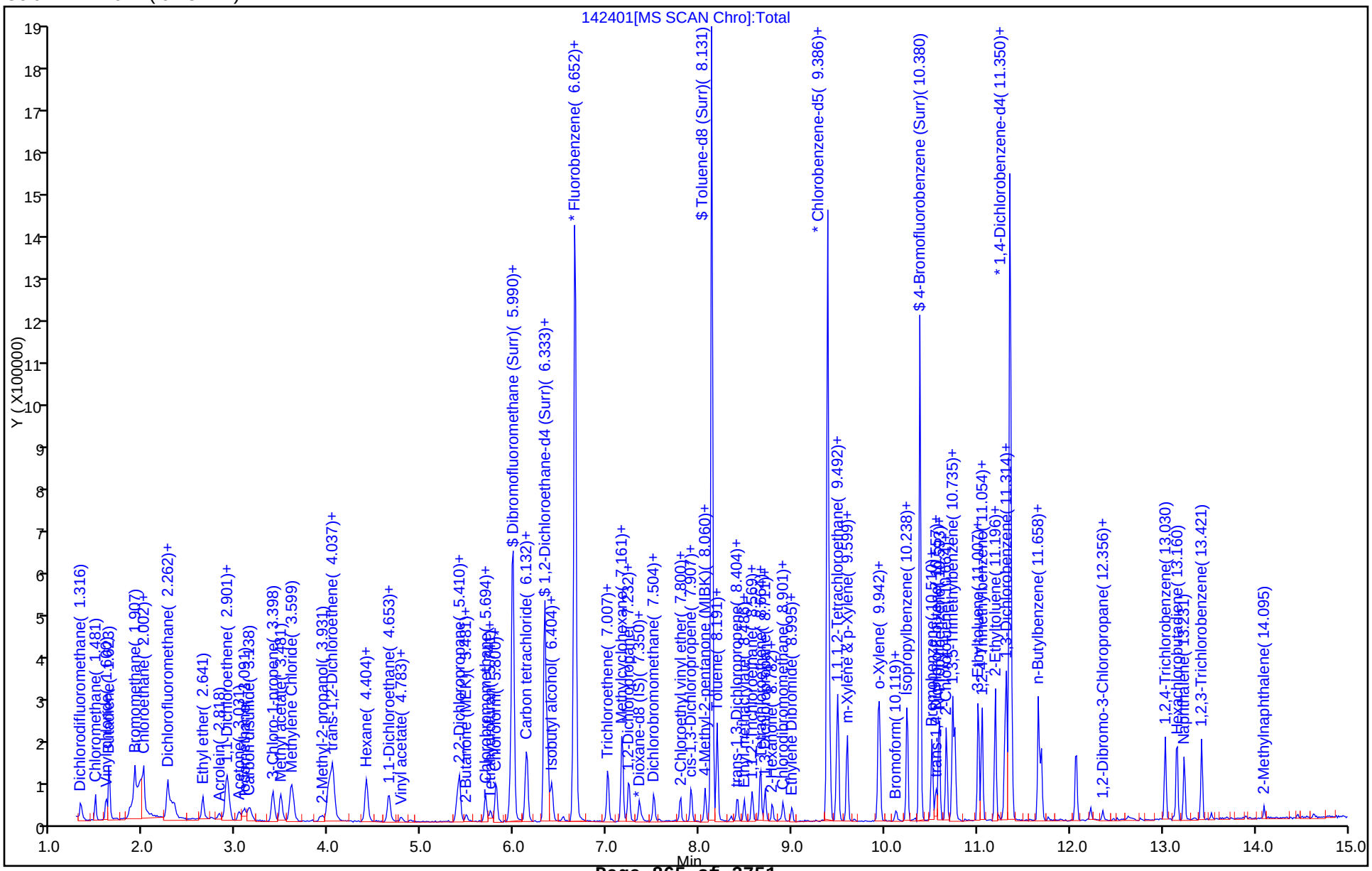
Report Date: 15-Apr-2015 13:28:50 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142401.D

Injection Date:	14-Apr-2015 14:02:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	MRL			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-176387/30

Matrix: Solid | Lab File ID: 142426.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/14/2015 23:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

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

Analysis Batch No.: 176387 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.00614		0.0010	0.00025	0.00022
79-34-5	1,1,2,2-Tetrachloroethane	0.00551		0.0010	0.00025	0.00022
79-00-5	1,1,2-Trichloroethane	0.00568		0.0010	0.00050	0.00017
75-34-3	1,1-Dichloroethane	0.00646		0.0010	0.00025	0.00026
75-35-4	1,1-Dichloroethene	0.00573		0.0010	0.00025	0.00045
107-06-2	1,2-Dichloroethane	0.00676	^	0.0010	0.00025	0.00020
540-59-0	1,2-Dichloroethene, Total	0.0116		0.0020	0.00025	0.00020
78-87-5	1,2-Dichloropropane	0.00584		0.0010	0.00025	0.00022
78-93-3	2-Butanone (MEK)	0.0125		0.010	0.00050	0.0041
591-78-6	2-Hexanone	0.0114		0.010	0.00050	0.0039
108-10-1	4-Methyl-2-pentanone (MIBK)	0.0132	^	0.010	0.00050	0.0036
67-64-1	Acetone	0.0248	^	0.010	0.0010	0.0034
71-43-2	Benzene	0.00601		0.0010	0.00025	0.00024
75-25-2	Bromoform	0.00532		0.0010	0.00050	0.00056
74-83-9	Bromomethane	0.00634		0.0010	0.00050	0.00063
75-15-0	Carbon disulfide	0.00465		0.0010	0.00025	0.00028
56-23-5	Carbon tetrachloride	0.00575		0.0010	0.00025	0.00017
108-90-7	Chlorobenzene	0.00557		0.0010	0.00025	0.00019
75-27-4	Bromodichloromethane	0.00496		0.0010	0.00025	0.00015
74-87-3	Chloromethane	0.00580		0.0010	0.00050	0.00044
10061-01-5	cis-1,3-Dichloropropene	0.00459		0.0010	0.00025	0.00046
124-48-1	Dibromochloromethane	0.00463		0.0010	0.00025	0.00043
100-41-4	Ethylbenzene	0.00583		0.0010	0.00025	0.00023
1634-04-4	Methyl tert-butyl ether	0.00590		0.0010	0.00025	0.00016
75-09-2	Methylene Chloride	0.00857	^	0.0010	0.00050	0.00028
100-42-5	Styrene	0.00523		0.0010	0.00025	0.00045
127-18-4	Tetrachloroethene	0.00555		0.0010	0.00050	0.00020
108-88-3	Toluene	0.00613		0.0010	0.00025	0.00022
67-66-3	Chloroform	0.00653	^	0.0010	0.00025	0.00021
74-97-5	Bromochloromethane	0.00561		0.0010	0.00050	0.00025
106-93-4	1,2-Dibromoethane	0.00523		0.0010	0.00025	0.00019
10061-02-6	trans-1,3-Dichloropropene	0.00503		0.0010	0.00025	0.00056
79-01-6	Trichloroethene	0.00540		0.0010	0.00025	0.00015
75-01-4	Vinyl chloride	0.00570		0.0010	0.00025	0.00029
75-00-3	Chloroethane	0.00666	^	0.0010	0.0050	0.00033
1330-20-7	Xylenes, Total	0.0110		0.0020	0.00025	0.00043

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-176387/30

Matrix: Solid Lab File ID: 142426.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/14/2015 23:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 176387 Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		50-150
2037-26-5	Toluene-d8 (Surr)	107		50-150
460-00-4	4-Bromofluorobenzene (Surr)	102		50-150
1868-53-7	Dibromofluoromethane (Surr)	98		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142426.D
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 14-Apr-2015 23:00:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mrl
Misc. Info.: 240-0042552-030240-0042552-030
Operator ID: 002808 Instrument ID: A3UX14

Method: \\NCChrom\ChromData\A3UX14\20150414-42552.b\8260_14.m
Limit Group: MSV 8260DOD ICAL
Last Update: 15-Apr-2015 13:28:47 Calib Date: 13-Apr-2015 17:39:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A3UX14\20150413-42511.b\142383.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: macenczaks Date: 15-Apr-2015 13:01:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 TBA-d9 (IS)	65		3.789					ND	
* 1 Fluorobenzene	96	6.664	6.652	0.012	99	931186	50.0	50.0	
* 4 Dioxane-d8 (IS)	96		7.339					ND	
* 2 Chlorobenzene-d5	117	9.386	9.386	0.000	96	512870	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.350	11.350	0.000	92	263710	50.0	50.0	
$ 6 Dibromofluoromethane (Surr	113	5.990	5.990	0.000	81	238175	50.0	49.0	
$ 7 1,2-Dichloroethane-d4 (Sur	65	6.333	6.333	0.000	94	318566	50.0	55.0	
$ 8 Toluene-d8 (Surr)	98	8.131	8.131	0.000	95	820786	50.0	53.7	
$ 9 4-Bromofluorobenzene (Surr	95	10.380	10.380	0.000	78	267119	50.0	50.8	
$ 10 BFB	95	3.777	4.254	-0.477	0	324		NR	
11 Dichlorodifluoromethane	85	1.316	1.316	0.000	81	34911	5.00	6.00	
12 Chloromethane	50	1.481	1.481	0.000	88	34951	5.00	5.80	
13 Vinyl chloride	62	1.600	1.600	0.000	97	34233	5.00	5.70	
14 Butadiene	54	1.635	1.623	0.012	85	29661	5.00	5.22	
15 Bromomethane	94	1.907	1.907	0.000	88	29536	5.00	6.34	
16 Ethylene oxide	44	1.990	1.955	0.035	36	11782		NC	
17 Chloroethane	64	2.002	2.002	0.000	77	20735	5.00	6.66	
18 Dichlorofluoromethane	67	2.262	2.262	0.000	80	56260	5.00	6.11	
19 Trichlorofluoromethane	101	2.298	2.298	0.000	89	42596	5.00	4.98	
20 Ethyl ether	59	2.641	2.641	0.000	91	25144	5.00	6.91	
21 Acrolein	56	2.807	2.818	-0.011	72	9008	25.0	21.9	
22 Propene oxide	58		2.819					ND	
23 1,1-Dichloroethene	96	2.901	2.889	0.012	90	24519	5.00	5.73	
24 1,1,2-Trichloro-1,2,2-trif	151	2.913	2.913	0.000	81	19694	5.00	5.92	
25 Methylal	45	2.996	2.932	0.064	77	876		NC	
26 Acetone	43	3.031	3.031	0.000	90	35164	10.0	24.8	
27 Iodomethane	142	3.091	3.079	0.012	95	33354	5.00	5.89	
28 Carbon disulfide	76	3.150	3.150	0.000	98	47471	5.00	4.65	
29 3-Chloro-1-propene	76	3.386	3.386	0.000	75	14027	5.00	5.26	
30 Acetonitrile	41		3.434					ND	
31 Methyl acetate	43	3.481	3.469	0.012	97	95410	25.0	30.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Methylene Chloride	84	3.611	3.588	0.023	88	52205	5.00	8.57	
33 2-Methyl-2-propanol	59	3.907	3.919	-0.012	88	19758	50.0	41.9	
34 trans-1,2-Dichloroethene	96	4.002	3.990	0.012	88	28056	5.00	5.64	
35 Methyl tert-butyl ether	73	4.025	4.025	0.000	89	83296	5.00	5.90	
36 Acrylonitrile	53	4.049	4.037	0.012	92	79754	50.0	59.5	
37 Hexane	86	4.404	4.404	0.000	93	6645	5.00	5.16	
38 1,1-Dichloroethane	63	4.653	4.641	0.012	94	65897	5.00	6.46	
39 2-Chloro-1,3-butadiene	53		4.759					ND	
40 Isopropyl ether	87		4.771					ND	
41 Vinyl acetate	86	4.783	4.783	0.000	88	1052	4.80	3.22	
42 Tert-butyl ethyl ether	59		5.244					ND	
43 2,2-Dichloropropane	77	5.386	5.386	0.000	90	25244	5.00	5.93	
44 cis-1,2-Dichloroethene	96	5.410	5.410	0.000	71	32162	5.00	6.00	
45 2-Butanone (MEK)	43	5.481	5.481	0.000	89	20317	10.0	12.5	
46 Ethyl acetate	43		5.564					ND	
47 Propionitrile	54		5.564					ND	
48 Chlorobromomethane	128	5.694	5.694	0.000	88	12485	5.00	5.61	
49 Methacrylonitrile	41		5.718					ND	
50 Tetrahydrofuran	42	5.741	5.741	0.000	83	12727	10.0	11.1	
51 Chloroform	83	5.812	5.800	0.012	89	62650	5.00	6.53	
52 1,1,1-Trichloroethane	97	5.966	5.954	0.012	61	47109	5.00	6.14	
53 Cyclohexane	56	5.990	5.990	0.000	46	59669	5.00	6.32	
54 Carbon tetrachloride	117	6.120	6.120	0.000	75	40743	5.00	5.75	
55 1,1-Dichloropropene	75	6.132	6.143	-0.011	84	42153	5.00	5.80	
56 Benzene	78	6.357	6.356	0.000	97	123108	5.00	6.01	
57 Isobutyl alcohol	41	6.392	6.392	0.000	71	16131	125.0	118.5	
58 1,2-Dichloroethane	62	6.404	6.404	0.000	73	45069	5.00	6.76	
59 Tert-amyl methyl ether	73		6.499					ND	
60 n-Heptane	100	6.640	6.640	0.000	48	6377	5.00	5.47	
61 Trichloroethene	130	7.019	7.007	0.012	94	27017	5.00	5.40	
62 n-Butanol	56		7.043					ND	
64 Methylcyclohexane	83	7.161	7.161	0.000	87	55161	5.00	5.85	
63 Ethyl acrylate	55		7.161					ND	
65 1,2-Dichloropropane	63	7.244	7.232	0.012	90	27248	5.00	5.84	
66 Tetrahydrothiophene	60		7.255					ND	
67 Dibromomethane	93	7.350	7.350	0.000	81	15218	5.00	6.30	
68 Methyl methacrylate	41		7.374					ND	
69 1,4-Dioxane	88	7.386	7.386	0.000	49	2290	100.0	65.0	
70 Dichlorobromomethane	83	7.504	7.504	0.000	90	29664	5.00	4.96	
71 2-Nitropropane	41		7.741					ND	
72 2-Chloroethyl vinyl ether	63	7.800	7.800	0.000	87	19024	10.0	10.3	
73 cis-1,3-Dichloropropene	75	7.907	7.907	0.000	80	29314	5.00	4.59	
74 Epichlorohydrin	57		7.919					ND	
75 4-Methyl-2-pentanone (MIBK	43	8.060	8.060	0.000	70	40214	10.0	13.2	
76 Toluene	91	8.191	8.191	0.000	89	109423	5.00	6.13	
77 trans-1,3-Dichloropropene	75	8.415	8.404	0.011	84	22301	5.00	5.03	
78 Ethyl methacrylate	69	8.486	8.486	0.000	84	16106	5.00	5.62	
79 1,1,2-Trichloroethane	97	8.569	8.569	0.000	82	15249	5.00	5.68	
80 Tetrachloroethene	164	8.664	8.664	0.000	80	17874	5.00	5.55	
81 1,3-Dichloropropane	76	8.711	8.711	0.000	96	29654	5.00	5.97	
82 2-Hexanone	43	8.782	8.782	0.000	87	20583	10.0	11.4	
83 n-Butyl acetate	43		8.889					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Chlorodibromomethane	129	8.901	8.901	0.001	78	13423	5.00	4.63	
85 Ethylene Dibromide	107	8.995	8.995	0.000	87	13814	5.00	5.23	
86 1-Chlorohexane	91		9.386					ND	
87 Chlorobenzene	112	9.409	9.409	0.000	81	56654	5.00	5.57	
88 1,1,1,2-Tetrachloroethane	131	9.480	9.480	0.000	83	23031	5.00	5.83	
89 Ethylbenzene	106	9.492	9.504	-0.012	99	34102	5.00	5.83	
90 m-Xylene & p-Xylene	106	9.599	9.599	0.000	98	38092	5.00	5.62	
91 o-Xylene	106	9.930	9.930	0.000	97	38854	5.00	5.34	
92 Styrene	104	9.954	9.954	0.000	90	49307	5.00	5.23	
93 Bromoform	173	10.119	10.119	0.000	84	8097	5.00	5.32	
94 Isopropylbenzene	105	10.238	10.238	0.000	97	123103	5.00	5.95	
95 Cyclohexanone	55		10.344					ND	
97 Bromobenzene	156	10.510	10.510	0.000	85	23189	5.00	5.86	
96 1,1,2,2-Tetrachloroethane	83	10.510	10.522	-0.012	54	19353	5.00	5.51	
98 1,2,3-Trichloropropane	110	10.557	10.557	0.000	25	5914	5.00	5.47	
99 trans-1,4-Dichloro-2-buten	53	10.557	10.557	0.000	48	4651	5.00	4.89	
100 N-Propylbenzene	120	10.593	10.593	0.000	96	24922	5.00	4.94	
101 2-Chlorotoluene	126	10.664	10.664	0.000	93	25435	5.00	5.96	
102 1,3,5-Trimethylbenzene	105	10.735	10.735	0.000	94	97994	5.00	5.75	
103 4-Chlorotoluene	126	10.758	10.758	0.000	99	22630	5.00	5.53	
104 3-Ethyltoluene	105		10.920					ND	
105 tert-Butylbenzene	119	11.007	11.007	0.000	79	91142	5.00	5.92	
106 Pentachloroethane	167		11.042					ND	
107 1,2,4-Trimethylbenzene	105	11.054	11.054	0.000	67	95784	5.00	5.70	
108 2-Ethyltoluene	105		11.168					ND	
109 sec-Butylbenzene	105	11.196	11.196	0.000	96	132958	5.00	5.96	
110 1,3-Dichlorobenzene	146	11.303	11.303	0.000	20	45031	5.00	5.52	
111 4-Isopropyltoluene	119	11.314	11.314	0.000	65	100566	5.00	5.48	
112 1,4-Dichlorobenzene	146	11.374	11.374	0.000	81	44874	5.00	5.49	
113 1,2,3-Trimethylbenzene	105		11.409					ND	
114 Benzyl chloride	126		11.492					ND	
115 n-Butylbenzene	91	11.658	11.658	0.000	95	103886	5.00	5.91	
116 1,2-Dichlorobenzene	146	11.693	11.693	0.000	94	45476	5.00	5.80	
117 1,2-Dibromo-3-Chloropropan	157	12.356	12.356	0.000	40	2423	5.00	4.07	
118 1,3,5-Trichlorobenzene	180		12.510					ND	
119 1,2,4-Trichlorobenzene	180	13.030	13.030	0.000	90	26588	5.00	4.42	
120 Hexachlorobutadiene	225	13.160	13.160	0.000	90	20694	5.00	5.62	
121 Naphthalene	128	13.231	13.231	0.000	97	58971	5.00	4.88	
122 1,2,3-Trichlorobenzene	180	13.421	13.421	0.000	86	27437	5.00	5.02	
123 2-Methylnaphthalene	142		14.095					ND	
130 1,4-Dichlorobutane	1		0.000					ND	
131 Hexachloroethane TIC	1		0.000					ND	
125 Isobutylene TIC	1		0.000					ND	
124 Chlorodifluoromethane TIC	1		0.000					ND	
128 1,3-Butadiene TIC	1		0.000					ND	
126 1,3-Diethylbenzene TIC	1		0.000					ND	
129 Pentachloroethane TIC	1		0.000					ND	
127 Butyl Methacrylate TIC	1		0.000					ND	
A 132 C6-C10	1	7.550	(4.240-10.860)		0	6734575			NC
A 133 C6-C12	1	8.508	(4.240-12.775)		0	9047979			NC
S 134 1,2-Dichloroethene, Total	96				0		10.0	11.6	
S 135 1,3-Dichloropropene, Total	75				0		10.0	9.61	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 Xylenes, Total	106				0		10.0	11.0	
S 137 Trihalomethanes, Total	1				0		20.0	21.4	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VMRGAS_00097	Amount Added:	0.50	Units: uL	
VMAROLISTDW_00095	Amount Added:	0.50	Units: uL	
VMRPRIMW_00121	Amount Added:	0.50	Units: uL	
vmDist_H2o_00046	Amount Added:	0.00	Units:	Run Reagent
VM250-IS_00028	Amount Added:	1.00	Units: uL	Run Reagent
VM250SS_00030	Amount Added:	1.00	Units: uL	Run Reagent

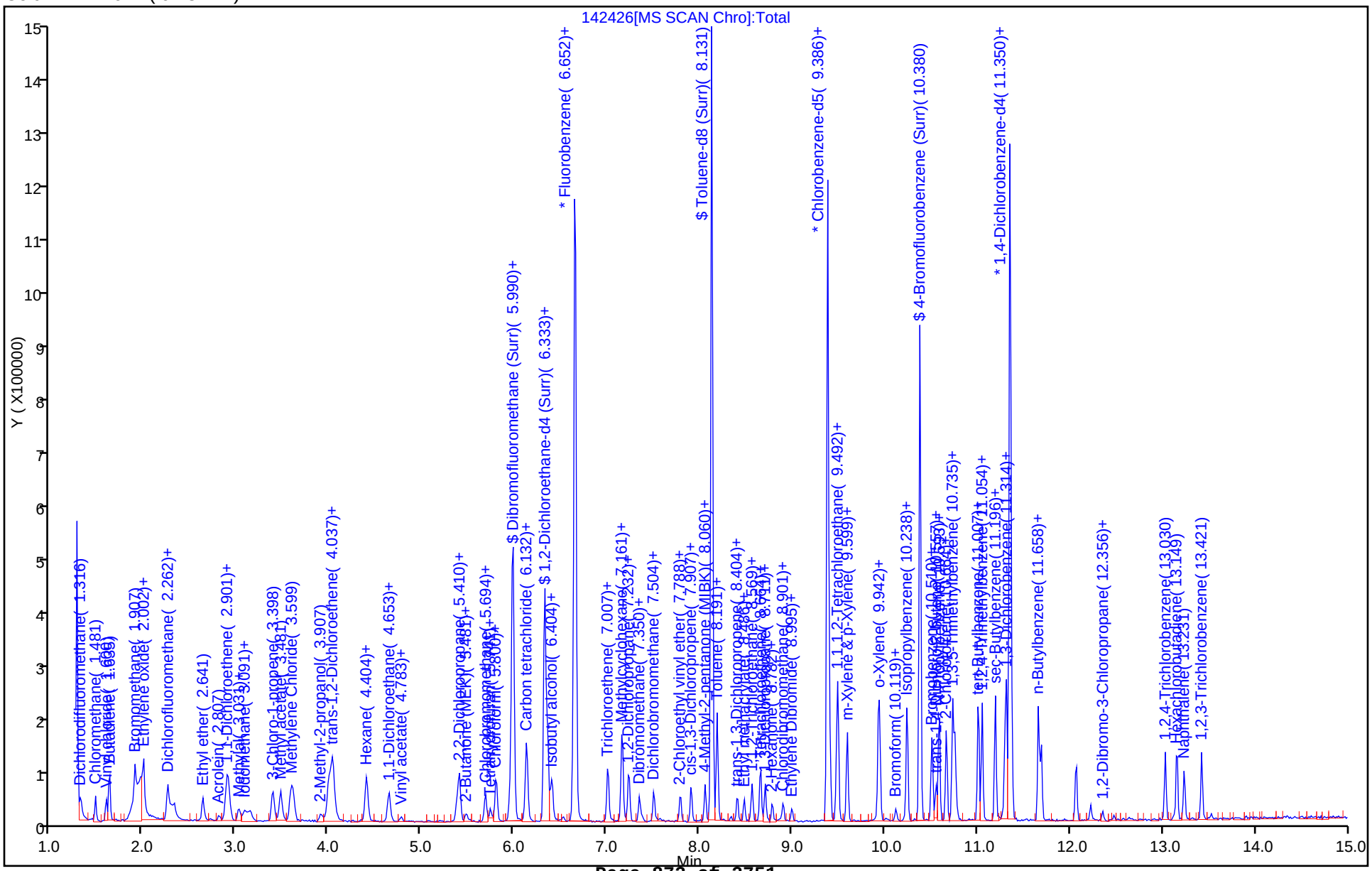
Report Date: 15-Apr-2015 13:29:15 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A3UX14\20150414-42552.b\142426.D

Injection Date:	14-Apr-2015 23:00:30	Instrument ID:	A3UX14	Operator ID:	002808
Lims ID:	mrl			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260_14	Limit Group:	MSV 8260DOD ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 Start Date: 03/02/2015 23:39

Analysis Batch Number: 170352 End Date: 03/03/2015 04:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-170352/1		03/02/2015 23:39	1	BFB8752.D	DB-624 0.18(mm)
STD8260 240-170352/3 IC		03/03/2015 00:12	1	UX86154.D	DB-624 0.18(mm)
STD8260 240-170352/4 IC		03/03/2015 00:34	1	UX86155.D	DB-624 0.18(mm)
STD8260 240-170352/5 IC		03/03/2015 00:55	1	UX86156.D	DB-624 0.18(mm)
ICIS 240-170352/6		03/03/2015 01:34	1	UX86157.D	DB-624 0.18(mm)
STD8260 240-170352/7 IC		03/03/2015 01:56	1	UX86158.D	DB-624 0.18(mm)
STD8260 240-170352/8 IC		03/03/2015 02:17	1	UX86159.D	DB-624 0.18(mm)
STD8260 240-170352/9 IC		03/03/2015 02:38	1	UX86160.D	DB-624 0.18(mm)
STD8260 240-170352/10 IC		03/03/2015 03:00	1	UX86161.D	DB-624 0.18(mm)
ICV 240-170352/11		03/03/2015 03:21	1	UX86162.D	DB-624 0.18(mm)
ZZZZZ		03/03/2015 03:43	1		DB-624 0.18(mm)
ZZZZZ		03/03/2015 04:04	1		DB-624 0.18(mm)
ZZZZZ		03/03/2015 04:25	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 Start Date: 04/08/2015 12:22

Analysis Batch Number: 175604 End Date: 04/08/2015 17:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-175604/1		04/08/2015 12:22	1	BFB4271.D	DB-624 0.18(mm)
STD8260 240-175604/2 IC		04/08/2015 12:59	1	UXM7066.D	DB-624 0.18(mm)
STD8260 240-175604/3 IC		04/08/2015 13:22	1	UXM7067.D	DB-624 0.18(mm)
STD8260 240-175604/4 ICIS		04/08/2015 13:44	1	UXM7068.D	DB-624 0.18(mm)
STD8260 240-175604/5 IC		04/08/2015 14:07	1	UXM7069.D	DB-624 0.18(mm)
STD8260 240-175604/6 IC		04/08/2015 14:30	1	UXM7070.D	DB-624 0.18(mm)
STD8260 240-175604/7 IC		04/08/2015 14:53	1	UXM7071.D	DB-624 0.18(mm)
ICV 240-175604/8		04/08/2015 15:15	1	UXM7072.D	DB-624 0.18(mm)
STDA9 240-175604/9 IC		04/08/2015 15:38	1		DB-624 0.18(mm)
STDA9 240-175604/10 IC		04/08/2015 16:01	1		DB-624 0.18(mm)
STDA9 240-175604/11 IC		04/08/2015 16:24	1		DB-624 0.18(mm)
STDA9 240-175604/12 IC		04/08/2015 16:46	1		DB-624 0.18(mm)
STDA9 240-175604/13 IC		04/08/2015 17:09	1		DB-624 0.18(mm)
STDA9 240-175604/14 IC		04/08/2015 17:32	1		DB-624 0.18(mm)
ICV 240-175604/15		04/08/2015 17:55	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A3UX16 Start Date: 04/09/2015 09:53

Analysis Batch Number: 175731 End Date: 04/09/2015 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-175731/1		04/09/2015 09:53	1	BFB4272.D	DB-624 0.18(mm)
CCV 240-175731/2		04/09/2015 10:35	1	UXM7081.D	DB-624 0.18(mm)
LCS 240-175731/4		04/09/2015 11:20	1	UXM7083.D	DB-624 0.18(mm)
MRL 240-175731/5		04/09/2015 11:43	1	UXM7084.D	DB-624 0.18(mm)
MB 240-175731/6		04/09/2015 12:06	1	UXM7085.D	DB-624 0.18(mm)
ZZZZZ		04/09/2015 12:28	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 12:51	16.67		DB-624 0.18(mm)
ZZZZZ		04/09/2015 13:14	1		DB-624 0.18(mm)
240-49071-5	079SS-0379-0001-TB	04/09/2015 13:37	1	UXM7089.D	DB-624 0.18(mm)
ZZZZZ		04/09/2015 14:00	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 14:23	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 14:45	1		DB-624 0.18(mm)
ZZZZZ		04/09/2015 15:08	1		DB-624 0.18(mm)
MRL 240-175731/15		04/09/2015 15:31	1	UXM7094.D	DB-624 0.18(mm)
LODV 240-175731/16		04/09/2015 15:54	1	UXM7095.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A3UX8 Start Date: 04/11/2015 00:44

Analysis Batch Number: 176026 End Date: 04/11/2015 12:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-176026/1		04/11/2015 00:44	1	BFB8784.D	DB-624 0.18(mm)
CCV 240-176026/4		04/11/2015 01:15	1	UX86937.D	DB-624 0.18(mm)
CCV 240-176026/5		04/11/2015 01:37	1	UX86938.D	DB-624 0.18(mm)
LCS 240-176026/6		04/11/2015 01:58	1	UX86939.D	DB-624 0.18(mm)
MRL 240-176026/7		04/11/2015 02:19	1	UX86940.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 02:41	1		DB-624 0.18(mm)
MB 240-175865/2-A		04/11/2015 03:04	1	UX86942.D	DB-624 0.18(mm)
240-49071-1	079SS-0342M-0001-SO	04/11/2015 03:26	1	UX86943.D	DB-624 0.18(mm)
ZZZZZ		04/11/2015 03:47	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 04:09	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 04:30	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 04:51	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 05:13	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 05:34	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 05:55	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 06:17	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 06:38	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 06:59	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 07:21	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 07:42	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:04	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:25	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 08:46	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:08	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:29	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 09:51	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 10:12	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 10:33	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 10:55	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 11:16	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 11:37	1		DB-624 0.18(mm)
ZZZZZ		04/11/2015 11:59	1		DB-624 0.18(mm)
MRL 240-176026/35		04/11/2015 12:20	1	UX86968.D	DB-624 0.18(mm)
MDLV 240-176026/36		04/11/2015 12:42	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 Start Date: 04/13/2015 14:04

Analysis Batch Number: 176233 End Date: 04/13/2015 21:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-176233/1		04/13/2015 14:04	1	BFB14922.D	DB-624 0.18(mm)
IC 240-176233/3		04/13/2015 14:47	1	142375.D	DB-624 0.18(mm)
IC 240-176233/4		04/13/2015 15:08	1	142376.D	DB-624 0.18(mm)
IC 240-176233/5		04/13/2015 15:30	1	142377.D	DB-624 0.18(mm)
ICIS 240-176233/6		04/13/2015 15:52	1	142378.D	DB-624 0.18(mm)
IC 240-176233/7		04/13/2015 16:13	1	142379.D	DB-624 0.18(mm)
IC 240-176233/8		04/13/2015 16:34	1	142380.D	DB-624 0.18(mm)
IC 240-176233/9		04/13/2015 16:56	1	142381.D	DB-624 0.18(mm)
IC 240-176233/10		04/13/2015 17:17	1	142382.D	DB-624 0.18(mm)
IC 240-176233/11		04/13/2015 17:39	1	142383.D	DB-624 0.18(mm)
ICV 240-176233/12		04/13/2015 18:00	1	142384.D	DB-624 0.18(mm)
CCV 240-176233/13		04/13/2015 18:22	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:26	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 19:48	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 20:09	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 20:52	1		DB-624 0.18(mm)
ZZZZZ		04/13/2015 21:14	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A3UX14 Start Date: 04/14/2015 12:15

Analysis Batch Number: 176387 End Date: 04/14/2015 23:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-176387/1		04/14/2015 12:15	1	BFB14924.D	DB-624 0.18(mm)
CCV 240-176387/3		04/14/2015 12:58	1	142398.D	DB-624 0.18(mm)
CCV 240-176387/4		04/14/2015 13:19	1	142399.D	DB-624 0.18(mm)
LCS 240-176387/5		04/14/2015 13:41	1	142400.D	DB-624 0.18(mm)
MRL 240-176387/6		04/14/2015 14:02	1	142401.D	DB-624 0.18(mm)
MDLV 240-176387/7		04/14/2015 14:24	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 15:07	1		DB-624 0.18(mm)
MB 240-176387/33		04/14/2015 15:28	1	142405.D	DB-624 0.18(mm)
ZZZZZ		04/14/2015 15:50	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 16:12	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 16:33	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 16:55	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 17:16	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 17:38	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 17:59	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 18:20	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 18:42	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 19:03	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 19:25	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 19:46	1		DB-624 0.18(mm)
240-49071-1	079SS-0342M-0001-SO	04/14/2015 20:08	1	142418.D	DB-624 0.18(mm)
ZZZZZ		04/14/2015 20:29	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 20:51	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 21:12	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 21:34	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 21:55	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 22:17	1		DB-624 0.18(mm)
ZZZZZ		04/14/2015 22:38	1		DB-624 0.18(mm)
MRL 240-176387/30		04/14/2015 23:00	1	142426.D	DB-624 0.18(mm)
MDLV 240-176387/31		04/14/2015 23:21	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 175865 Batch Start Date: 04/10/15 04:24 Batch Analyst: Lata, Todd

Batch Method: 5035 Batch End Date: 04/10/15 05:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
MB 240-175865/2		5035, 8260B		0 g	5 g	5 g	5 mL		
240-49071-B-1	079SS-0342M-0001-SO	5035, 8260B	T	+030.940 g	36.92 g	5.98 g	5 mL		
240-49071-C-1	079SS-0342M-0001-SO	5035, 8260B	T	+030.926 g	38.03 g	7.104 g	5 mL		

Batch Notes	
Balance ID	B035
Blank Sand Lot #	144816

Basis	Basis Description
T	Total/NA

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

Method 8270C DOD

Semivolatile Compounds (GC/MS) by Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
079SS-0342M-0001,0002-SO	240-49071-2	80	79	65	72	78	75
	MB 240-176319/23-A	67	76	68	75	36	75
	LCS 240-176319/24-A	81	81	74	76	63	83

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	35-105
PHL = Phenol-d5 (Surr)	40-100
NBZ = Nitrobenzene-d5 (Surr)	35-100
FBP = 2-Fluorobiphenyl (Surr)	45-105
TBP = 2,4,6-Tribromophenol (Surr)	35-125
TPH = Terphenyl-d14 (Surr)	30-125

Column to be used to flag recovery values

FORM II 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
	MRL 240-177355/3	106	100	93	99	103	95
	MRL 240-177355/18	104	101	95	99	106	95

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	50-150
PHL = Phenol-d5 (Surr)	50-150
NBZ = Nitrobenzene-d5 (Surr)	50-150
FBP = 2-Fluorobiphenyl (Surr)	50-150
TBP = 2,4,6-Tribromophenol (Surr)	50-150
TPH = Terphenyl-d14 (Surr)	50-150

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 50422007.D

Lab ID: LCS 240-176319/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	540	81	45-110	
Acenaphthylene	667	526	79	45-105	
Anthracene	667	584	88	55-105	
Benzo[a]anthracene	667	580	87	50-110	
Benzo[a]pyrene	667	592	89	50-110	
Benzo[b]fluoranthene	667	588	88	45-115	
Benzo[g,h,i]perylene	667	586	88	40-125	
Benzoic acid	1330	172 J	13	0-110	
Benzo[k]fluoranthene	667	600	90	45-125	
Benzyl alcohol	667	518	78	20-125	
Bis(2-chloroethoxy)methane	667	562	84	45-110	
Bis(2-chloroethyl)ether	667	525	79	40-105	
bis (2-chloroisopropyl) ether	667	612	92	20-115	
Bis(2-ethylhexyl) phthalate	667	610	92	45-125	
4-Bromophenyl phenyl ether	667	613	92	45-115	
Butyl benzyl phthalate	667	577	86	50-125	
Carbazole	667	625	94	45-115	
4-Chloroaniline	667	439	66	10-110	
4-Chloro-3-methylphenol	667	566	85	45-115	
2-Chloronaphthalene	667	526	79	45-105	
2-Chlorophenol	667	529	79	45-105	
4-Chlorophenyl phenyl ether	667	548	82	45-110	
Chrysene	667	613	92	55-110	
Dibenz(a,h)anthracene	667	587	88	40-125	
Dibenzofuran	667	550	82	50-105	
1,2-Dichlorobenzene	667	503	75	45-110	
1,3-Dichlorobenzene	667	492	74	40-100	
1,4-Dichlorobenzene	667	477	72	35-105	
3,3'-Dichlorobenzidine	1330	976	73	10-130	
2,4-Dichlorophenol	667	537	81	45-110	
Diethyl phthalate	667	550	82	50-115	
2,4-Dimethylphenol	667	375	56	30-105	
Dimethyl phthalate	667	574	86	50-110	
Di-n-butyl phthalate	667	650	98	55-110	
4,6-Dinitro-2-methylphenol	1330	798	60	30-135	
2,4-Dinitrophenol	1330	472	35	15-130	
2,4-Dinitrotoluene	667	572	86	50-115	
2,6-Dinitrotoluene	667	563	85	50-110	
Di-n-octyl phthalate	667	588	88	40-130	
Fluoranthene	667	633	95	55-115	
Fluorene	667	539	81	50-110	
Hexachlorobenzene	667	567	85	45-120	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 50422007.D

Lab ID: LCS 240-176319/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	667	465	70	40-115	
Hexachlorocyclopentadiene	667	296 J	44	12-110	
Hexachloroethane	667	483	72	35-110	
Indeno[1,2,3-cd]pyrene	667	602	90	40-120	
Isophorone	667	526	79	45-110	
2-Methylnaphthalene	667	500	75	45-105	
2-Methylphenol	667	531	80	40-105	
3 & 4 Methylphenol	667	549	82	40-105	
Naphthalene	667	514	77	40-105	
2-Nitroaniline	667	587	88	45-120	
3-Nitroaniline	667	572	86	25-110	
4-Nitroaniline	667	575	86	35-115	
Nitrobenzene	667	515	77	40-115	
2-Nitrophenol	667	497	75	40-110	
4-Nitrophenol	1330	1040	78	15-140	
N-Nitrosodi-n-propylamine	667	539	81	40-115	
N-Nitrosodiphenylamine	1330	1230	92	50-115	
Pentachlorophenol	1330	770	58	25-120	
Phenanthrene	667	568	85	50-110	
Phenol	667	551	83	40-100	
Pyrene	667	592	89	45-125	
1,2,4-Trichlorobenzene	667	497	74	45-110	
2,4,5-Trichlorophenol	667	497	74	50-110	
2,4,6-Trichlorophenol	667	442	66	45-110	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: 50422003.D

Lab ID: MRL 240-177355/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	4.98	100	70-130	
Acenaphthylene	5.00	5.15	103	70-130	
Anthracene	5.00	4.89	98	70-130	
Benzo[a]anthracene	5.00	4.77	95	70-130	
Benzo[a]pyrene	5.00	4.86	97	70-130	
Benzo[b]fluoranthene	5.00	4.86	97	70-130	
Benzo[g,h,i]perylene	5.00	4.98	100	70-130	
Benzoic acid	10.0	9.19	92	70-130	M
Benzo[k]fluoranthene	5.00	4.88	98	70-130	
Benzyl alcohol	5.00	4.79	96	70-130	
Bis(2-chloroethoxy)methane	5.00	5.15	103	70-130	
Bis(2-chloroethyl)ether	5.00	5.13	103	70-130	
bis (2-chloroisopropyl) ether	5.00	5.31	106	70-130	
Bis(2-ethylhexyl) phthalate	5.00	5.03	101	70-130	
4-Bromophenyl phenyl ether	5.00	5.11	102	70-130	
Butyl benzyl phthalate	5.00	4.88	98	70-130	
Carbazole	5.00	4.78	96	70-130	
4-Chloroaniline	5.00	4.97	99	70-130	
4-Chloro-3-methylphenol	5.00	4.99	100	70-130	
2-Chloronaphthalene	5.00	4.96	99	70-130	
2-Chlorophenol	5.00	4.86	97	70-130	
4-Chlorophenyl phenyl ether	5.00	4.94	99	70-130	
Chrysene	5.00	4.97	99	70-130	
Dibenz(a,h)anthracene	5.00	4.94	99	70-130	
Dibenzofuran	5.00	5.05	101	70-130	
1,2-Dichlorobenzene	5.00	4.99	100	70-130	
1,3-Dichlorobenzene	5.00	4.96	99	70-130	
1,4-Dichlorobenzene	5.00	5.09	102	70-130	
3,3'-Dichlorobenzidine	10.0	9.89	99	70-130	
2,4-Dichlorophenol	5.00	4.77	95	70-130	
Diethyl phthalate	5.00	5.07	101	70-130	
2,4-Dimethylphenol	5.00	4.99	100	70-130	
Dimethyl phthalate	5.00	5.02	100	70-130	
Di-n-butyl phthalate	5.00	4.93	99	70-130	
4,6-Dinitro-2-methylphenol	10.0	8.81	88	70-130	
2,4-Dinitrophenol	10.0	8.42	84	70-130	
2,4-Dinitrotoluene	5.00	4.95	99	70-130	
2,6-Dinitrotoluene	5.00	5.04	101	70-130	
Di-n-octyl phthalate	5.00	4.79	96	70-130	
Fluoranthene	5.00	4.86	97	70-130	
Fluorene	5.00	5.12	102	70-130	
Hexachlorobenzene	5.00	4.79	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: 50422003.D

Lab ID: MRL 240-177355/3 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.57	91	70-130	
Hexachlorocyclopentadiene	5.00	4.42	88	70-130	
Hexachloroethane	5.00	5.00	100	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.98	100	70-130	
Isophorone	5.00	4.90	98	70-130	
2-Methylnaphthalene	5.00	4.69	94	70-130	
2-Methylphenol	5.00	5.26	105	70-130	
3 & 4 Methylphenol	5.00	5.08	102	70-130	
Naphthalene	5.00	4.83	97	70-130	
2-Nitroaniline	5.00	5.27	105	70-130	
3-Nitroaniline	5.00	5.51	110	70-130	
4-Nitroaniline	5.00	5.03	101	70-130	
Nitrobenzene	5.00	4.76	95	70-130	
2-Nitrophenol	5.00	4.75	95	70-130	
4-Nitrophenol	10.0	9.44	94	70-130	
N-Nitrosodi-n-propylamine	5.00	5.03	101	70-130	
N-Nitrosodiphenylamine	10.0	10.6	106	70-130	
Pentachlorophenol	10.0	8.73	87	70-130	
Phenanthrene	5.00	4.90	98	70-130	
Phenol	5.00	5.20	104	70-130	
Pyrene	5.00	4.76	95	70-130	
1,2,4-Trichlorobenzene	5.00	4.85	97	70-130	
2,4,5-Trichlorophenol	5.00	5.11	102	70-130	
2,4,6-Trichlorophenol	5.00	4.92	98	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: 50422018.D

Lab ID: MRL 240-177355/18 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Acenaphthene	5.00	5.11	102	70-130	
Acenaphthylene	5.00	5.13	103	70-130	
Anthracene	5.00	5.06	101	70-130	
Benzo[a]anthracene	5.00	4.78	96	70-130	
Benzo[a]pyrene	5.00	4.88	98	70-130	
Benzo[b]fluoranthene	5.00	4.96	99	70-130	
Benzo[g,h,i]perylene	5.00	4.78	96	70-130	
Benzoic acid	10.0	7.20	72	70-130	M
Benzo[k]fluoranthene	5.00	4.71	94	70-130	
Benzyl alcohol	5.00	4.60	92	70-130	
Bis(2-chloroethoxy)methane	5.00	5.34	107	70-130	
Bis(2-chloroethyl)ether	5.00	4.94	99	70-130	
bis (2-chloroisopropyl) ether	5.00	5.57	111	70-130	
Bis(2-ethylhexyl) phthalate	5.00	4.97	99	70-130	
4-Bromophenyl phenyl ether	5.00	4.99	100	70-130	
Butyl benzyl phthalate	5.00	4.81	96	70-130	
Carbazole	5.00	4.87	97	70-130	
4-Chloroaniline	5.00	5.14	103	70-130	
4-Chloro-3-methylphenol	5.00	4.83	97	70-130	
2-Chloronaphthalene	5.00	4.99	100	70-130	
2-Chlorophenol	5.00	4.92	98	70-130	
4-Chlorophenyl phenyl ether	5.00	5.04	101	70-130	
Chrysene	5.00	5.07	101	70-130	
Dibenz(a,h)anthracene	5.00	4.81	96	70-130	
Dibenzofuran	5.00	5.14	103	70-130	
1,2-Dichlorobenzene	5.00	5.01	100	70-130	
1,3-Dichlorobenzene	5.00	4.88	98	70-130	
1,4-Dichlorobenzene	5.00	4.98	100	70-130	
3,3'-Dichlorobenzidine	10.0	9.70	97	70-130	
2,4-Dichlorophenol	5.00	4.95	99	70-130	
Diethyl phthalate	5.00	5.30	106	70-130	
2,4-Dimethylphenol	5.00	4.93	99	70-130	
Dimethyl phthalate	5.00	5.18	104	70-130	
Di-n-butyl phthalate	5.00	4.81	96	70-130	
4,6-Dinitro-2-methylphenol	10.0	4.67	47	70-130	^
2,4-Dinitrophenol	10.0	3.89	39	70-130	^
2,4-Dinitrotoluene	5.00	5.09	102	70-130	
2,6-Dinitrotoluene	5.00	4.95	99	70-130	
Di-n-octyl phthalate	5.00	4.81	96	70-130	
Fluoranthene	5.00	4.76	95	70-130	
Fluorene	5.00	5.18	104	70-130	
Hexachlorobenzene	5.00	4.64	93	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: 50422018.D

Lab ID: MRL 240-177355/18 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Hexachlorobutadiene	5.00	4.73	95	70-130	
Hexachlorocyclopentadiene	5.00	3.15	63	70-130	^
Hexachloroethane	5.00	5.10	102	70-130	
Indeno[1,2,3-cd]pyrene	5.00	4.82	96	70-130	
Isophorone	5.00	5.00	100	70-130	
2-Methylnaphthalene	5.00	4.81	96	70-130	
2-Methylphenol	5.00	5.22	104	70-130	
3 & 4 Methylphenol	5.00	5.13	103	70-130	
Naphthalene	5.00	4.81	96	70-130	
2-Nitroaniline	5.00	5.25	105	70-130	
3-Nitroaniline	5.00	5.78	116	70-130	
4-Nitroaniline	5.00	5.23	105	70-130	
Nitrobenzene	5.00	4.91	98	70-130	
2-Nitrophenol	5.00	4.71	94	70-130	
4-Nitrophenol	10.0	9.26	93	70-130	
N-Nitrosodi-n-propylamine	5.00	5.17	103	70-130	
N-Nitrosodiphenylamine	10.0	10.2	102	70-130	
Pentachlorophenol	10.0	6.27	63	70-130	^
Phenanthrene	5.00	4.95	99	70-130	
Phenol	5.00	5.15	103	70-130	
Pyrene	5.00	4.82	96	70-130	
1,2,4-Trichlorobenzene	5.00	4.81	96	70-130	
2,4,5-Trichlorophenol	5.00	5.09	102	70-130	
2,4,6-Trichlorophenol	5.00	5.01	100	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: 50422006.D Lab Sample ID: MB 240-176319/23-A

Matrix: Solid Date Extracted: 04/14/2015 08:47

Instrument ID: A4HP9 Date Analyzed: 04/22/2015 09:19

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-176319/24-A	50422007.D	04/22/2015 09:44
079SS-0342M-0001,0002-SO	240-49071-2	50422017.D	04/22/2015 13:54

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: 50420001.D DFTPP Injection Date: 04/20/2015

Instrument ID: A4HP9 DFTPP Injection Time: 08:28

Analysis Batch No.: 177011

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	42.8	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	67.0	
70	Less than 2.0% of mass 69	0.3	(0.5)1
127	25.0 - 75.0% of mass 198	51.8	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.3	
275	10.0- 30.0% of mass 198	22.7	
365	Greater than 0.75% of mass 198	2.5	
441	Present, but less than mass 443	9.7	
442	40.0 - 110.0% of mass 198	55.2	
443	15.0 - 24.0% of mass 442	10.7	(19.4)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD5 240-177011/2	50420002.D	04/20/2015	08:49
	STD4 240-177011/3	50420003.D	04/20/2015	09:14
	STD3 240-177011/4	50420004.D	04/20/2015	09:40
	STD2 240-177011/5	50420005.D	04/20/2015	10:05
	STD1 240-177011/6	50420006.D	04/20/2015	10:31
	STD9 240-177011/7	50420007.D	04/20/2015	10:56
	STD8 240-177011/8	50420008.D	04/20/2015	11:22
	STD7 240-177011/9	50420009.D	04/20/2015	11:47
	STD6 240-177011/10	50420010.D	04/20/2015	12:41
	ICV 240-177011/11	50420011.D	04/20/2015	13:07

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: 50422001.D DFTPP Injection Date: 04/22/2015

Instrument ID: A4HP9 DFTPP Injection Time: 07:14

Analysis Batch No.: 177355

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	43.0	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	65.4	
70	Less than 2.0% of mass 69	0.3	(0.5)1
127	25.0 - 75.0% of mass 198	49.9	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.5	
275	10.0- 30.0% of mass 198	21.4	
365	Greater than 0.75% of mass 198	2.3	
441	Present, but less than mass 443	9.5	
442	40.0 - 110.0% of mass 198	58.6	
443	15.0 - 24.0% of mass 442	11.2	(19.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-177355/2	50422002.D	04/22/2015	07:35
	MRL 240-177355/3	50422003.D	04/22/2015	08:04
	MB 240-176319/23-A	50422006.D	04/22/2015	09:19
	LCS 240-176319/24-A	50422007.D	04/22/2015	09:44
079SS-0342M-0001,0002-SO	240-49071-2	50422017.D	04/22/2015	13:54
	MRL 240-177355/18	50422018.D	04/22/2015	14:44
	LODV 240-177355/19	50422019.D	04/22/2015	15:09
	LODV 240-177355/20	50422020.D	04/22/2015	15:34
	LODV 240-177355/21	50422021.D	04/22/2015	15:59
	LODV 240-177355/48	50422048.D	04/22/2015	16:24

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD6 240-177011/10 Date Analyzed: 04/20/2015 12:41

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 50420010.D Heated Purge: (Y/N) N

Calibration ID: 28003

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		121080	6.38	389871	7.50	235173	9.00
UPPER LIMIT		242160	6.88	779742	8.00	470346	9.50
LOWER LIMIT		60540	5.88	194936	7.00	117587	8.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-177011/11		139492	6.38	581350	7.49	360913	9.00
CCV 240-177355/2		166687	6.36	637603	7.48	378863	8.98
MRL 240-177355/3		169748	6.36	645991	7.48	374768	8.98
MB 240-176319/23-A		143068	6.36	572933	7.48	341331	8.98
LCS 240-176319/24-A		140444	6.36	538696	7.47	324458	8.98
240-49071-2	079SS-0342M-0001,0002 -SO	139084	6.36	550113	7.48	335287	8.98
MRL 240-177355/18		137008	6.36	518106	7.47	303962	8.98
LODV 240-177355/19		132477	6.36	498903	7.47	270237	8.98
LODV 240-177355/20		132087	6.36	501206	7.48	281968	8.98
LODV 240-177355/21		150345	6.36	584537	7.47	332031	8.98
LODV 240-177355/48		135018	6.36	489715	7.47	295228	8.98

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

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

Column used to flag values outside QC limits

FORM VIII 8270C

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD6 240-177011/10 Date Analyzed: 04/20/2015 12:41

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 50420010.D Heated Purge: (Y/N) N

Calibration ID: 28003

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		355837	10.27	468196	12.58	382118	14.37
UPPER LIMIT		711674	10.77	936392	13.08	764236	14.87
LOWER LIMIT		177919	9.77	234098	12.08	191059	13.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-177011/11		530764	10.27	647642	12.58	536696	14.36
CCV 240-177355/2		618691	10.25	757208	12.55	649458	14.32
MRL 240-177355/3		655408	10.25	781051	12.55	679417	14.32
MB 240-176319/23-A		623285	10.25	714118	12.55	592034	14.32
LCS 240-176319/24-A		527692	10.25	660843	12.55	555076	14.32
240-49071-2	079SS-0342M-0001,0002-SO	597059	10.25	682625	12.54	588297	14.32
MRL 240-177355/18		556122	10.25	650429	12.55	549646	14.32
LODV 240-177355/19		522151	10.25	619002	12.55	528111	14.32
LODV 240-177355/20		538368	10.25	640827	12.54	542671	14.31
LODV 240-177355/21		625991	10.25	721191	12.55	595437	14.31
LODV 240-177355/48		525307	10.25	593392	12.55	493690	14.32

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

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

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2

Matrix: Solid | Lab File ID: 50422017.D

Analysis Method: 8270C | Date Collected: 04/06/2015 16:30

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30.30(g) | Date Analyzed: 04/22/2015 13:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.3	U	6.8	3.3	0.77
208-96-8	Acenaphthylene	1.7	U	6.8	1.7	0.35
120-12-7	Anthracene	3.5	J	6.8	3.3	0.79
56-55-3	Benzo[a]anthracene	18		6.8	3.3	0.64
50-32-8	Benzo[a]pyrene	18		6.8	3.3	0.65
205-99-2	Benzo[b]fluoranthene	29		6.8	3.3	0.60
191-24-2	Benzo[g,h,i]perylene	13		6.8	1.7	0.35
65-85-0	Benzoic acid	800		670	130	36
207-08-9	Benzo[k]fluoranthene	15	M	6.8	3.3	0.69
100-51-6	Benzyl alcohol	68	U	330	68	21
111-91-1	Bis(2-chloroethoxy)methane	68	U	100	68	22
111-44-4	Bis(2-chloroethyl)ether	3.3	U	100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	34	U	100	34	9.6
117-81-7	Bis(2-ethylhexyl) phthalate	99		71	34	19
101-55-3	4-Bromophenyl phenyl ether	34	U	51	34	13
85-68-7	Butyl benzyl phthalate	34	U	71	34	10
86-74-8	Carbazole	34	U	51	34	27
106-47-8	4-Chloroaniline	68	U	150	68	17
59-50-7	4-Chloro-3-methylphenol	68	U	150	68	21
91-58-7	2-Chloronaphthalene	1.7	U	51	1.7	0.46
95-57-8	2-Chlorophenol	34	U	51	34	8.3
7005-72-3	4-Chlorophenyl phenyl ether	34	U	51	34	13
218-01-9	Chrysene	29		6.8	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	3.3	U	6.8	3.3	0.67
132-64-9	Dibenzofuran	3.3	U	51	3.3	0.67
95-50-1	1,2-Dichlorobenzene	34	U	51	34	9.8
541-73-1	1,3-Dichlorobenzene	34	U	51	34	11
106-46-7	1,4-Dichlorobenzene	34	U	51	34	20
91-94-1	3,3'-Dichlorobenzidine	68	U	100	68	18
120-83-2	2,4-Dichlorophenol	68	U	150	68	20
84-66-2	Diethyl phthalate	34	U	71	34	16
105-67-9	2,4-Dimethylphenol	68	U	150	68	20
131-11-3	Dimethyl phthalate	34	U	71	34	17
84-74-2	Di-n-butyl phthalate	15	J	71	34	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2

Matrix: Solid | Lab File ID: 50422017.D

Analysis Method: 8270C | Date Collected: 04/06/2015 16:30

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30.30(g) | Date Analyzed: 04/22/2015 13:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	34	U	150	34	9.3
51-28-5	2,4-Dinitrophenol	68	U	330	68	21
121-14-2	2,4-Dinitrotoluene	68	U	200	68	17
606-20-2	2,6-Dinitrotoluene	68	U	200	68	21
117-84-0	Di-n-octyl phthalate	34	U	71	34	8.0
206-44-0	Fluoranthene	45		6.8	3.3	0.56
86-73-7	Fluorene	3.3	U	6.8	3.3	0.54
118-74-1	Hexachlorobenzene	3.3	U	6.8	3.3	2.1
87-68-3	Hexachlorobutadiene	34	U	51	34	5.7
77-47-4	Hexachlorocyclopentadiene	34	U	330	34	8.2
67-72-1	Hexachloroethane	34	U	51	34	9.1
193-39-5	Indeno[1,2,3-cd]pyrene	12	M	6.8	1.7	0.35
78-59-1	Isophorone	64		51	34	13
91-57-6	2-Methylnaphthalene	13		6.8	3.3	0.51
95-48-7	2-Methylphenol	68	U	200	68	11
15831-10-4	3 & 4 Methylphenol	68	U	410	68	20
91-20-3	Naphthalene	12		6.8	3.3	0.83
88-74-4	2-Nitroaniline	34	U	200	34	9.2
99-09-2	3-Nitroaniline	68	U	200	68	16
100-01-6	4-Nitroaniline	68	U	200	68	26
98-95-3	Nitrobenzene	3.3	U	100	3.3	2.2
88-75-5	2-Nitrophenol	34	U	51	34	8.4
100-02-7	4-Nitrophenol	68	U	330	68	17
621-64-7	N-Nitrosodi-n-propylamine	34	U	51	34	6.4
86-30-6	N-Nitrosodiphenylamine	34	U	51	34	21
87-86-5	Pentachlorophenol	34	U	150	34	9.2
85-01-8	Phenanthrene	25		6.8	3.3	0.74
108-95-2	Phenol	34	U	51	34	7.4
129-00-0	Pyrene	36		6.8	1.7	0.45
120-82-1	1,2,4-Trichlorobenzene	17	U	51	17	3.5
95-95-4	2,4,5-Trichlorophenol	68	U	150	68	25
88-06-2	2,4,6-Trichlorophenol	34	U	150	34	9.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2

Matrix: Solid Lab File ID: 50422017.D

Analysis Method: 8270C Date Collected: 04/06/2015 16:30

Extract. Method: 3540C Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30.30(g) Date Analyzed: 04/22/2015 13:54

Con. Extract Vol.: 2(mL) Dilution Factor: 1

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

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177355 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	72		45-105
367-12-4	2-Fluorophenol (Surr)	80		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	65		35-100
4165-62-2	Phenol-d5 (Surr)	79		40-100
1718-51-0	Terphenyl-d14 (Surr)	75		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	78		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D
Lims ID: 240-49071-A-2-I Lab Sample ID: 240-49071-2
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: Client
Inject. Date: 22-Apr-2015 13:54:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-017
Misc. Info.: 240-49071-A-2-I240-49071-A-2-I
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 14:21:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.359	6.359	0.000	86	139084	4.00	
* 2 Naphthalene-d8	136	7.475	7.475	0.000	98	550113	4.00	
* 3 Acenaphthene-d10	164	8.980	8.980	0.000	68	335287	4.00	
* 4 Phenanthrene-d10	188	10.250	10.254	-0.004	79	597059	4.00	
* 5 Chrysene-d12	240	12.543	12.548	-0.005	80	682625	4.00	
* 6 Perylene-d12	264	14.318	14.318	0.000	98	588297	4.00	
$ 7 2-Fluorophenol	112	5.157	5.133	0.024	93	407481	7.96	
$ 8 Phenol-d5	99	5.999	5.994	0.005	90	601715	7.86	
$ 9 Nitrobenzene-d5	82	6.835	6.835	0.000	83	646514	6.46	
$ 10 2-Fluorobiphenyl (Surr)	172	8.379	8.379	0.000	99	815453	7.23	
$ 11 2,4,6-Tribromophenol	330	9.649	9.653	-0.005	76	96542	7.78	
$ 12 Terphenyl-d14	244	11.577	11.577	0.000	98	1046917	7.54	
43 Phenol	94		6.003				ND	
69 Bis(2-chloroethyl)ether	93		6.095				ND	
46 2-Chlorophenol	128		6.172				ND	
47 1,3-Dichlorobenzene	146		6.311				ND	
48 1,4-Dichlorobenzene	146		6.374				ND	
49 Benzyl alcohol	108	6.465	6.455	0.010	56	4562	0.1165	
50 1,2-Dichlorobenzene	146		6.513				ND	
51 2-Methylphenol	108		6.542				ND	
53 2,2'-oxybis[1-chloropropan	45		6.576				ND	
21 3 & 4 Methylphenol	108		6.672				ND	
57 N-Nitrosodi-n-propylamine	70		6.686				ND	
61 Hexachloroethane	117		6.821				ND	
62 Nitrobenzene	77		6.850				ND	
64 Isophorone	82	7.052	7.052	0.000	94	147365	0.9431	
66 2-Nitrophenol	139		7.129				ND	
65 2,4-Dimethylphenol	107		7.138				ND	
71 Benzoic acid	122	7.186	7.196	-0.010	79	345457	11.8	
70 Bis(2-chloroethoxy)methane	93		7.215				ND	
73 2,4-Dichlorophenol	162		7.335				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	Flags
74 1,2,4-Trichlorobenzene	180		7.417				ND	
75 Naphthalene	128	7.489	7.494	-0.005	28	25564	0.1739	
76 4-Chloroaniline	127		7.513				ND	
79 Hexachlorobutadiene	225		7.595				ND	
86 4-Chloro-3-methylphenol	107		7.908				ND	
87 2-Methylnaphthalene	142	8.081	8.081	0.000	66	18858	0.1954	
89 Hexachlorocyclopentadiene	237		8.225				ND	
92 2,4,6-Trichlorophenol	196		8.312				ND	
93 2,4,5-Trichlorophenol	196		8.345				ND	
100 2-Chloronaphthalene	162		8.504				ND	
102 2-Nitroaniline	65		8.562				ND	
105 Dimethyl phthalate	163		8.696				ND	
107 2,6-Dinitrotoluene	165		8.754				ND	
109 Acenaphthylene	152		8.865				ND	
110 3-Nitroaniline	138		8.908				ND	
111 2,4-Dinitrophenol	184		8.994				ND	
112 Acenaphthene	153		9.009				ND	
113 4-Nitrophenol	109		9.018				ND	
114 2,4-Dinitrotoluene	165		9.105				ND	
116 Dibenzofuran	168		9.153				ND	
121 Diethyl phthalate	149	9.288	9.293	-0.005	51	14102	0.1335	
123 4-Chlorophenyl phenyl ethe	204		9.422				ND	
125 4-Nitroaniline	138		9.432				ND	
126 Fluorene	166		9.446				ND	
128 4,6-Dinitro-2-methylphenol	198		9.461				ND	
131 N-Nitrosodiphenylamine	169		9.514				ND	
139 4-Bromophenyl phenyl ether	248		9.841				ND	
141 Hexachlorobenzene	284		9.932				ND	
143 Pentachlorophenol	266		10.081				ND	
148 Phenanthrene	178	10.269	10.274	-0.005	59	58876	0.3756	
149 Anthracene	178	10.312	10.317	-0.005	43	8021	0.0512	
151 Carbazole	167		10.432				ND	
154 Di-n-butyl phthalate	149	10.668	10.673	-0.005	56	40103	0.2287	
159 Fluoranthene	202	11.288	11.293	-0.005	81	120604	0.6664	
161 Pyrene	202	11.490	11.495	-0.005	94	99431	0.5318	
168 Butyl benzyl phthalate	149		11.957				ND	
173 Bis(2-ethylhexyl) phthalat	149	12.438	12.438	0.000	81	169299	1.47	
175 3,3'-Dichlorobenzidine	252		12.471				ND	
177 Benzo[a]anthracene	228	12.534	12.539	-0.005	23	51027	0.2660	
178 Chrysene	228	12.572	12.577	-0.005	50	75873	0.4328	
180 Di-n-octyl phthalate	149		13.096				ND	
182 Benzo[b]fluoranthene	252	13.765	13.765	0.000	16	77269	0.4359	
183 Benzo[k]fluoranthene	252	13.789	13.803	-0.014	0	40767	0.2283	M
184 Benzo[a]pyrene	252	14.236	14.241	-0.005	27	44317	0.2618	
188 Indeno[1,2,3-cd]pyrene	276	16.246	16.246	0.000	38	30503	0.1780	M
189 Dibenz(a,h)anthracene	278		16.261				ND	
190 Benzo[g,h,i]perylene	276	16.838	16.847	-0.009	80	26718	0.1880	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

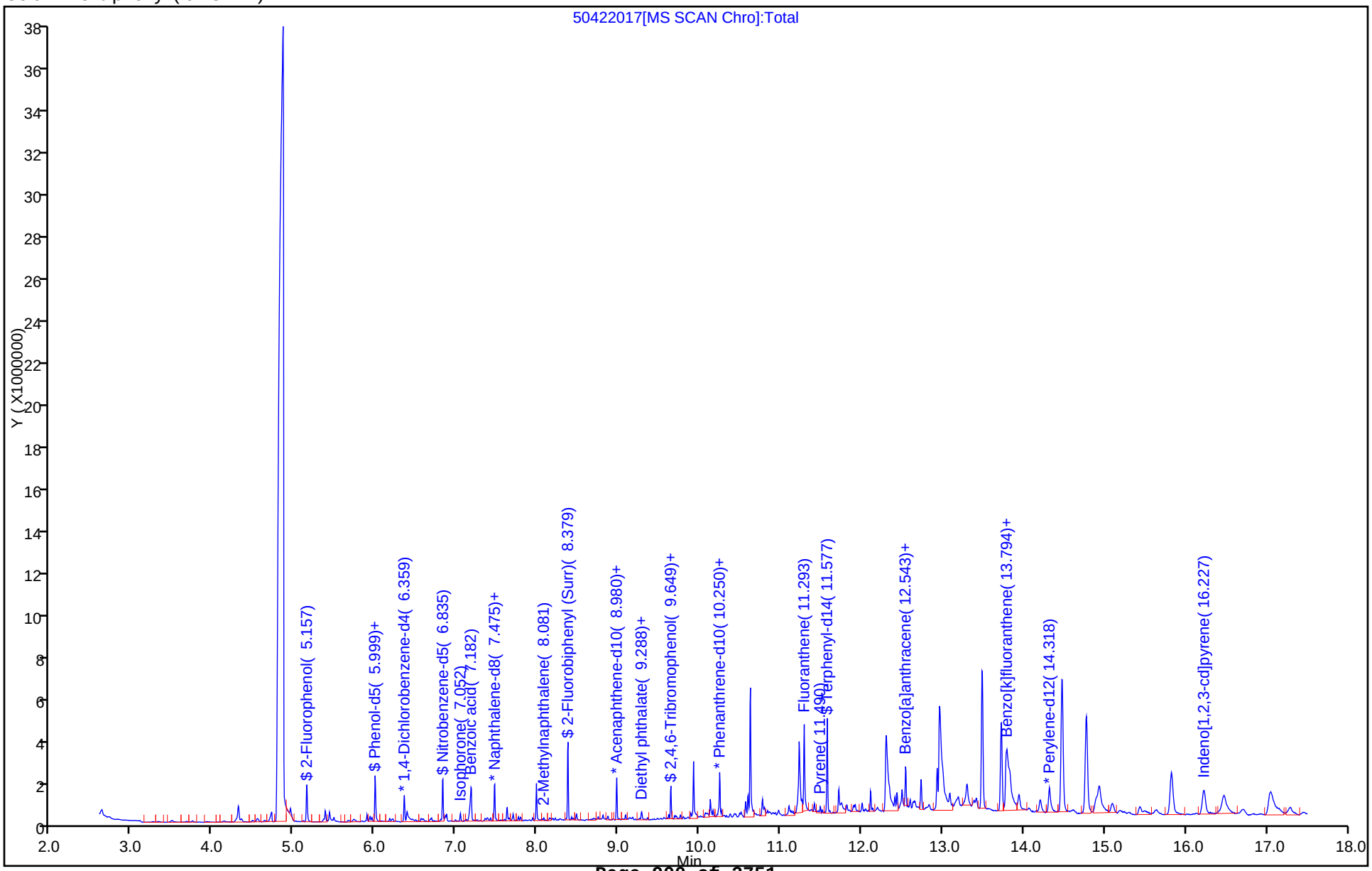
Report Date: 23-Apr-2015 09:37:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2	Worklist Smp#:	17
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)

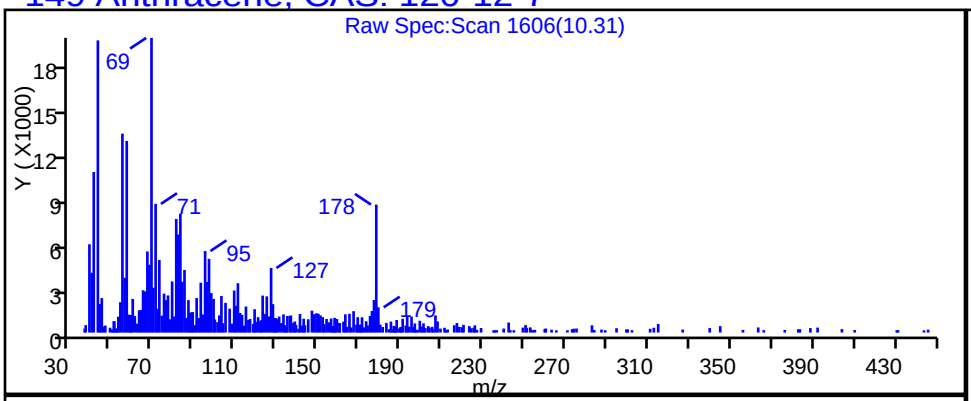


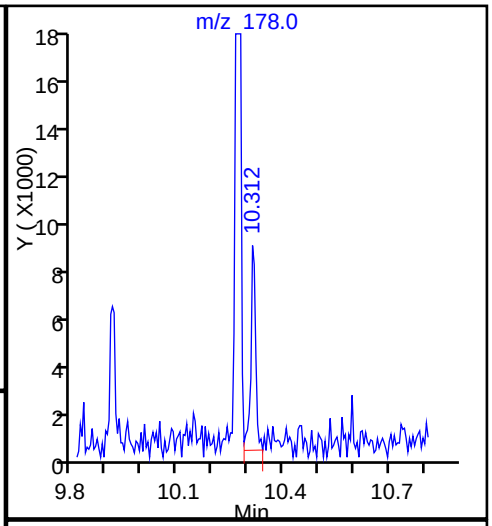
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

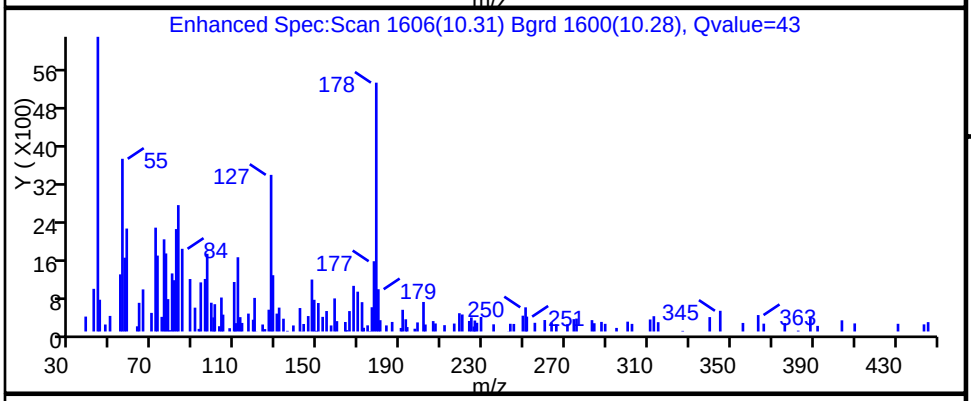
TestAmerica Canton

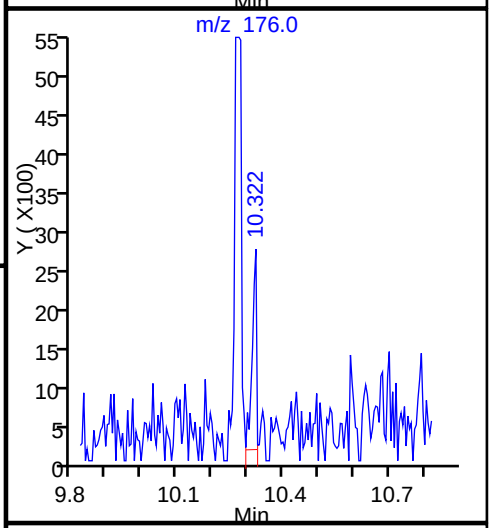
Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D				
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

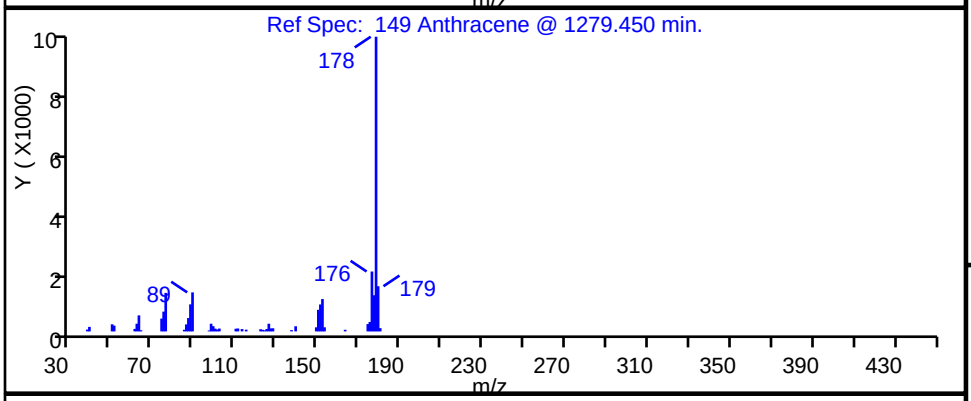
149 Anthracene, CAS: 120-12-7

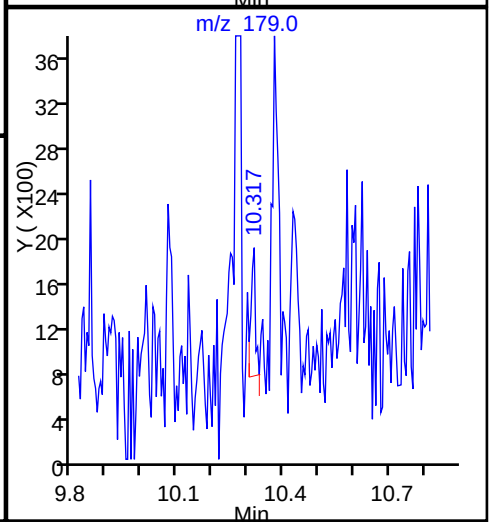


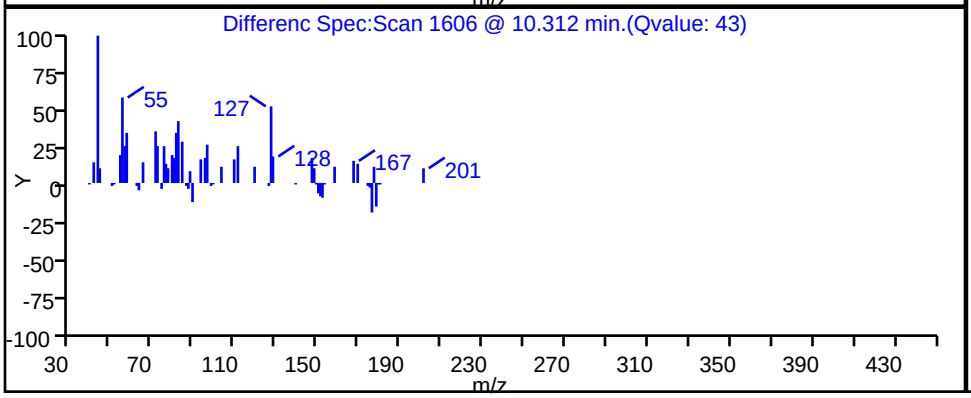










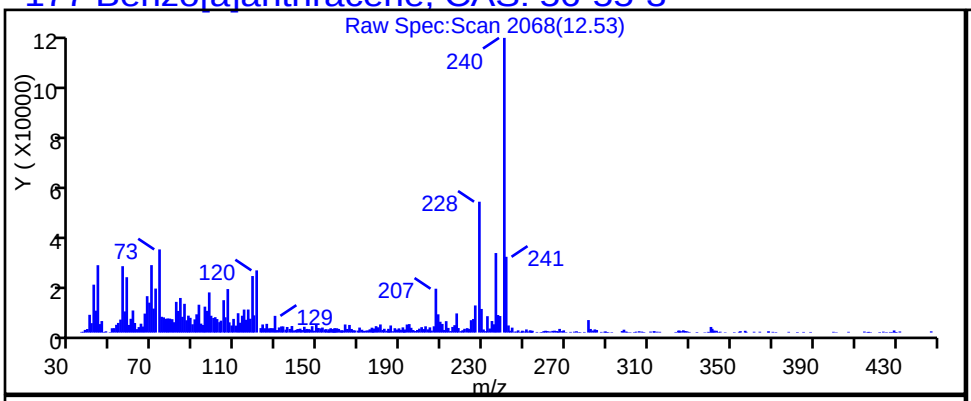


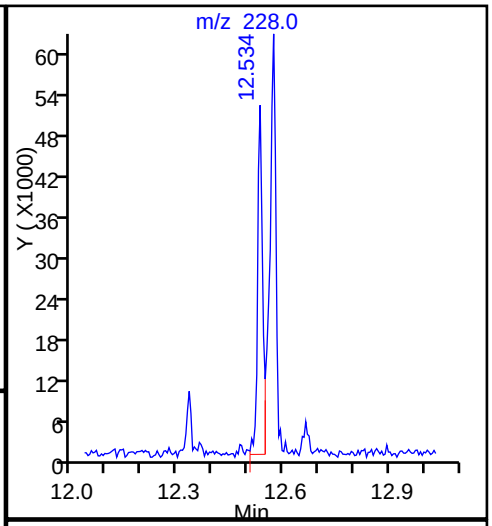
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

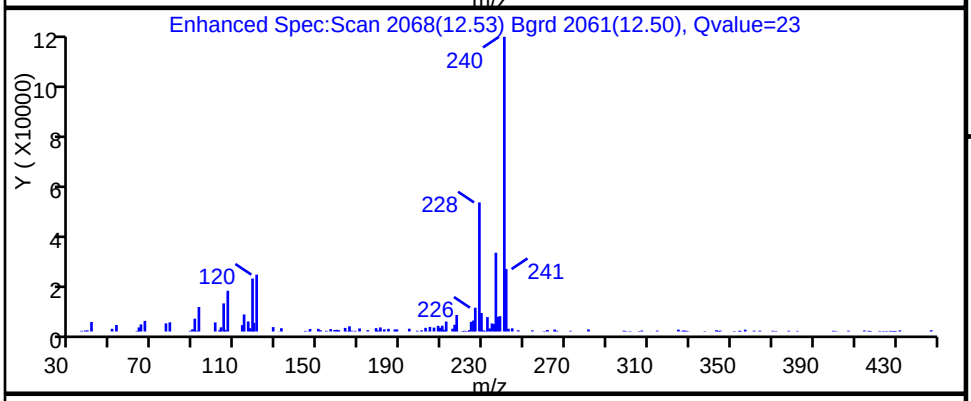
TestAmerica Canton

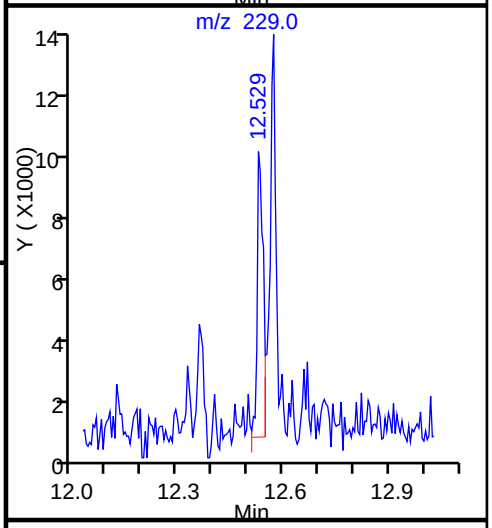
Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D				
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

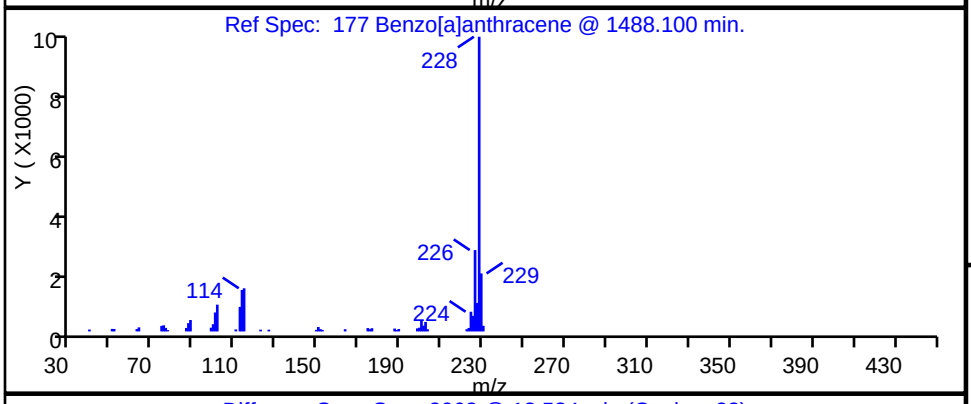
177 Benzo[a]anthracene, CAS: 56-55-3

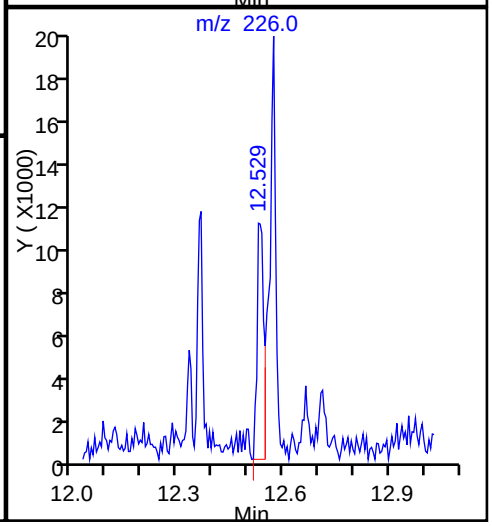


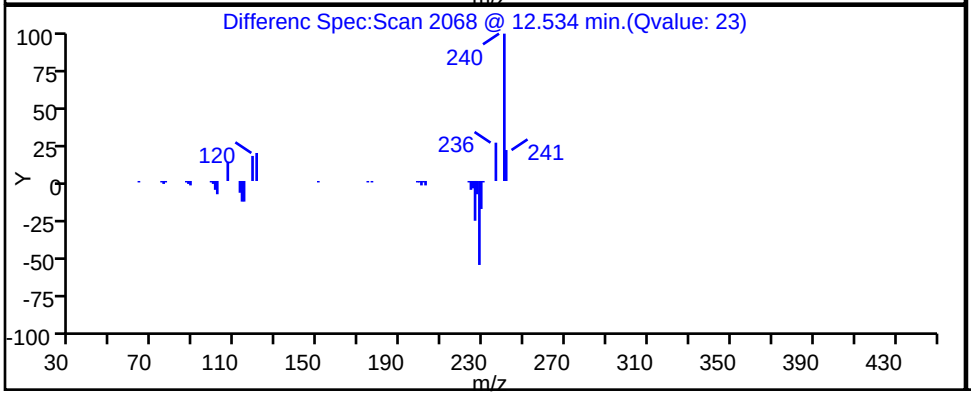












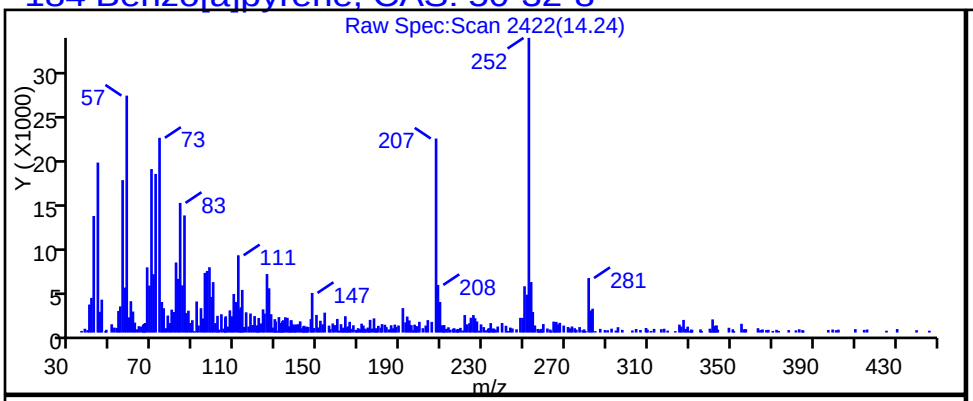
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

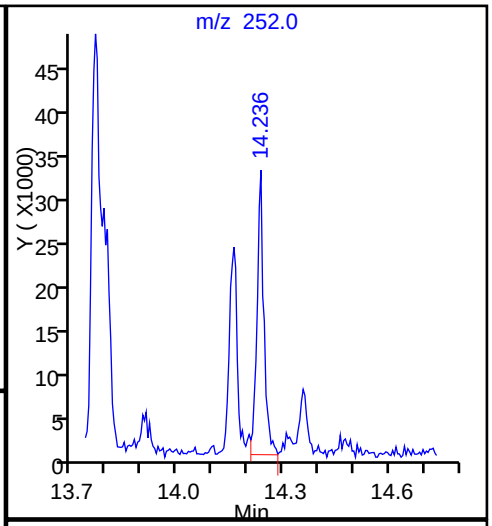
TestAmerica Canton

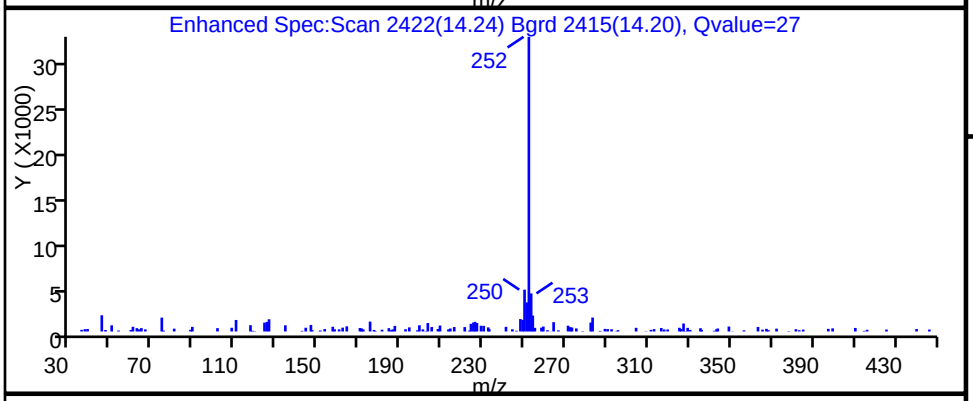
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

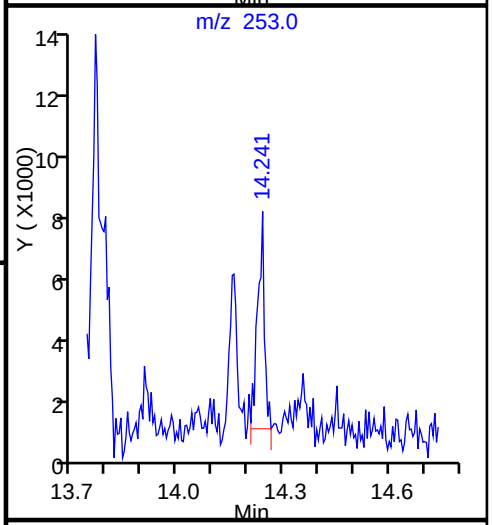
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

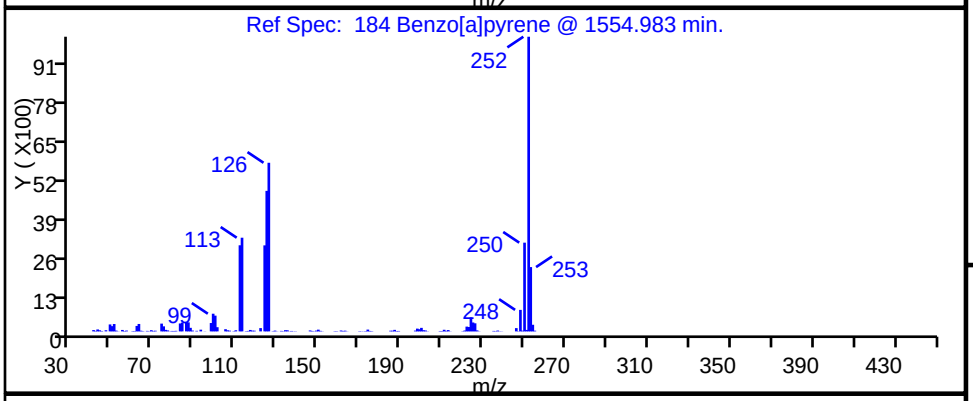
184 Benzo[a]pyrene, CAS: 50-32-8

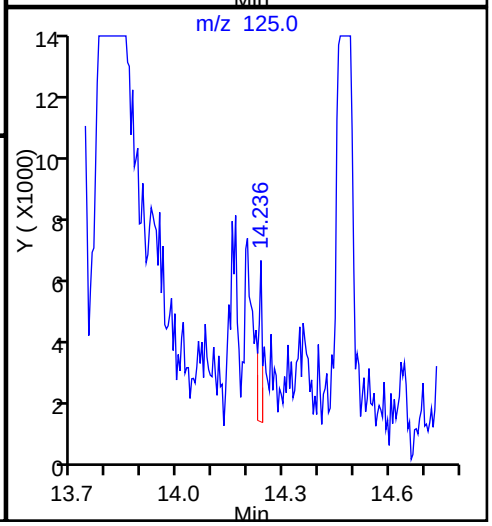


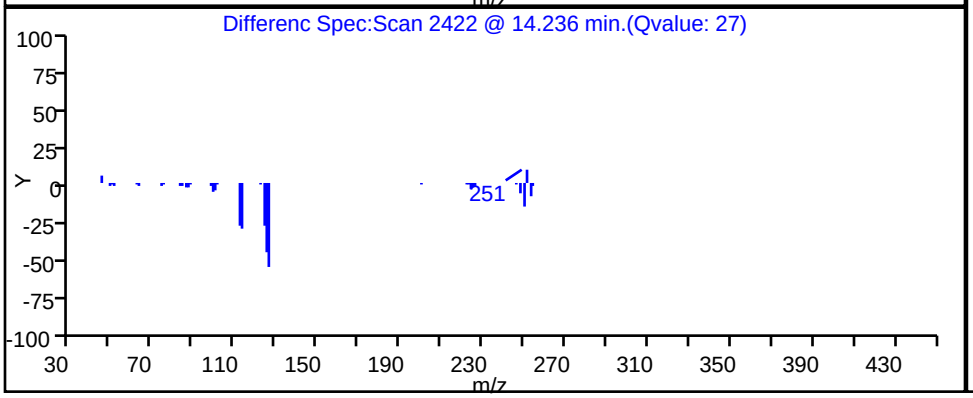












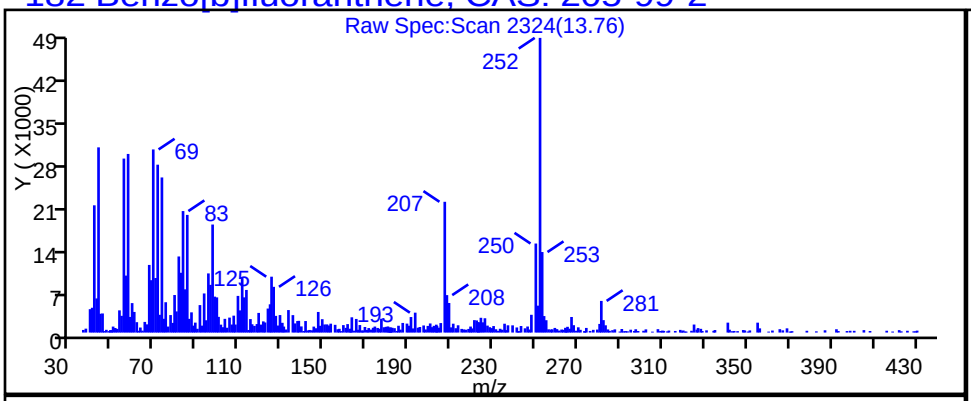
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

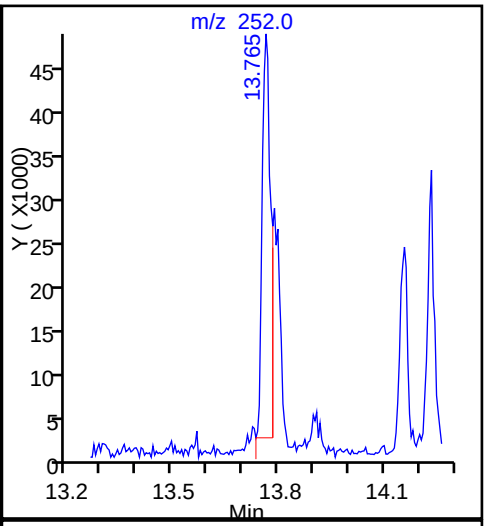
TestAmerica Canton

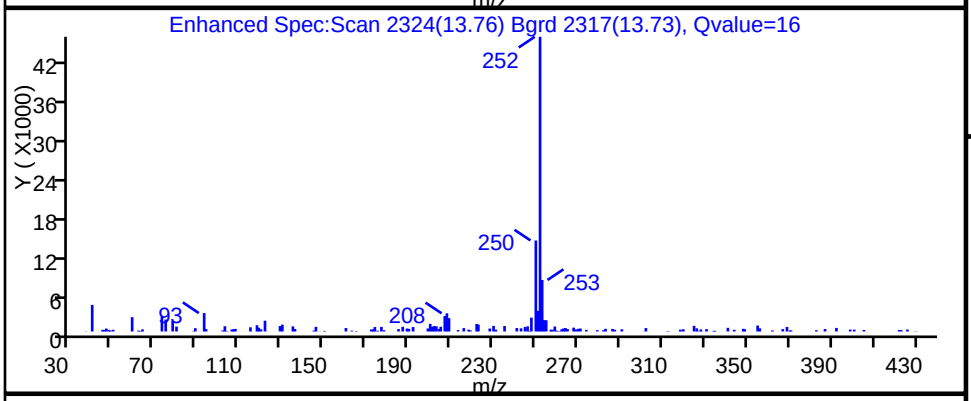
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

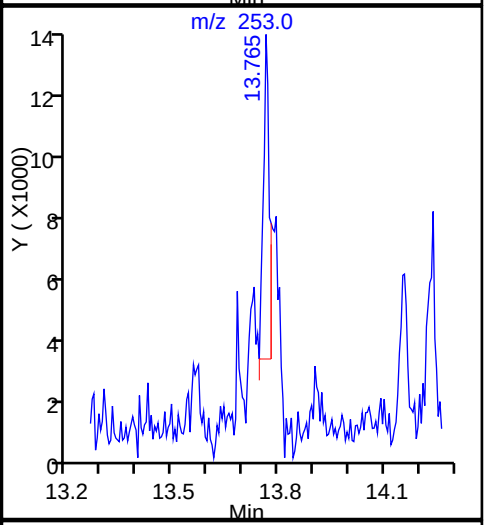
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

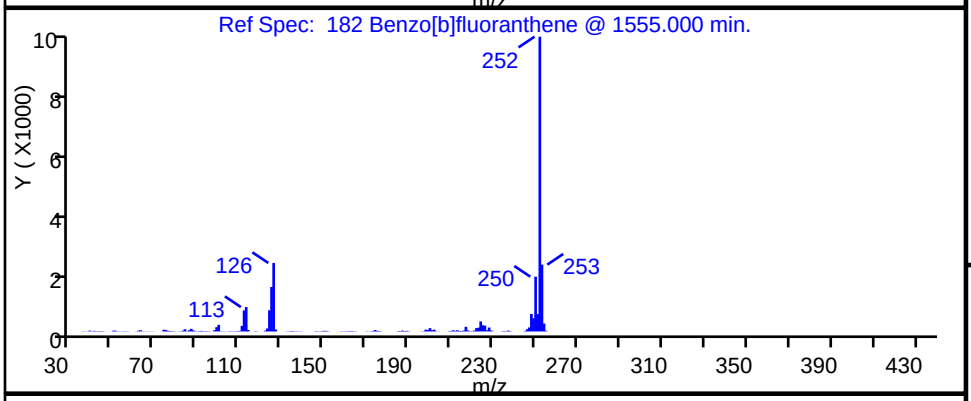
182 Benzo[b]fluoranthene, CAS: 205-99-2

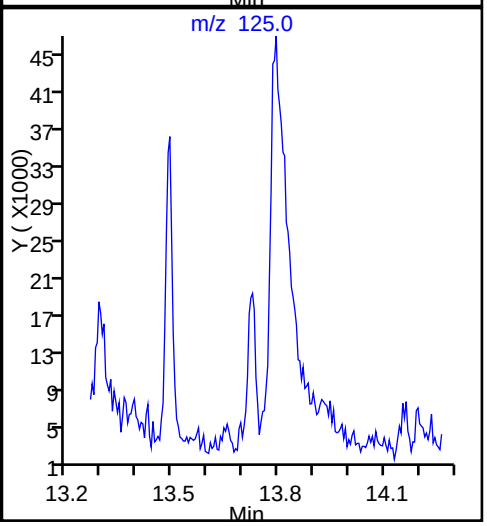


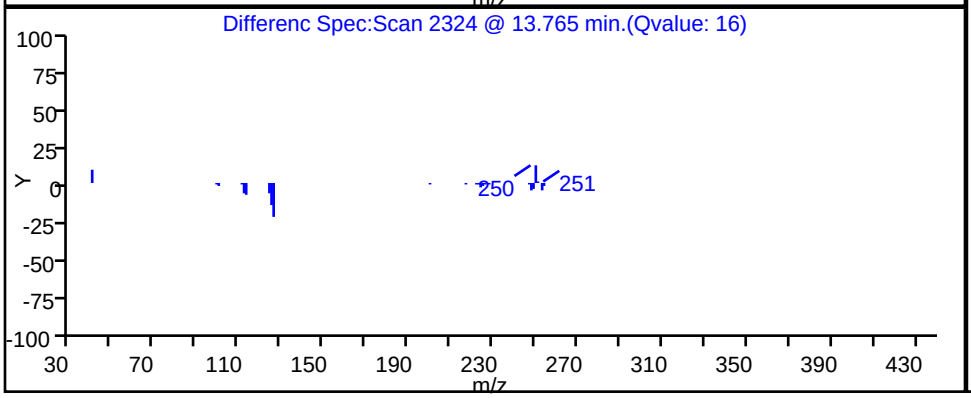












Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date: 22-Apr-2015 13:54:30 Instrument ID: A4HP9

Lims ID: 240-49071-A-2-I Lab Sample ID: 240-49071-2

Client ID: 079SS-0342M-0001,0002-SO

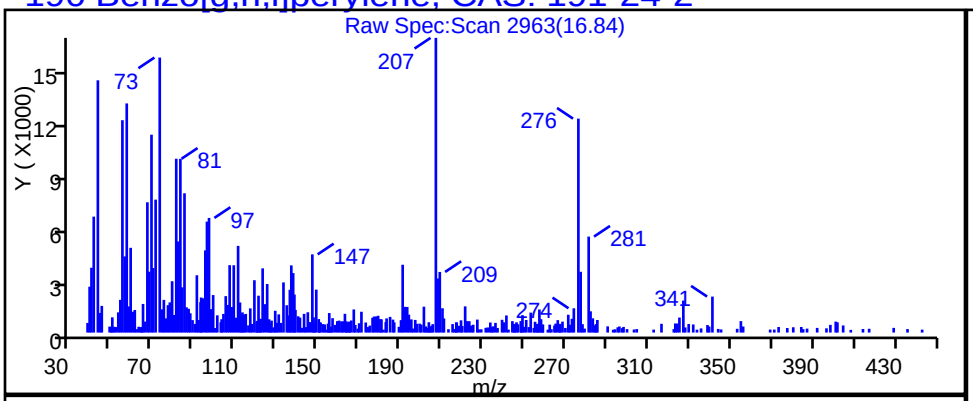
Operator ID: 001574 ALS Bottle#: 17 Worklist Smp#: 17

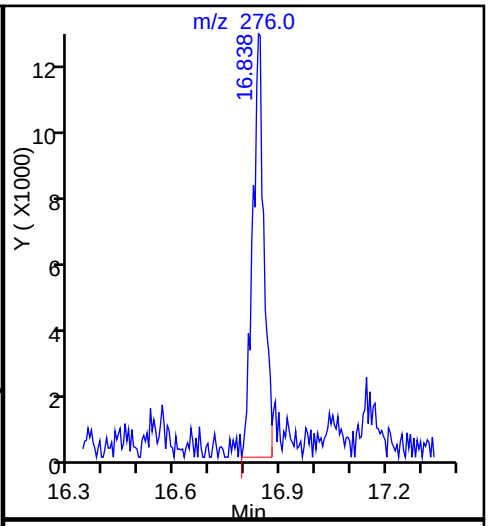
Injection Vol: 1.0 ul Dil. Factor: 1.0000

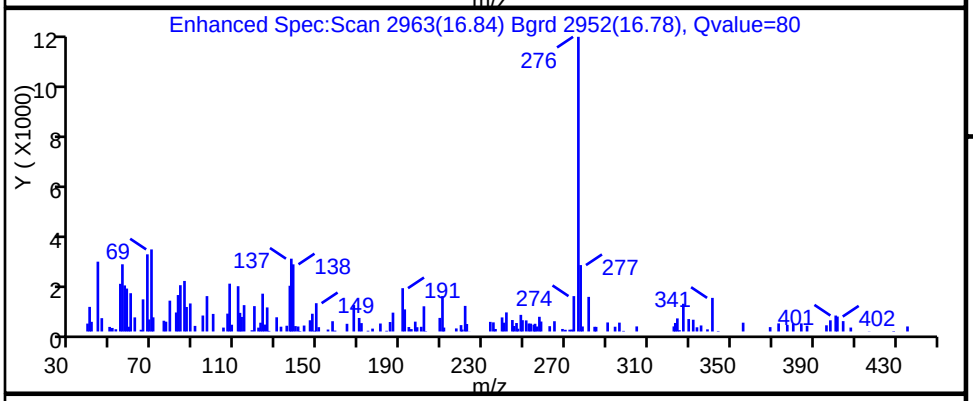
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

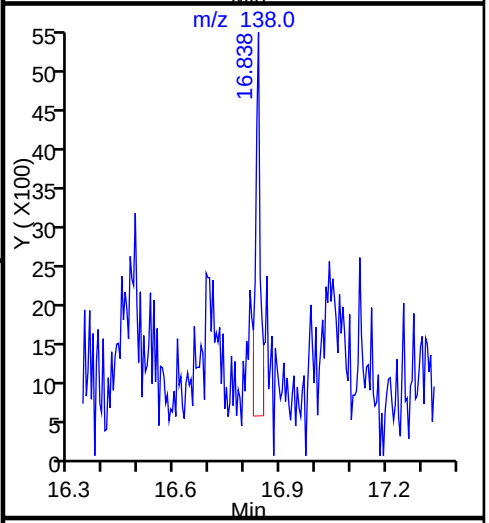
Column: 5% phenyl (0.18 mm) Detector MS SCAN

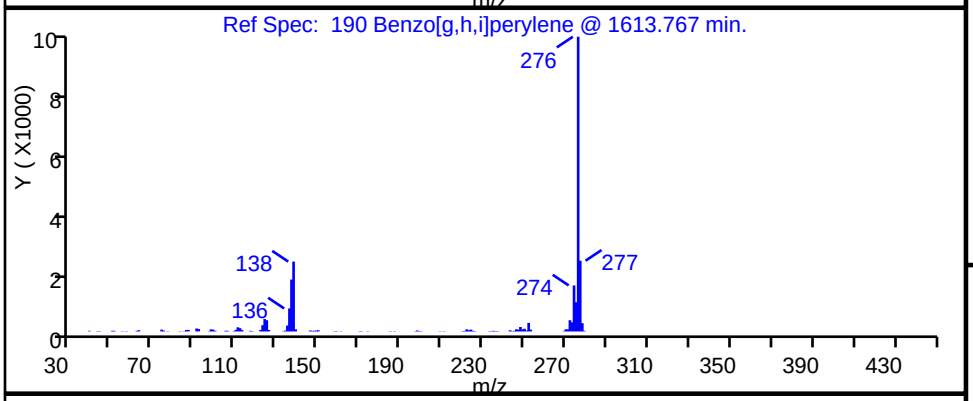
190 Benzo[g,h,i]perylene, CAS: 191-24-2

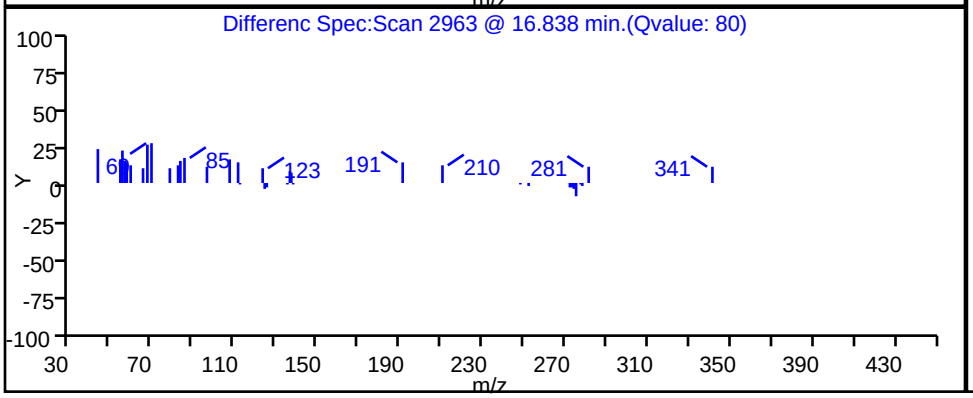


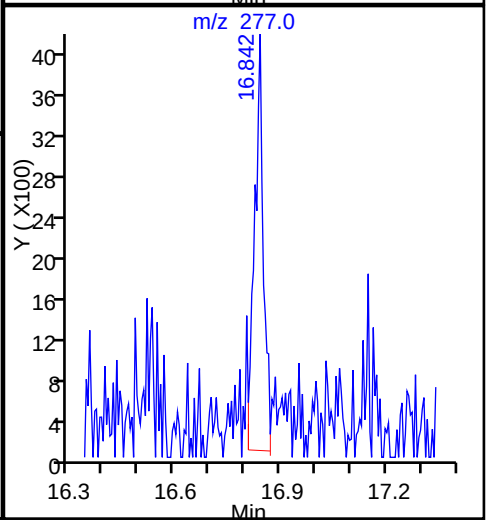












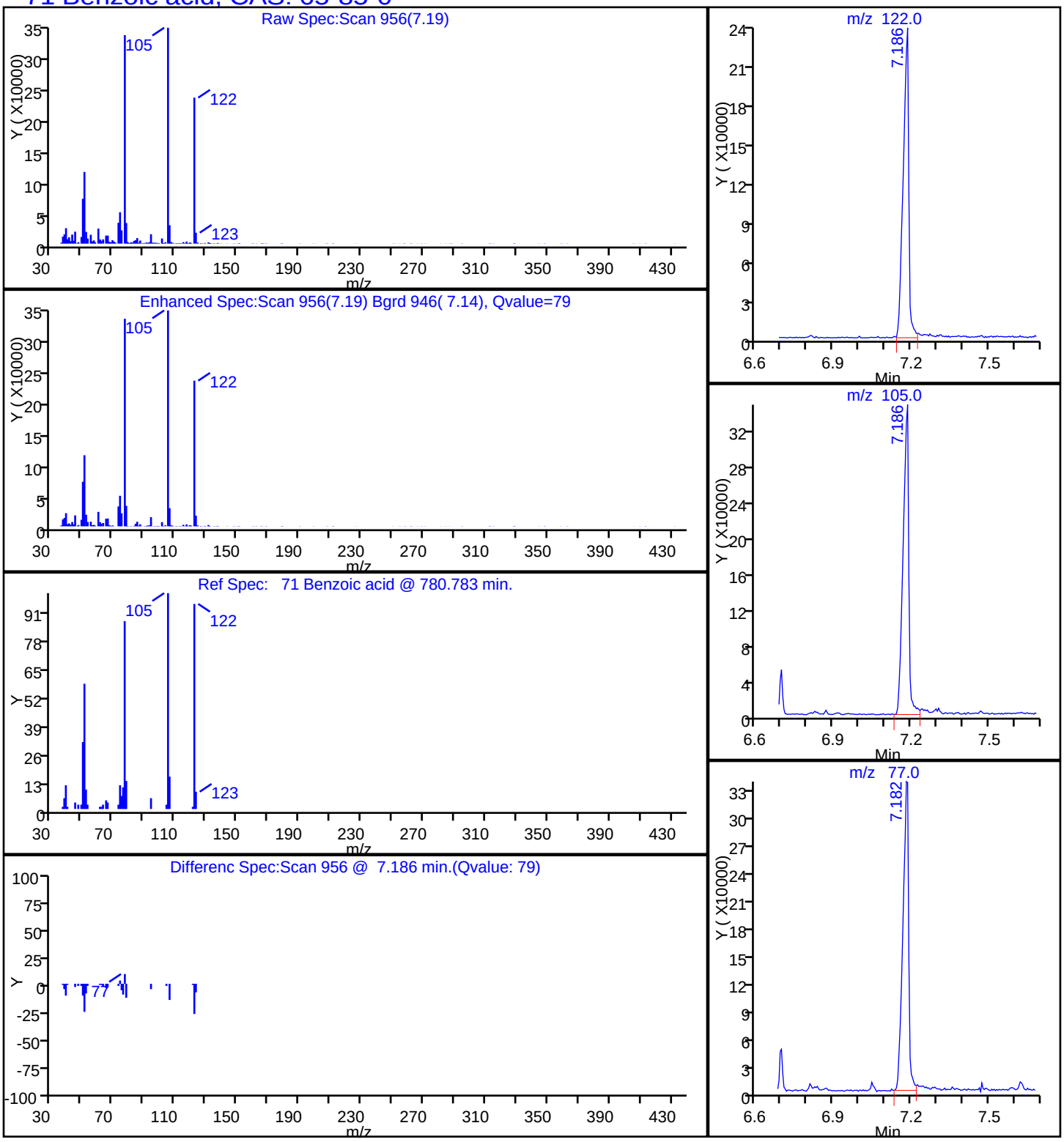
Report Date: 23-Apr-2015 09:37:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 Benzoic acid, CAS: 65-85-0



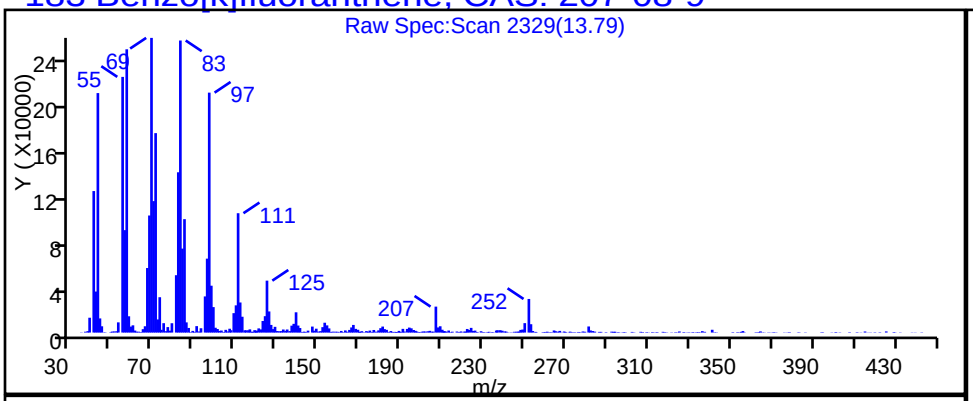
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

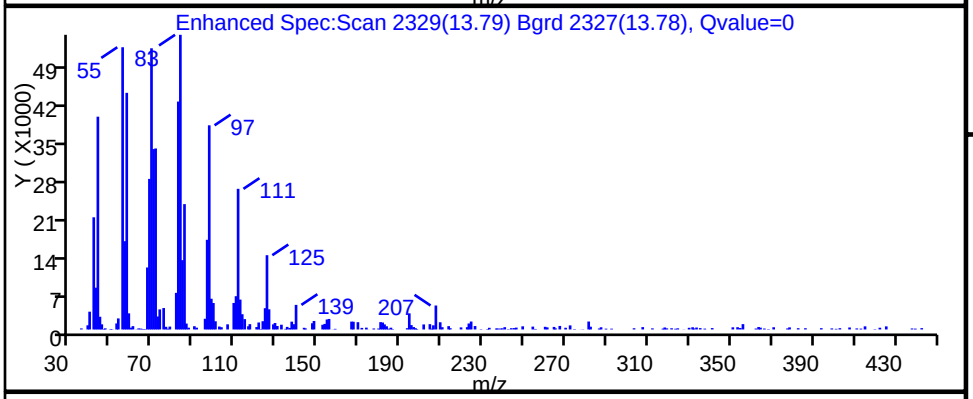
TestAmerica Canton

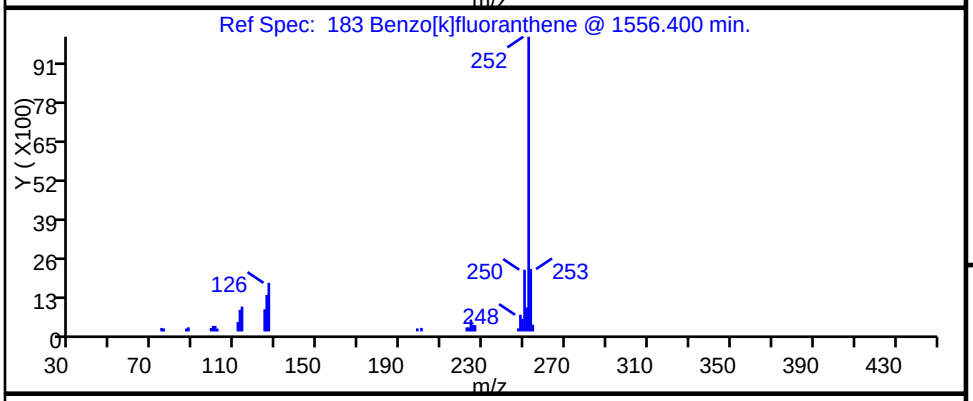
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

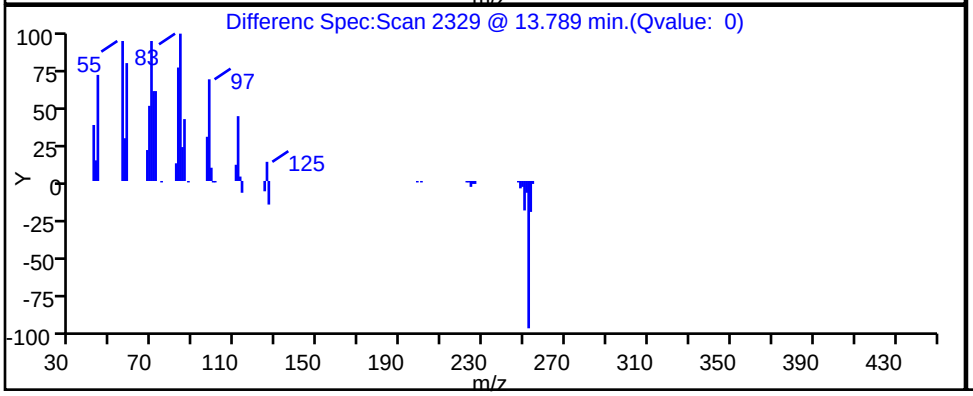
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

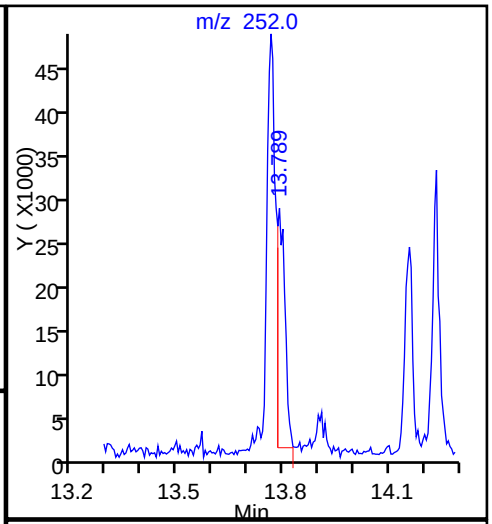
183 Benzo[k]fluoranthene, CAS: 207-08-9

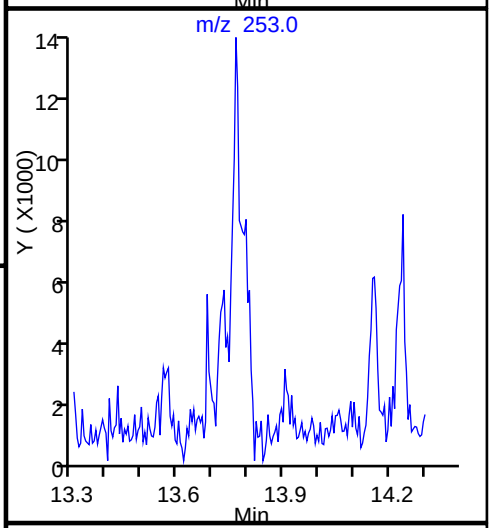


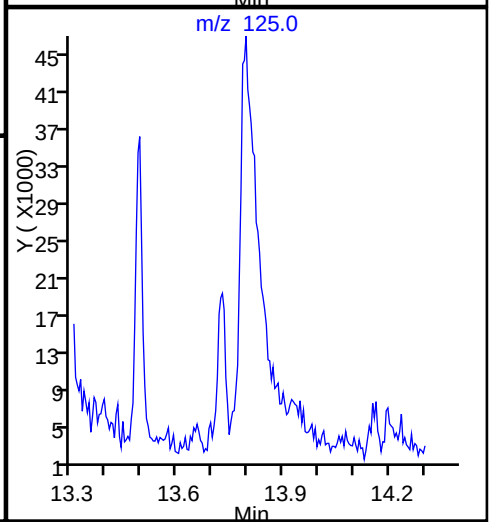












Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date: 22-Apr-2015 13:54:30 Instrument ID: A4HP9

Lims ID: 240-49071-A-2-I Lab Sample ID: 240-49071-2

Client ID: 079SS-0342M-0001,0002-SO

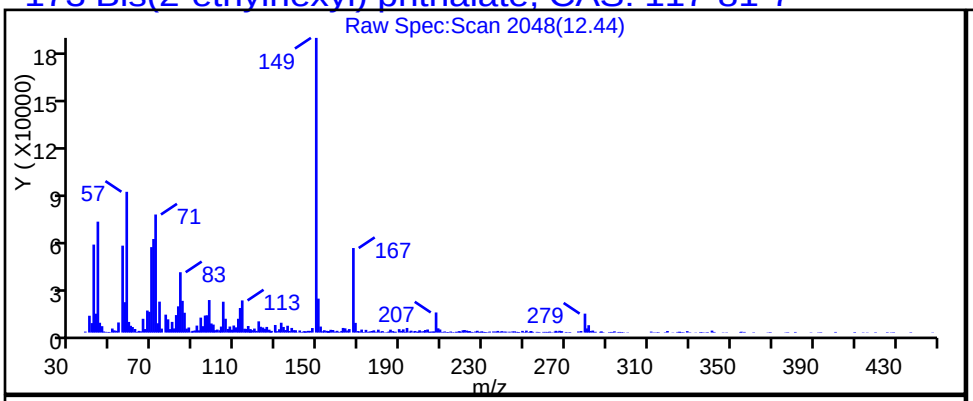
Operator ID: 001574 ALS Bottle#: 17 Worklist Smp#: 17

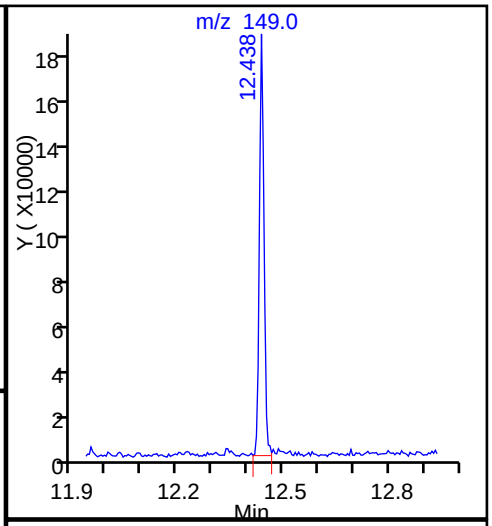
Injection Vol: 1.0 ul Dil. Factor: 1.0000

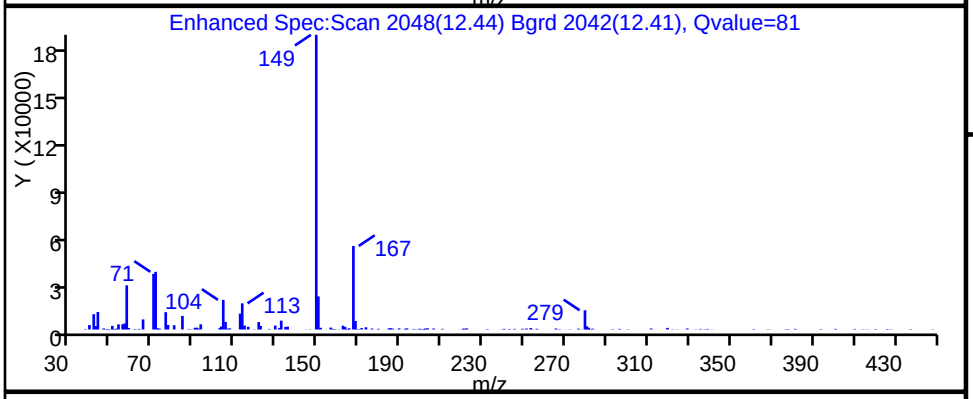
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

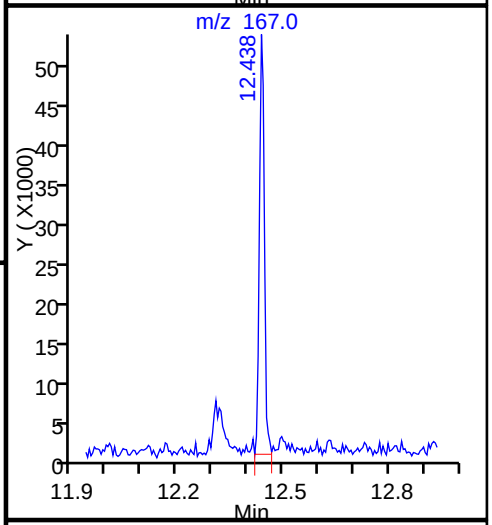
Column: 5% phenyl (0.18 mm) Detector MS SCAN

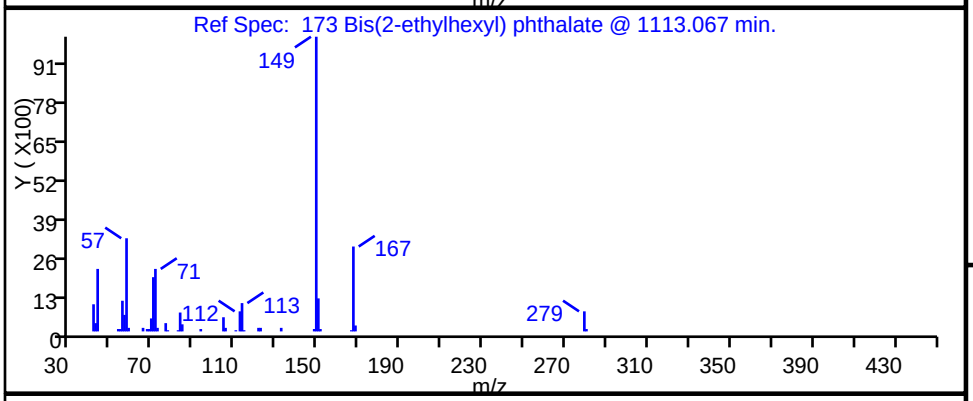
173 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

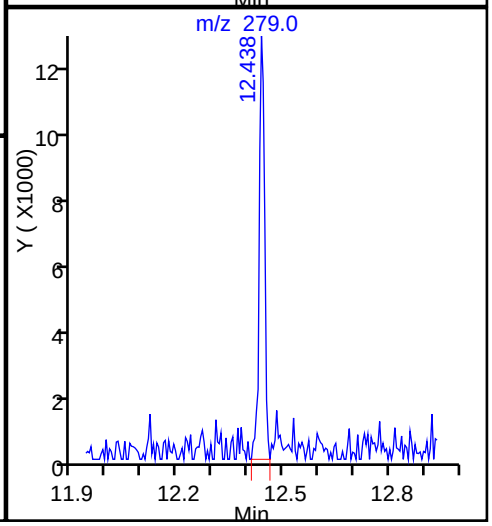


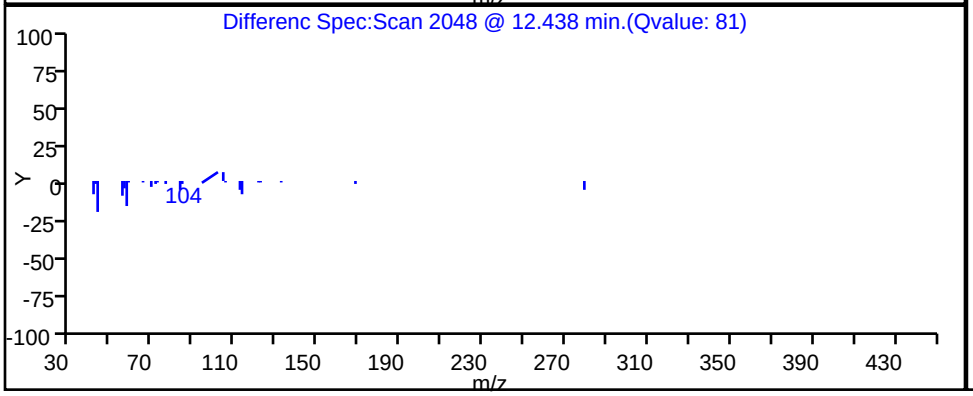










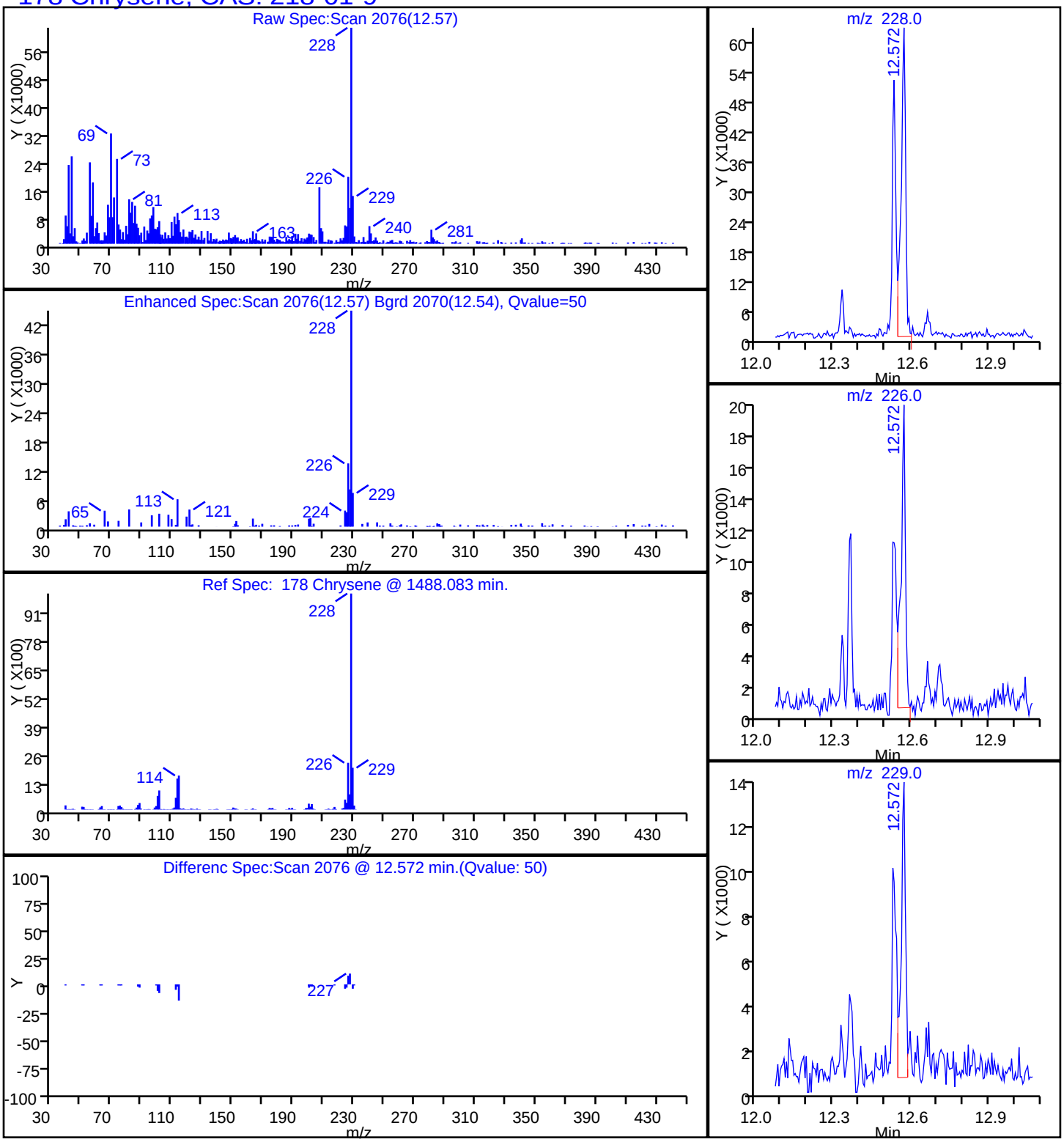


Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D				
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

178 Chrysene, CAS: 218-01-9



Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date: 22-Apr-2015 13:54:30 Instrument ID: A4HP9

Lims ID: 240-49071-A-2-I Lab Sample ID: 240-49071-2

Client ID: 079SS-0342M-0001,0002-SO

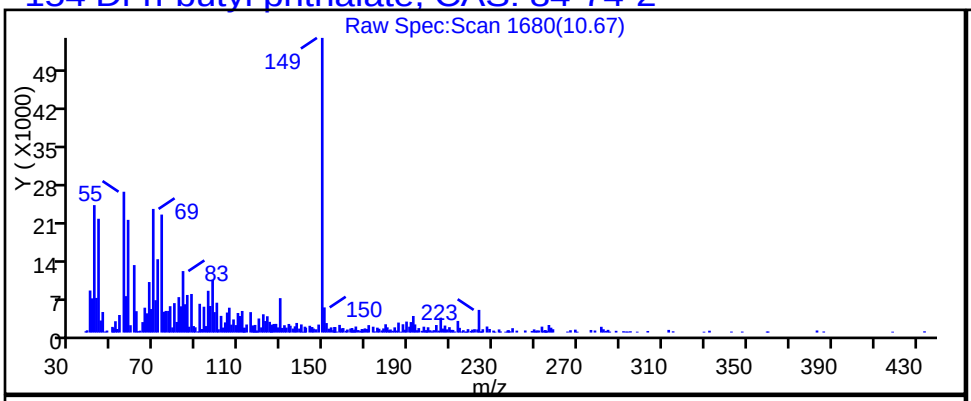
Operator ID: 001574 ALS Bottle#: 17 Worklist Smp#: 17

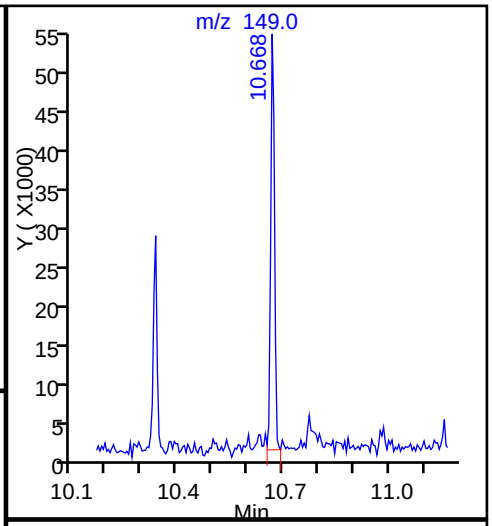
Injection Vol: 1.0 ul Dil. Factor: 1.0000

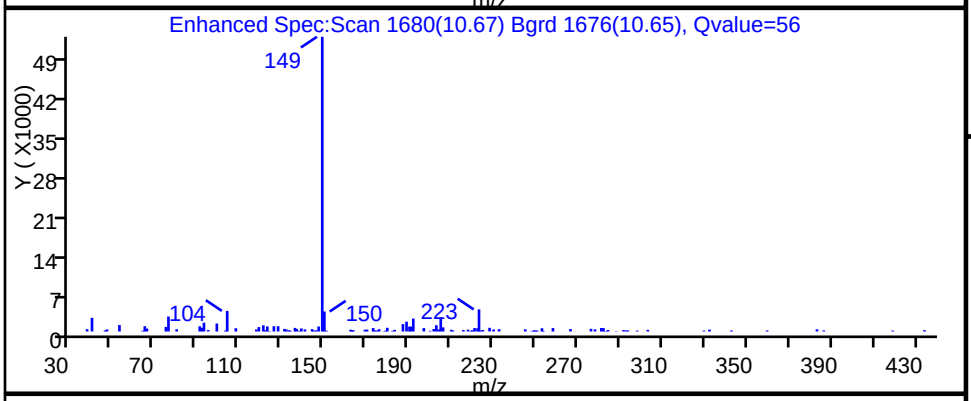
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

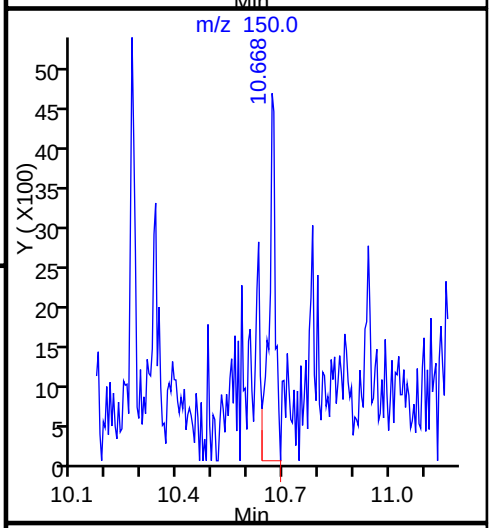
Column: 5% phenyl (0.18 mm) Detector MS SCAN

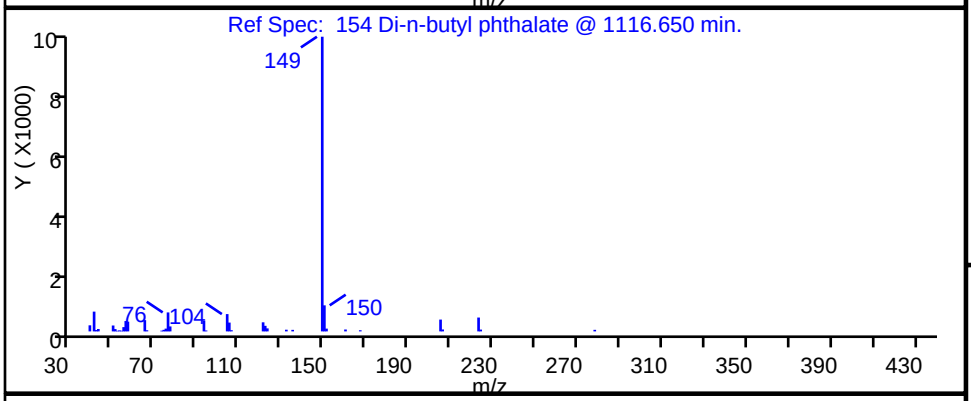
154 Di-n-butyl phthalate, CAS: 84-74-2

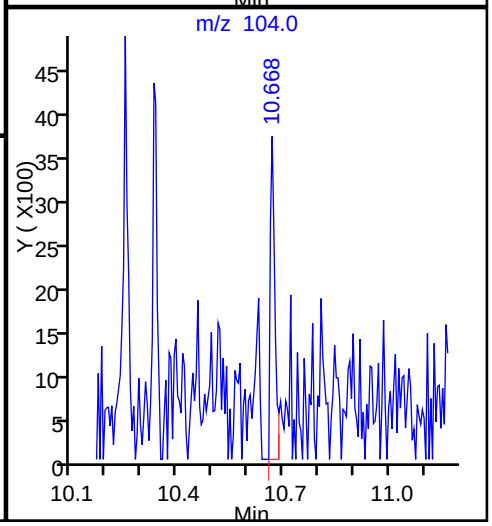


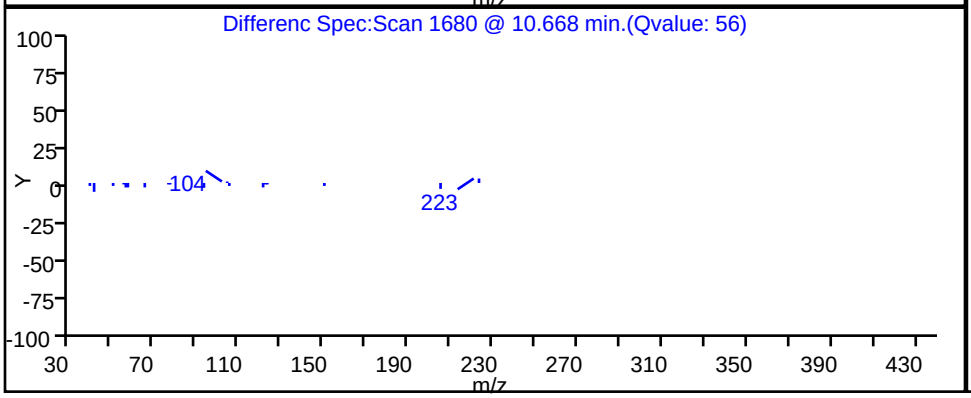












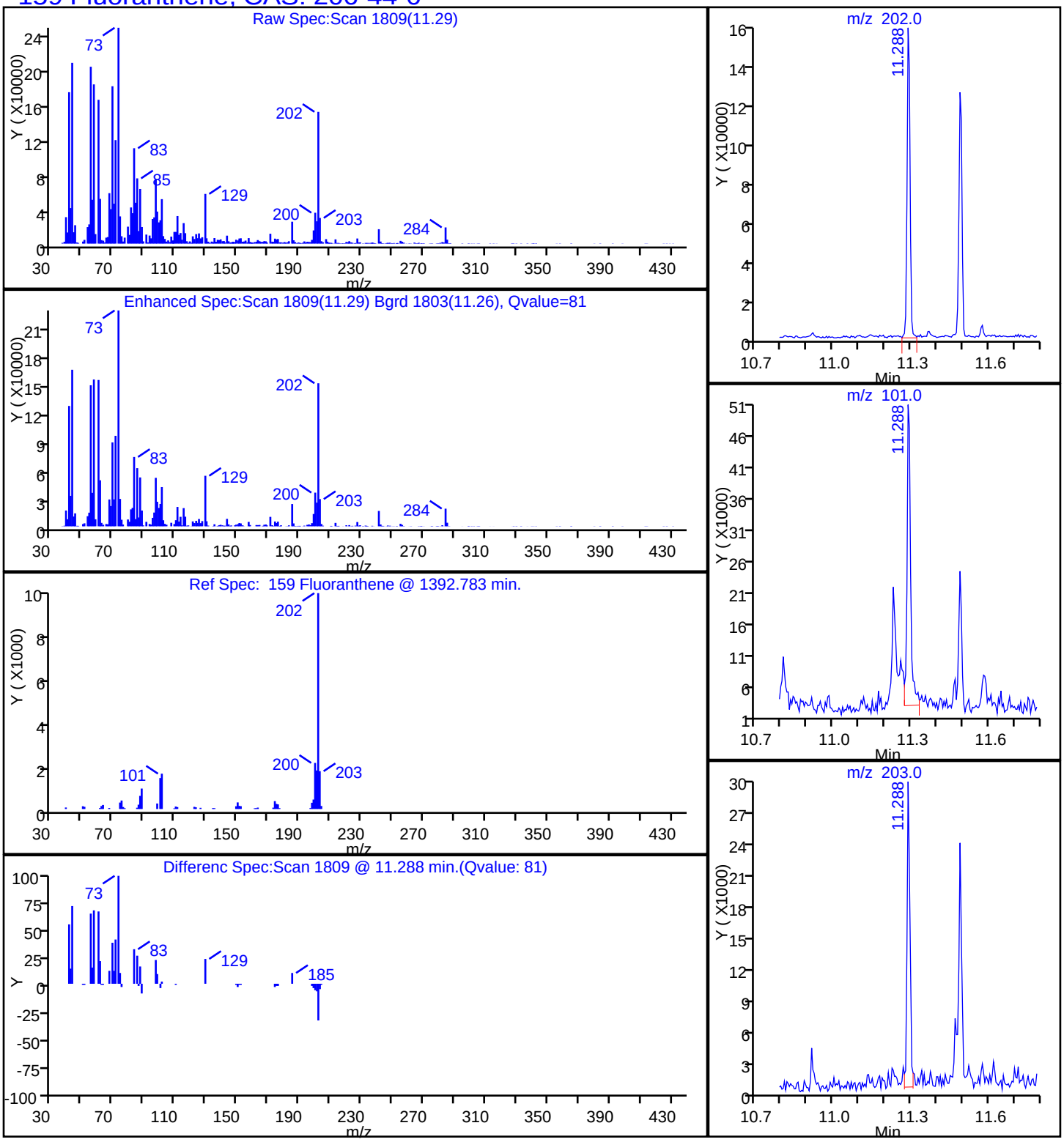
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

159 Fluoranthene, CAS: 206-44-0



Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date: 22-Apr-2015 13:54:30 Instrument ID: A4HP9

Lims ID: 240-49071-A-2-I Lab Sample ID: 240-49071-2

Client ID: 079SS-0342M-0001,0002-SO

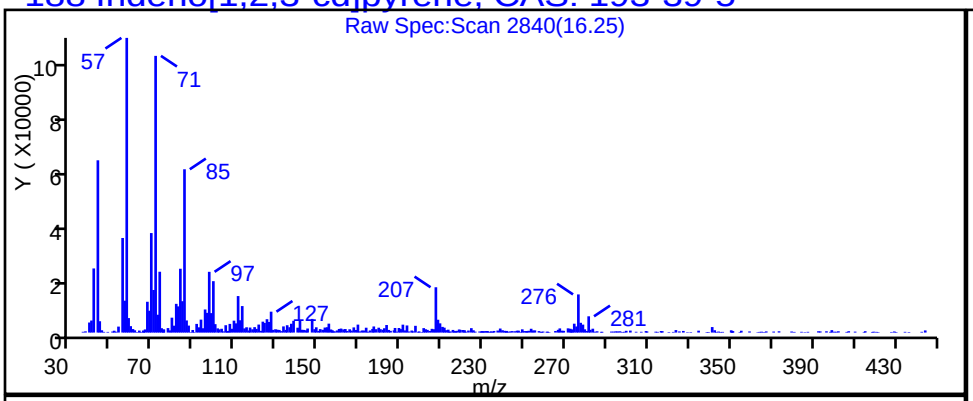
Operator ID: 001574 ALS Bottle#: 17 Worklist Smp#: 17

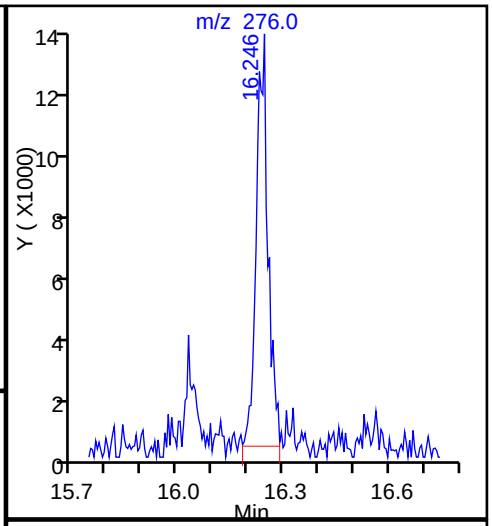
Injection Vol: 1.0 ul Dil. Factor: 1.0000

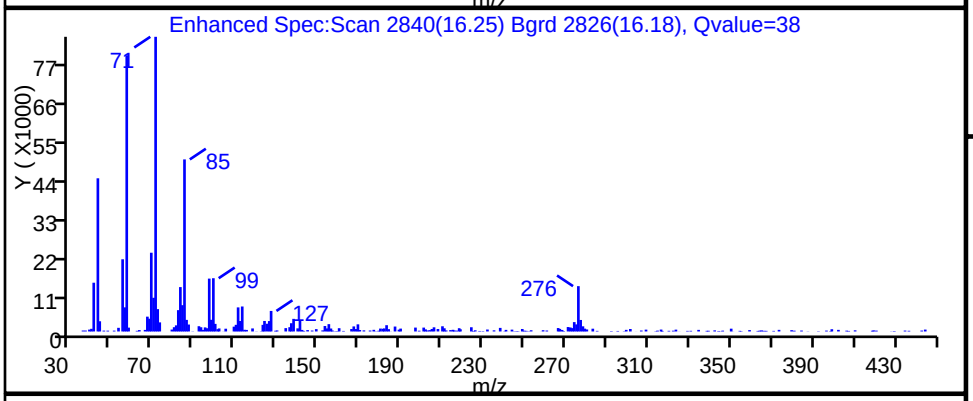
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

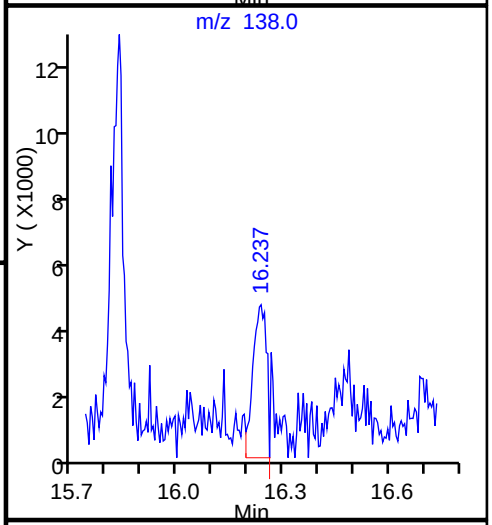
Column: 5% phenyl (0.18 mm) Detector MS SCAN

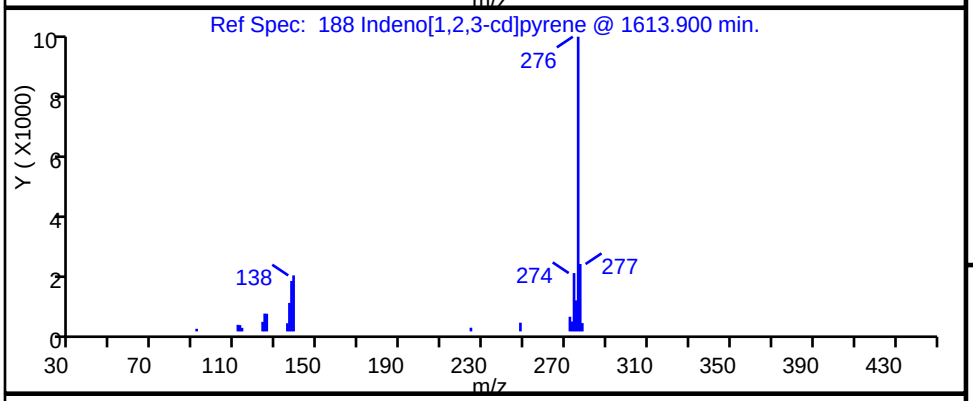
188 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

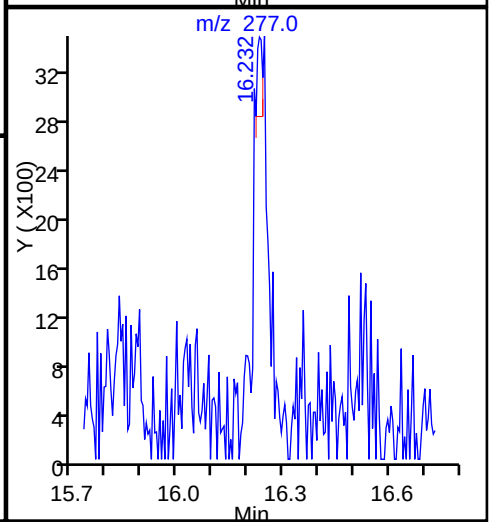


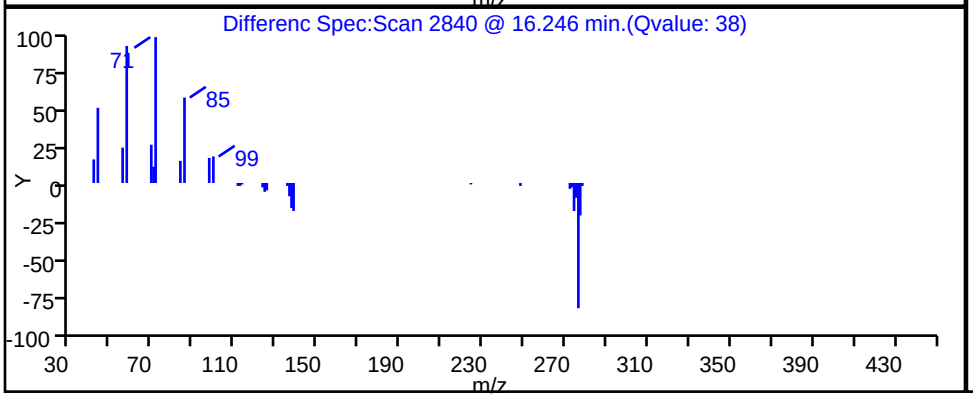












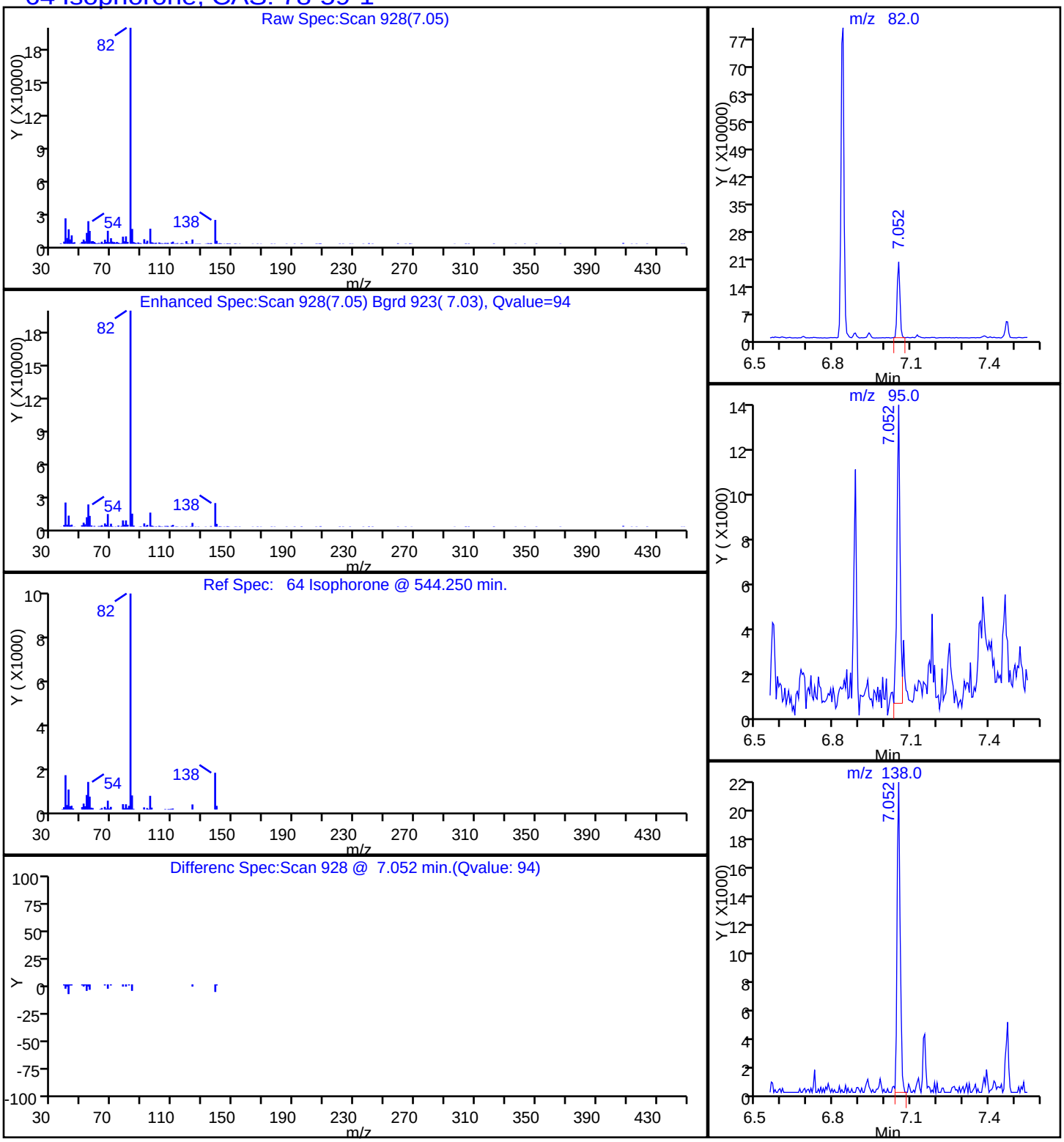
Report Date: 23-Apr-2015 09:37:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

64 Isophorone, CAS: 78-59-1



Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date: 22-Apr-2015 13:54:30 Instrument ID: A4HP9

Lims ID: 240-49071-A-2-I Lab Sample ID: 240-49071-2

Client ID: 079SS-0342M-0001,0002-SO

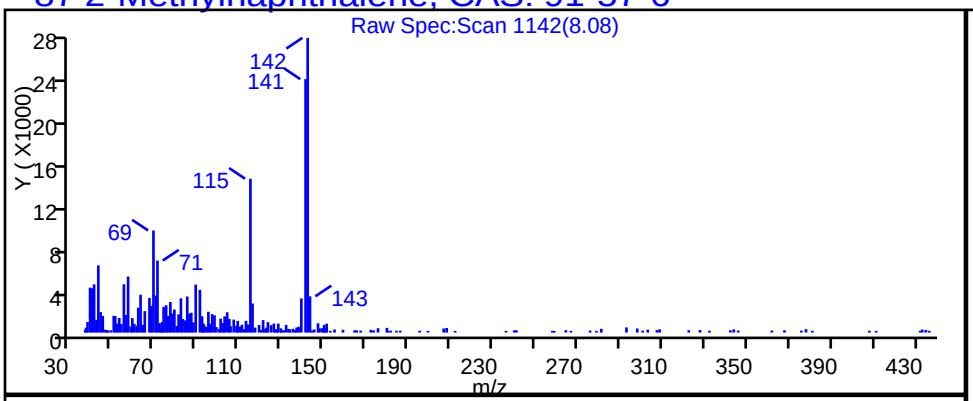
Operator ID: 001574 ALS Bottle#: 17 Worklist Smp#: 17

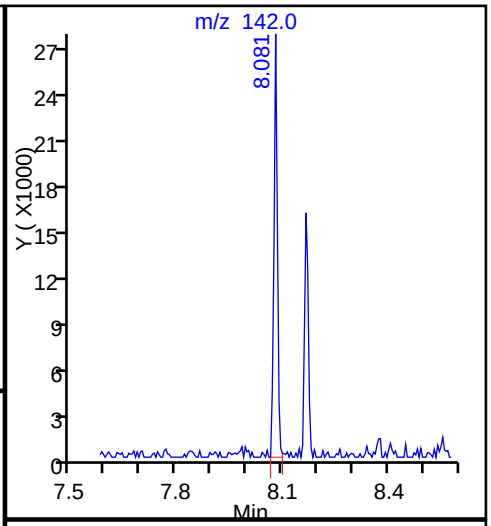
Injection Vol: 1.0 ul Dil. Factor: 1.0000

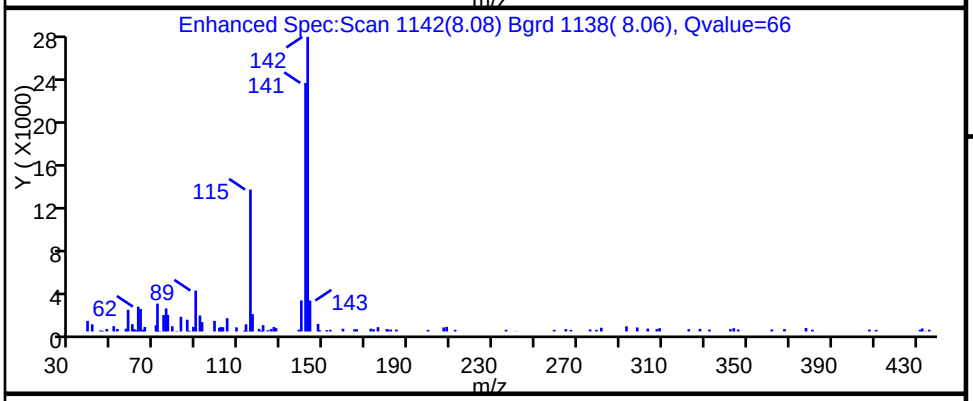
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

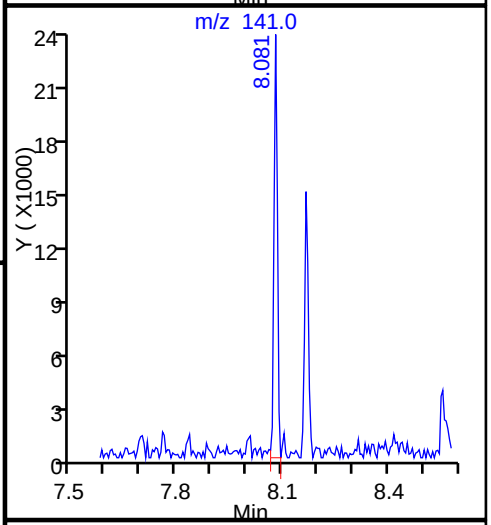
Column: 5% phenyl (0.18 mm) Detector MS SCAN

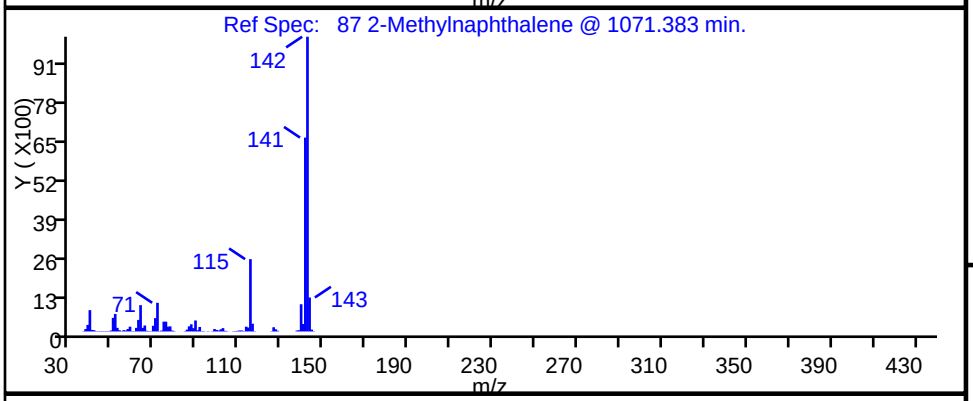
87 2-Methylnaphthalene, CAS: 91-57-6

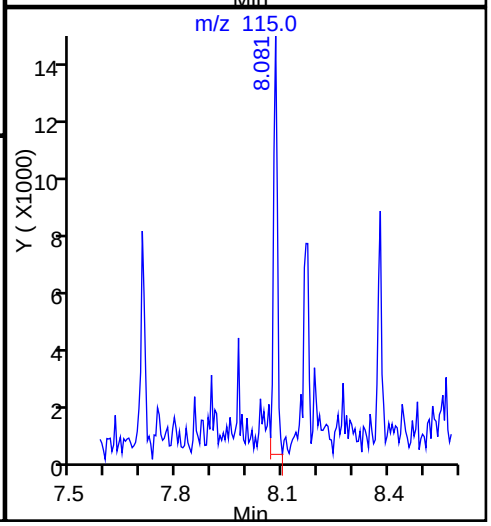


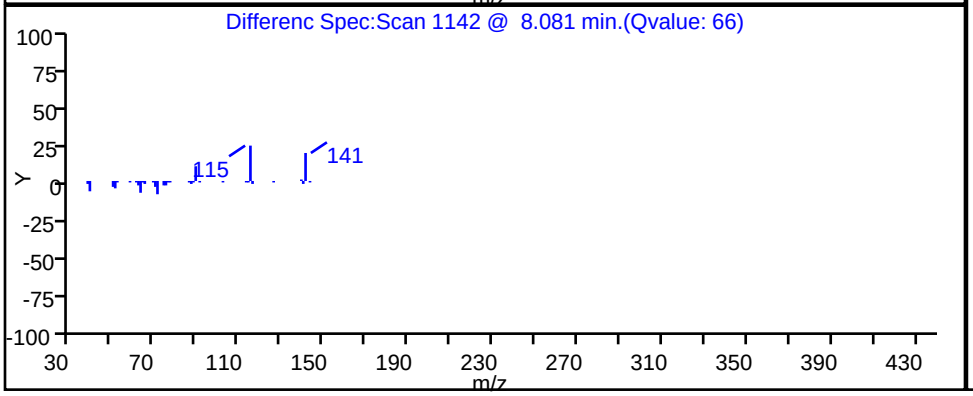












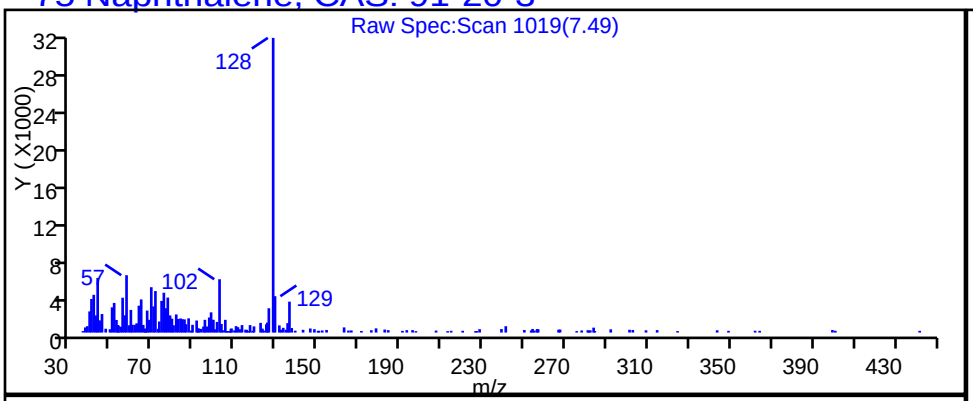
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

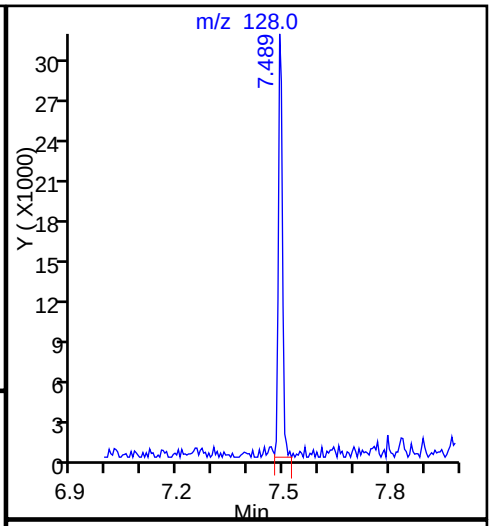
TestAmerica Canton

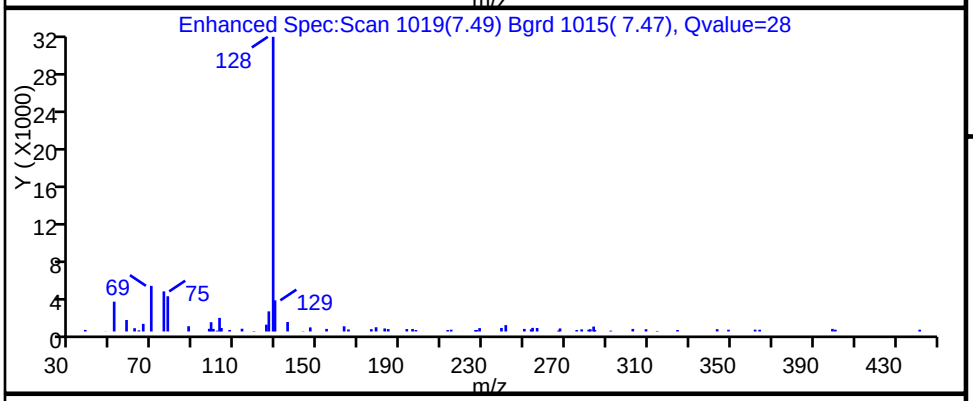
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

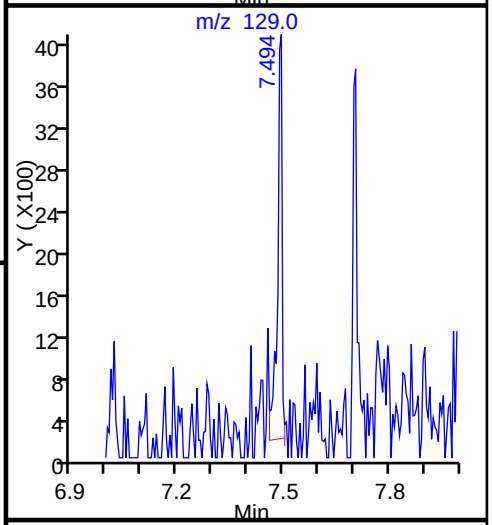
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

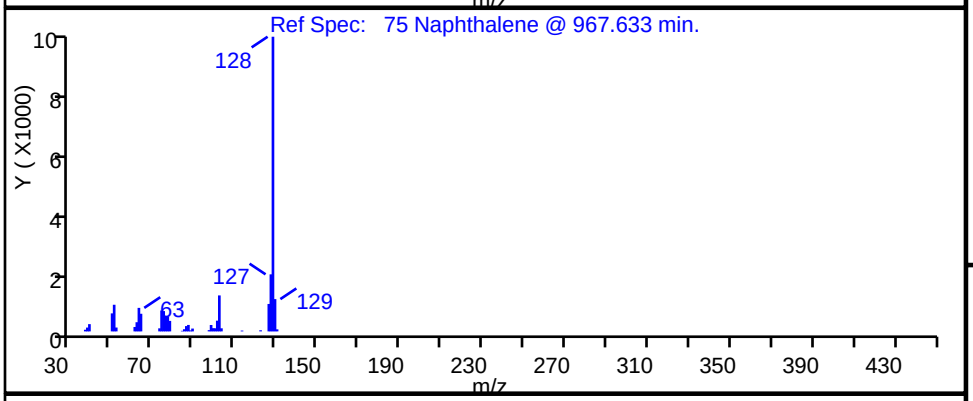
75 Naphthalene, CAS: 91-20-3

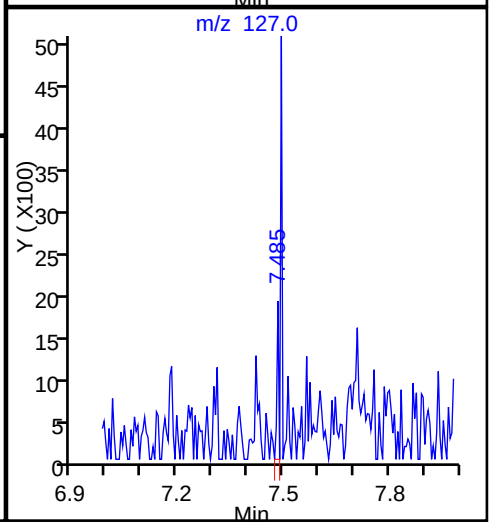


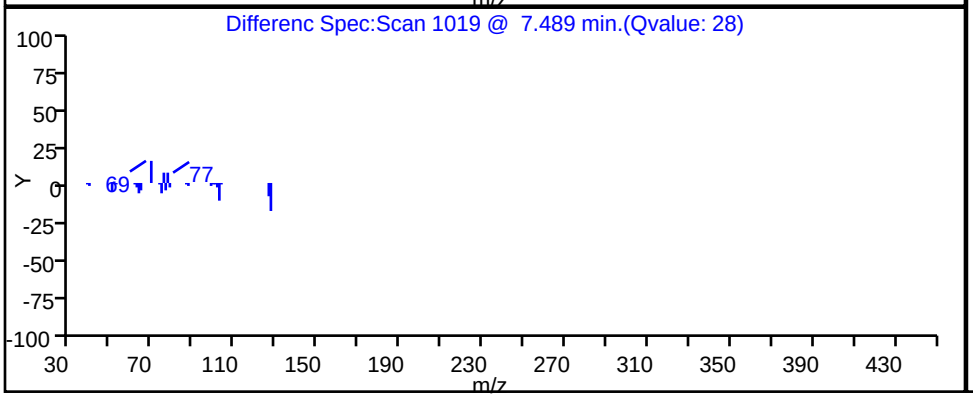












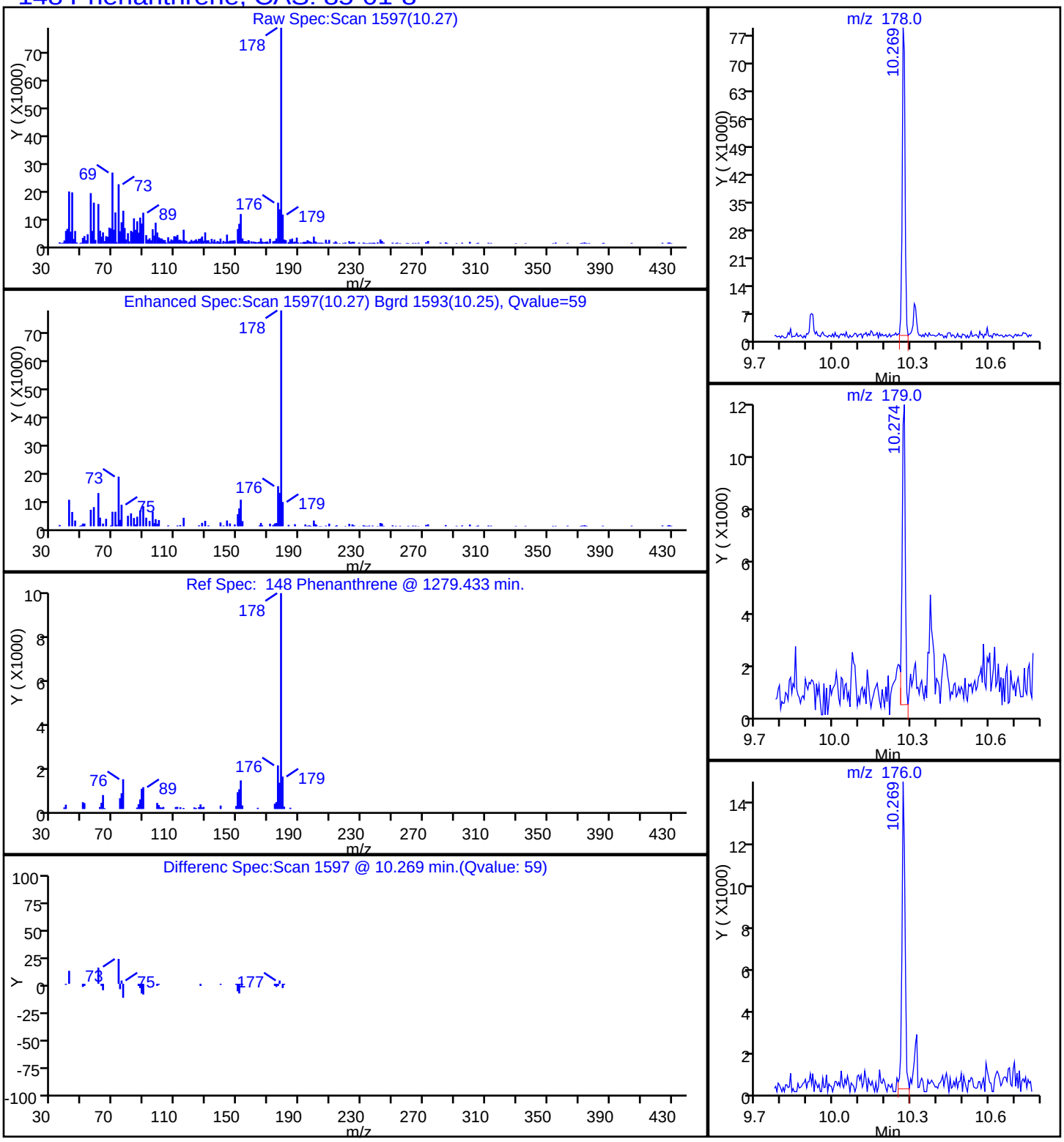
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

148 Phenanthrene, CAS: 85-01-8



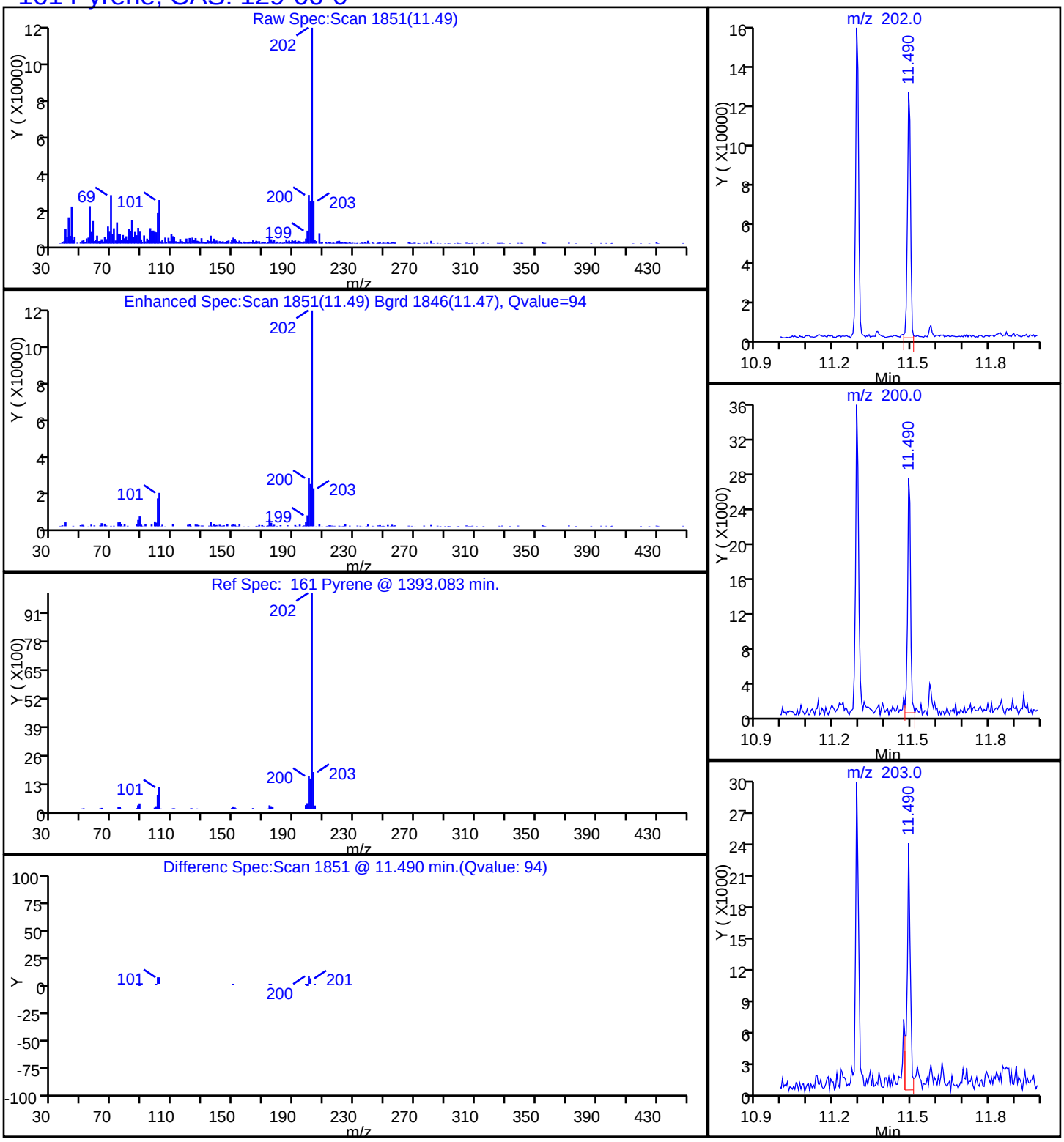
Report Date: 23-Apr-2015 09:37:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D

Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

161 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

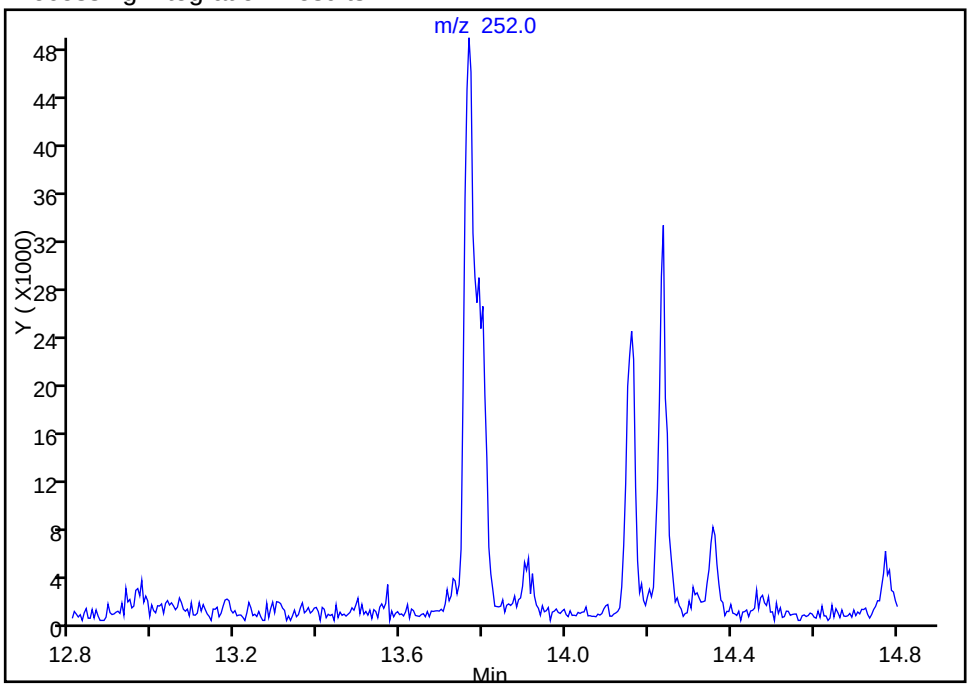
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D				
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

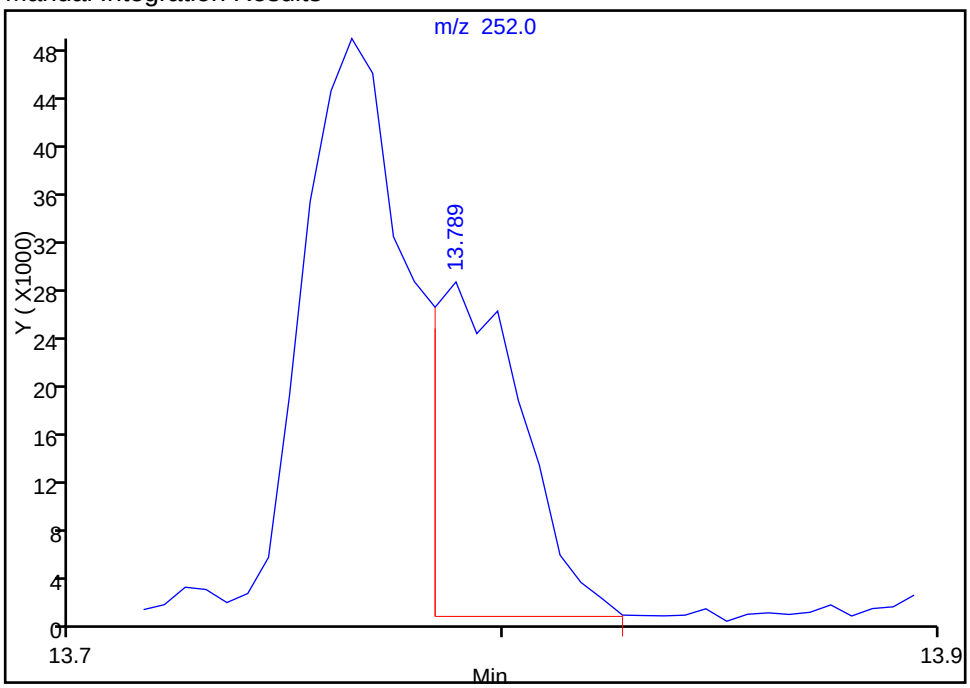
Not Detected
Expected RT: 13.80

Processing Integration Results



Manual Integration Results

RT: 13.79
Area: 40767
Amount: 0.228327
Amount Units: ng/ul



Reviewer: ulmanm, 22-Apr-2015 14:21:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

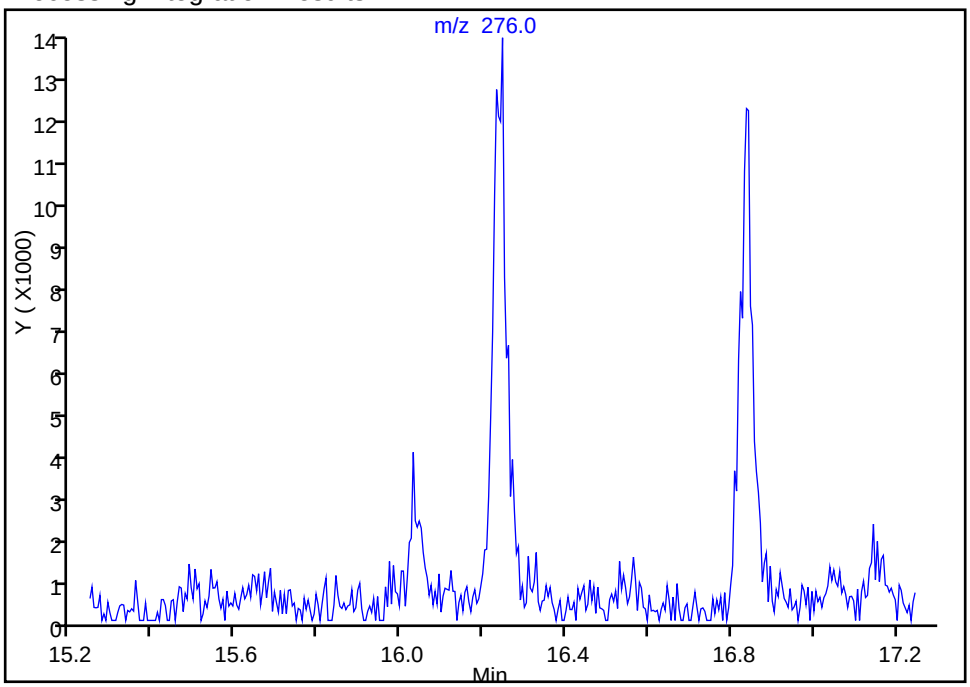
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422017.D				
Injection Date:	22-Apr-2015 13:54:30	Instrument ID:	A4HP9		
Lims ID:	240-49071-A-2-I	Lab Sample ID:	240-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	001574	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

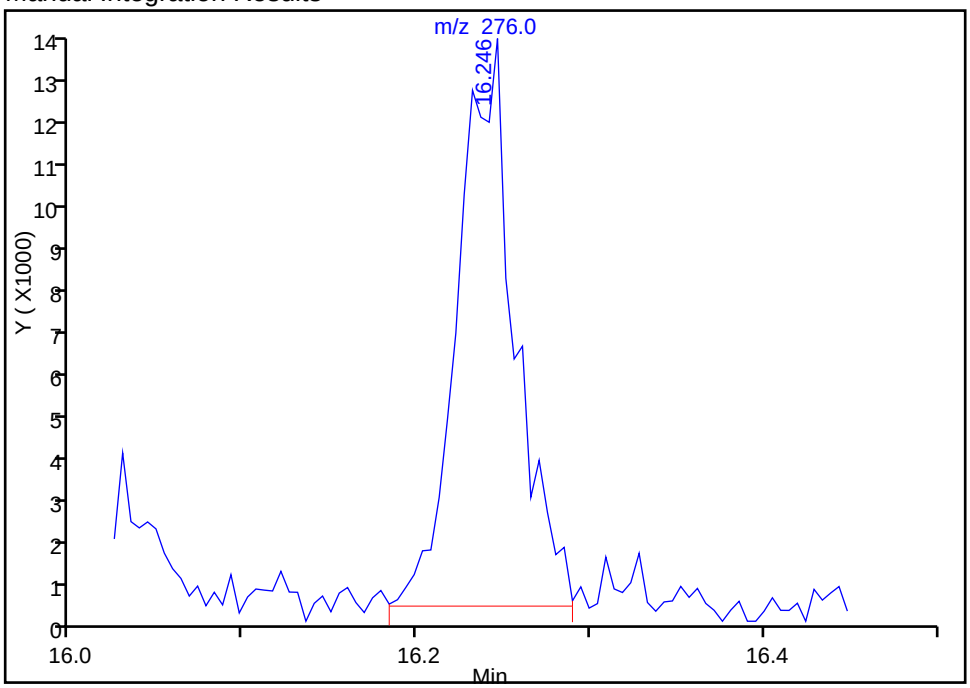
Not Detected
Expected RT: 16.25

Processing Integration Results



Manual Integration Results

RT: 16.25
Area: 30503
Amount: 0.178000
Amount Units: ng/ul



Reviewer: ulmanm, 22-Apr-2015 14:21:43
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177011/6	50420006.D
Level 2	STD2 240-177011/5	50420005.D
Level 3	STD3 240-177011/4	50420004.D
Level 4	STD4 240-177011/3	50420003.D
Level 5	STD5 240-177011/2	50420002.D
Level 6	STD6 240-177011/10	50420010.D
Level 7	STD7 240-177011/9	50420009.D
Level 8	STD8 240-177011/8	50420008.D
Level 9	STD9 240-177011/7	50420007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.8274	0.7676 0.9104	0.8138 0.9534	0.7503 1.0129	0.7558	Ave		0.8489			0.0500	11.6		15.0			
N-Nitrosodimethylamine	1.3612	1.4118 1.6333	1.4336 1.5442	1.1662 1.5510	1.2315	Ave		1.4166			0.0500	11.4		15.0			
Pyridine	2.2803	1.9393 2.8252	2.2662 2.4382	1.9858 2.5214	1.9799	Ave		2.2796			0.0500	13.6		15.0			
Benzaldehyde	1.7690	1.8216 1.6532	1.9432 1.4927	1.7585 1.5296	1.3886	Ave		1.6696			0.0500	11.2		15.0			
Phenol	2.3945	2.3856 2.4993	2.5659 2.3601	2.3504 2.5230	2.0248	Ave		2.3879			0.0500	7.0		15.0			
Aniline	3.0040	3.2450 3.0899	3.1887 2.9150	2.8464 2.9473	2.4995	Ave		2.9670			0.0500	7.8		15.0			
Bis(2-chloroethyl)ether	2.0817	2.2358 2.0693	2.0720 1.9548	1.8349 2.0339	1.7291	Ave		2.0015			0.0500	7.9		15.0			
2-Chlorophenol	1.4140	1.4932 1.4382	1.4228 1.3510	1.3093 1.3948	1.3577	Ave		1.3976			0.0500	4.1		15.0			
1,3-Dichlorobenzene	1.4859	1.5538 1.5568	1.5384 1.4812	1.4143 1.5432	1.5197	Ave		1.5116			0.0500	3.2		15.0			
1,4-Dichlorobenzene	1.5384	1.5241 1.6366	1.5876 1.5437	1.3749 1.5766	1.4852	Ave		1.5334			0.0500	5.1		15.0			
Benzyl alcohol	1.1245	1.0704 1.1592	1.1509 1.1051	1.0679 1.1856	1.1475	Ave		1.1264			0.0500	3.8		15.0			
1,2-Dichlorobenzene	1.4264	1.3919 1.5171	1.4561 1.4379	1.2715 1.4802	1.4639	Ave		1.4306			0.0500	5.2		15.0			
2-Methylphenol	1.5444	1.4227 1.6600	1.6102 1.5769	1.3723 1.5956	1.6484	Ave		1.5538			0.0500	6.7		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	1.7431	1.5741 1.6906	1.8606 1.5887	1.2722 1.7238	1.6567	Ave		1.6387			0.0500	10.6		15.0			
Indene	2.7722	2.7285 3.0086	2.9375 2.8598	2.4018 3.0031	2.8301	Ave		2.8177			0.0500	7.0		15.0			
3 & 4 Methylphenol	1.6214	1.6179 1.7389	1.7526 1.6616	1.3945 1.7552	1.6203	Ave		1.6453			0.0500	7.2		15.0			
N-Nitrosodi-n-propylamine	1.7200	1.5989 1.8215	1.8775 1.7120	1.5008 1.8230	1.7084	Ave		1.7203			0.0500	7.2		15.0			
Acetophenone	2.3629	2.2750 2.5703	2.4942 2.4032	2.0506 2.5630	2.3421	Ave		2.3827			0.0500	7.2		15.0			
Hexachloroethane	0.6695	0.6889 0.7884	0.7125 0.7520	0.6352 0.7794	0.7989	Ave		0.7281			0.0500	8.3		15.0			
Nitrobenzene	0.6420	0.6727 0.6490	0.7923 0.6439	0.6184 0.6705	0.6891	Ave		0.6722			0.0500	7.9		15.0			
Isophorone	1.1040	1.0665 1.1338	1.1790 1.1344	1.0819 1.1772	1.2126	Ave		1.1362			0.0500	4.5		15.0			
2-Nitrophenol	0.1781	0.1850 0.1904	0.1811 0.1904	0.1682 0.2004	0.1921	Ave		0.1857			0.0500	5.3		15.0			
2,4-Dimethylphenol	0.4800	0.4712 0.4913	0.5137 0.4837	0.4750 0.5130	0.5133	Ave		0.4926			0.0500	3.7		15.0			
Benzoic acid	0.1995	+++++ 0.2358	0.1028 0.2345	0.1349 0.2415	0.2022	Lin1	-0.349	0.2419			0.0500				0.9970		0.9950
Bis(2-chloroethoxy)methane	0.5702	0.5331 0.5812	0.5618 0.5791	0.5247 0.6053	0.6177	Ave		0.5716			0.0500	5.6		15.0			
2,4-Dichlorophenol	0.2902	0.2948 0.3047	0.2884 0.3075	0.2822 0.3116	0.2951	Ave		0.2968			0.0500	3.4		15.0			
1,2,4-Trichlorobenzene	0.3343	0.3302 0.3276	0.3315 0.3294	0.3063 0.3433	0.3149	Ave		0.3272			0.0500	3.5		15.0			
Naphthalene	1.2289 1.0156	1.0718 1.0465	1.0852 1.0599	0.9615 1.0866	1.0631	Ave		1.0688			0.0500	6.7		15.0			
4-Chloroaniline	0.4610	0.4463 0.4724	0.4490 0.4946	0.4353 0.4786	0.4961	Ave		0.4667			0.0500	4.8		15.0			
2,6-Dichlorophenol	0.2855	0.2885 0.2956	0.2938 0.2947	0.2780 0.3053	0.2928	Ave		0.2918			0.0500	2.7		15.0			
Hexachlorobutadiene	0.2211	0.2132 0.2203	0.2359 0.2193	0.2092 0.2292	0.2127	Ave		0.2201			0.0500	4.0		15.0			
Caprolactam	0.1192	0.1199 0.1302	0.1212 0.1288	0.1157 0.1339	0.1326	Ave		0.1252			0.0500	5.6		15.0			
4-Chloro-3-methylphenol	0.4108	0.4074 0.4299	0.3827 0.4328	0.3981 0.4461	0.4328	Ave		0.4176			0.0500	5.1		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylnaphthalene	0.8351 0.6775	0.6562 0.7146	0.6903 0.7062	0.6380 0.7325	0.6665	Ave		0.7019			0.0500	8.3		15.0			
1-Methylnaphthalene	0.6723 0.5733	0.5702 0.6008	0.5531 0.6093	0.5505 0.6347	0.5908	Ave		0.5950			0.0500	6.7		15.0			
Hexachlorocyclopentadiene	 0.3784	0.3525 0.3926	0.3802 0.3932	0.3349 0.3928	0.3666	Ave		0.3739			0.0500	5.7		15.0			
1,2,4,5-Tetrachlorobenzene	 0.5843	0.5883 0.5887	0.5811 0.5766	0.5601 0.5772	0.5554	Ave		0.5765			0.0500	2.2		15.0			
2,4,6-Trichlorophenol	 0.3830	0.3700 0.4009	0.3764 0.3974	0.3609 0.4102	0.3772	Ave		0.3845			0.0500	4.4		15.0			
2,4,5-Trichlorophenol	 0.3922	0.4094 0.4128	0.3849 0.4070	0.3853 0.4136	0.4060	Ave		0.4014			0.0500	3.0		15.0			
1,1'-Biphenyl	1.7681 1.3332	1.3588 1.4155	1.3748 1.3825	1.2370 1.3946	1.3679	Ave		1.4036			0.0500	10.4		15.0			
2-Chloronaphthalene	1.3999 1.0796	1.0820 1.1053	1.0291 1.0847	1.0152 1.1262	1.0724	Ave		1.1105			0.0500	10.2		15.0			
2-Nitroaniline	 0.5578	0.5352 0.5861	0.5437 0.5635	0.5280 0.5652	0.6234	Ave		0.5629			0.0500	5.4		15.0			
Dimethyl phthalate	 1.2330	1.2424 1.2778	1.2585 1.2541	1.1874 1.2429	1.2916	Ave		1.2485			0.0500	2.5		15.0			
1,3-Dinitrobenzene	 0.2046	0.1901 0.2115	0.1623 0.2102	0.1964 0.2133	0.2134	Ave		0.2002			0.0500	8.8		15.0			
2,6-Dinitrotoluene	 0.2898	0.3101 0.3050	0.2844 0.2894	0.2726 0.2906	0.2970	Ave		0.2924			0.0500	4.0		15.0			
Acenaphthylene	1.8456 1.6814	1.6488 1.7816	1.6312 1.7309	1.5942 1.7790	1.7431	Ave		1.7151			0.0500	4.8		15.0			
3-Nitroaniline	 0.2812	0.2856 0.2968	0.2980 0.2875	0.2828 0.2965	0.3035	Ave		0.2915			0.0500	2.8		15.0			
2,4-Dinitrophenol	 0.1700	+++++ 0.2032	0.1107 0.2076	0.1232 0.2163	0.1684	Lin	-0.498	0.2211			0.0500				0.9960		0.9950
Acenaphthene	1.3037 1.0727	1.0699 1.1082	1.0937 1.1174	1.0568 1.1280	1.0923	Ave		1.1159			0.0500	6.6		15.0			
4-Nitrophenol	 0.2689	0.2408 0.3028	0.2835 0.2850	0.2669 0.2847	0.2806	Ave		0.2767			0.0500	6.6		15.0			
2,4-Dinitrotoluene	 0.3677	0.3498 0.4012	0.3797 0.3971	0.3639 0.4042	0.3914	Ave		0.3819			0.0500	5.2		15.0			
Dibenzofuran	1.5993 1.4875	1.4652 1.5932	1.5116 1.5433	1.4256 1.5714	1.4703	Ave		1.5186			0.0500	4.1		15.0			
2,3,4,6-Tetrachlorophenol	 0.3259	0.3219 0.3383	0.3004 0.3322	0.3094 0.3366	0.3210	Ave		0.3232			0.0500	4.1		15.0			

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

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

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 | GC Column: RXI-5SILMS | ID: 0.45(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 | Calibration End Date: 04/20/2015 12:41 | Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Diethyl phthalate	1.1650	1.3756 1.2425	1.3455 1.2299	1.2327 1.2874	1.2000	Ave		1.2598			0.0500	5.7		15.0			
4-Chlorophenyl phenyl ether	0.6374	0.6737 0.6755	0.6929 0.6488	0.6238 0.6529	0.5725	Ave		0.6472			0.0500	5.8		15.0			
4-Nitroaniline	0.2854	0.2800 0.3163	0.2697 0.3035	0.2632 0.3057	0.2347	Ave		0.2823			0.0500	9.4		15.0			
Fluorene	1.3697 1.2381	1.3615 1.3323	1.2757 1.2839	1.2132 1.3001	1.0977	Ave		1.2747			0.0500	6.6		15.0			
4,6-Dinitro-2-methylphenol	0.1467	0.0592 0.1469	0.0965 0.1343	0.1068 0.1534	0.1370	Lin1	-0.103	0.1481			0.0500				0.9970		0.9950
N-Nitrosodiphenylamine	0.6212	0.4738 0.5312	0.5336 0.4830	0.5143 0.5519	0.5926	Ave		0.5377			0.0500	9.4		15.0			
1,2-Diphenylhydrazine(as Azobenzene)	1.3306	0.9523 1.1418	1.1141 0.9943	1.0630 1.0965	1.2530	Ave		1.1174			0.0500	11.4		15.0			
Azobenzene	1.3307	0.9443 1.1418	1.1161 0.9942	1.0624 1.0965	1.2534	Ave		1.1174			0.0500	11.4		15.0			
4-Bromophenyl phenyl ether	0.2473	0.1813 0.2152	0.1993 0.1812	0.1862 0.2071	0.2213	Ave		0.2049			0.0500	11.2		15.0			
Hexachlorobenzene	0.2340 0.2277	0.1862 0.1951	0.2106 0.1758	0.1796 0.1945	0.2123	Ave		0.2018			0.0500	10.2		15.0			
Atrazine	0.2409	0.1824 0.2153	0.2033 0.1887	0.1774 0.2184	0.2223	Ave		0.2061			0.0500	10.7		15.0			
Pentachlorophenol	0.1521	0.0836 0.1479	0.1142 0.1385	0.1128 0.1442	0.1399	Lin1	-0.069	0.1461			0.0500				0.9980		0.9950
Phenanthrene	1.1874 1.0779	1.0935 1.0404	1.0534 0.9895	0.9313 1.0808	0.9982	Ave		1.0503			0.0500	7.0		15.0			
Anthracene	1.1108 1.0803	1.0500 1.0551	1.0414 1.0188	0.9615 1.1049	1.0250	Ave		1.0498			0.0500	4.4		15.0			
Carbazole	1.0216	0.9300 1.0110	0.9060 0.9526	0.8023 0.9429	0.9367	Ave		0.9379			0.0500	7.2		15.0			
Di-n-butyl phthalate	1.3370	1.1699 1.3093	0.9975 1.2310	0.9217 1.2303	1.2010	Ave		1.1747			0.0500	12.3		15.0			
Fluoranthene	1.0902 1.3564	1.1516 1.3430	1.2793 1.1693	1.0115 1.2653	1.2459	Ave		1.2125			0.0500	9.5		15.0			
Benzidine	0.6447	0.4344 0.6789	0.5425 0.6490	0.5206 0.5945	0.5765	Ave		0.5801			0.0500	13.8		15.0			
Pyrene	1.0397 1.1000	1.0764 1.1311	1.1883 1.1228	0.9676 1.1378	1.0971	Ave		1.0956			0.0500	5.8		15.0			
Butyl benzyl phthalate	0.5017	0.4580 0.5142	0.5591 0.5009	0.5195 0.5155	0.5055	Ave		0.5093			0.0500	5.5		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bis(2-ethylhexyl) phthalate	0.6600	0.6531 0.6790	0.6680 0.6860	0.6667 0.6946	0.7013	Ave		0.6761			0.0500	2.5		15.0			
3,3'-Dichlorobenzidine	0.3627	0.3325 0.3793	0.3630 0.3785	0.3586 0.3874	0.3541	Ave		0.3645			0.0500	4.8		15.0			
Benzo[a]anthracene	1.3040 1.1016	1.0922 1.1193	1.1434 1.1111	1.0262 1.1355	1.0821	Ave		1.1239			0.0500	6.7		15.0			
Chrysene	1.1271 1.0186	1.0190 1.0356	1.0391 1.0249	0.9270 1.0548	0.9990	Ave		1.0272			0.0500	5.1		15.0			
Di-n-octyl phthalate	1.4062	1.3013 1.4613	1.4038 1.3817	1.3461 1.5026	1.4631	Ave		1.4083			0.0500	4.7		15.0			
Benzo[b]fluoranthene	1.3889 1.2245	1.1952 1.2273	1.1763 1.1601	1.1022 1.2301	1.1434	Ave		1.2053			0.0500	6.7		15.0			
Benzo[k]fluoranthene	1.2849 1.2268	1.1423 1.2299	1.2183 1.2687	1.1439 1.2170	1.1941	Ave		1.2140			0.0500	4.0		15.0			
Benzo[a]pyrene	1.1605 1.1620	1.1566 1.1723	1.1252 1.1646	1.0489 1.2465	1.1208	Ave		1.1508			0.0500	4.6		15.0			
Indeno[1,2,3-cd]pyrene	1.2320 1.2555	1.0666 1.2766	1.1171 1.1798	1.1098 1.0909	1.1582	Ave		1.1652			0.0500	6.5		15.0			
Dibenz(a,h)anthracene	1.0367 1.0392	0.8693 1.0359	0.9392 0.9809	0.8878 0.9113	0.9517	Ave		0.9613			0.0500	6.8		15.0			
Benzo[g,h,i]perylene	1.1532 0.9492	0.9669 0.9483	0.9744 0.9256	0.9570 0.8385	0.9824	Ave		0.9662			0.0500	8.5		15.0			
2-Fluorophenol (Surr)	1.5927	1.3820 1.6570	1.2962 1.7318	1.3845 +++++	1.2627	Ave		1.4724			0.0500	12.6		15.0			
Phenol-d5 (Surr)	2.2418	2.2839 2.2638	2.3549 2.1349	2.1700 2.3096	1.8618	Ave		2.2026			0.0500	7.0		15.0			
Nitrobenzene-d5 (Surr)	0.6936 0.7097	0.6931 0.7037	0.8904 0.7067	0.6589 0.7375	0.7589	Ave		0.7281			0.0500	9.2		15.0			
2-Fluorobiphenyl (Surr)	1.6811 1.2861	1.3263 1.3440	1.3180 1.3107	1.2046 1.3274	1.3057	Ave		1.3449			0.0500	9.8		15.0			
2,4,6-Tribromophenol (Surr)	0.1434	0.1649 0.1543	0.1489 0.1457	0.1472 0.1523	0.1281	Ave		0.1481			0.0500	7.1		15.0			
Terphenyl-d14 (Surr)	0.9402 0.8081	0.7228 0.8301	0.8645 0.8080	0.7385 0.8308	0.7821	Ave		0.8139			0.0500	8.0		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-177011/6	50420006.D
Level 2	STD2 240-177011/5	50420005.D
Level 3	STD3 240-177011/4	50420004.D
Level 4	STD4 240-177011/3	50420003.D
Level 5	STD5 240-177011/2	50420002.D
Level 6	STD6 240-177011/10	50420010.D
Level 7	STD7 240-177011/9	50420009.D
Level 8	STD8 240-177011/8	50420008.D
Level 9	STD9 240-177011/7	50420007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	250452	12415 432945	28154 651861	46428 796449	113568	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	412035	22836 776721	49598 1055854	72164 1219548	185034	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	690245	31368 1343545	78404 1667107	122879 1982612	297494	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzaldehyde	DCB	Ave	1070982	58929 1572425	134461 2041192	217627 2405523	417301	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenol	DCB	Ave	724815	38586 1188566	88772 1613653	145439 1983859	304234	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	909306	52486 1469438	110321 1993104	176128 2317533	375559	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	630143	36164 984085	71684 1336553	113541 1599325	259808	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	428031	24152 683952	49226 923734	81014 1096775	204000	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	449776	25132 740346	53223 1012760	87512 1213423	228339	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	465688	24652 778292	54926 1055490	85074 1239675	223162	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	340396	17314 551283	39819 755608	66079 932286	172419	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	431764	22513 721454	50376 983121	78676 1163941	219958	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	467486	23011 789417	55709 1078178	84913 1254684	247678	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
bis (2-chloroisopropyl) ether	DCB	Ave	527630	25460 803960	64371 1086251	78723 1355437	248931	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Indene	DCB	Ave	1678273	88266 2861485	203257 3910748	297237 4722832	850468	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
3 & 4 Methylphenol	DCB	Ave	490810	26169 826942	60636 1136122	86287 1380158	243462	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	520644	25861 866229	64956 1170582	92866 1433453	256699	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	715238	36798 1222345	86292 1643167	126883 2015330	351915	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	202668	11143 374905	24650 514178	39306 612821	120045	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	625710	38625 1228211	89165 1652384	127650 1967292	402489	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1076036	61236 2145665	132684 2910921	223337 3453992	708267	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	173620	10624 360286	20385 488712	34713 587986	112221	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	467864	27053 929670	57805 1241302	98044 1505005	299810	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Lin1	388824	+++++ 892363	23148 1203448	55684 1417052	236210	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	555739	30610 1099899	63225 1486134	108313 1775944	360808	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	282843	16926 576680	32457 788964	58252 914165	172392	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	325786	18960 620048	37301 845301	63229 1007107	183941	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	15960 989882	61542 1980465	122125 2719900	198476 3188013	620980	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	449363	25628 894045	50525 1269310	89852 1404257	289781	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dichlorophenol	NPT	Ave	278271	16565 559350	33065 756155	57397 895770	171027	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	215473	12242 416879	26546 562810	43195 672471	124258	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Caprolactam	NPT	Ave	232280	13773 492788	27278 661152	47758 785426	154883	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
4-Chloro-3-methylphenol	NPT	Ave	400395	23393 813536	43072 1110751	82187 1308872	252818	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	10845 660361	37676 1352305	77680 1812135	131706 2149188	389317	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1-Methylnaphthalene	NPT	Ave	8731 558738	32739 1136983	62239 1563474	113631 1862085	345075	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexachlorocyclopentadiene	ANT	Ave	222471	11701 444101	25705 627336	41670 734839	126881	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	343522	19527 665913	39289 919927	69690 1079990	192205	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	225159	12282 453458	25449 633938	44903 767417	130537	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	230561	13589 466898	26021 649252	47946 773840	140499	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,1'-Biphenyl	ANT	Ave	12497 783827	45100 1601199	92958 2205577	153907 2609206	473395	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	9895 634735	35914 1250248	69583 1730417	126318 2107044	371151	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	327945	17765 662998	36760 898959	65699 1057455	215737	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	724944	41236 1445412	85088 2000756	147743 2325490	446994	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dinitrobenzene	ANT	Ave	120299	6308 239221	10972 335275	24433 399169	73857	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	170395	10291 345048	19230 461665	33917 543717	102783	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	13045 988563	54725 2015345	110288 2761388	198356 3328512	603245	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	165332	9479 335723	20148 458690	35188 554662	105023	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Lin	199890	+++++ 459799	14970 662271	30662 809332	116570	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Acenaphthene	ANT	Ave	9215 630690	35510 1253565	73947 1782594	131490 2110449	378038	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitrophenol	ANT	Ave	316160	15982 684980	38334 909471	66426 1065502	194251	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Ave	216205	11611 453778	25674 633526	45284 756173	135453	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	11304 874539	48630 1802230	102207 2462138	177381 2940156	508841	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	191582	10685 382719	20309 530025	38497 629702	111077	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	684970	45657 1405436	90972 1962074	153382 2408629	415298	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	374725	22361 764132	46852 1035111	77614 1221605	198146	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Ave	167796	9292 357822	18232 484148	32749 571890	81243	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Fluorene	ANT	Ave	9681 727918	45190 1507017	86254 2048241	150950 2432427	379911	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4,6-Dinitro-2-methylphenol	PHN	Lin1	 260952	8557 603382	23579 838422	48344 1014166	135939	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	 1105278	68536 2181833	130359 3015749	232813 3649375	587851	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	 1183693	68881 2344695	136085 3104162	240611 3625120	621470	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	 1183790	68299 2344821	136330 3103823	240473 3624950	621673	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	 220036	13116 441862	24343 565762	42148 684530	109755	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobenzene	PHN	Ave	2911 202550	13471 400652	25722 548893	40661 643091	105274	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Atrazine	PHN	Ave	 428554	26388 884159	49677 1177907	80307 1444150	220543	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pentachlorophenol	PHN	Lin1	 270585	12090 607473	27906 864536	51075 953443	138761	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	14773 958907	79088 2136444	128672 3089079	210811 3573119	495077	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	13820 961032	75943 2166727	127200 3180671	217629 3652900	508399	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	 908795	67265 2076150	110668 2973846	181612 3117134	464578	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	 1189386	84614 2688668	121845 3843140	208631 4067476	595667	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	13563 1206648	83292 2757839	156263 3650270	228948 4183231	617930	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Ave	 1509185	64861 3193120	149760 4240526	259502 4548704	701742	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Pyrene	CRY	Ave	14841 1287533	80367 2659722	164008 3668016	241147 4352476	667703	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	 587187	34193 1209148	77170 1636215	129472 1972015	307666	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	 772509	48766 1596675	92201 2240970	166156 2657049	426816	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	 849183	49655 1783742	100198 2472940	178728 2963930	431003	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	18614 1289434	81549 2631956	157819 3629694	255751 4343670	658559	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	16089 1192213	76081 2435297	143418 3348051	231040 4035079	608000	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177011

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2015 08:49 Calibration End Date: 04/20/2015 12:41 Calibration ID: 28003

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Di-n-octyl phthalate	PRY	Ave	1343351	79206 2860004	159946 3907617	282511 5115692	737254	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[b]fluoranthene	PRY	Ave	16357 1169783	72747 2402031	134018 3280855	231320 4188034	576132	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	15132 1171945	69527 2407128	138809 3588251	240080 4143610	601666	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	13667 1110022	70401 2294348	128202 3293663	220146 4244066	564746	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	14509 1199340	64921 2498527	127282 3336574	232922 3714112	583590	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	12210 992770	52913 2027396	107009 2774062	186338 3102596	479534	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	13582 906776	58855 1856012	111014 2617903	200853 2854916	495009	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol (Surr)	DCB	Ave	482119	22354 788012	44846 1184060	85669 +++++	189727	10.0	0.500 15.0	1.00 20.0	2.00 +++++	5.00
Phenol-d5 (Surr)	DCB	Ave	678589	36942 1076581	81474 1459687	134276 1816095	279750	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5 (Surr)	NPT	Ave	9007 691689	39795 1331714	100203 1813424	136022 2163859	443304	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	11882 756135	44021 1520261	89117 2091076	149886 2483500	451866	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol (Surr)	ANT	Ave	84325	5472 174572	10068 232521	18319 285003	44343	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14 (Surr)	CRY	Ave	13421 945831	53965 1952012	119323 2639723	184049 3178109	475981	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

Curve Type Legend:

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

Report Date: 21-Apr-2015 07:00:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420002.D
Lims ID: std5 lst1
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Apr-2015 08:49:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-002
Misc. Info.: STD5 LST1STD5 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:49 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 09:18:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.378	6.378	0.000	86	120205	4.00	4.00	
* 2 Naphthalene-d8	136	7.494	7.494	0.000	98	467285	4.00	4.00	
* 3 Acenaphthene-d10	164	9.004	9.004	0.000	79	276868	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	98	396785	4.00	4.00	
* 5 Chrysene-d12	240	12.572	12.572	0.000	79	486868	4.00	4.00	
* 6 Perylene-d12	264	14.361	14.361	0.000	98	403106	4.00	4.00	
$ 7 2-Fluorophenol	112	5.162	5.162	0.000	90	189727	5.00	4.29	
$ 8 Phenol-d5	99	6.013	6.013	0.000	78	279750	5.00	4.23	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	82	443304	5.00	5.21	
$ 10 2-Fluorobiphenyl (Surr)	172	8.398	8.398	0.000	97	451866	5.00	4.85	
$ 11 2,4,6-Tribromophenol	330	9.672	9.672	0.000	83	44343	5.00	4.33	
$ 12 Terphenyl-d14	244	11.601	11.601	0.000	98	475981	5.00	4.80	
25 1,4-Dioxane	88	3.079	3.079	0.000	92	113568	5.00	4.45	
26 N-Nitrosodimethylamine	74	3.560	3.560	0.000	86	185034	5.00	4.35	
27 Pyridine	79	3.618	3.618	0.000	81	297494	5.00	4.34	
41 Benzaldehyde	77	5.984	5.984	0.000	81	417301	10.0	8.32	
43 Phenol	94	6.027	6.027	0.000	84	304234	5.00	4.24	
44 Aniline	93	6.075	6.075	0.000	79	375559	5.00	4.21	
69 Bis(2-chloroethyl)ether	93	6.114	6.114	0.000	93	259808	5.00	4.32	
46 2-Chlorophenol	128	6.196	6.196	0.000	85	204000	5.00	4.86	
243 n-Decane	57	6.224	6.224	0.000	96	272704	NC	NC	
47 1,3-Dichlorobenzene	146	6.335	6.335	0.000	79	228339	5.00	5.03	
48 1,4-Dichlorobenzene	146	6.398	6.398	0.000	66	223162	5.00	4.84	
49 Benzyl alcohol	108	6.474	6.474	0.000	82	172419	5.00	5.09	
50 1,2-Dichlorobenzene	146	6.537	6.537	0.000	77	219958	5.00	5.12	
51 2-Methylphenol	108	6.566	6.566	0.000	78	247678	5.00	5.30	
53 2,2'-oxybis[1-chloropropan	45	6.595	6.595	0.000	97	248931	5.00	5.05	
52 Indene	115	6.614	6.614	0.000	67	850468	10.0	10.0	
21 3 & 4 Methylphenol	108	6.691	6.691	0.000	94	243462	5.00	4.92	
57 N-Nitrosodi-n-propylamine	70	6.705	6.705	0.000	96	256699	5.00	4.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.715	6.715	0.000	79	351915	5.00	4.91	
61 Hexachloroethane	117	6.840	6.840	0.000	89	120045	5.00	5.49	
62 Nitrobenzene	77	6.869	6.869	0.000	70	402489	5.00	5.13	
64 Isophorone	82	7.071	7.071	0.000	94	708267	5.00	5.34	
66 2-Nitrophenol	139	7.153	7.153	0.000	78	112221	5.00	5.17	
65 2,4-Dimethylphenol	107	7.157	7.157	0.000	94	299810	5.00	5.21	
71 Benzoic acid	122	7.196	7.196	0.000	79	236210	10.0	9.81	
70 Bis(2-chloroethoxy)methane	93	7.234	7.234	0.000	90	360808	5.00	5.40	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	90	172392	5.00	4.97	
74 1,2,4-Trichlorobenzene	180	7.441	7.441	0.000	86	183941	5.00	4.81	
75 Naphthalene	128	7.513	7.513	0.000	97	620980	5.00	4.97	
76 4-Chloroaniline	127	7.532	7.532	0.000	40	289781	5.00	5.32	
77 2,6-Dichlorophenol	162	7.552	7.552	0.000	57	171027	5.00	5.02	
79 Hexachlorobutadiene	225	7.619	7.619	0.000	86	124258	5.00	4.83	
84 Caprolactam	113	7.807	7.807	0.000	77	154883	10.0	10.6	
86 4-Chloro-3-methylphenol	107	7.922	7.922	0.000	78	252818	5.00	5.18	
87 2-Methylnaphthalene	142	8.105	8.105	0.000	80	389317	5.00	4.75	
88 1-Methylnaphthalene	142	8.191	8.191	0.000	79	345075	5.00	4.96	
89 Hexachlorocyclopentadiene	237	8.244	8.244	0.000	88	126881	5.00	4.90	
91 1,2,4,5-Tetrachlorobenzene	216	8.249	8.249	0.000	93	192205	5.00	4.82	
92 2,4,6-Trichlorophenol	196	8.331	8.331	0.000	85	130537	5.00	4.91	
93 2,4,5-Trichlorophenol	196	8.364	8.364	0.000	84	140499	5.00	5.06	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	98	473395	5.00	4.87	
100 2-Chloronaphthalene	162	8.523	8.523	0.000	98	371151	5.00	4.83	
102 2-Nitroaniline	65	8.581	8.581	0.000	69	215737	5.00	5.54	
105 Dimethyl phthalate	163	8.715	8.715	0.000	91	446994	5.00	5.17	
106 1,3-Dinitrobenzene	168	8.749	8.749	0.000	80	73857	5.00	5.33	
107 2,6-Dinitrotoluene	165	8.773	8.773	0.000	57	102783	5.00	5.08	
109 Acenaphthylene	152	8.884	8.884	0.000	94	603245	5.00	5.08	
110 3-Nitroaniline	138	8.927	8.927	0.000	74	105023	5.00	5.21	
111 2,4-Dinitrophenol	184	9.014	9.014	0.000	60	116570	10.0	9.87	
112 Acenaphthene	153	9.028	9.028	0.000	89	378038	5.00	4.89	
113 4-Nitrophenol	109	9.038	9.038	0.000	40	194251	10.0	10.1	
114 2,4-Dinitrotoluene	165	9.124	9.124	0.000	79	135453	5.00	5.12	
116 Dibenzofuran	168	9.172	9.172	0.000	85	508841	5.00	4.84	
119 2,3,4,6-Tetrachlorophenol	232	9.268	9.268	0.000	74	111077	5.00	4.97	
121 Diethyl phthalate	149	9.307	9.307	0.000	93	415298	5.00	4.76	
247 Hexadecane	57	9.316	9.316	0.000	96	294474	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.442	9.442	0.000	93	198146	5.00	4.42	
125 4-Nitroaniline	138	9.446	9.446	0.000	72	81243	5.00	4.16	
126 Fluorene	166	9.466	9.466	0.000	46	379911	5.00	4.31	
128 4,6-Dinitro-2-methylphenol	198	9.480	9.480	0.000	91	135939	10.0	9.95	
131 N-Nitrosodiphenylamine	169	9.533	9.533	0.000	96	587851	10.0	11.0	
132 1,2-Diphenylhydrazine	77	9.576	9.576	0.000	99	621470	5.00	5.61	
133 Azobenzene	77	9.576	9.576	0.000	95	621673	5.00	5.61	
139 4-Bromophenyl phenyl ether	248	9.860	9.860	0.000	71	109755	5.00	5.40	
141 Hexachlorobenzene	284	9.951	9.951	0.000	81	105274	5.00	5.26	
142 Atrazine	200	9.956	9.956	0.000	84	220543	10.0	10.8	
244 n-Octadecane	57	10.096	10.096	0.000	88	280916	NC	NC	
143 Pentachlorophenol	266	10.105	10.105	0.000	80	138761	10.0	10.0	
148 Phenanthrene	178	10.293	10.293	0.000	83	495077	5.00	4.75	
149 Anthracene	178	10.336	10.336	0.000	88	508399	5.00	4.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.451	10.451	0.000	84	464578	5.00	4.99	
154 Di-n-butyl phthalate	149	10.692	10.692	0.000	99	595667	5.00	5.11	
159 Fluoranthene	202	11.312	11.312	0.000	99	617930	5.00	5.14	
160 Benzidine	184	11.384	11.384	0.000	88	701742	10.0	9.94	
161 Pyrene	202	11.519	11.519	0.000	97	667703	5.00	5.01	
168 Butyl benzyl phthalate	149	11.976	11.976	0.000	89	307666	5.00	4.96	
173 Bis(2-ethylhexyl) phthalat	149	12.461	12.461	0.000	95	426816	5.00	5.19	
175 3,3'-Dichlorobenzidine	252	12.495	12.495	0.000	56	431003	10.0	9.71	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	88	658559	5.00	4.81	
178 Chrysene	228	12.601	12.601	0.000	92	608000	5.00	4.86	
180 Di-n-octyl phthalate	149	13.125	13.125	0.000	99	737254	5.00	5.19	
182 Benzo[b]fluoranthene	252	13.803	13.803	0.000	83	576132	5.00	4.74	
183 Benzo[k]fluoranthene	252	13.837	13.837	0.000	85	601666	5.00	4.92	
184 Benzo[a]pyrene	252	14.279	14.279	0.000	73	564746	5.00	4.87	
188 Indeno[1,2,3-cd]pyrene	276	16.304	16.304	0.000	94	583590	5.00	4.97	
189 Dibenz(a,h)anthracene	278	16.313	16.313	0.000	80	479534	5.00	4.95	
190 Benzo[g,h,i]perylene	276	16.910	16.910	0.000	91	495009	5.00	5.08	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SMLIST1 L5 W_00005 Amount Added: 1.00 Units: mL

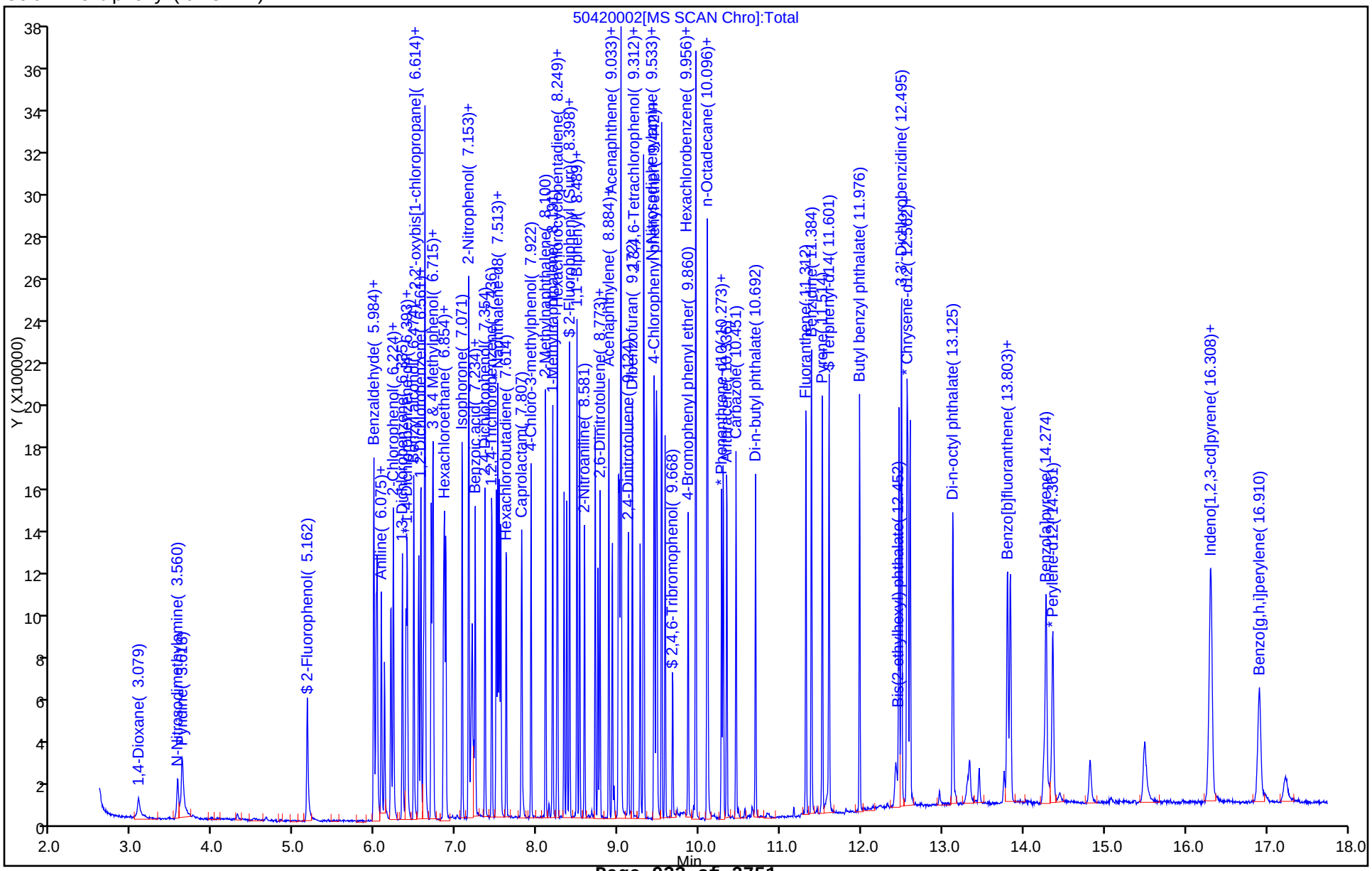
Report Date: 21-Apr-2015 07:00:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420002.D

Injection Date:	20-Apr-2015 08:49:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std5 lst1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D
Lims ID: std4 lst1
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Apr-2015 09:14:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-003
Misc. Info.: STD4 LST1STD4 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:51 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 09:44:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.378	0.004	93	123755	4.00	4.00	
* 2 Naphthalene-d8	136	7.493	7.494	-0.001	97	412858	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.004	-0.001	76	248849	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	94	452708	4.00	4.00	
* 5 Chrysene-d12	240	12.571	12.572	-0.001	79	498464	4.00	4.00	
* 6 Perylene-d12	264	14.355	14.361	-0.006	95	419757	4.00	4.00	
$ 7 2-Fluorophenol	112	5.166	5.162	0.004	91	85669	2.00	1.88	
$ 8 Phenol-d5	99	6.012	6.013	-0.001	79	134276	2.00	1.97	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	83	136022	2.00	1.81	
$ 10 2-Fluorobiphenyl (Surr)	172	8.397	8.398	-0.001	98	149886	2.00	1.79	
$ 11 2,4,6-Tribromophenol	330	9.672	9.672	0.000	80	18319	2.00	1.99	
$ 12 Terphenyl-d14	244	11.600	11.601	-0.001	97	184049	2.00	1.81	
25 1,4-Dioxane	88	3.084	3.079	0.005	84	46428	2.00	1.77	M
26 N-Nitrosodimethylamine	74	3.564	3.560	0.004	84	72164	2.00	1.65	
27 Pyridine	79	3.622	3.618	0.004	93	122879	2.00	1.74	M
41 Benzaldehyde	77	5.983	5.984	-0.001	81	217627	4.00	4.21	
43 Phenol	94	6.027	6.027	0.000	87	145439	2.00	1.97	
44 Aniline	93	6.075	6.075	0.000	83	176128	2.00	1.92	
69 Bis(2-chloroethyl)ether	93	6.113	6.114	-0.001	92	113541	2.00	1.83	
46 2-Chlorophenol	128	6.195	6.196	-0.001	84	81014	2.00	1.87	
243 n-Decane	57	6.224	6.224	0.000	97	107156	NC	NC	
47 1,3-Dichlorobenzene	146	6.334	6.335	-0.001	80	87512	2.00	1.87	
48 1,4-Dichlorobenzene	146	6.397	6.398	-0.001	80	85074	2.00	1.79	
49 Benzyl alcohol	108	6.474	6.474	0.000	77	66079	2.00	1.90	
50 1,2-Dichlorobenzene	146	6.536	6.537	-0.001	84	78676	2.00	1.78	
51 2-Methylphenol	108	6.565	6.566	-0.001	74	84913	2.00	1.77	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.595	0.004	95	78723	2.00	1.55	
52 Indene	115	6.613	6.614	-0.001	75	297237	4.00	3.41	
21 3 & 4 Methylphenol	108	6.690	6.691	-0.001	93	86287	2.00	1.70	
57 N-Nitrosodi-n-propylamine	70	6.705	6.705	0.000	98	92866	2.00	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.714	6.715	-0.001	83	126883	2.00	1.72	
61 Hexachloroethane	117	6.844	6.840	0.004	86	39306	2.00	1.74	
62 Nitrobenzene	77	6.873	6.869	0.004	69	127650	2.00	1.84	
64 Isophorone	82	7.075	7.071	0.004	94	223337	2.00	1.90	
66 2-Nitrophenol	139	7.152	7.153	-0.001	78	34713	2.00	1.81	
65 2,4-Dimethylphenol	107	7.157	7.157	0.000	94	98044	2.00	1.93	
71 Benzoic acid	122	7.181	7.196	-0.015	74	55684	4.00	3.68	M
70 Bis(2-chloroethoxy)methane	93	7.234	7.234	0.000	94	108313	2.00	1.84	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	90	58252	2.00	1.90	
74 1,2,4-Trichlorobenzene	180	7.440	7.441	-0.001	87	63229	2.00	1.87	
75 Naphthalene	128	7.512	7.513	-0.001	91	198476	2.00	1.80	
76 4-Chloroaniline	127	7.532	7.532	0.000	47	89852	2.00	1.87	
77 2,6-Dichlorophenol	162	7.551	7.552	-0.001	58	57397	2.00	1.91	
79 Hexachlorobutadiene	225	7.618	7.619	-0.001	90	43195	2.00	1.90	
84 Caprolactam	113	7.801	7.807	-0.006	77	47758	4.00	3.70	
86 4-Chloro-3-methylphenol	107	7.921	7.922	-0.001	76	82187	2.00	1.91	
87 2-Methylnaphthalene	142	8.104	8.105	-0.001	85	131706	2.00	1.82	
88 1-Methylnaphthalene	142	8.190	8.191	-0.001	80	113631	2.00	1.85	
89 Hexachlorocyclopentadiene	237	8.243	8.244	-0.001	93	41670	2.00	1.79	
91 1,2,4,5-Tetrachlorobenzene	216	8.248	8.249	-0.001	90	69690	2.00	1.94	
92 2,4,6-Trichlorophenol	196	8.330	8.331	-0.001	86	44903	2.00	1.88	
93 2,4,5-Trichlorophenol	196	8.364	8.364	0.000	90	47946	2.00	1.92	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	98	153907	2.00	1.76	
100 2-Chloronaphthalene	162	8.522	8.523	-0.001	97	126318	2.00	1.83	
102 2-Nitroaniline	65	8.580	8.581	-0.001	68	65699	2.00	1.88	
105 Dimethyl phthalate	163	8.715	8.715	0.000	93	147743	2.00	1.90	
106 1,3-Dinitrobenzene	168	8.748	8.749	-0.001	81	24433	2.00	1.96	
107 2,6-Dinitrotoluene	165	8.772	8.773	-0.001	59	33917	2.00	1.86	
109 Acenaphthylene	152	8.883	8.884	-0.001	93	198356	2.00	1.86	
110 3-Nitroaniline	138	8.926	8.927	-0.001	79	35188	2.00	1.94	
111 2,4-Dinitrophenol	184	9.013	9.014	-0.001	78	30662	4.00	4.48	
112 Acenaphthene	153	9.027	9.028	-0.001	95	131490	2.00	1.89	
113 4-Nitrophenol	109	9.032	9.038	-0.006	62	66426	4.00	3.86	
114 2,4-Dinitrotoluene	165	9.123	9.124	-0.001	75	45284	2.00	1.91	
116 Dibenzofuran	168	9.171	9.172	-0.001	86	177381	2.00	1.88	
119 2,3,4,6-Tetrachlorophenol	232	9.268	9.268	0.000	76	38497	2.00	1.91	
121 Diethyl phthalate	149	9.311	9.307	0.004	94	153382	2.00	1.96	
247 Hexadecane	57	9.316	9.316	0.000	95	102593	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.442	-0.001	89	77614	2.00	1.93	
125 4-Nitroaniline	138	9.446	9.446	0.000	72	32749	2.00	1.86	
126 Fluorene	166	9.465	9.466	-0.001	98	150950	2.00	1.90	
128 4,6-Dinitro-2-methylphenol	198	9.479	9.480	-0.001	85	48344	4.00	3.58	
131 N-Nitrosodiphenylamine	169	9.532	9.533	-0.001	99	232813	4.00	3.83	
132 1,2-Diphenylhydrazine	77	9.575	9.576	-0.001	99	240611	2.00	1.90	
133 Azobenzene	77	9.575	9.576	-0.001	95	240473	2.00	1.90	
139 4-Bromophenyl phenyl ether	248	9.859	9.860	-0.001	70	42148	2.00	1.82	
141 Hexachlorobenzene	284	9.955	9.951	0.004	63	40661	2.00	1.78	
142 Atrazine	200	9.955	9.956	-0.001	82	80307	4.00	3.44	
244 n-Octadecane	57	10.095	10.096	-0.001	84	110069	NC	NC	
143 Pentachlorophenol	266	10.104	10.105	-0.001	82	51075	4.00	3.56	
148 Phenanthrene	178	10.292	10.293	-0.001	83	210811	2.00	1.77	
149 Anthracene	178	10.335	10.336	-0.001	88	217629	2.00	1.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.451	10.451	0.000	84	181612	2.00	1.71	
154 Di-n-butyl phthalate	149	10.691	10.692	-0.001	98	208631	2.00	1.57	
159 Fluoranthene	202	11.311	11.312	-0.001	99	228948	2.00	1.67	
160 Benzidine	184	11.379	11.384	-0.005	86	259502	4.00	3.59	
161 Pyrene	202	11.513	11.519	-0.006	94	241147	2.00	1.77	
168 Butyl benzyl phthalate	149	11.975	11.976	-0.001	90	129472	2.00	2.04	
173 Bis(2-ethylhexyl) phthalat	149	12.466	12.461	0.005	95	166156	2.00	1.97	
175 3,3'-Dichlorobenzidine	252	12.494	12.495	-0.001	55	178728	4.00	3.93	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	88	255751	2.00	1.83	
178 Chrysene	228	12.600	12.601	-0.001	90	231040	2.00	1.80	
180 Di-n-octyl phthalate	149	13.124	13.125	-0.001	98	282511	2.00	1.91	
182 Benzo[b]fluoranthene	252	13.798	13.803	-0.005	83	231320	2.00	1.83	
183 Benzo[k]fluoranthene	252	13.831	13.837	-0.006	97	240080	2.00	1.88	
184 Benzo[a]pyrene	252	14.274	14.279	-0.005	74	220146	2.00	1.82	
188 Indeno[1,2,3-cd]pyrene	276	16.303	16.304	-0.001	94	232922	2.00	1.90	
189 Dibenz(a,h)anthracene	278	16.313	16.313	0.000	73	186338	2.00	1.85	
190 Benzo[g,h,i]perylene	276	16.904	16.910	-0.006	87	200853	2.00	1.98	
S 191 Methyl Phenols,Total	100				0			3.46	
S 245 Total Cresols	100				0			3.46	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L4 W_00005 Amount Added: 1.00 Units: mL

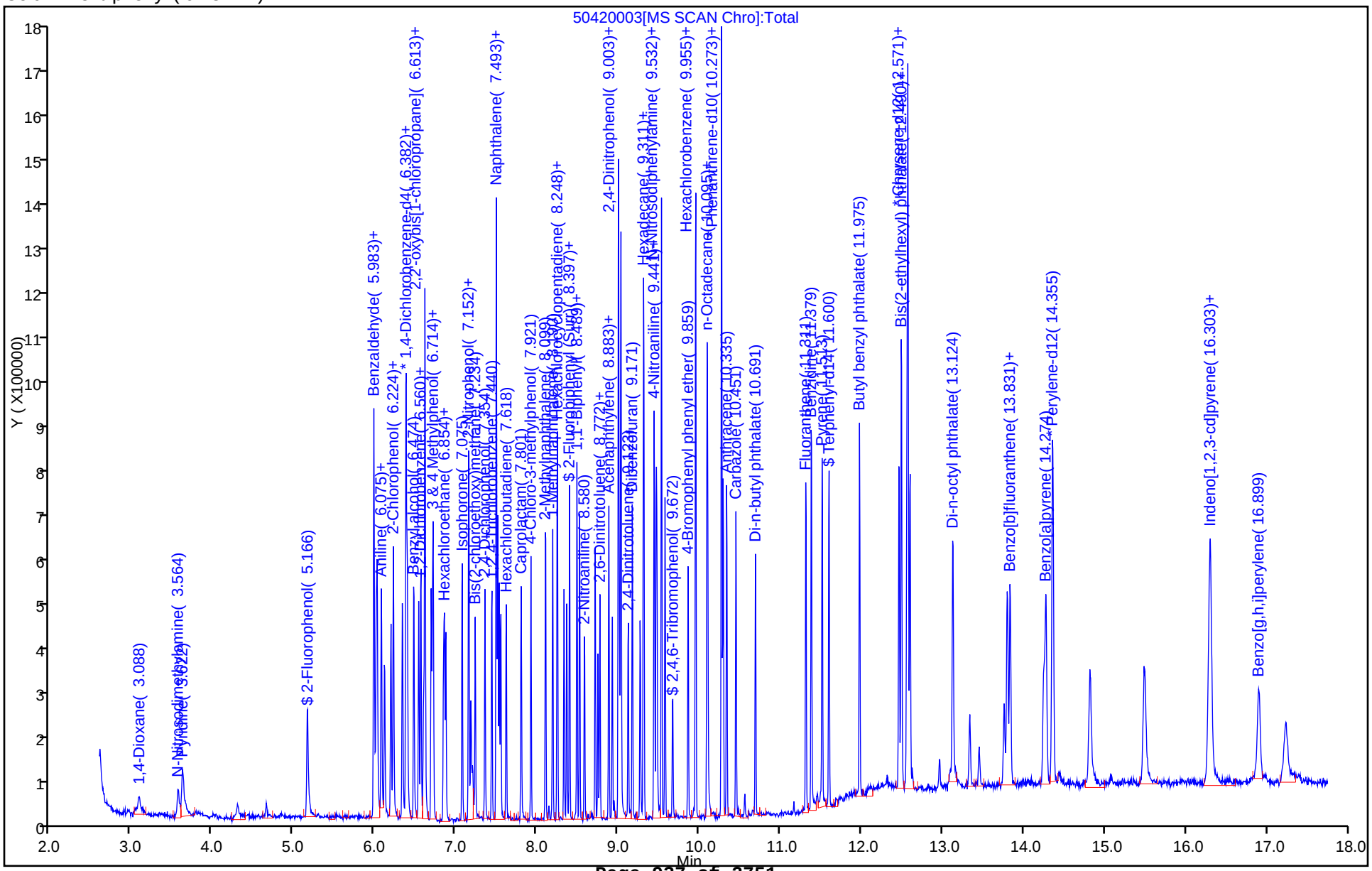
Report Date: 21-Apr-2015 07:00:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D

Injection Date:	20-Apr-2015 09:14:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std4 lst1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

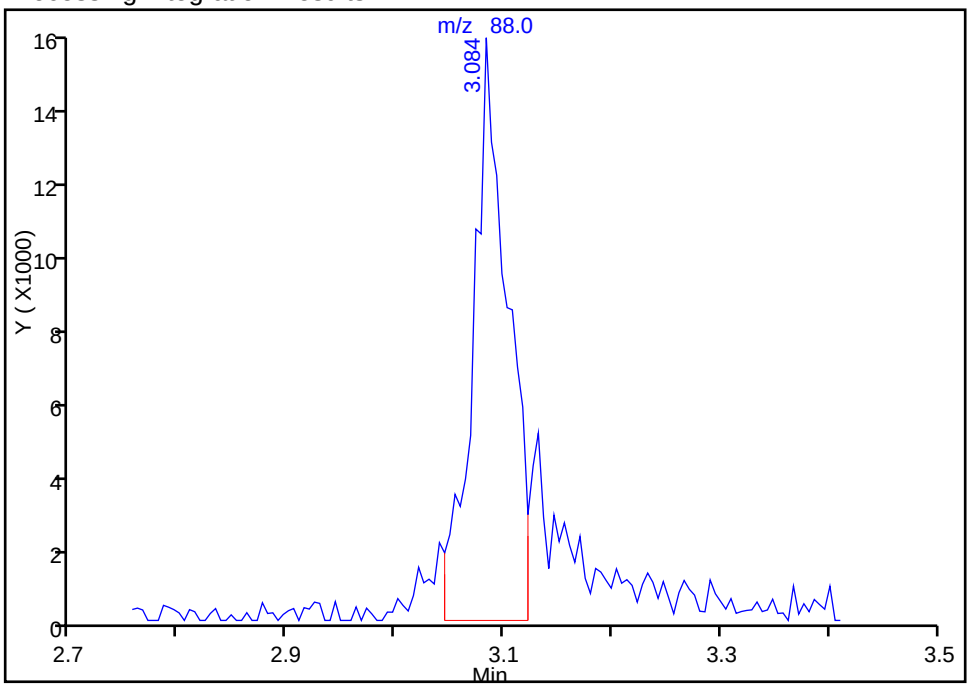
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D				
Injection Date:	20-Apr-2015 09:14:30	Instrument ID:	A4HP9		
Lims ID:	std4 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

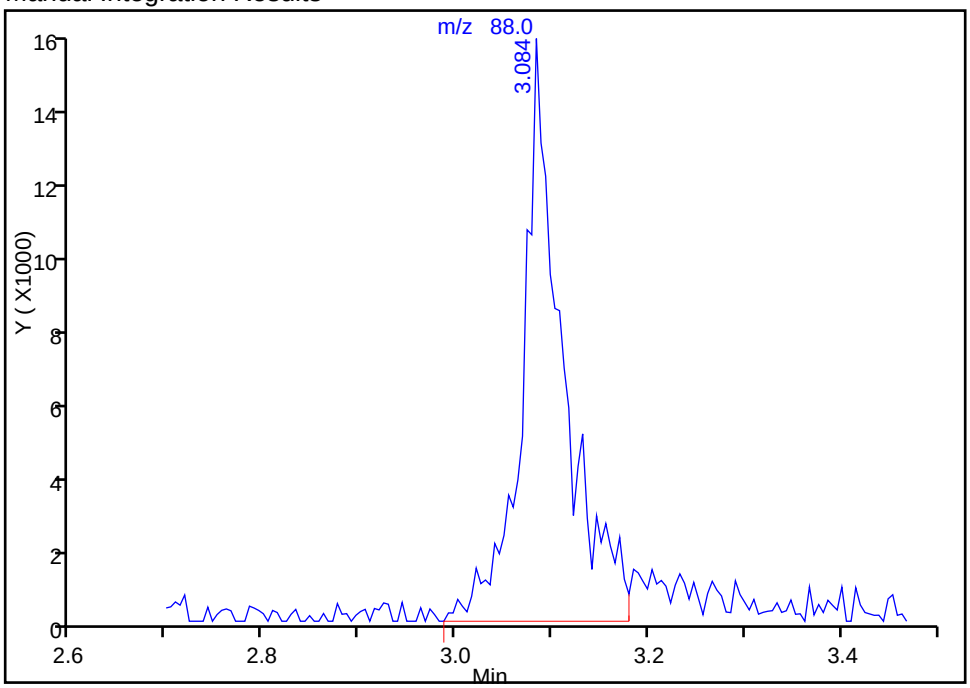
Processing Integration Results

RT: 3.08
Area: 35498
Amount: 1.725994
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 46428
Amount: 1.767662
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

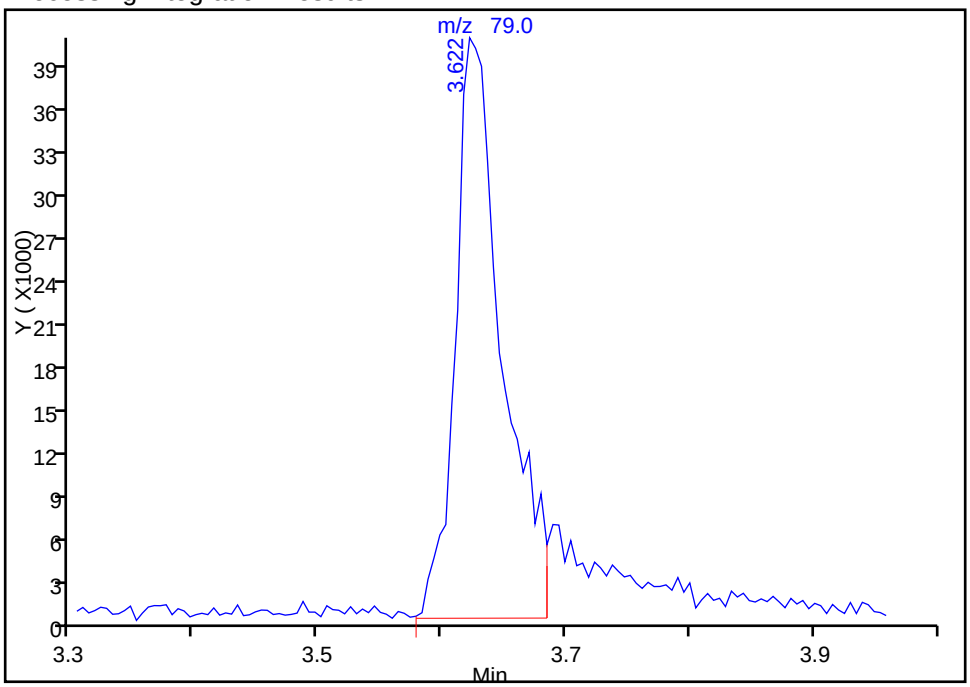
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D
Injection Date: 20-Apr-2015 09:14:30 Instrument ID: A4HP9
Lims ID: std4 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

27 Pyridine, CAS: 110-86-1

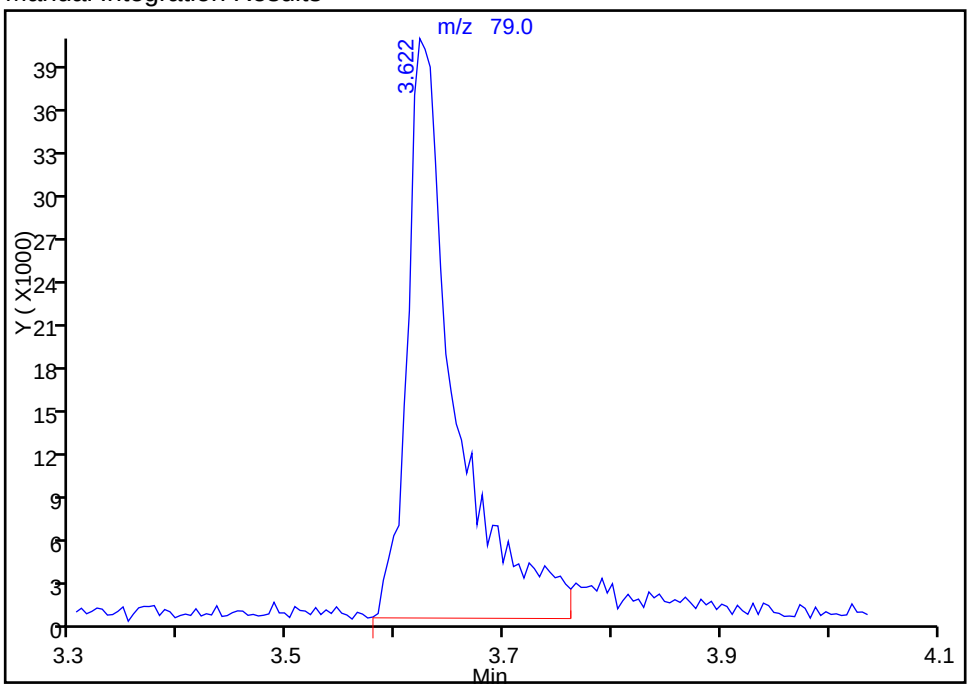
Processing Integration Results

RT: 3.62
Area: 106161
Amount: 1.856993
Amount Units: ng/ul



Manual Integration Results

RT: 3.62
Area: 122879
Amount: 1.742310
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

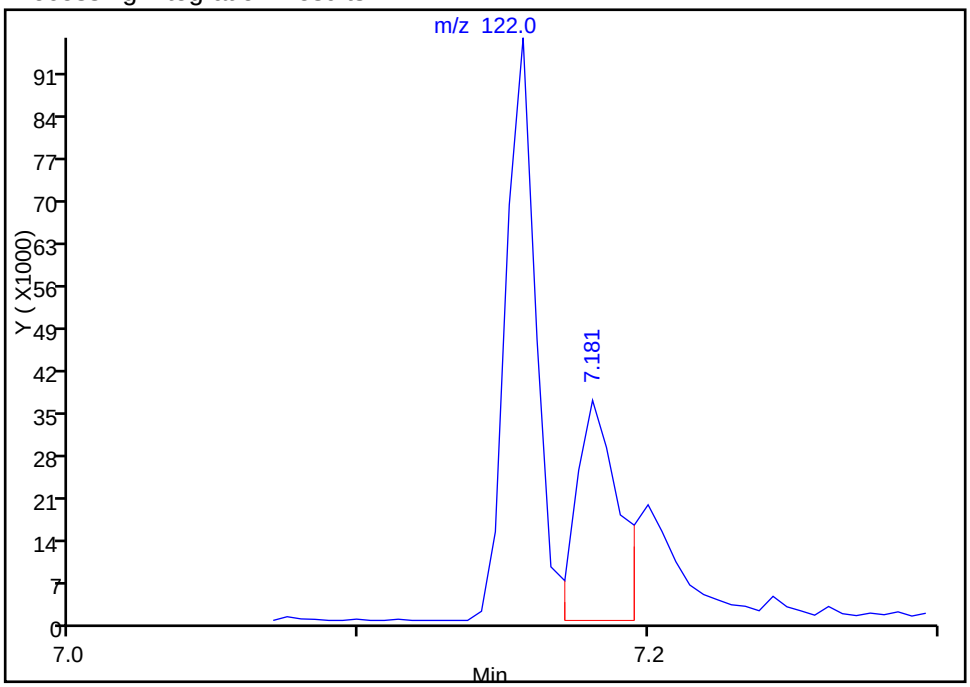
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420003.D
Injection Date: 20-Apr-2015 09:14:30 Instrument ID: A4HP9
Lims ID: std4 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

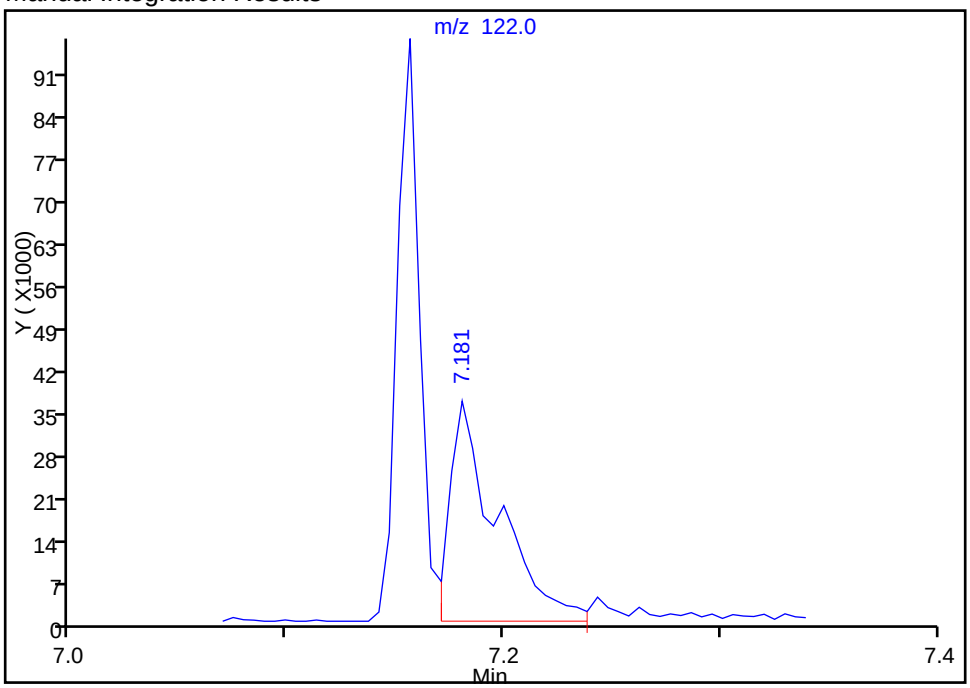
Processing Integration Results

RT: 7.18
Area: 37401
Amount: 2.475249
Amount Units: ng/ul



Manual Integration Results

RT: 7.18
Area: 55684
Amount: 3.675470
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Report Date: 21-Apr-2015 07:00:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D
Lims ID: std3 lst1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Apr-2015 09:40:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-004
Misc. Info.: STD3 LST1STD3 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:53 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 10:06:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.378	0.003	96	138388	4.00	4.00	
* 2 Naphthalene-d8	136	7.496	7.494	0.002	98	450150	4.00	4.00	
* 3 Acenaphthene-d10	164	9.002	9.004	-0.002	93	270453	4.00	4.00	
* 4 Phenanthrene-d10	188	10.271	10.273	-0.002	96	488588	4.00	4.00	
* 5 Chrysene-d12	240	12.575	12.572	0.002	97	552095	4.00	4.00	
* 6 Perylene-d12	264	14.359	14.361	-0.002	99	455739	4.00	4.00	
$ 7 2-Fluorophenol	112	5.164	5.162	0.002	93	44846	1.00	0.8803	
$ 8 Phenol-d5	99	6.010	6.013	-0.003	95	81474	1.00	1.07	
$ 9 Nitrobenzene-d5	82	6.852	6.854	-0.002	85	100203	1.00	1.22	
$ 10 2-Fluorobiphenyl (Surr)	172	8.400	8.398	0.002	99	89117	1.00	0.9801	
$ 11 2,4,6-Tribromophenol	330	9.670	9.672	-0.002	80	10068	1.00	1.01	
$ 12 Terphenyl-d14	244	11.598	11.601	-0.003	99	119323	1.00	1.06	
25 1,4-Dioxane	88	3.072	3.079	-0.007	91	28154	1.00	0.9586	M
26 N-Nitrosodimethylamine	74	3.558	3.560	-0.002	91	49598	1.00	1.01	
27 Pyridine	79	3.616	3.618	-0.002	93	78404	1.00	0.99	
41 Benzaldehyde	77	5.982	5.984	-0.002	87	134461	2.00	2.33	
43 Phenol	94	6.025	6.027	-0.002	96	88772	1.00	1.07	
44 Aniline	93	6.073	6.075	-0.002	94	110321	1.00	1.07	
69 Bis(2-chloroethyl)ether	93	6.116	6.114	0.002	95	71684	1.00	1.04	
46 2-Chlorophenol	128	6.193	6.196	-0.003	87	49226	1.00	1.02	
243 n-Decane	57	6.222	6.224	-0.002	97	68100	NC	NC	
47 1,3-Dichlorobenzene	146	6.337	6.335	0.002	87	53223	1.00	1.02	
48 1,4-Dichlorobenzene	146	6.395	6.398	-0.003	89	54926	1.00	1.04	
49 Benzyl alcohol	108	6.477	6.474	0.003	86	39819	1.00	1.02	
50 1,2-Dichlorobenzene	146	6.535	6.537	-0.002	85	50376	1.00	1.02	
51 2-Methylphenol	108	6.564	6.566	-0.002	91	55709	1.00	1.04	
53 2,2'-oxybis[1-chloropropan	45	6.597	6.595	0.002	97	64371	1.00	1.14	
52 Indene	115	6.612	6.614	-0.002	88	203257	2.00	2.09	
21 3 & 4 Methylphenol	108	6.689	6.691	-0.002	93	60636	1.00	1.07	
57 N-Nitrosodi-n-propylamine	70	6.708	6.705	0.003	97	64956	1.00	1.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.717	6.715	0.002	87	86292	1.00	1.05	
61 Hexachloroethane	117	6.842	6.840	0.002	91	24650	1.00	0.9786	
62 Nitrobenzene	77	6.871	6.869	0.002	82	89165	1.00	1.18	
64 Isophorone	82	7.073	7.071	0.002	97	132684	1.00	1.04	
66 2-Nitrophenol	139	7.150	7.153	-0.003	80	20385	1.00	0.9753	
65 2,4-Dimethylphenol	107	7.155	7.157	-0.002	94	57805	1.00	1.04	
71 Benzoic acid	122	7.179	7.196	-0.017	84	23148	2.00	2.30	
70 Bis(2-chloroethoxy)methane	93	7.232	7.234	-0.002	97	63225	1.00	0.9828	
73 2,4-Dichlorophenol	162	7.352	7.354	-0.002	92	32457	1.00	0.9717	
74 1,2,4-Trichlorobenzene	180	7.439	7.441	-0.002	90	37301	1.00	1.01	
75 Naphthalene	128	7.511	7.513	-0.002	95	122125	1.00	1.02	
76 4-Chloroaniline	127	7.530	7.532	-0.002	88	50525	1.00	0.9620	
77 2,6-Dichlorophenol	162	7.549	7.552	-0.003	89	33065	1.00	1.01	
79 Hexachlorobutadiene	225	7.617	7.619	-0.002	94	26546	1.00	1.07	
84 Caprolactam	113	7.799	7.807	-0.008	83	27278	2.00	1.94	
86 4-Chloro-3-methylphenol	107	7.920	7.922	-0.002	89	43072	1.00	0.9165	
87 2-Methylnaphthalene	142	8.102	8.105	-0.003	88	77680	1.00	0.9835	
88 1-Methylnaphthalene	142	8.189	8.191	-0.002	89	62239	1.00	0.9295	
89 Hexachlorocyclopentadiene	237	8.247	8.244	0.003	95	25705	1.00	1.02	
91 1,2,4,5-Tetrachlorobenzene	216	8.247	8.249	-0.002	97	39289	1.00	1.01	
92 2,4,6-Trichlorophenol	196	8.328	8.331	-0.003	92	25449	1.00	0.9790	
93 2,4,5-Trichlorophenol	196	8.362	8.364	-0.002	89	26021	1.00	0.9588	
98 1,1'-Biphenyl	154	8.492	8.489	0.003	97	92958	1.00	0.9795	
100 2-Chloronaphthalene	162	8.521	8.523	-0.002	98	69583	1.00	0.9267	
102 2-Nitroaniline	65	8.583	8.581	0.002	73	36760	1.00	0.9659	
105 Dimethyl phthalate	163	8.713	8.715	-0.002	93	85088	1.00	1.01	
106 1,3-Dinitrobenzene	168	8.747	8.749	-0.002	79	10972	1.00	0.8105	
107 2,6-Dinitrotoluene	165	8.771	8.773	-0.002	76	19230	1.00	0.9728	
109 Acenaphthylene	152	8.881	8.884	-0.003	97	110288	1.00	0.9511	
110 3-Nitroaniline	138	8.925	8.927	-0.002	84	20148	1.00	1.02	
111 2,4-Dinitrophenol	184	9.016	9.014	0.002	60	14970	2.00	3.25	M
112 Acenaphthene	153	9.030	9.028	0.002	97	73947	1.00	0.9801	
113 4-Nitrophenol	109	9.035	9.038	-0.003	86	38334	2.00	2.05	
114 2,4-Dinitrotoluene	165	9.122	9.124	-0.002	79	25674	1.00	0.99	
116 Dibenzofuran	168	9.175	9.172	0.003	94	102207	1.00	1.00	
119 2,3,4,6-Tetrachlorophenol	232	9.271	9.268	0.003	80	20309	1.00	0.9294	
121 Diethyl phthalate	149	9.309	9.307	0.002	96	90972	1.00	1.07	
247 Hexadecane	57	9.314	9.316	-0.002	96	61680	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.439	9.442	-0.003	94	46852	1.00	1.07	
125 4-Nitroaniline	138	9.444	9.446	-0.002	75	18232	1.00	0.9552	
126 Fluorene	166	9.468	9.466	0.002	99	86254	1.00	1.00	
128 4,6-Dinitro-2-methylphenol	198	9.478	9.480	-0.002	93	23579	2.00	2.00	
131 N-Nitrosodiphenylamine	169	9.531	9.533	-0.002	98	130359	2.00	1.98	
132 1,2-Diphenylhydrazine	77	9.574	9.576	-0.002	99	136085	1.00	1.00	
133 Azobenzene	77	9.574	9.576	-0.002	95	136330	1.00	1.00	
139 4-Bromophenyl phenyl ether	248	9.862	9.860	0.002	74	24343	1.00	0.9728	
141 Hexachlorobenzene	284	9.954	9.951	0.003	74	25722	1.00	1.04	
142 Atrazine	200	9.954	9.956	-0.002	89	49677	2.00	1.97	
244 n-Octadecane	57	10.093	10.096	-0.003	84	64767	NC	NC	
143 Pentachlorophenol	266	10.103	10.105	-0.002	85	27906	2.00	2.03	
148 Phenanthrene	178	10.295	10.293	0.002	97	128672	1.00	1.00	
149 Anthracene	178	10.338	10.336	0.002	98	127200	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.449	10.451	-0.002	97	110668	1.00	0.9660	
154 Di-n-butyl phthalate	149	10.694	10.692	0.002	100	121845	1.00	0.8492	
159 Fluoranthene	202	11.315	11.312	0.003	99	156263	1.00	1.06	
160 Benzidine	184	11.382	11.384	-0.002	99	149760	2.00	1.87	
161 Pyrene	202	11.517	11.519	-0.002	97	164008	1.00	1.08	
168 Butyl benzyl phthalate	149	11.973	11.976	-0.003	91	77170	1.00	1.10	
173 Bis(2-ethylhexyl) phthalat	149	12.464	12.461	0.003	94	92201	1.00	0.9881	
175 3,3'-Dichlorobenzidine	252	12.493	12.495	-0.002	76	100198	2.00	1.99	
177 Benzo[a]anthracene	228	12.560	12.562	-0.002	97	157819	1.00	1.02	
178 Chrysene	228	12.599	12.601	-0.002	95	143418	1.00	1.01	
180 Di-n-octyl phthalate	149	13.128	13.125	0.003	99	159946	1.00	1.00	
182 Benzo[b]fluoranthene	252	13.796	13.803	-0.007	95	134018	1.00	0.9759	
183 Benzo[k]fluoranthene	252	13.830	13.837	-0.007	96	138809	1.00	1.00	
184 Benzo[a]pyrene	252	14.277	14.279	-0.002	77	128202	1.00	0.9778	
188 Indeno[1,2,3-cd]pyrene	276	16.297	16.304	-0.007	94	127282	1.00	0.9588	
189 Dibenz(a,h)anthracene	278	16.311	16.313	-0.002	89	107009	1.00	0.9770	M
190 Benzo[g,h,i]perylene	276	16.902	16.910	-0.008	97	111014	1.00	1.01	
S 191 Methyl Phenols,Total	100				0			2.10	
S 245 Total Cresols	100				0			2.10	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L3 W_00005 Amount Added: 1.00 Units: mL

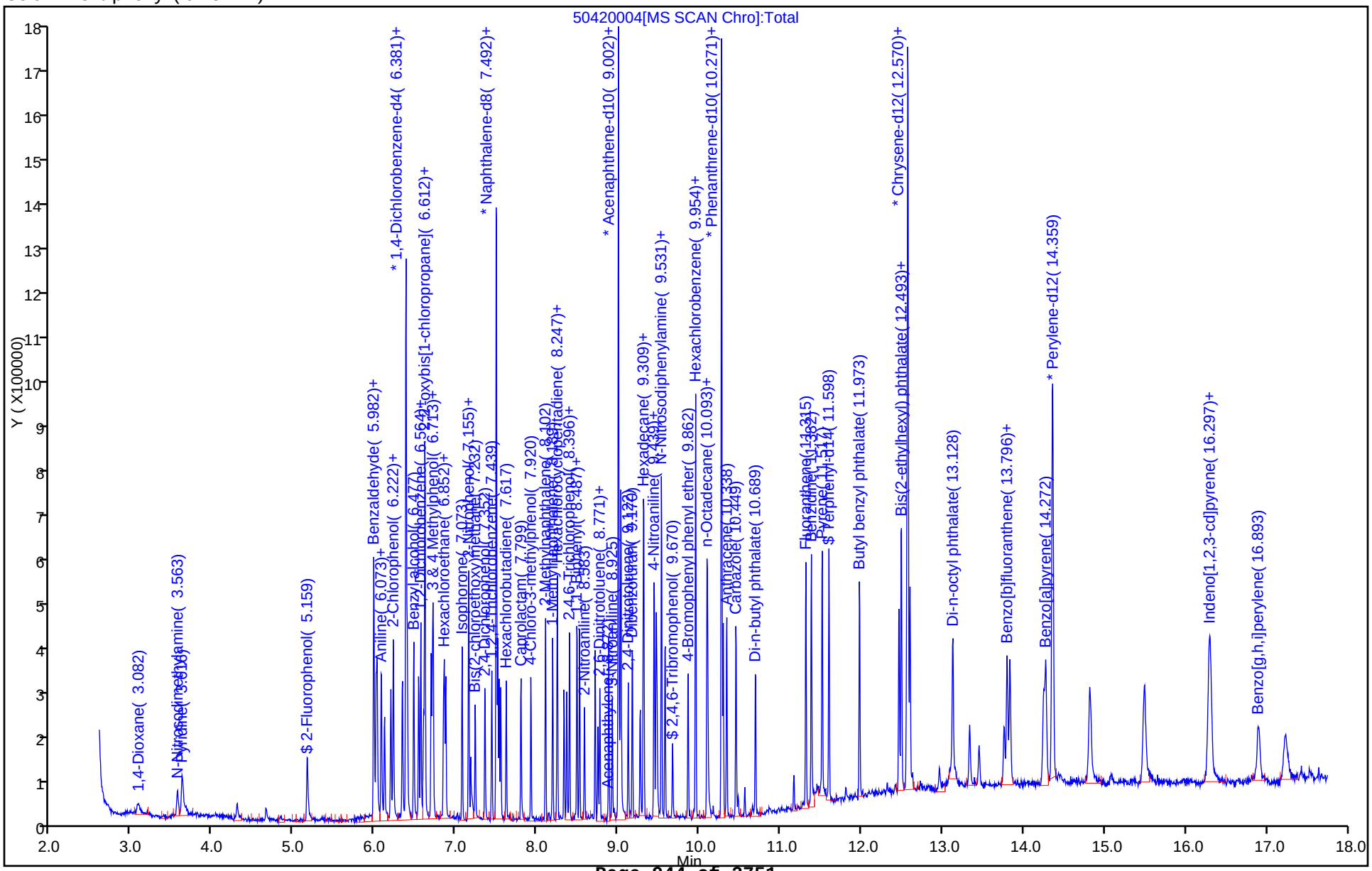
Report Date: 21-Apr-2015 07:00:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D

Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std3 lst1			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

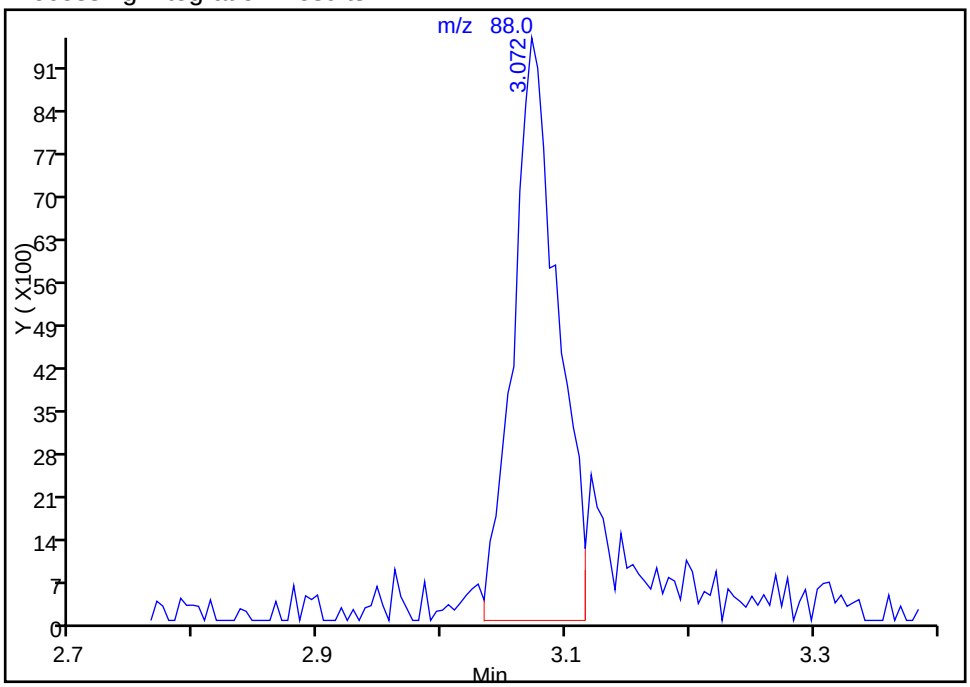
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D				
Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9		
Lims ID:	std3 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

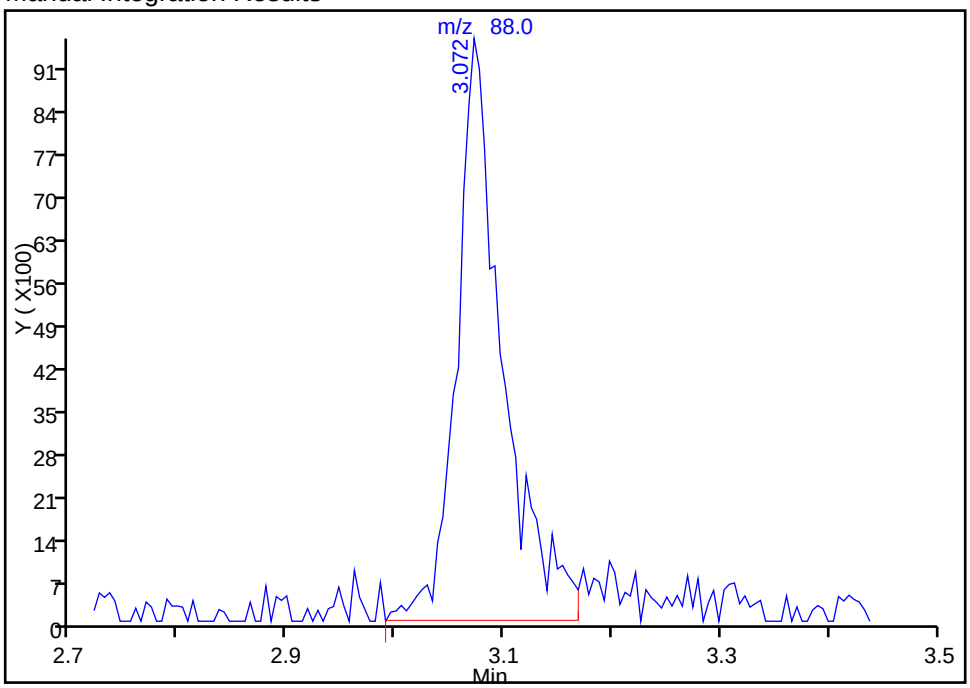
Processing Integration Results

RT: 3.07
Area: 23919
Amount: 0.943832
Amount Units: ng/ul



Manual Integration Results

RT: 3.07
Area: 28154
Amount: 0.958570
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 10:06:37
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

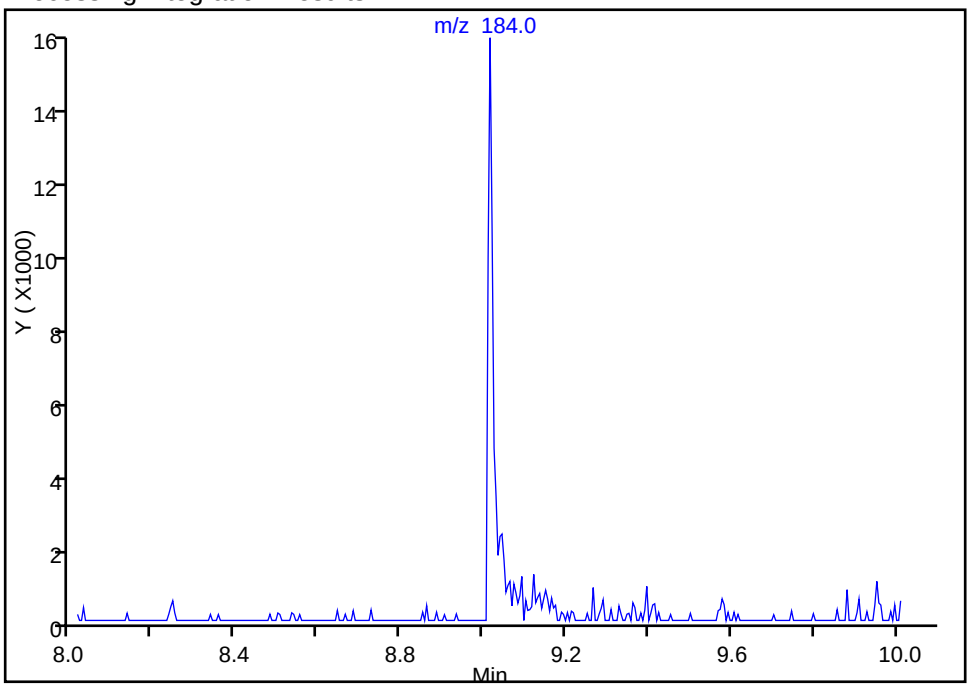
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D				
Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9		
Lims ID:	std3 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

111 2,4-Dinitrophenol, CAS: 51-28-5

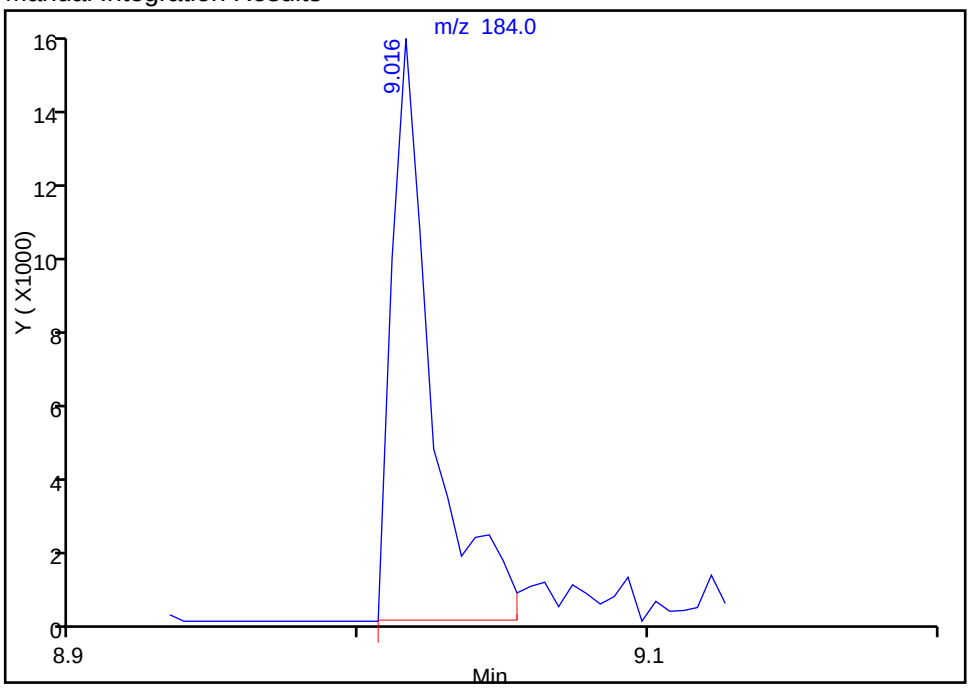
Not Detected
Expected RT: 9.01

Processing Integration Results



Manual Integration Results

RT: 9.02
Area: 14970
Amount: 3.251581
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 10:06:37
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

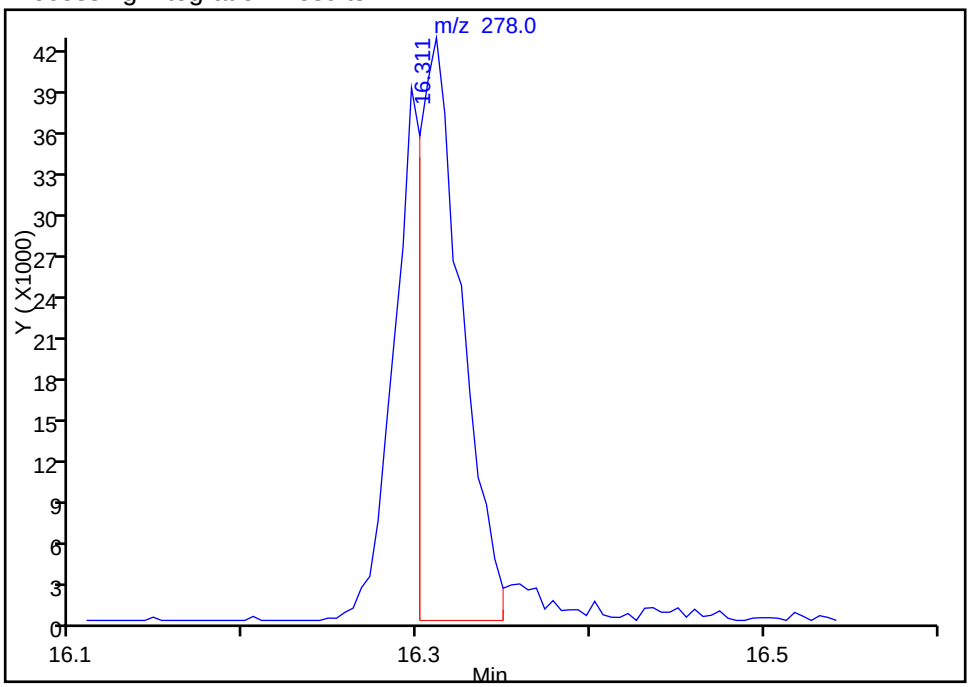
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420004.D				
Injection Date:	20-Apr-2015 09:40:30	Instrument ID:	A4HP9		
Lims ID:	std3 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

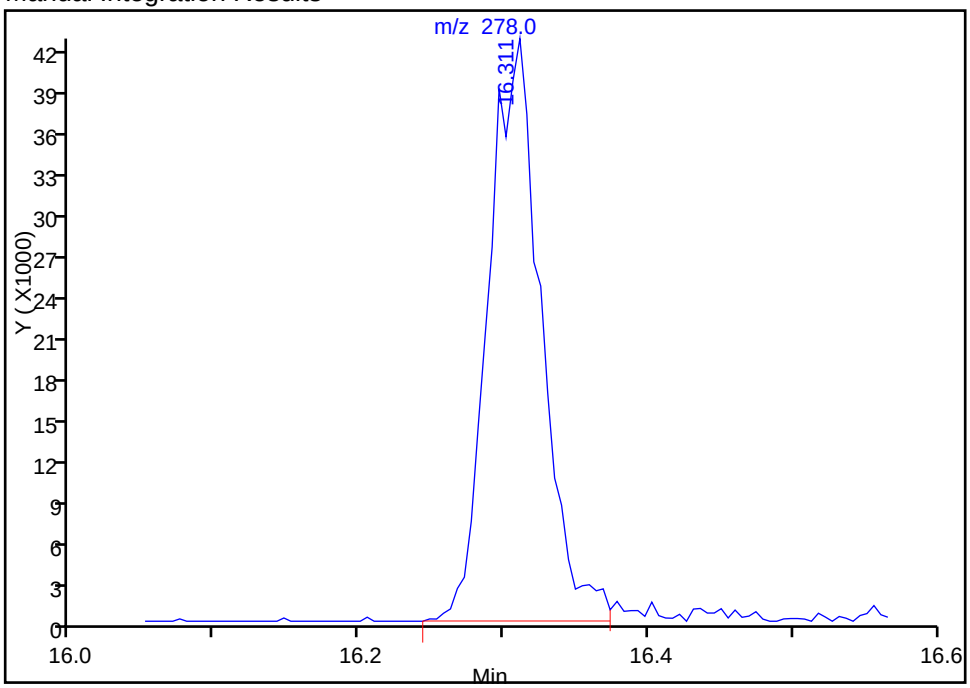
Processing Integration Results

RT: 16.31
Area: 70861
Amount: 0.758018
Amount Units: ng/ul



Manual Integration Results

RT: 16.31
Area: 107009
Amount: 0.976983
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 10:06:37
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Report Date: 21-Apr-2015 07:00:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D
Lims ID: std2 lst1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Apr-2015 10:05:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-005
Misc. Info.: STD2 LST1STD2 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:56 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 11:55:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.378	0.004	85	129397	4.00	4.00	
* 2 Naphthalene-d8	136	7.493	7.494	-0.001	98	459343	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.004	-0.001	76	265529	4.00	4.00	
* 4 Phenanthrene-d10	188	10.272	10.273	-0.001	94	578628	4.00	4.00	
* 5 Chrysene-d12	240	12.571	12.572	-0.001	79	597306	4.00	4.00	
* 6 Perylene-d12	264	14.355	14.361	-0.006	98	486942	4.00	4.00	
$ 7 2-Fluorophenol	112	5.166	5.162	0.004	82	22354	0.5000	0.4693	
$ 8 Phenol-d5	99	6.012	6.013	-0.001	71	36942	0.5000	0.5185	
$ 9 Nitrobenzene-d5	82	6.853	6.854	-0.001	84	39795	0.5000	0.4760	
$ 10 2-Fluorobiphenyl (Surr)	172	8.397	8.398	-0.001	94	44021	0.5000	0.4931	
$ 11 2,4,6-Tribromophenol	330	9.671	9.672	-0.001	63	5472	0.5000	0.5565	
$ 12 Terphenyl-d14	244	11.600	11.601	-0.001	96	53965	0.5000	0.4440	
25 1,4-Dioxane	88	3.078	3.079	-0.001	53	12415	0.5000	0.4521	
26 N-Nitrosodimethylamine	74	3.569	3.560	0.009	74	22836	0.5000	0.4983	M
27 Pyridine	79	3.632	3.618	0.014	82	31368	0.5000	0.4254	M
41 Benzaldehyde	77	5.983	5.984	-0.001	82	58929	1.00	1.09	
43 Phenol	94	6.026	6.027	-0.001	75	38586	0.5000	0.4995	
44 Aniline	93	6.074	6.075	-0.001	80	52486	0.5000	0.5468	
69 Bis(2-chloroethyl)ether	93	6.113	6.114	-0.001	86	36164	0.5000	0.5586	
46 2-Chlorophenol	128	6.195	6.196	-0.001	80	24152	0.5000	0.5342	
243 n-Decane	57	6.223	6.224	-0.001	97	33453	NC	NC	
47 1,3-Dichlorobenzene	146	6.334	6.335	-0.001	84	25132	0.5000	0.5139	
48 1,4-Dichlorobenzene	146	6.392	6.398	-0.006	58	24652	0.5000	0.4970	
49 Benzyl alcohol	108	6.474	6.474	0.000	80	17314	0.5000	0.4752	
50 1,2-Dichlorobenzene	146	6.536	6.537	-0.001	80	22513	0.5000	0.4865	
51 2-Methylphenol	108	6.565	6.566	-0.001	77	23011	0.5000	0.4578	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.595	0.004	94	25460	0.5000	0.4803	
52 Indene	115	6.613	6.614	-0.001	69	88266	1.00	0.9684	
21 3 & 4 Methylphenol	108	6.690	6.691	-0.001	87	26169	0.5000	0.4917	
57 N-Nitrosodi-n-propylamine	70	6.704	6.705	-0.001	94	25861	0.5000	0.4647	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.714	6.715	-0.001	77	36798	0.5000	0.4774	
61 Hexachloroethane	117	6.844	6.840	0.004	85	11143	0.5000	0.4731	
62 Nitrobenzene	77	6.868	6.869	-0.001	69	38625	0.5000	0.5003	
64 Isophorone	82	7.070	7.071	-0.001	94	61236	0.5000	0.4693	
66 2-Nitrophenol	139	7.152	7.153	-0.001	80	10624	0.5000	0.4981	
65 2,4-Dimethylphenol	107	7.156	7.157	-0.001	93	27053	0.5000	0.4782	
71 Benzoic acid	122		7.196				ND	ND	
70 Bis(2-chloroethoxy)methane	93	7.233	7.234	-0.001	91	30610	0.5000	0.4663	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	89	16926	0.5000	0.4966	
74 1,2,4-Trichlorobenzene	180	7.440	7.441	-0.001	88	18960	0.5000	0.5046	
75 Naphthalene	128	7.512	7.513	-0.001	52	61542	0.5000	0.5014	
76 4-Chloroaniline	127	7.531	7.532	-0.001	38	25628	0.5000	0.4782	M
77 2,6-Dichlorophenol	162	7.551	7.552	-0.001	47	16565	0.5000	0.4944	
79 Hexachlorobutadiene	225	7.618	7.619	-0.001	88	12242	0.5000	0.4843	
84 Caprolactam	113	7.796	7.807	-0.011	80	13773	1.00	0.9581	
86 4-Chloro-3-methylphenol	107	7.921	7.922	-0.001	82	23393	0.5000	0.4878	
87 2-Methylnaphthalene	142	8.104	8.105	-0.001	84	37676	0.5000	0.4674	
88 1-Methylnaphthalene	142	8.190	8.191	-0.001	78	32739	0.5000	0.4792	
89 Hexachlorocyclopentadiene	237	8.243	8.244	-0.001	83	11701	0.5000	0.4714	
91 1,2,4,5-Tetrachlorobenzene	216	8.248	8.249	-0.001	91	19527	0.5000	0.5103	
92 2,4,6-Trichlorophenol	196	8.330	8.331	-0.001	82	12282	0.5000	0.4812	
93 2,4,5-Trichlorophenol	196	8.363	8.364	-0.001	85	13589	0.5000	0.5100	
98 1,1'-Biphenyl	154	8.488	8.489	-0.001	97	45100	0.5000	0.4840	
100 2-Chloronaphthalene	162	8.522	8.523	-0.001	97	35914	0.5000	0.4872	
102 2-Nitroaniline	65	8.580	8.581	-0.001	60	17765	0.5000	0.4755	
105 Dimethyl phthalate	163	8.714	8.715	-0.001	92	41236	0.5000	0.4976	
106 1,3-Dinitrobenzene	168	8.748	8.749	-0.001	73	6308	0.5000	0.4746	
107 2,6-Dinitrotoluene	165	8.772	8.773	-0.001	62	10291	0.5000	0.5303	
109 Acenaphthylene	152	8.883	8.884	-0.001	94	54725	0.5000	0.4807	
110 3-Nitroaniline	138	8.926	8.927	-0.001	84	9479	0.5000	0.4899	
111 2,4-Dinitrophenol	184		9.014				ND	ND	
112 Acenaphthene	153	9.027	9.028	-0.001	86	35510	0.5000	0.4794	
113 4-Nitrophenol	109	9.037	9.038	-0.001	83	15982	1.00	0.8702	
114 2,4-Dinitrotoluene	165	9.123	9.124	-0.001	70	11611	0.5000	0.4580	
116 Dibenzofuran	168	9.171	9.172	-0.001	86	48630	0.5000	0.4824	
119 2,3,4,6-Tetrachlorophenol	232	9.267	9.268	-0.001	70	10685	0.5000	0.4980	
121 Diethyl phthalate	149	9.306	9.307	-0.001	92	45657	0.5000	0.5459	
247 Hexadecane	57	9.316	9.316	0.000	93	32331	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.442	-0.001	87	22361	0.5000	0.5205	
125 4-Nitroaniline	138	9.445	9.446	-0.001	64	9292	0.5000	0.4958	
126 Fluorene	166	9.465	9.466	-0.001	96	45190	0.5000	0.5341	
128 4,6-Dinitro-2-methylphenol	198	9.479	9.480	-0.001	81	8557	1.00	1.10	
131 N-Nitrosodiphenylamine	169	9.532	9.533	-0.001	96	68536	1.00	0.8811	
132 1,2-Diphenylhydrazine	77	9.575	9.576	-0.001	98	68881	0.5000	0.4261	
133 Azobenzene	77	9.575	9.576	-0.001	95	68299	0.5000	0.4225	
139 4-Bromophenyl phenyl ether	248	9.859	9.860	-0.001	72	13116	0.5000	0.4426	
141 Hexachlorobenzene	284	9.950	9.951	-0.001	71	13471	0.5000	0.4616	
142 Atrazine	200	9.955	9.956	-0.001	87	26388	1.00	0.8851	
244 n-Octadecane	57	10.095	10.096	-0.001	67	41682	NC	NC	
143 Pentachlorophenol	266	10.104	10.105	-0.001	61	12090	1.00	1.04	
148 Phenanthrene	178	10.292	10.293	-0.001	61	79088	0.5000	0.5206	
149 Anthracene	178	10.335	10.336	-0.001	98	75943	0.5000	0.5001	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.450	10.451	-0.001	87	67265	0.5000	0.4958	
154 Di-n-butyl phthalate	149	10.691	10.692	-0.001	99	84614	0.5000	0.4979	
159 Fluoranthene	202	11.311	11.312	-0.001	98	83292	0.5000	0.4749	
160 Benzidine	184	11.383	11.384	-0.001	86	64861	1.00	0.7487	
161 Pyrene	202	11.513	11.519	-0.006	96	80367	0.5000	0.4912	
168 Butyl benzyl phthalate	149	11.975	11.976	-0.001	88	34193	0.5000	0.4496	
173 Bis(2-ethylhexyl) phthalat	149	12.460	12.461	-0.001	92	48766	0.5000	0.4830	
175 3,3'-Dichlorobenzidine	252	12.494	12.495	-0.001	47	49655	1.00	0.9123	
177 Benzo[a]anthracene	228	12.557	12.562	-0.005	98	81549	0.5000	0.4859	
178 Chrysene	228	12.600	12.601	-0.001	64	76081	0.5000	0.4960	
180 Di-n-octyl phthalate	149	13.124	13.125	-0.001	97	79206	0.5000	0.4620	
182 Benzo[b]fluoranthene	252	13.793	13.803	-0.011	70	72747	0.5000	0.4958	
183 Benzo[k]fluoranthene	252	13.836	13.837	-0.001	93	69527	0.5000	0.4705	
184 Benzo[a]pyrene	252	14.273	14.279	-0.006	45	70401	0.5000	0.5025	
188 Indeno[1,2,3-cd]pyrene	276	16.303	16.304	-0.001	92	64921	0.5000	0.4577	M
189 Dibenz(a,h)anthracene	278	16.307	16.313	-0.006	70	52913	0.5000	0.4521	M
190 Benzo[g,h,i]perylene	276	16.899	16.910	-0.011	88	58855	0.5000	0.5004	
S 191 Methyl Phenols,Total	100				0			0.9495	
S 245 Total Cresols	100				0			0.9495	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L2 W_00005 Amount Added: 1.00 Units: mL

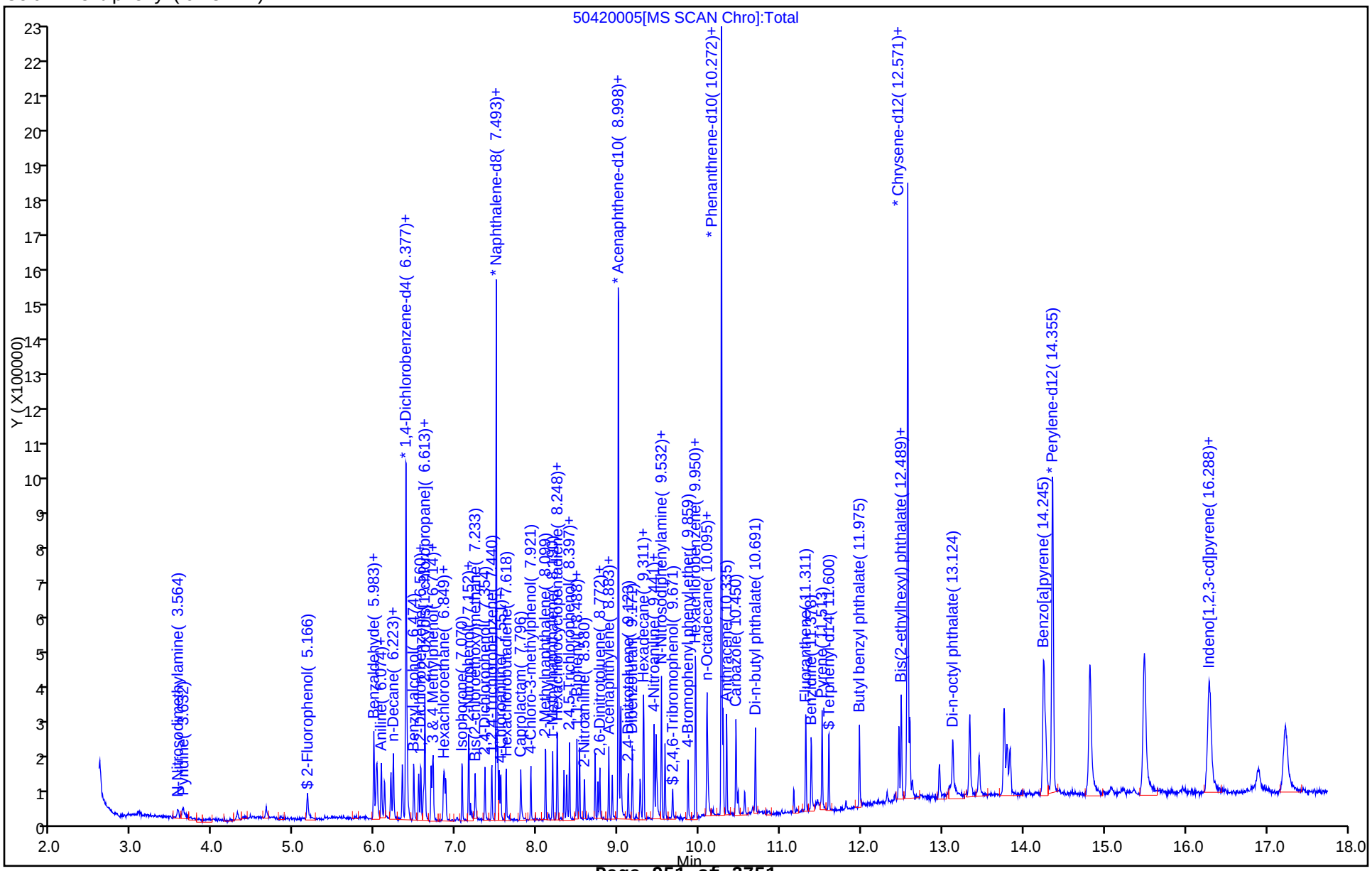
Report Date: 21-Apr-2015 07:00:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D

Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std2 lst1			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

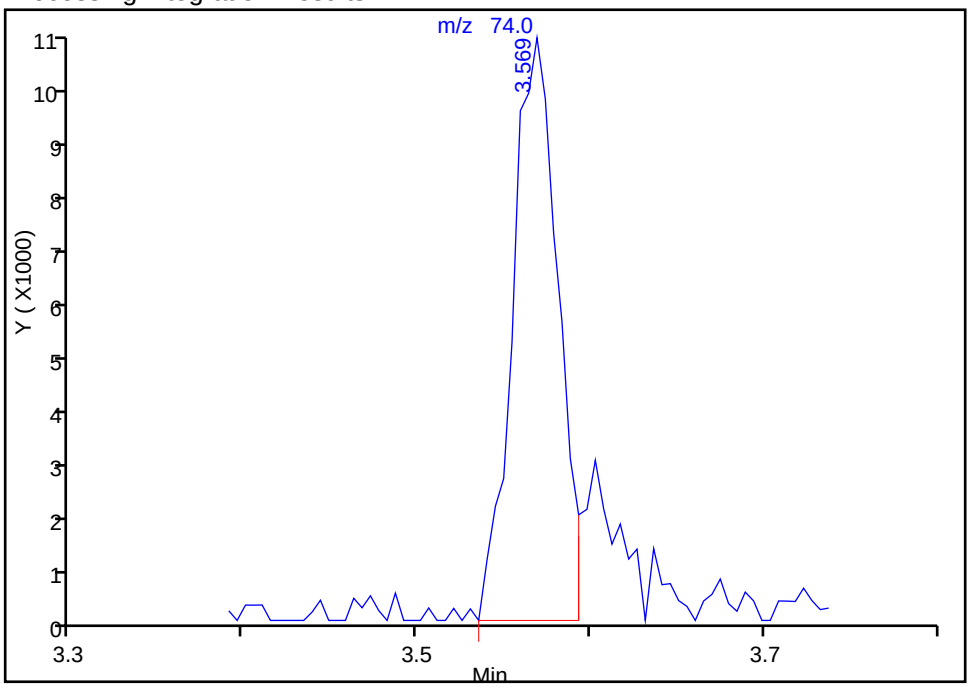
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

26 N-Nitrosodimethylamine, CAS: 62-75-9

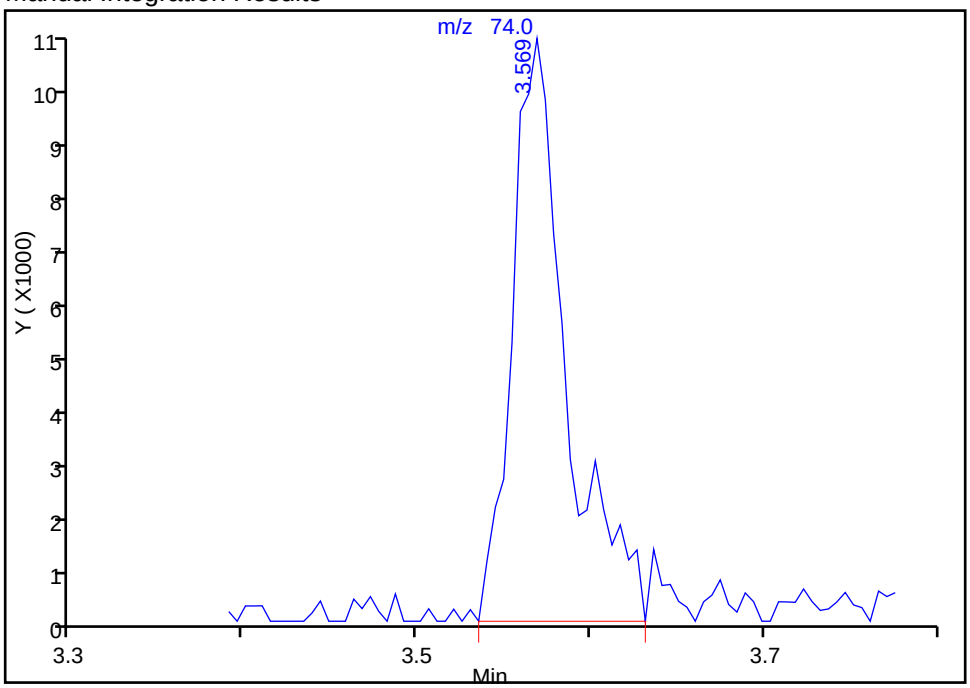
Processing Integration Results

RT: 3.57
Area: 19246
Amount: 0.439810
Amount Units: ng/ul



Manual Integration Results

RT: 3.57
Area: 22836
Amount: 0.498319
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

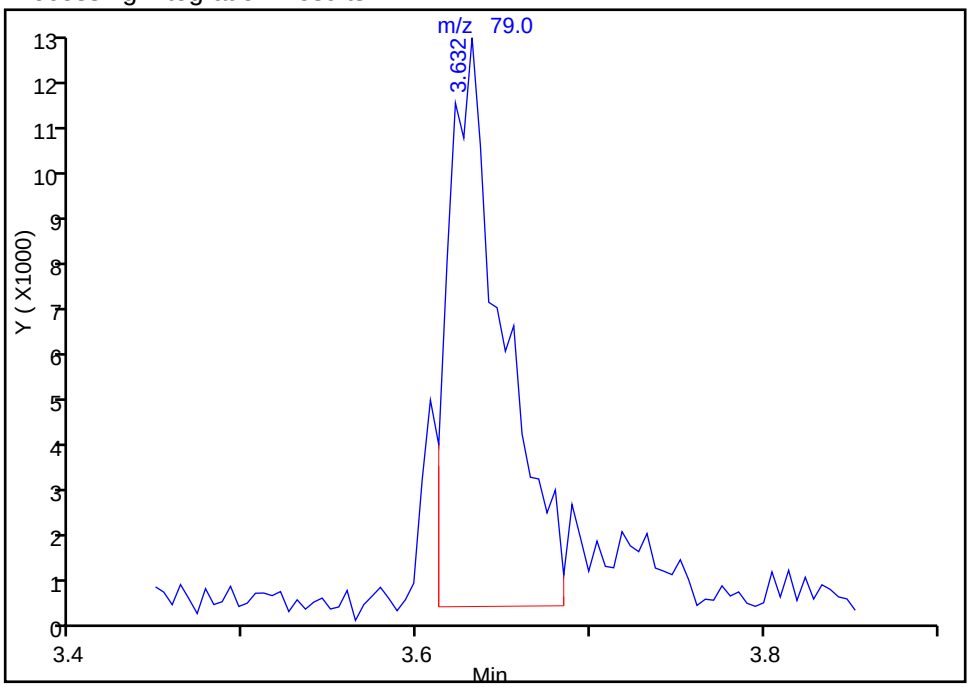
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D
Injection Date: 20-Apr-2015 10:05:30 Instrument ID: A4HP9
Lims ID: std2 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

27 Pyridine, CAS: 110-86-1

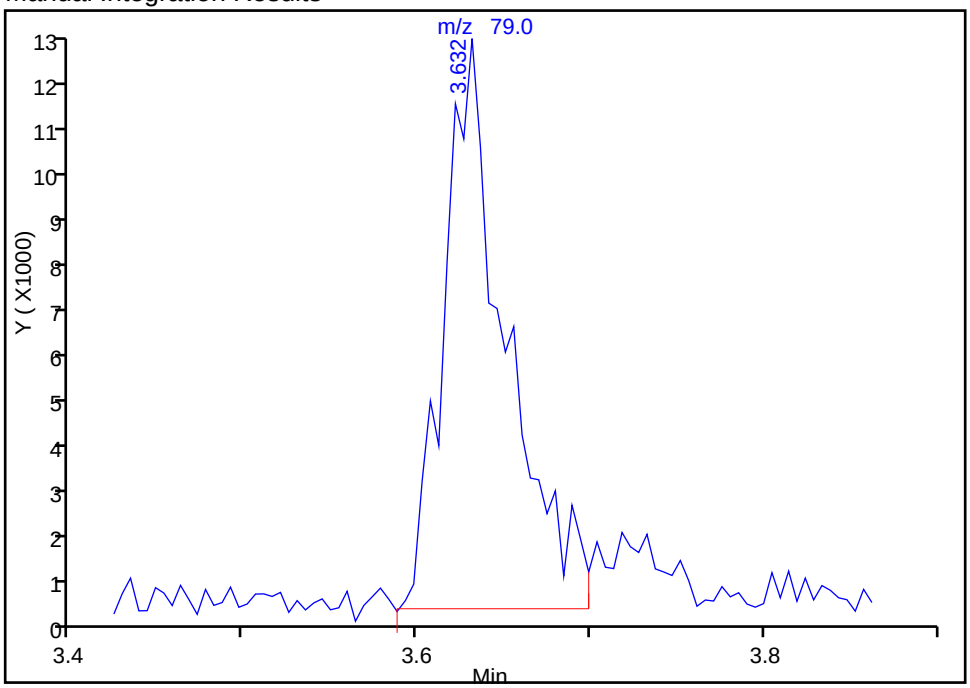
Processing Integration Results

RT: 3.63
Area: 27527
Amount: 0.395983
Amount Units: ng/ul



Manual Integration Results

RT: 3.63
Area: 31368
Amount: 0.425376
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

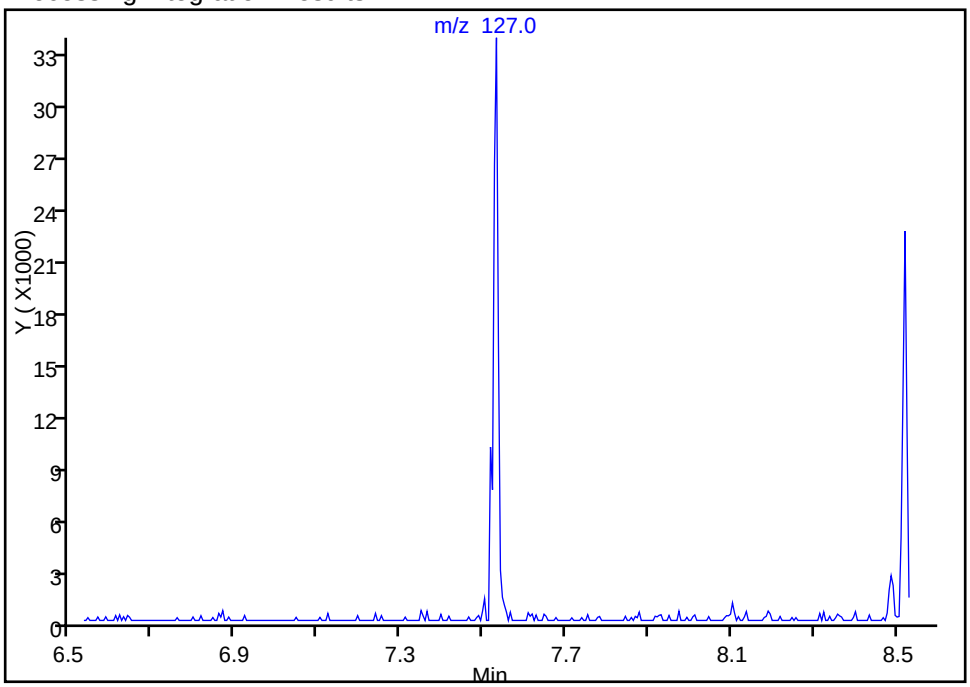
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

76 4-Chloroaniline, CAS: 106-47-8

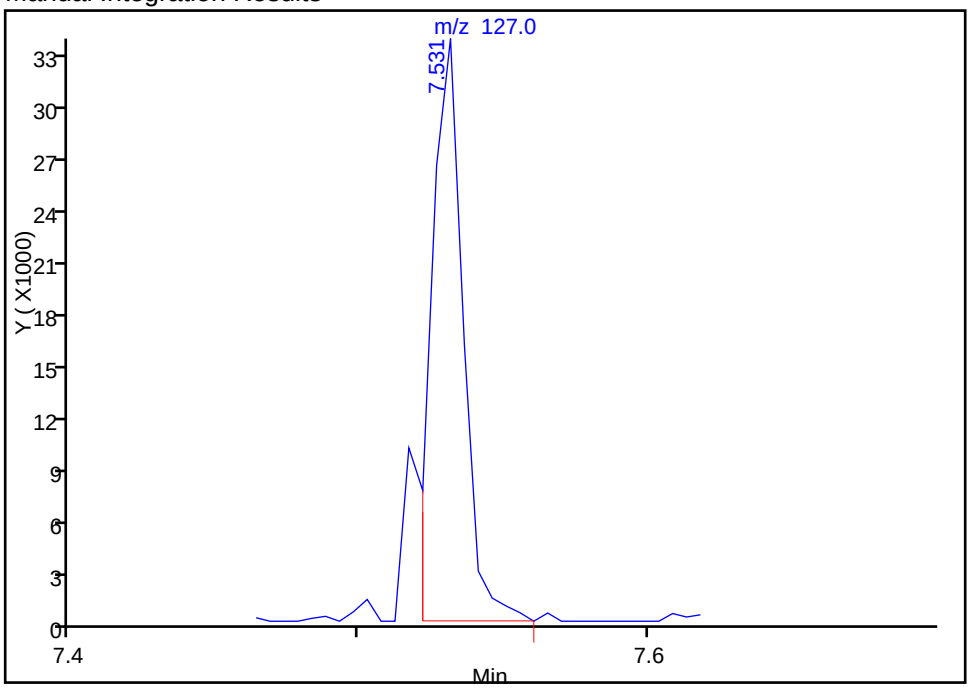
Not Detected
Expected RT: 7.53

Processing Integration Results



Manual Integration Results

RT: 7.53
Area: 25628
Amount: 0.478214
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

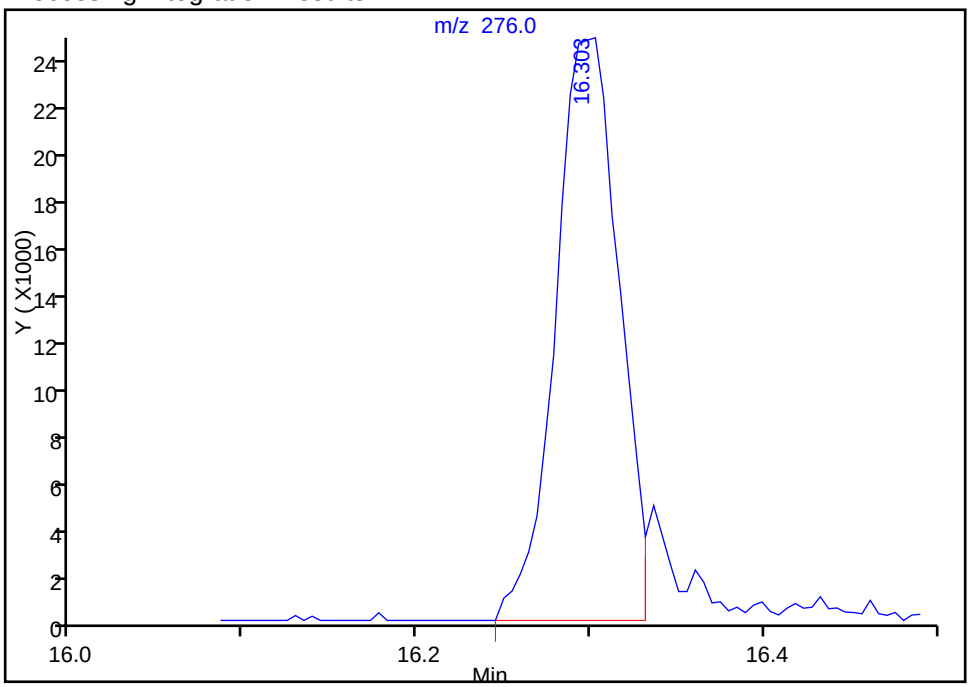
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

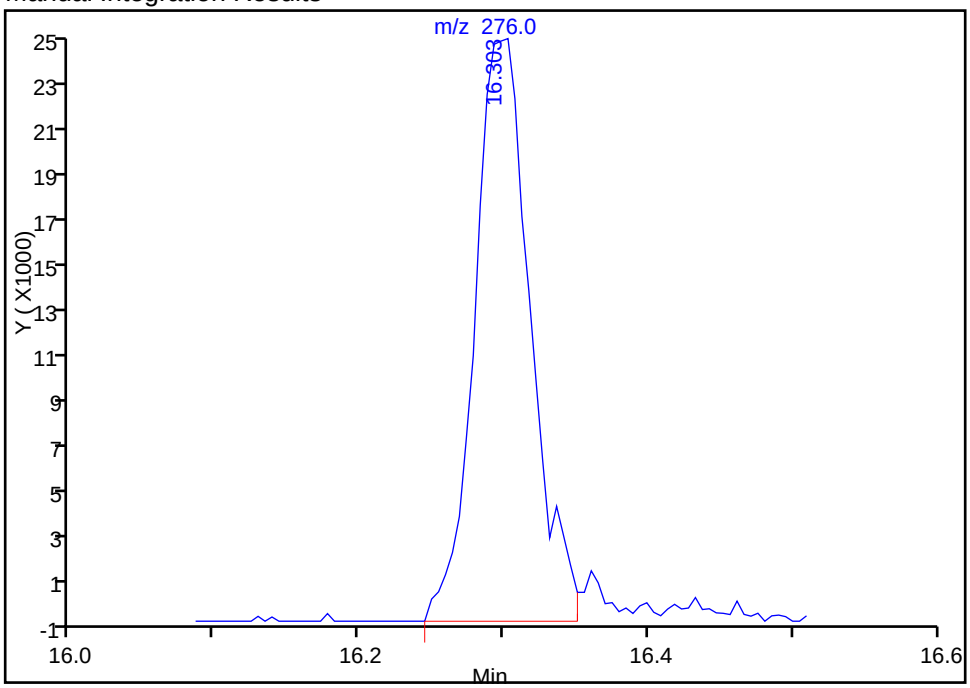
Processing Integration Results

RT: 16.30
Area: 61502
Amount: 0.454721
Amount Units: ng/ul



Manual Integration Results

RT: 16.30
Area: 64921
Amount: 0.457702
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

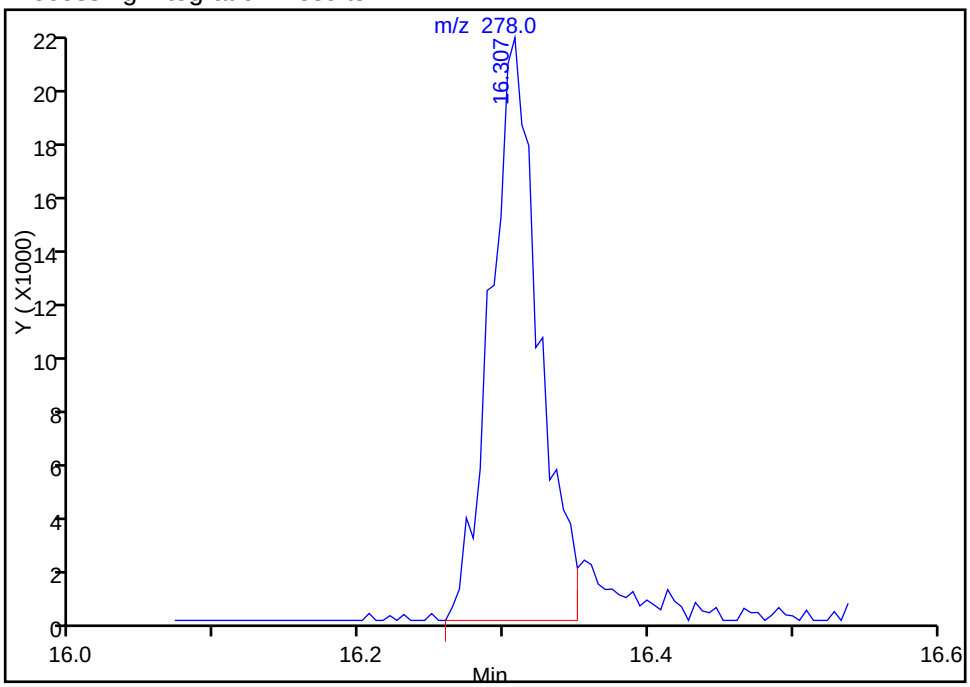
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420005.D				
Injection Date:	20-Apr-2015 10:05:30	Instrument ID:	A4HP9		
Lims ID:	std2 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

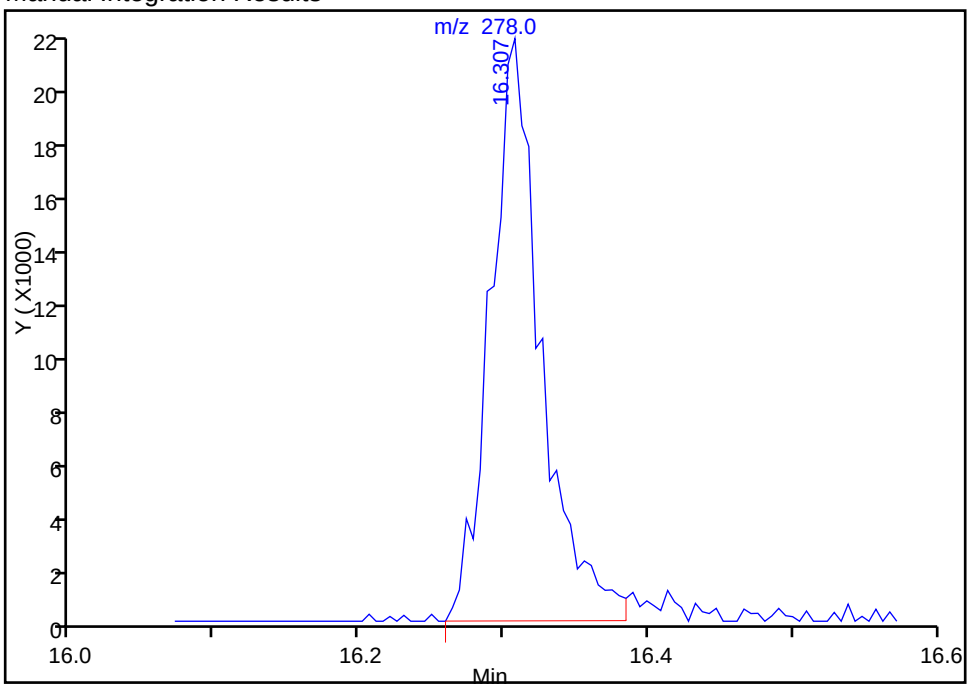
Processing Integration Results

RT: 16.31
Area: 50195
Amount: 0.450179
Amount Units: ng/ul



Manual Integration Results

RT: 16.31
Area: 52913
Amount: 0.452135
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:55:28
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D
Lims ID: std1 lst1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Apr-2015 10:31:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-006
Misc. Info.: STD1 LST1STD1 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:58 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 11:57:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.378	6.378	0.000	93	131933	4.00	4.00	
* 2 Naphthalene-d8	136	7.494	7.494	0.000	98	519472	4.00	4.00	
* 3 Acenaphthene-d10	164	8.999	9.004	-0.005	92	282727	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	99	497649	4.00	4.00	
* 5 Chrysene-d12	240	12.572	12.572	0.000	97	570972	4.00	4.00	
* 6 Perylene-d12	264	14.356	14.361	-0.005	99	471088	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	83	9007	0.1000	0.0953	
$ 10 2-Fluorobiphenyl (Surr)	172	8.398	8.398	0.000	98	11882	0.1000	0.1250	
$ 12 Terphenyl-d14	244	11.601	11.601	0.000	97	13421	0.1000	0.1155	
75 Naphthalene	128	7.513	7.513	0.000	95	15960	0.1000	0.1150	
87 2-Methylnaphthalene	142	8.100	8.105	-0.005	95	10845	0.1000	0.1190	
88 1-Methylnaphthalene	142	8.191	8.191	0.000	83	8731	0.1000	0.1130	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	95	12497	0.1000	0.1260	
100 2-Chloronaphthalene	162	8.523	8.523	0.000	97	9895	0.1000	0.1261	
109 Acenaphthylene	152	8.884	8.884	0.000	93	13045	0.1000	0.1076	
112 Acenaphthene	153	9.028	9.028	0.000	95	9215	0.1000	0.1168	
116 Dibenzofuran	168	9.172	9.172	0.000	94	11304	0.1000	0.1053	
126 Fluorene	166	9.465	9.466	-0.001	94	9681	0.1000	0.1075	
141 Hexachlorobenzene	284	9.951	9.951	0.000	74	2911	0.1000	0.1160	
148 Phenanthrene	178	10.293	10.293	0.000	97	14773	0.1000	0.1131	
149 Anthracene	178	10.336	10.336	0.000	97	13820	0.1000	0.1058	
159 Fluoranthene	202	11.312	11.312	0.000	96	13563	0.1000	0.0899	
161 Pyrene	202	11.514	11.519	-0.005	93	14841	0.1000	0.0949	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	85	18614	0.1000	0.1160	
178 Chrysene	228	12.596	12.601	-0.005	93	16089	0.1000	0.1097	
182 Benzo[b]fluoranthene	252	13.798	13.803	-0.005	55	16357	0.1000	0.1152	
183 Benzo[k]fluoranthene	252	13.832	13.837	-0.005	92	15132	0.1000	0.1058	
184 Benzo[a]pyrene	252	14.269	14.279	-0.010	67	13667	0.1000	0.1008	
188 Indeno[1,2,3-cd]pyrene	276	16.299	16.304	-0.005	48	14509	0.1000	0.1057	M
189 Dibenz(a,h)anthracene	278	16.313	16.313	0.000	43	12210	0.1000	0.1078	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
190 Benzo[g,h,i]perylene	276	16.895	16.910	-0.015	65	13582	0.1000	0.1194	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L1 W_00005 Amount Added: 1.00 Units: mL

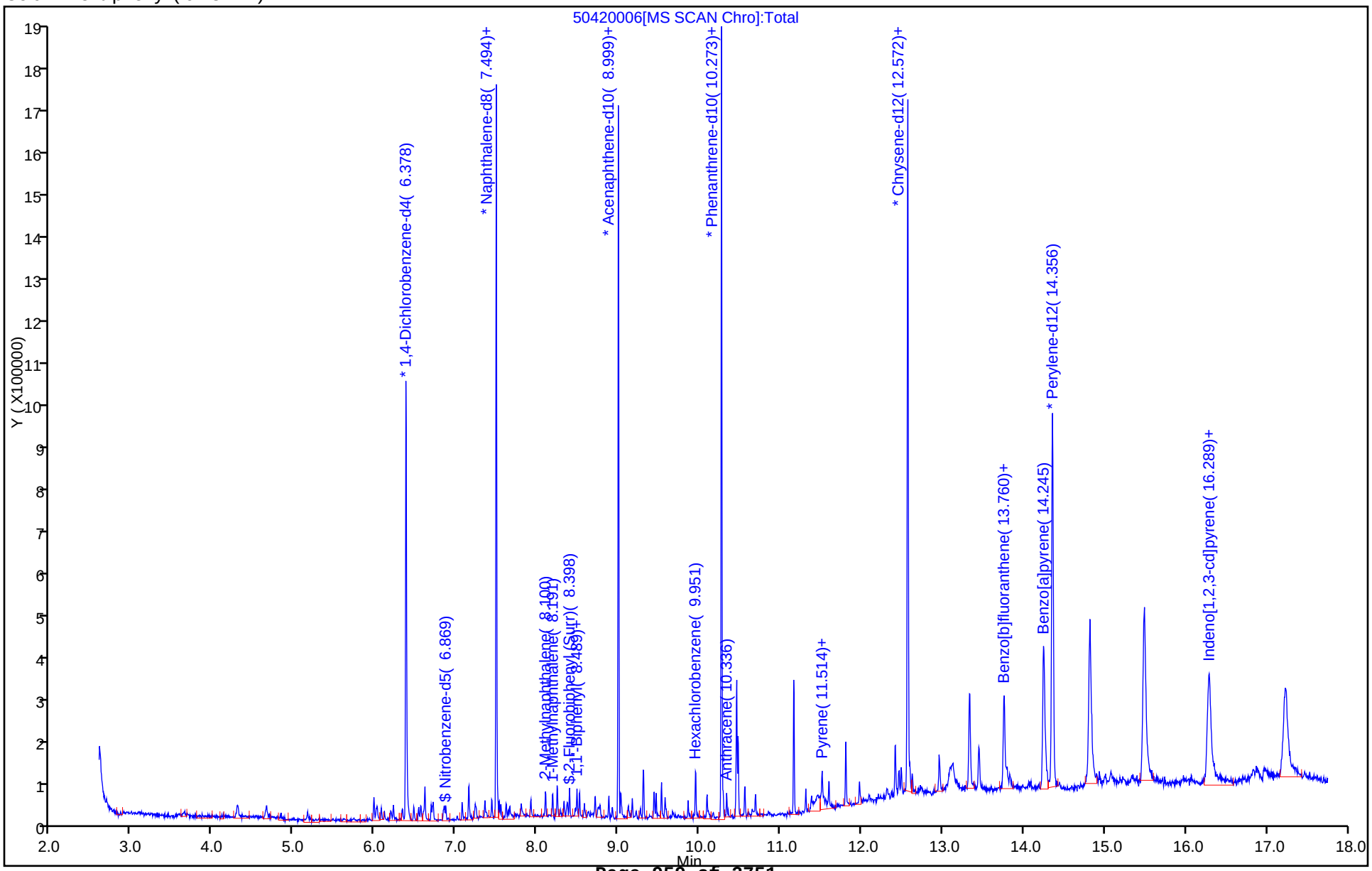
Report Date: 21-Apr-2015 07:00:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D

Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std1 lst1			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

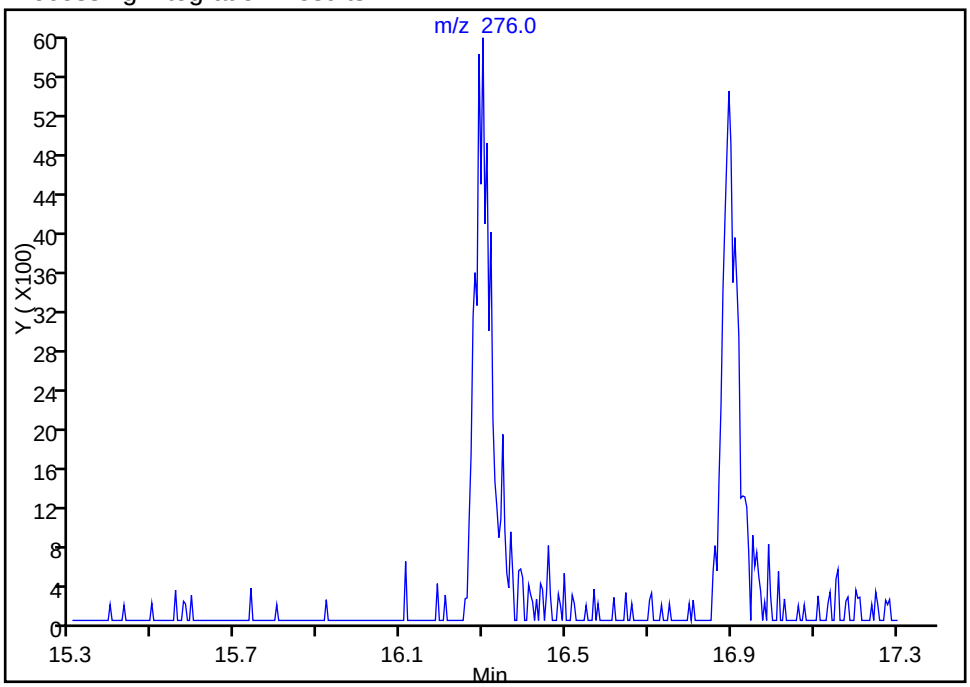
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D				
Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9		
Lims ID:	std1 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

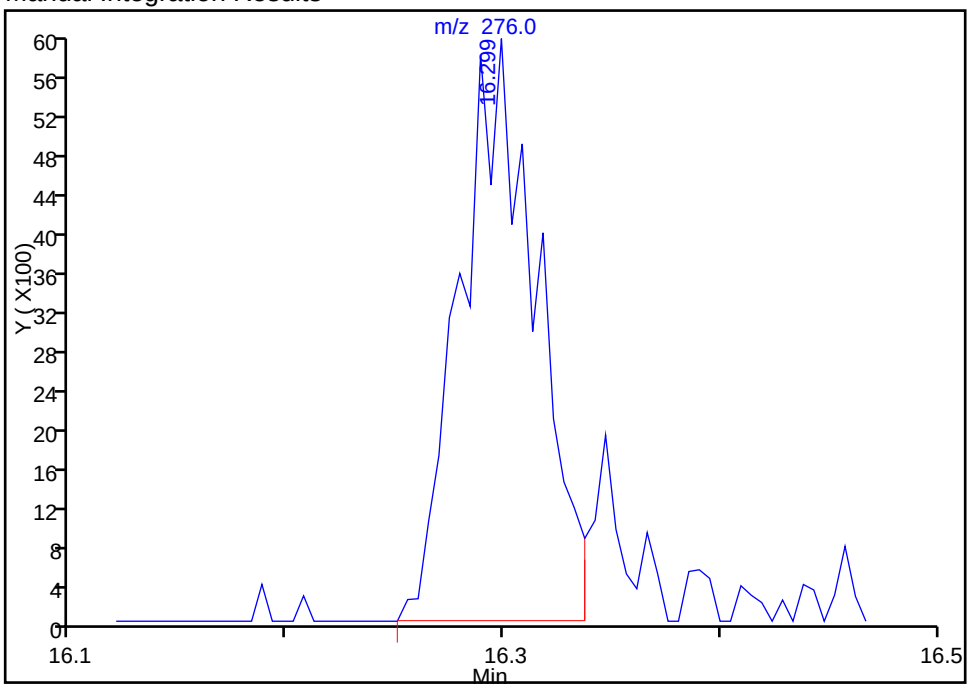
Not Detected
Expected RT: 16.30

Processing Integration Results



Manual Integration Results

RT: 16.30
Area: 14509
Amount: 0.105733
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:57:22
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

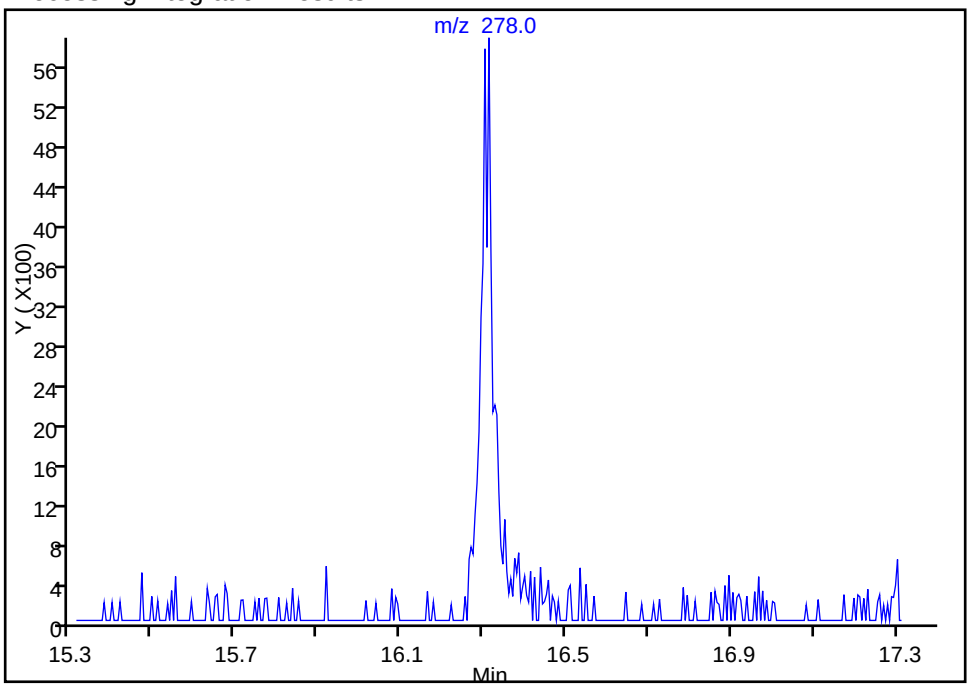
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D				
Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9		
Lims ID:	std1 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

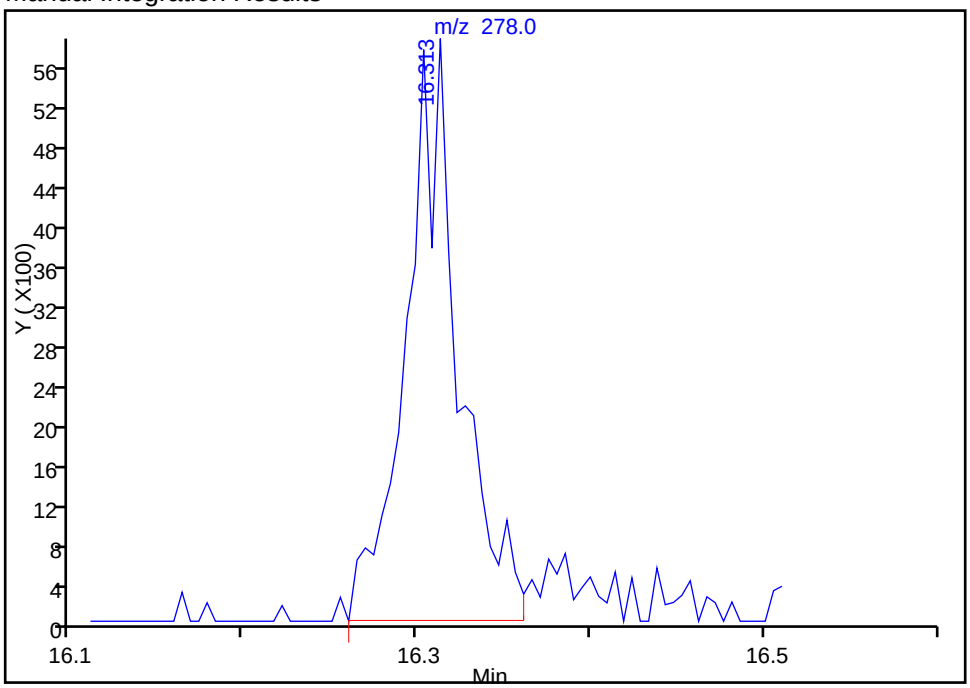
Not Detected
Expected RT: 16.31

Processing Integration Results



Manual Integration Results

RT: 16.31
Area: 12210
Amount: 0.107844
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:57:22
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

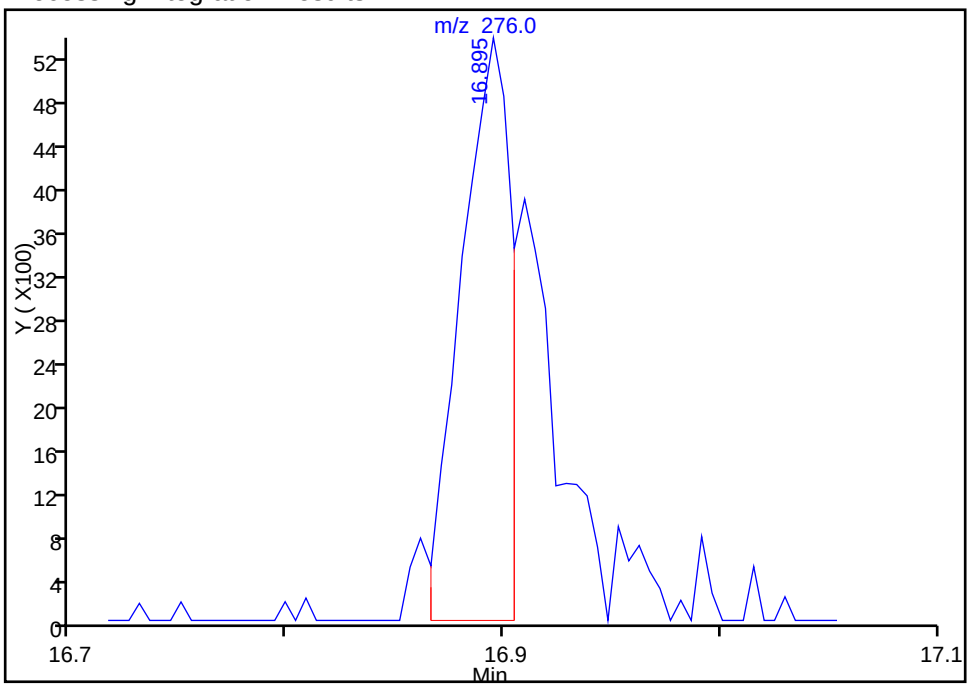
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420006.D				
Injection Date:	20-Apr-2015 10:31:30	Instrument ID:	A4HP9		
Lims ID:	std1 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

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

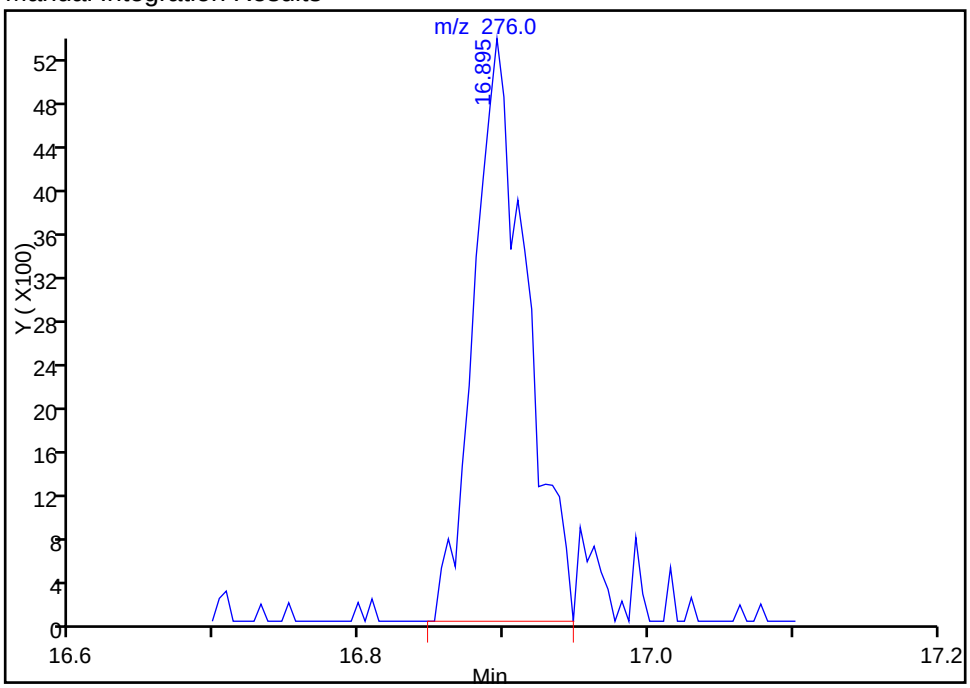
Processing Integration Results

RT: 16.90
Area: 8657
Amount: 0.080651
Amount Units: ng/ul



Manual Integration Results

RT: 16.90
Area: 13582
Amount: 0.119361
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:57:22
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D
Lims ID: std9 lst1
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 20-Apr-2015 10:56:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-007
Misc. Info.: STD9 LST1STD9 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:00 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 11:59:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.378	0.003	85	125811	4.00	4.00	
* 2 Naphthalene-d8	136	7.496	7.494	0.002	98	469432	4.00	4.00	
* 3 Acenaphthene-d10	164	9.001	9.004	-0.003	78	299359	4.00	4.00	
* 4 Phenanthrene-d10	188	10.276	10.273	0.003	98	528965	4.00	4.00	
* 5 Chrysene-d12	240	12.579	12.572	0.007	80	612076	4.00	4.00	
* 6 Perylene-d12	264	14.363	14.361	0.002	96	544747	4.00	4.00	
$ 7 2-Fluorophenol	112		5.162				ND	ND	
$ 8 Phenol-d5	99	6.020	6.013	0.007	80	1816095	25.0	26.2	
$ 9 Nitrobenzene-d5	82	6.857	6.854	0.003	83	2163859	25.0	25.3	
$ 10 2-Fluorobiphenyl (Surr)	172	8.400	8.398	0.002	97	2483500	25.0	24.7	
$ 11 2,4,6-Tribromophenol	330	9.675	9.672	0.003	83	285003	25.0	25.7	
$ 12 Terphenyl-d14	244	11.603	11.601	0.002	98	3178109	25.0	25.5	
25 1,4-Dioxane	88	3.091	3.079	0.012	80	796449	25.0	29.8	M
26 N-Nitrosodimethylamine	74	3.577	3.560	0.017	90	1219548	25.0	27.4	
27 Pyridine	79	3.625	3.618	0.007	92	1982612	25.0	27.7	
41 Benzaldehyde	77	5.986	5.984	0.002	82	2405523	50.0	45.8	
43 Phenol	94	6.030	6.027	0.003	78	1983859	25.0	26.4	
44 Aniline	93	6.083	6.075	0.008	93	2317533	25.0	24.8	
69 Bis(2-chloroethyl)ether	93	6.121	6.114	0.007	91	1599325	25.0	25.4	
46 2-Chlorophenol	128	6.198	6.196	0.002	90	1096775	25.0	24.9	
243 n-Decane	57	6.227	6.224	0.003	97	1419482	NC	NC	
47 1,3-Dichlorobenzene	146	6.337	6.335	0.002	80	1213423	25.0	25.5	
48 1,4-Dichlorobenzene	146	6.395	6.398	-0.003	77	1239675	25.0	25.7	
49 Benzyl alcohol	108	6.482	6.474	0.008	84	932286	25.0	26.3	
50 1,2-Dichlorobenzene	146	6.539	6.537	0.002	84	1163941	25.0	25.9	
51 2-Methylphenol	108	6.568	6.566	0.002	77	1254684	25.0	25.7	
53 2,2'-oxybis[1-chloropropan	45	6.602	6.595	0.007	98	1355437	25.0	26.3	
52 Indene	115	6.616	6.614	0.002	68	4722832	50.0	53.3	
21 3 & 4 Methylphenol	108	6.698	6.691	0.007	95	1380158	25.0	26.7	
57 N-Nitrosodi-n-propylamine	70	6.712	6.705	0.007	95	1433453	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.722	6.715	0.007	75	2015330	25.0	26.9	
61 Hexachloroethane	117	6.842	6.840	0.002	92	612821	25.0	26.8	
62 Nitrobenzene	77	6.876	6.869	0.007	70	1967292	25.0	24.9	
64 Isophorone	82	7.078	7.071	0.007	94	3453992	25.0	25.9	
66 2-Nitrophenol	139	7.155	7.153	0.002	82	587986	25.0	27.0	
65 2,4-Dimethylphenol	107	7.160	7.157	0.003	96	1505005	25.0	26.0	
71 Benzoic acid	122	7.256	7.196	0.060	83	1417052	50.0	51.4	M
70 Bis(2-chloroethoxy)methane	93	7.237	7.234	0.003	98	1775944	25.0	26.5	
73 2,4-Dichlorophenol	162	7.357	7.354	0.003	87	914165	25.0	26.2	
74 1,2,4-Trichlorobenzene	180	7.439	7.441	-0.002	85	1007107	25.0	26.2	
75 Naphthalene	128	7.516	7.513	0.003	98	3188013	25.0	25.4	
76 4-Chloroaniline	127	7.535	7.532	0.003	54	1404257	25.0	25.6	
77 2,6-Dichlorophenol	162	7.554	7.552	0.002	63	895770	25.0	26.2	
79 Hexachlorobutadiene	225	7.617	7.619	-0.002	90	672471	25.0	26.0	
84 Caprolactam	113	7.843	7.807	0.036	79	785426	50.0	53.5	M
86 4-Chloro-3-methylphenol	107	7.929	7.922	0.007	78	1308872	25.0	26.7	
87 2-Methylnaphthalene	142	8.102	8.105	-0.003	80	2149188	25.0	26.1	
88 1-Methylnaphthalene	142	8.194	8.191	0.003	80	1862085	25.0	26.7	
89 Hexachlorocyclopentadiene	237	8.246	8.244	0.002	86	734839	25.0	26.3	
91 1,2,4,5-Tetrachlorobenzene	216	8.251	8.249	0.002	95	1079990	25.0	25.0	
92 2,4,6-Trichlorophenol	196	8.333	8.331	0.002	91	767417	25.0	26.7	
93 2,4,5-Trichlorophenol	196	8.372	8.364	0.008	91	773840	25.0	25.8	
98 1,1'-Biphenyl	154	8.492	8.489	0.003	97	2609206	25.0	24.8	
100 2-Chloronaphthalene	162	8.525	8.523	0.002	98	2107044	25.0	25.4	
102 2-Nitroaniline	65	8.588	8.581	0.007	70	1057455	25.0	25.1	
105 Dimethyl phthalate	163	8.723	8.715	0.008	93	2325490	25.0	24.9	
106 1,3-Dinitrobenzene	168	8.756	8.749	0.007	80	399169	25.0	26.6	
107 2,6-Dinitrotoluene	165	8.780	8.773	0.007	61	543717	25.0	24.8	
109 Acenaphthylene	152	8.886	8.884	0.002	90	3328512	25.0	25.9	
110 3-Nitroaniline	138	8.934	8.927	0.007	81	554662	25.0	25.4	
111 2,4-Dinitrophenol	184	9.021	9.014	0.007	93	809332	50.0	51.2	
112 Acenaphthene	153	9.030	9.028	0.002	91	2110449	25.0	25.3	
113 4-Nitrophenol	109	9.050	9.038	0.012	40	1065502	50.0	51.5	
114 2,4-Dinitrotoluene	165	9.131	9.124	0.007	80	756173	25.0	26.5	
116 Dibenzofuran	168	9.175	9.172	0.003	85	2940156	25.0	25.9	
119 2,3,4,6-Tetrachlorophenol	232	9.271	9.268	0.003	73	629702	25.0	26.0	
121 Diethyl phthalate	149	9.314	9.307	0.007	95	2408629	25.0	25.5	
247 Hexadecane	57	9.319	9.316	0.003	92	1733598	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.444	9.442	0.002	89	1221605	25.0	25.2	
125 4-Nitroaniline	138	9.458	9.446	0.012	65	571890	25.0	27.1	
126 Fluorene	166	9.473	9.466	0.007	100	2432427	25.0	25.5	
128 4,6-Dinitro-2-methylphenol	198	9.487	9.480	0.007	90	1014166	50.0	52.5	
131 N-Nitrosodiphenylamine	169	9.540	9.533	0.007	98	3649375	50.0	51.3	
132 1,2-Diphenylhydrazine	77	9.579	9.576	0.002	98	3625120	25.0	24.5	
133 Azobenzene	77	9.579	9.576	0.002	95	3624950	25.0	24.5	
139 4-Bromophenyl phenyl ether	248	9.862	9.860	0.002	69	684530	25.0	25.3	
141 Hexachlorobenzene	284	9.954	9.951	0.003	84	643091	25.0	24.1	
142 Atrazine	200	9.968	9.956	0.012	85	1444150	50.0	53.0	
244 n-Octadecane	57	10.093	10.096	-0.003	83	1483813	NC	NC	
143 Pentachlorophenol	266	10.107	10.105	0.002	81	953443	50.0	49.8	
148 Phenanthrene	178	10.300	10.293	0.007	87	3573119	25.0	25.7	
149 Anthracene	178	10.343	10.336	0.007	87	3652900	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.454	10.451	0.003	84	3117134	25.0	25.1	
154 Di-n-butyl phthalate	149	10.694	10.692	0.002	100	4067476	25.0	26.2	
159 Fluoranthene	202	11.319	11.312	0.007	98	4183231	25.0	26.1	
160 Benzidine	184	11.387	11.384	0.003	88	4548704	50.0	51.2	
161 Pyrene	202	11.521	11.519	0.002	95	4352476	25.0	26.0	
168 Butyl benzyl phthalate	149	11.978	11.976	0.002	91	1972015	25.0	25.3	
173 Bis(2-ethylhexyl) phthalat	149	12.464	12.461	0.003	95	2657049	25.0	25.7	
175 3,3'-Dichlorobenzidine	252	12.502	12.495	0.007	59	2963930	50.0	53.1	
177 Benzo[a]anthracene	228	12.565	12.562	0.003	89	4343670	25.0	25.3	
178 Chrysene	228	12.608	12.601	0.007	92	4035079	25.0	25.7	
180 Di-n-octyl phthalate	149	13.127	13.125	0.002	98	5115692	25.0	26.7	
182 Benzo[b]fluoranthene	252	13.810	13.803	0.007	84	4188034	25.0	25.5	
183 Benzo[k]fluoranthene	252	13.849	13.837	0.012	86	4143610	25.0	25.1	
184 Benzo[a]pyrene	252	14.291	14.279	0.012	74	4244066	25.0	27.1	
188 Indeno[1,2,3-cd]pyrene	276	16.335	16.304	0.031	83	3714112	25.0	23.4	
189 Dibenz(a,h)anthracene	278	16.340	16.313	0.027	76	3102596	25.0	23.7	
190 Benzo[g,h,i]perylene	276	16.936	16.910	0.026	94	2854916	25.0	21.7	
S 191 Methyl Phenols,Total	100				0			52.3	
S 245 Total Cresols	100				0			52.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L9 W_00005 Amount Added: 1.00 Units: mL

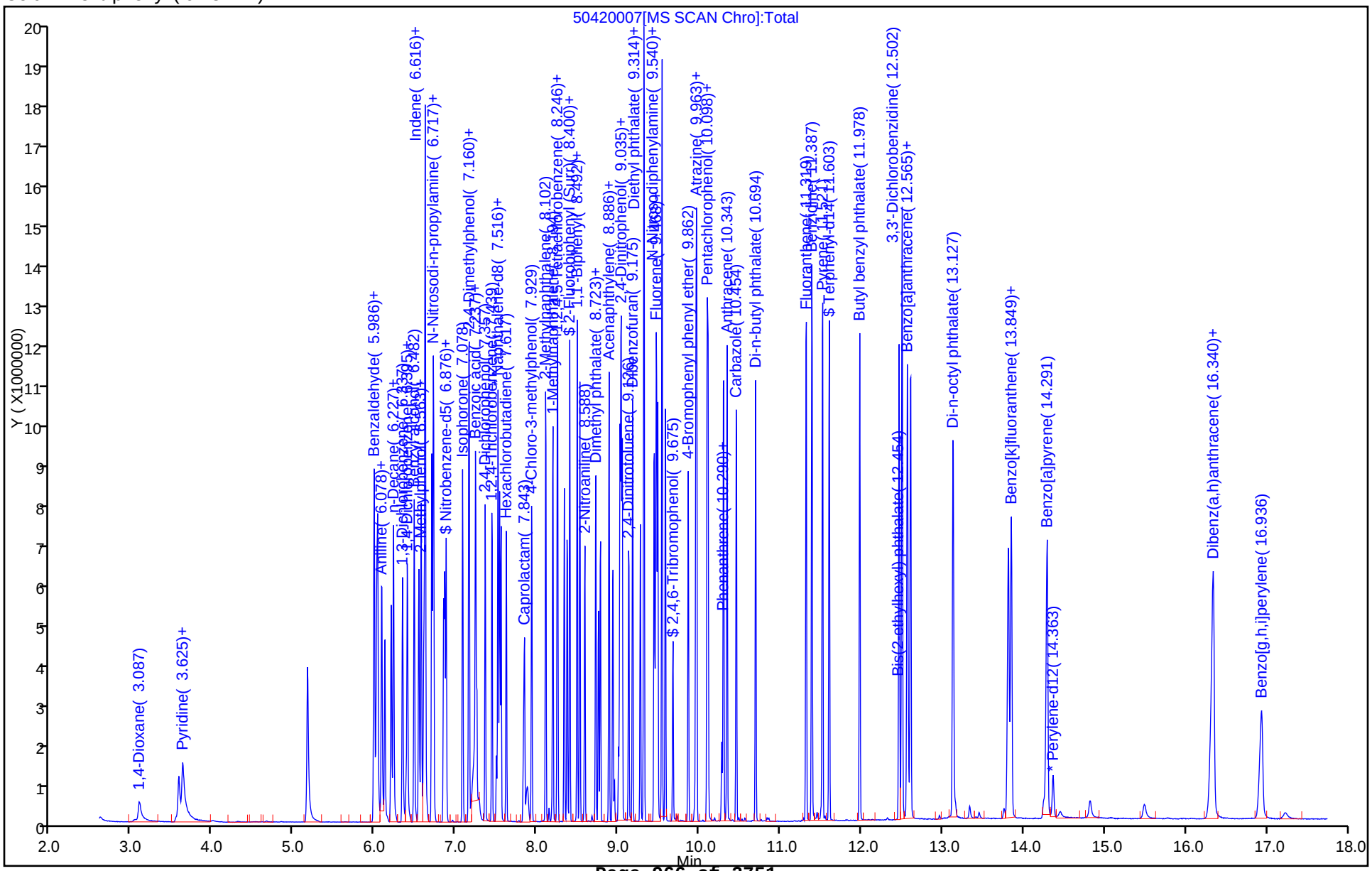
Report Date: 21-Apr-2015 07:01:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D

Injection Date:	20-Apr-2015 10:56:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std9 lst1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

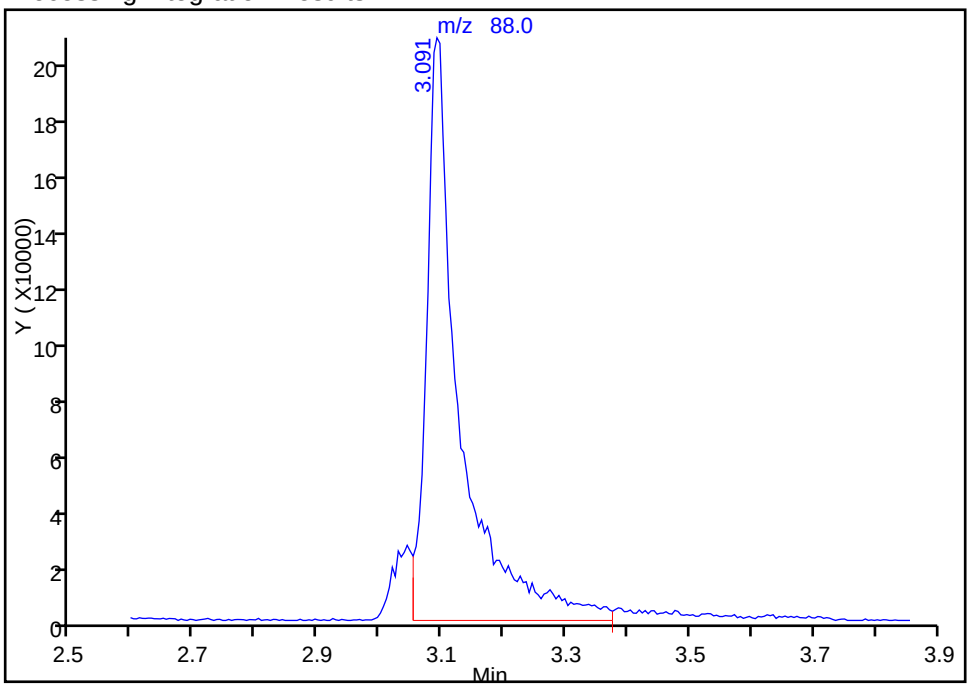
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D				
Injection Date:	20-Apr-2015 10:56:30	Instrument ID:	A4HP9		
Lims ID:	std9 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

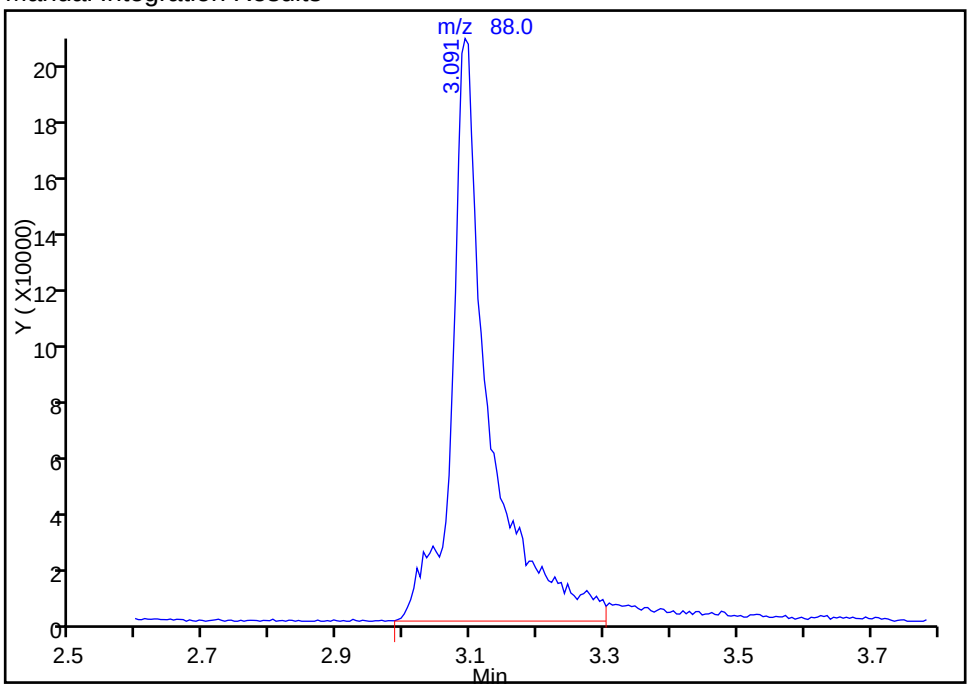
Processing Integration Results

RT: 3.09
Area: 766297
Amount: 29.146349
Amount Units: ng/ul



Manual Integration Results

RT: 3.09
Area: 796449
Amount: 29.827805
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:59:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

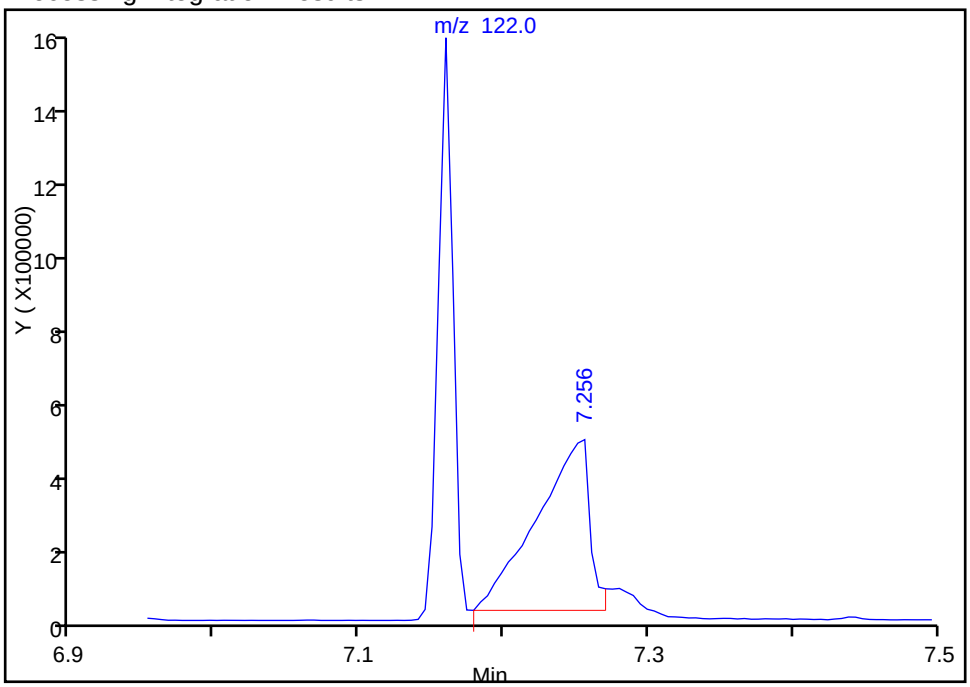
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D
Injection Date: 20-Apr-2015 10:56:30 Instrument ID: A4HP9
Lims ID: std9 lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

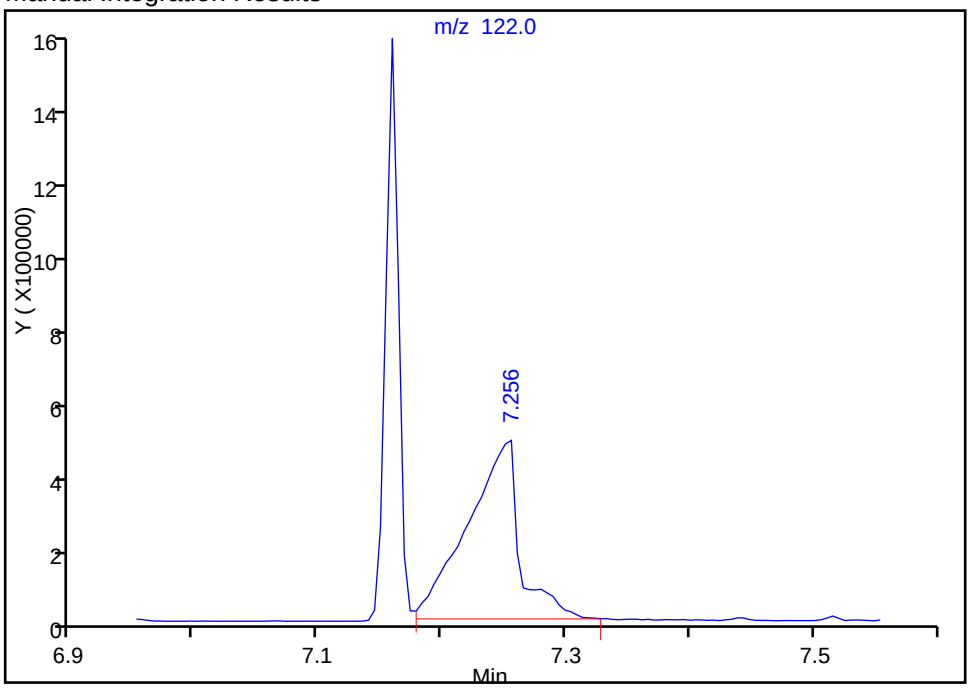
Processing Integration Results

RT: 7.26
Area: 1182736
Amount: 49.576173
Amount Units: ng/ul



Manual Integration Results

RT: 7.26
Area: 1417052
Amount: 51.369488
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:59:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

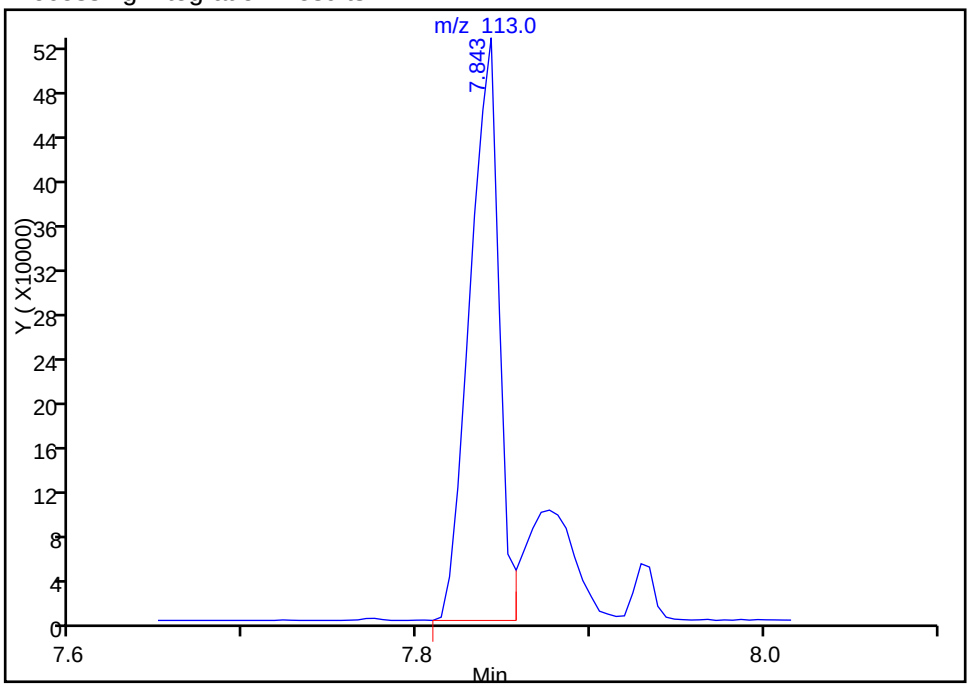
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420007.D				
Injection Date:	20-Apr-2015 10:56:30	Instrument ID:	A4HP9		
Lims ID:	std9 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

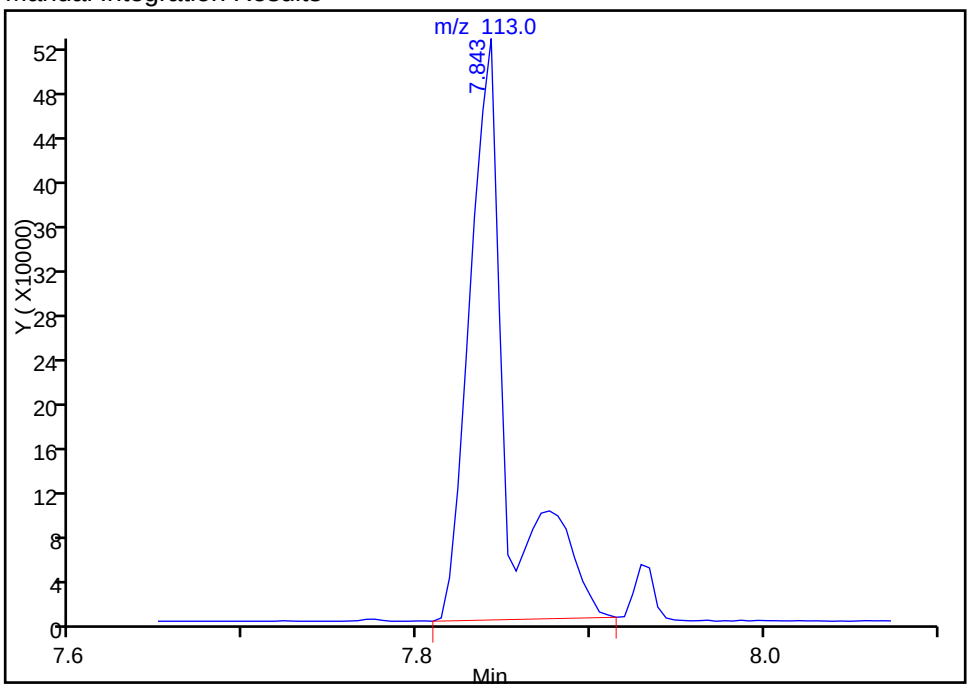
Processing Integration Results

RT: 7.84
Area: 609766
Amount: 45.147152
Amount Units: ng/ul



Manual Integration Results

RT: 7.84
Area: 785426
Amount: 53.464657
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 11:59:29
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D
Lims ID: std8 lst1
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Apr-2015 11:22:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-008
Misc. Info.: STD8 LST1STD8 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:04 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 12:02:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.378	0.003	93	136747	4.00	4.00	
* 2 Naphthalene-d8	136	7.496	7.494	0.002	98	513229	4.00	4.00	
* 3 Acenaphthene-d10	164	9.002	9.004	-0.002	78	319069	4.00	4.00	
* 4 Phenanthrene-d10	188	10.276	10.273	0.003	95	624371	4.00	4.00	
* 5 Chrysene-d12	240	12.579	12.572	0.007	76	653369	4.00	4.00	
* 6 Perylene-d12	264	14.363	14.361	0.002	94	565638	4.00	4.00	
$ 7 2-Fluorophenol	112	5.164	5.162	0.002	94	1184060	20.0	23.5	
$ 8 Phenol-d5	99	6.015	6.013	0.002	75	1459687	20.0	19.4	
$ 9 Nitrobenzene-d5	82	6.857	6.854	0.003	83	1813424	20.0	19.4	
$ 10 2-Fluorobiphenyl (Surr)	172	8.401	8.398	0.002	98	2091076	20.0	19.5	
$ 11 2,4,6-Tribromophenol	330	9.675	9.672	0.003	86	232521	20.0	19.7	
$ 12 Terphenyl-d14	244	11.603	11.601	0.002	98	2639723	20.0	19.9	
25 1,4-Dioxane	88	3.077	3.079	-0.002	80	651861	20.0	22.5	
26 N-Nitrosodimethylamine	74	3.563	3.560	0.003	86	1055854	20.0	21.8	
27 Pyridine	79	3.616	3.618	-0.002	92	1667107	20.0	21.4	
41 Benzaldehyde	77	5.986	5.984	0.002	84	2041192	40.0	35.8	
43 Phenol	94	6.030	6.027	0.003	91	1613653	20.0	19.8	
44 Aniline	93	6.078	6.075	0.003	93	1993104	20.0	19.6	
69 Bis(2-chloroethyl)ether	93	6.116	6.114	0.002	93	1336553	20.0	19.5	
46 2-Chlorophenol	128	6.198	6.196	0.002	90	923734	20.0	19.3	
243 n-Decane	57	6.222	6.224	-0.002	97	1204864	NC	NC	
47 1,3-Dichlorobenzene	146	6.338	6.335	0.003	79	1012760	20.0	19.6	
48 1,4-Dichlorobenzene	146	6.395	6.398	-0.003	78	1055490	20.0	20.1	
49 Benzyl alcohol	108	6.482	6.474	0.008	83	755608	20.0	19.6	
50 1,2-Dichlorobenzene	146	6.539	6.537	0.002	80	983121	20.0	20.1	
51 2-Methylphenol	108	6.564	6.566	-0.002	86	1078178	20.0	20.3	
53 2,2'-oxybis[1-chloropropan	45	6.597	6.595	0.002	97	1086251	20.0	19.4	
52 Indene	115	6.616	6.614	0.002	69	3910748	40.0	40.6	
21 3 & 4 Methylphenol	108	6.698	6.691	0.007	94	1136122	20.0	20.2	
57 N-Nitrosodi-n-propylamine	70	6.713	6.705	0.008	95	1170582	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.717	6.715	0.002	78	1643167	20.0	20.2	
61 Hexachloroethane	117	6.842	6.840	0.002	89	514178	20.0	20.7	
62 Nitrobenzene	77	6.876	6.869	0.007	72	1652384	20.0	19.2	
64 Isophorone	82	7.078	7.071	0.007	94	2910921	20.0	20.0	
66 2-Nitrophenol	139	7.150	7.153	-0.003	71	488712	20.0	20.5	
65 2,4-Dimethylphenol	107	7.160	7.157	0.003	96	1241302	20.0	19.6	
71 Benzoic acid	122	7.246	7.196	0.050	81	1203448	40.0	40.2	M
70 Bis(2-chloroethoxy)methane	93	7.237	7.234	0.003	98	1486134	20.0	20.3	
73 2,4-Dichlorophenol	162	7.357	7.354	0.003	90	788964	20.0	20.7	
74 1,2,4-Trichlorobenzene	180	7.439	7.441	-0.002	83	845301	20.0	20.1	
75 Naphthalene	128	7.516	7.513	0.003	99	2719900	20.0	19.8	
76 4-Chloroaniline	127	7.535	7.532	0.003	37	1269310	20.0	21.2	M
77 2,6-Dichlorophenol	162	7.554	7.552	0.002	56	756155	20.0	20.2	
79 Hexachlorobutadiene	225	7.617	7.619	-0.002	90	562810	20.0	19.9	
84 Caprolactam	113	7.833	7.807	0.026	80	661152	40.0	41.2	M
86 4-Chloro-3-methylphenol	107	7.929	7.922	0.007	79	1110751	20.0	20.7	
87 2-Methylnaphthalene	142	8.102	8.105	-0.003	83	1812135	20.0	20.1	
88 1-Methylnaphthalene	142	8.194	8.191	0.003	79	1563474	20.0	20.5	
89 Hexachlorocyclopentadiene	237	8.247	8.244	0.003	92	627336	20.0	21.0	
91 1,2,4,5-Tetrachlorobenzene	216	8.251	8.249	0.002	95	919927	20.0	20.0	
92 2,4,6-Trichlorophenol	196	8.333	8.331	0.002	88	633938	20.0	20.7	
93 2,4,5-Trichlorophenol	196	8.367	8.364	0.003	89	649252	20.0	20.3	
98 1,1'-Biphenyl	154	8.492	8.489	0.003	96	2205577	20.0	19.7	
100 2-Chloronaphthalene	162	8.526	8.523	0.003	98	1730417	20.0	19.5	
102 2-Nitroaniline	65	8.588	8.581	0.007	70	898959	20.0	20.0	
105 Dimethyl phthalate	163	8.718	8.715	0.003	92	2000756	20.0	20.1	
106 1,3-Dinitrobenzene	168	8.756	8.749	0.007	76	335275	20.0	21.0	
107 2,6-Dinitrotoluene	165	8.780	8.773	0.007	61	461665	20.0	19.8	
109 Acenaphthylene	152	8.886	8.884	0.002	90	2761388	20.0	20.2	
110 3-Nitroaniline	138	8.929	8.927	0.002	79	458690	20.0	19.7	
111 2,4-Dinitrophenol	184	9.021	9.014	0.007	88	662271	40.0	39.8	
112 Acenaphthene	153	9.030	9.028	0.002	82	1782594	20.0	20.0	
113 4-Nitrophenol	109	9.045	9.038	0.007	38	909471	40.0	41.2	
114 2,4-Dinitrotoluene	165	9.127	9.124	0.003	77	633526	20.0	20.8	
116 Dibenzofuran	168	9.175	9.172	0.003	83	2462138	20.0	20.3	
119 2,3,4,6-Tetrachlorophenol	232	9.271	9.268	0.003	72	530025	20.0	20.6	
121 Diethyl phthalate	149	9.314	9.307	0.007	94	1962074	20.0	19.5	
247 Hexadecane	57	9.314	9.316	-0.002	75	1511457	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.444	9.442	0.002	93	1035111	20.0	20.1	
125 4-Nitroaniline	138	9.458	9.446	0.012	65	484148	20.0	21.5	
126 Fluorene	166	9.468	9.466	0.002	99	2048241	20.0	20.1	
128 4,6-Dinitro-2-methylphenol	198	9.487	9.480	0.007	85	838422	40.0	37.0	
131 N-Nitrosodiphenylamine	169	9.540	9.533	0.007	97	3015749	40.0	35.9	
132 1,2-Diphenylhydrazine	77	9.579	9.576	0.003	99	3104162	20.0	17.8	
133 Azobenzene	77	9.579	9.576	0.003	95	3103823	20.0	17.8	
139 4-Bromophenyl phenyl ether	248	9.862	9.860	0.002	68	565762	20.0	17.7	
141 Hexachlorobenzene	284	9.954	9.951	0.003	77	548893	20.0	17.4	
142 Atrazine	200	9.963	9.956	0.007	84	1177907	40.0	36.6	
244 n-Octadecane	57	10.093	10.096	-0.003	83	1486824	NC	NC	
143 Pentachlorophenol	266	10.108	10.105	0.003	79	864536	40.0	38.4	
148 Phenanthrene	178	10.295	10.293	0.002	99	3089079	20.0	18.8	
149 Anthracene	178	10.343	10.336	0.007	88	3180671	20.0	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.454	10.451	0.003	84	2973846	20.0	20.3	
154 Di-n-butyl phthalate	149	10.694	10.692	0.002	100	3843140	20.0	21.0	
159 Fluoranthene	202	11.315	11.312	0.003	99	3650270	20.0	19.3	
160 Benzidine	184	11.387	11.384	0.003	87	4240526	40.0	44.7	
161 Pyrene	202	11.521	11.519	0.002	95	3668016	20.0	20.5	
168 Butyl benzyl phthalate	149	11.978	11.976	0.002	91	1636215	20.0	19.7	
173 Bis(2-ethylhexyl) phthalat	149	12.464	12.461	0.003	95	2240970	20.0	20.3	
175 3,3'-Dichlorobenzidine	252	12.502	12.495	0.007	54	2472940	40.0	41.5	
177 Benzo[a]anthracene	228	12.565	12.562	0.003	89	3629694	20.0	19.8	
178 Chrysene	228	12.603	12.601	0.002	95	3348051	20.0	20.0	
180 Di-n-octyl phthalate	149	13.128	13.125	0.003	100	3907617	20.0	19.6	
182 Benzo[b]fluoranthene	252	13.810	13.803	0.007	84	3280855	20.0	19.2	
183 Benzo[k]fluoranthene	252	13.844	13.837	0.007	86	3588251	20.0	20.9	
184 Benzo[a]pyrene	252	14.286	14.279	0.007	73	3293663	20.0	20.2	
188 Indeno[1,2,3-cd]pyrene	276	16.330	16.304	0.026	87	3336574	20.0	20.3	
189 Dibenz(a,h)anthracene	278	16.335	16.313	0.022	79	2774062	20.0	20.4	
190 Benzo[g,h,i]perylene	276	16.927	16.910	0.016	92	2617903	20.0	19.2	
S 191 Methyl Phenols,Total	100				0			40.5	
S 245 Total Cresols	100				0			40.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L8 W_00005 Amount Added: 1.00 Units: mL

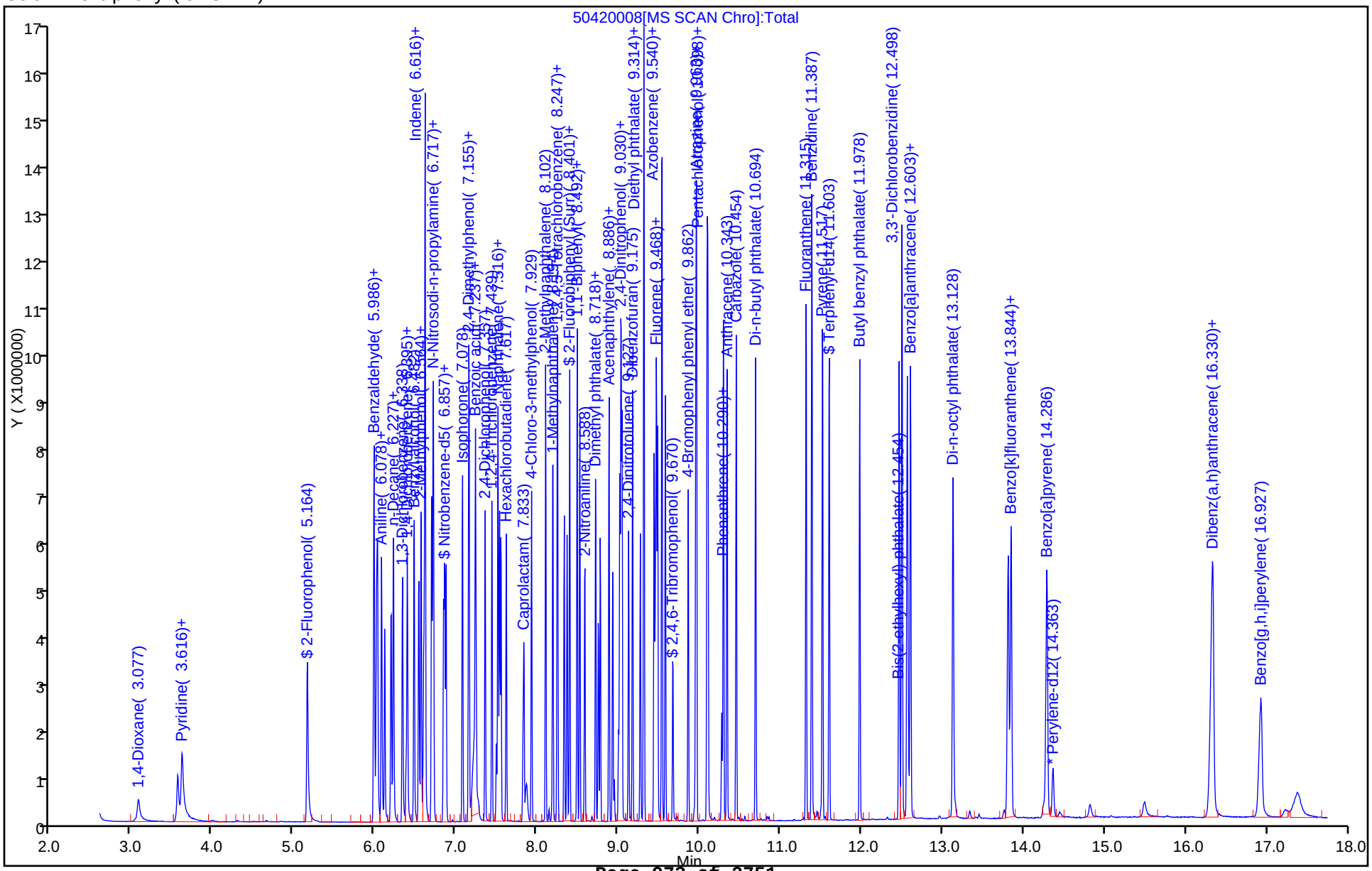
Report Date: 21-Apr-2015 07:01:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D

Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std8 lst1			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

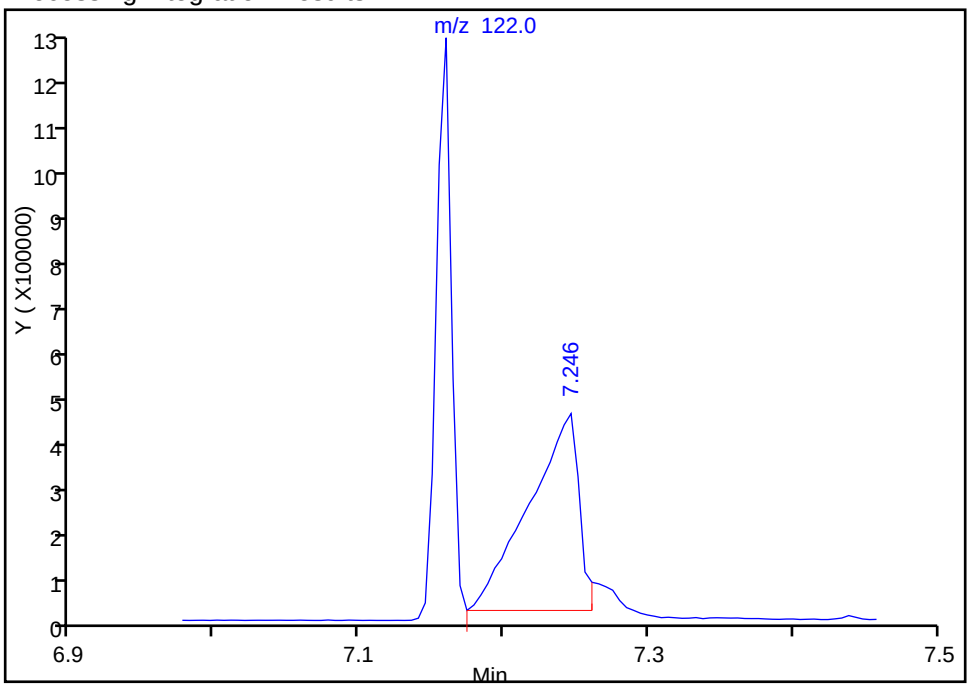
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D				
Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9		
Lims ID:	std8 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

71 Benzoic acid, CAS: 65-85-0

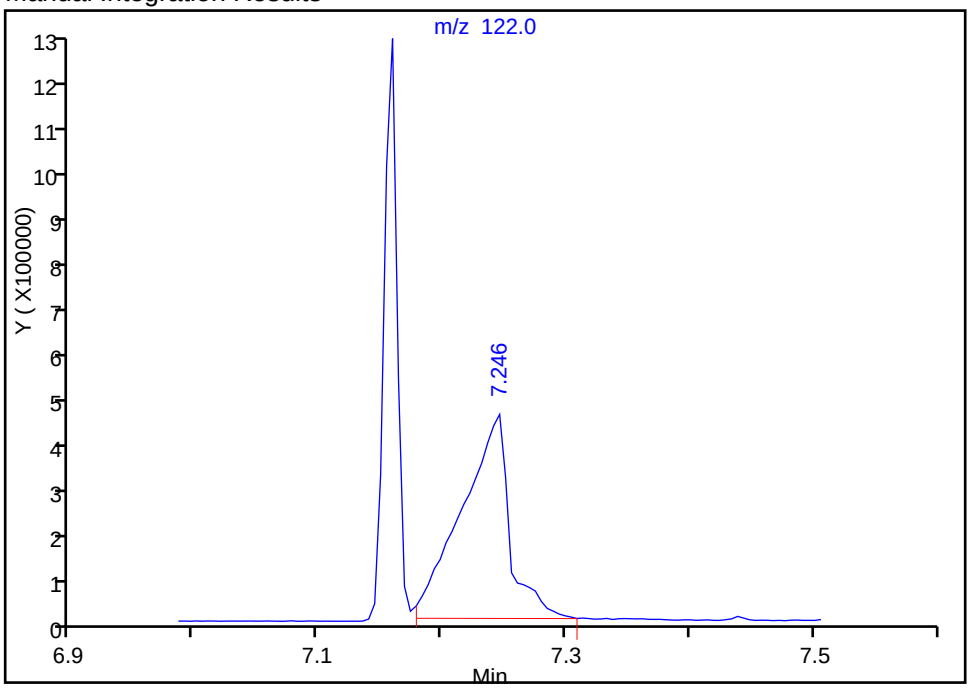
Processing Integration Results

RT: 7.25
Area: 1036672
Amount: 36.371089
Amount Units: ng/ul



Manual Integration Results

RT: 7.25
Area: 1203448
Amount: 40.225751
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:02:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

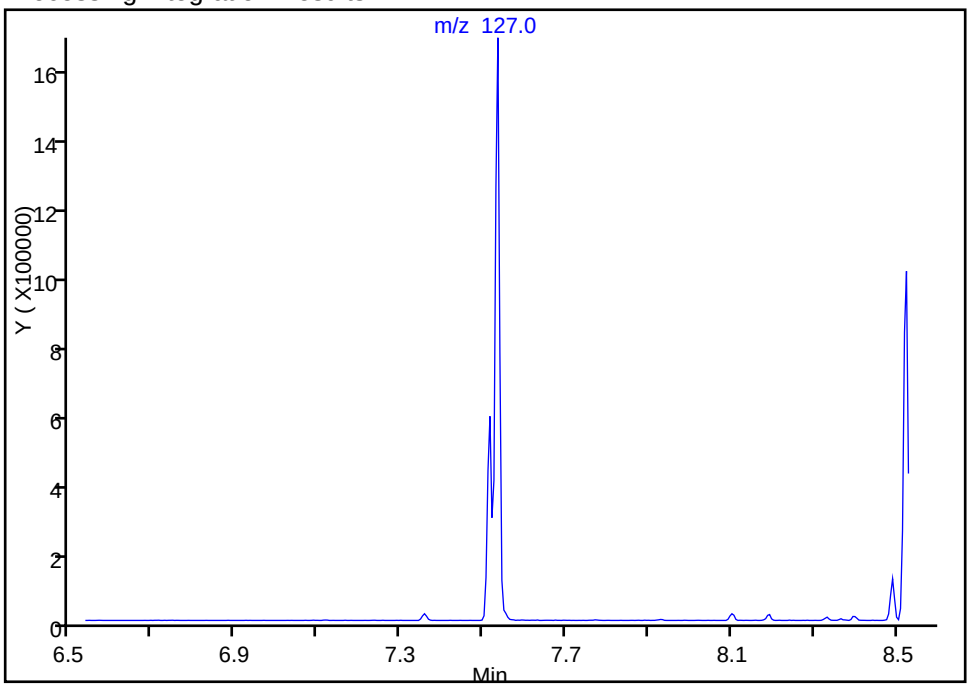
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D				
Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9		
Lims ID:	std8 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

76 4-Chloroaniline, CAS: 106-47-8

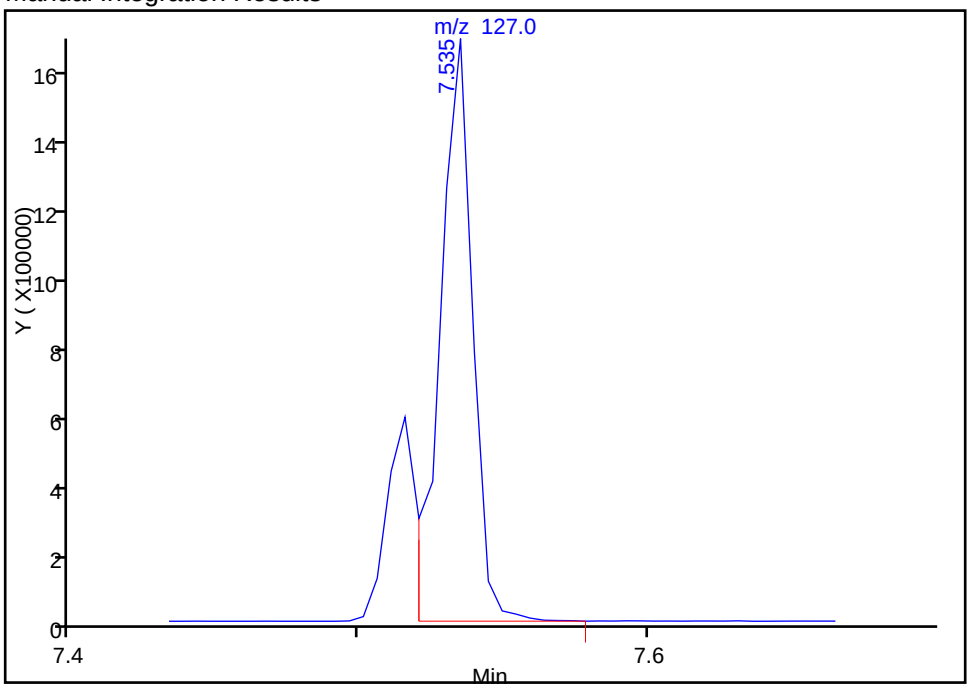
Not Detected
Expected RT: 7.53

Processing Integration Results



Manual Integration Results

RT: 7.53
Area: 1269310
Amount: 21.198300
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:02:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

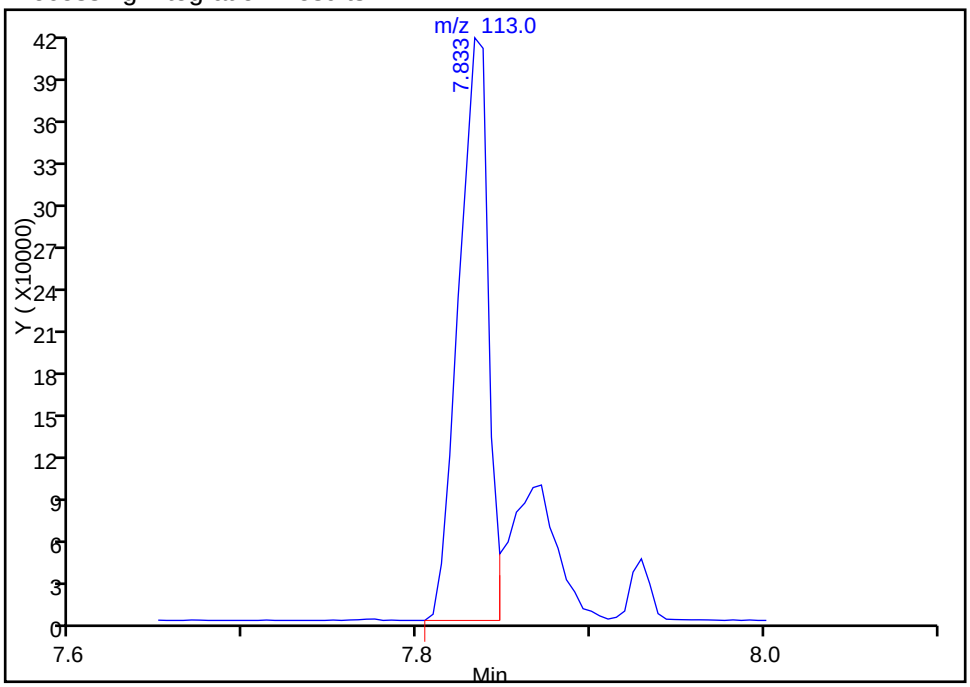
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420008.D				
Injection Date:	20-Apr-2015 11:22:30	Instrument ID:	A4HP9		
Lims ID:	std8 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

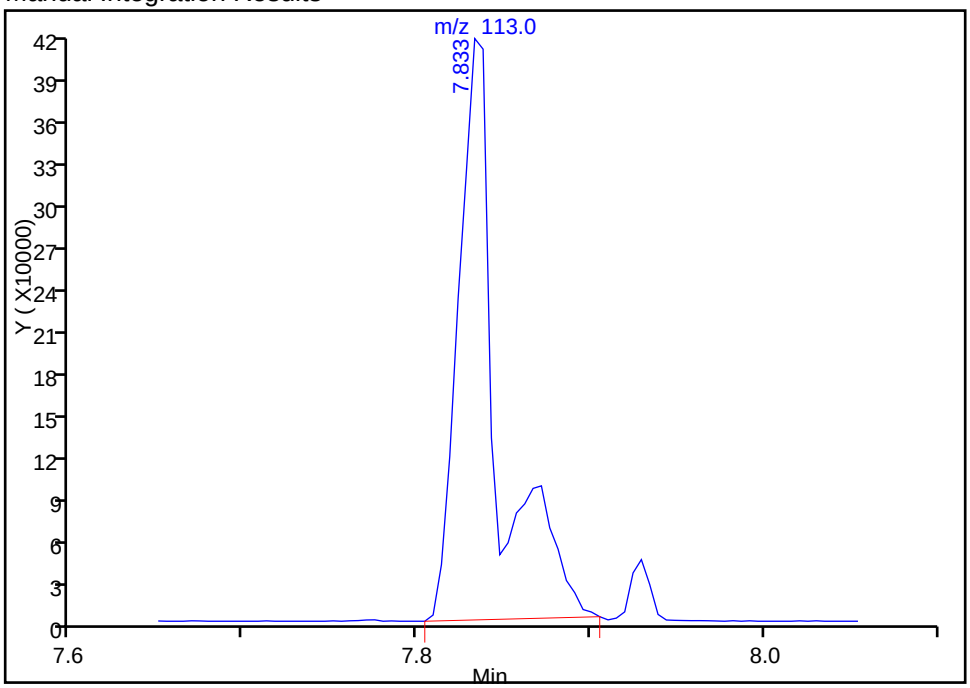
Processing Integration Results

RT: 7.83
Area: 498896
Amount: 32.382280
Amount Units: ng/ul



Manual Integration Results

RT: 7.83
Area: 661152
Amount: 41.164641
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:02:16
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D
Lims ID: std7 lst1
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Apr-2015 11:47:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-009
Misc. Info.: STD7 LST1STD7 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:06 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 12:14:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.378	0.004	94	126815	4.00	4.00	
* 2 Naphthalene-d8	136	7.493	7.494	-0.001	99	504652	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.004	-0.001	91	301648	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	98	547615	4.00	4.00	
* 5 Chrysene-d12	240	12.576	12.572	0.004	97	627071	4.00	4.00	
* 6 Perylene-d12	264	14.360	14.361	-0.001	98	521898	4.00	4.00	
$ 7 2-Fluorophenol	112	5.166	5.162	0.004	94	788012	15.0	16.9	
$ 8 Phenol-d5	99	6.017	6.013	0.004	94	1076581	15.0	15.4	
$ 9 Nitrobenzene-d5	82	6.858	6.854	0.004	85	1331714	15.0	14.5	
$ 10 2-Fluorobiphenyl (Surr)	172	8.397	8.398	-0.001	99	1520261	15.0	15.0	
$ 11 2,4,6-Tribromophenol	330	9.671	9.672	-0.001	83	174572	15.0	15.6	
$ 12 Terphenyl-d14	244	11.600	11.601	-0.001	99	1952012	15.0	15.3	
25 1,4-Dioxane	88	3.088	3.079	0.009	90	432945	15.0	16.1	M
26 N-Nitrosodimethylamine	74	3.569	3.560	0.009	91	776721	15.0	17.3	
27 Pyridine	79	3.622	3.618	0.004	94	1343545	15.0	18.6	
41 Benzaldehyde	77	5.983	5.984	-0.001	89	1572425	30.0	29.7	
43 Phenol	94	6.026	6.027	-0.001	95	1188566	15.0	15.7	
44 Aniline	93	6.079	6.075	0.004	95	1469438	15.0	15.6	
69 Bis(2-chloroethyl)ether	93	6.118	6.114	0.004	96	984085	15.0	15.5	
46 2-Chlorophenol	128	6.195	6.196	-0.001	88	683952	15.0	15.4	
243 n-Decane	57	6.224	6.224	0.000	98	875095	NC	NC	
47 1,3-Dichlorobenzene	146	6.339	6.335	0.004	88	740346	15.0	15.4	
48 1,4-Dichlorobenzene	146	6.397	6.398	-0.001	85	778292	15.0	16.0	
49 Benzyl alcohol	108	6.478	6.474	0.004	85	551283	15.0	15.4	
50 1,2-Dichlorobenzene	146	6.536	6.537	-0.001	87	721454	15.0	15.9	
51 2-Methylphenol	108	6.565	6.566	-0.001	93	789417	15.0	16.0	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.595	0.004	98	803960	15.0	15.5	
52 Indene	115	6.618	6.614	0.004	89	2861485	30.0	32.0	
21 3 & 4 Methylphenol	108	6.695	6.691	0.004	94	826942	15.0	15.9	
57 N-Nitrosodi-n-propylamine	70	6.709	6.705	0.004	99	866229	15.0	15.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.719	6.715	0.004	90	1222345	15.0	16.2	
61 Hexachloroethane	117	6.844	6.840	0.004	94	374905	15.0	16.2	
62 Nitrobenzene	77	6.873	6.869	0.004	82	1228211	15.0	14.5	
64 Isophorone	82	7.075	7.071	0.004	97	2145665	15.0	15.0	
66 2-Nitrophenol	139	7.152	7.153	-0.001	82	360286	15.0	15.4	
65 2,4-Dimethylphenol	107	7.156	7.157	-0.001	96	929670	15.0	15.0	
71 Benzoic acid	122	7.233	7.196	0.037	86	892363	30.0	30.7	
70 Bis(2-chloroethoxy)methane	93	7.238	7.234	0.004	99	1099899	15.0	15.3	
73 2,4-Dichlorophenol	162	7.358	7.354	0.004	94	576680	15.0	15.4	
74 1,2,4-Trichlorobenzene	180	7.440	7.441	-0.001	90	620048	15.0	15.0	
75 Naphthalene	128	7.512	7.513	-0.001	98	1980465	15.0	14.7	
76 4-Chloroaniline	127	7.532	7.532	0.000	89	894045	15.0	15.2	
77 2,6-Dichlorophenol	162	7.551	7.552	-0.001	89	559350	15.0	15.2	
79 Hexachlorobutadiene	225	7.618	7.619	-0.001	96	416879	15.0	15.0	
84 Caprolactam	113	7.825	7.807	0.018	85	492788	30.0	31.2	M
86 4-Chloro-3-methylphenol	107	7.926	7.922	0.004	88	813536	15.0	15.4	
87 2-Methylnaphthalene	142	8.104	8.105	-0.001	90	1352305	15.0	15.3	
88 1-Methylnaphthalene	142	8.190	8.191	-0.001	90	1136983	15.0	15.1	
89 Hexachlorocyclopentadiene	237	8.248	8.244	0.004	96	444101	15.0	15.8	
91 1,2,4,5-Tetrachlorobenzene	216	8.253	8.249	0.004	96	665913	15.0	15.3	
92 2,4,6-Trichlorophenol	196	8.330	8.331	-0.001	94	453458	15.0	15.6	
93 2,4,5-Trichlorophenol	196	8.368	8.364	0.004	90	466898	15.0	15.4	
98 1,1'-Biphenyl	154	8.489	8.489	-0.001	97	1601199	15.0	15.1	
100 2-Chloronaphthalene	162	8.522	8.523	-0.001	98	1250248	15.0	14.9	
102 2-Nitroaniline	65	8.585	8.581	0.004	71	662998	15.0	15.6	
105 Dimethyl phthalate	163	8.719	8.715	0.004	94	1445412	15.0	15.4	
106 1,3-Dinitrobenzene	168	8.753	8.749	0.004	80	239221	15.0	15.8	
107 2,6-Dinitrotoluene	165	8.777	8.773	0.004	81	345048	15.0	15.7	
109 Acenaphthylene	152	8.883	8.884	-0.001	98	2015345	15.0	15.6	
110 3-Nitroaniline	138	8.931	8.927	0.004	85	335723	15.0	15.3	
111 2,4-Dinitrophenol	184	9.017	9.014	0.003	93	459799	30.0	29.8	
112 Acenaphthene	153	9.032	9.028	0.004	96	1253565	15.0	14.9	
113 4-Nitrophenol	109	9.042	9.038	0.004	87	684980	30.0	32.8	
114 2,4-Dinitrotoluene	165	9.123	9.124	-0.001	81	453778	15.0	15.8	
116 Dibenzofuran	168	9.176	9.172	0.004	95	1802230	15.0	15.7	
119 2,3,4,6-Tetrachlorophenol	232	9.272	9.268	0.004	77	382719	15.0	15.7	
121 Diethyl phthalate	149	9.311	9.307	0.004	96	1405436	15.0	14.8	
247 Hexadecane	57	9.316	9.316	0.000	92	1090102	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.442	-0.001	93	764132	15.0	15.7	
125 4-Nitroaniline	138	9.455	9.446	0.009	75	357822	15.0	16.8	
126 Fluorene	166	9.470	9.466	0.004	100	1507017	15.0	15.7	
128 4,6-Dinitro-2-methylphenol	198	9.484	9.480	0.004	94	603382	30.0	30.4	
131 N-Nitrosodiphenylamine	169	9.537	9.533	0.004	98	2181833	30.0	29.6	
132 1,2-Diphenylhydrazine	77	9.580	9.576	0.004	99	2344695	15.0	15.3	
133 Azobenzene	77	9.580	9.576	0.004	95	2344821	15.0	15.3	
139 4-Bromophenyl phenyl ether	248	9.864	9.860	0.004	74	441862	15.0	15.8	
141 Hexachlorobenzene	284	9.955	9.951	0.004	88	400652	15.0	14.5	
142 Atrazine	200	9.960	9.956	0.004	89	884159	30.0	31.3	
244 n-Octadecane	57	10.095	10.096	-0.001	97	1150272	NC	NC	
143 Pentachlorophenol	266	10.104	10.105	-0.001	88	607473	30.0	30.8	
148 Phenanthrene	178	10.297	10.293	0.004	98	2136444	15.0	14.9	
149 Anthracene	178	10.340	10.336	0.004	98	2166727	15.0	15.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.455	10.451	0.004	97	2076150	15.0	16.2	
154 Di-n-butyl phthalate	149	10.691	10.692	-0.001	100	2688668	15.0	16.7	
159 Fluoranthene	202	11.316	11.312	0.004	99	2757839	15.0	16.6	
160 Benzidine	184	11.383	11.384	-0.001	99	3193120	30.0	35.1	
161 Pyrene	202	11.518	11.519	-0.001	96	2659722	15.0	15.5	
168 Butyl benzyl phthalate	149	11.975	11.976	-0.001	93	1209148	15.0	15.1	
173 Bis(2-ethylhexyl) phthalat	149	12.465	12.461	0.004	95	1596675	15.0	15.1	
175 3,3'-Dichlorobenzidine	252	12.499	12.495	0.004	75	1783742	30.0	31.2	
177 Benzo[a]anthracene	228	12.566	12.562	0.004	97	2631956	15.0	14.9	
178 Chrysene	228	12.605	12.601	0.004	96	2435297	15.0	15.1	
180 Di-n-octyl phthalate	149	13.129	13.125	0.004	100	2860004	15.0	15.6	
182 Benzo[b]fluoranthene	252	13.807	13.803	0.004	95	2402031	15.0	15.3	
183 Benzo[k]fluoranthene	252	13.846	13.837	0.009	97	2407128	15.0	15.2	
184 Benzo[a]pyrene	252	14.283	14.279	0.004	76	2294348	15.0	15.3	
188 Indeno[1,2,3-cd]pyrene	276	16.317	16.304	0.013	97	2498527	15.0	16.4	
189 Dibenz(a,h)anthracene	278	16.327	16.313	0.014	86	2027396	15.0	16.2	
190 Benzo[g,h,i]perylene	276	16.923	16.910	0.013	98	1856012	15.0	14.7	
S 191 Methyl Phenols,Total	100				0			31.9	
S 245 Total Cresols	100				0			31.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L7 W_00005 Amount Added: 1.00 Units: mL

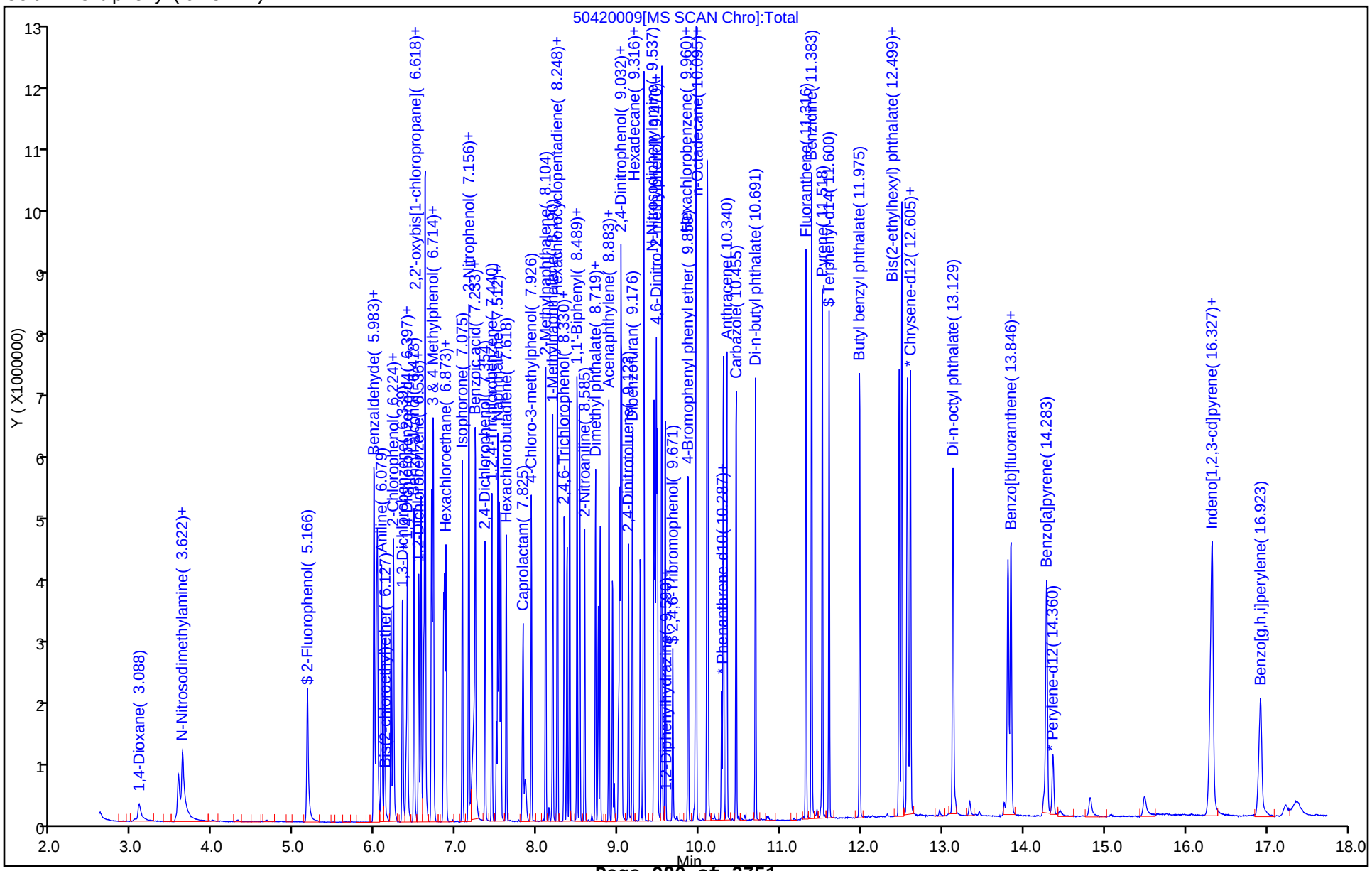
Report Date: 21-Apr-2015 07:01:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D

Injection Date:	20-Apr-2015 11:47:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std7 lst1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

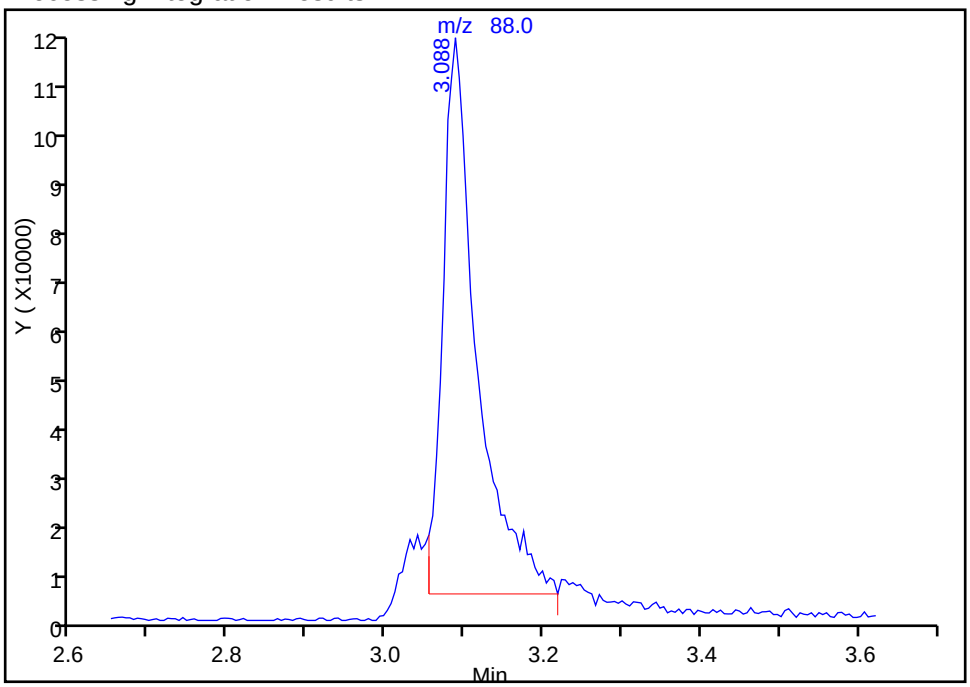
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D				
Injection Date:	20-Apr-2015 11:47:30	Instrument ID:	A4HP9		
Lims ID:	std7 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

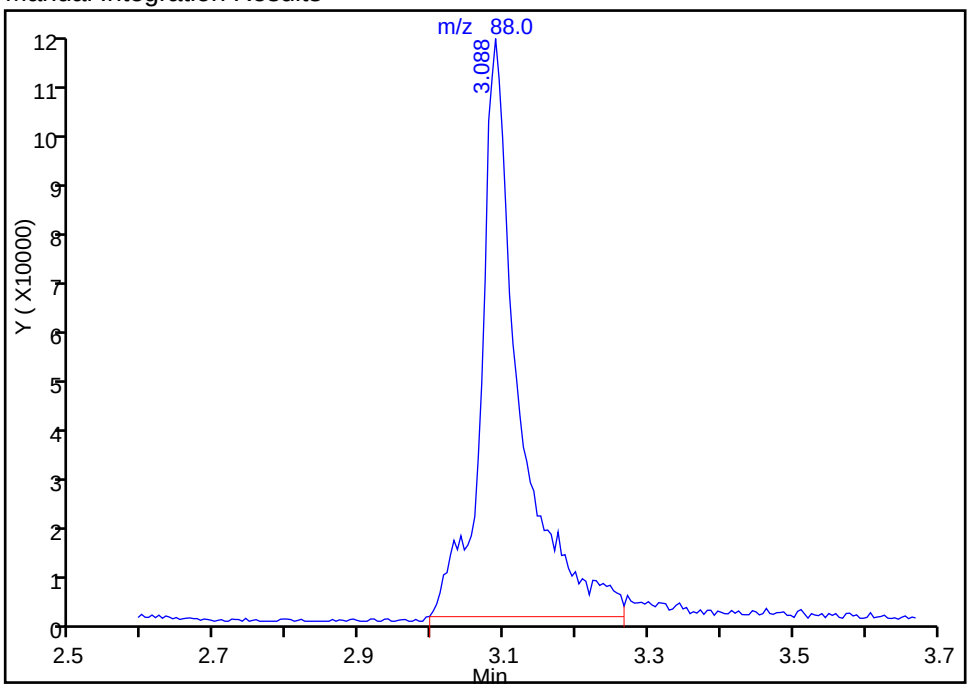
Processing Integration Results

RT: 3.09
Area: 339206
Amount: 12.986701
Amount Units: ng/ul



Manual Integration Results

RT: 3.09
Area: 432945
Amount: 16.085851
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:14:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

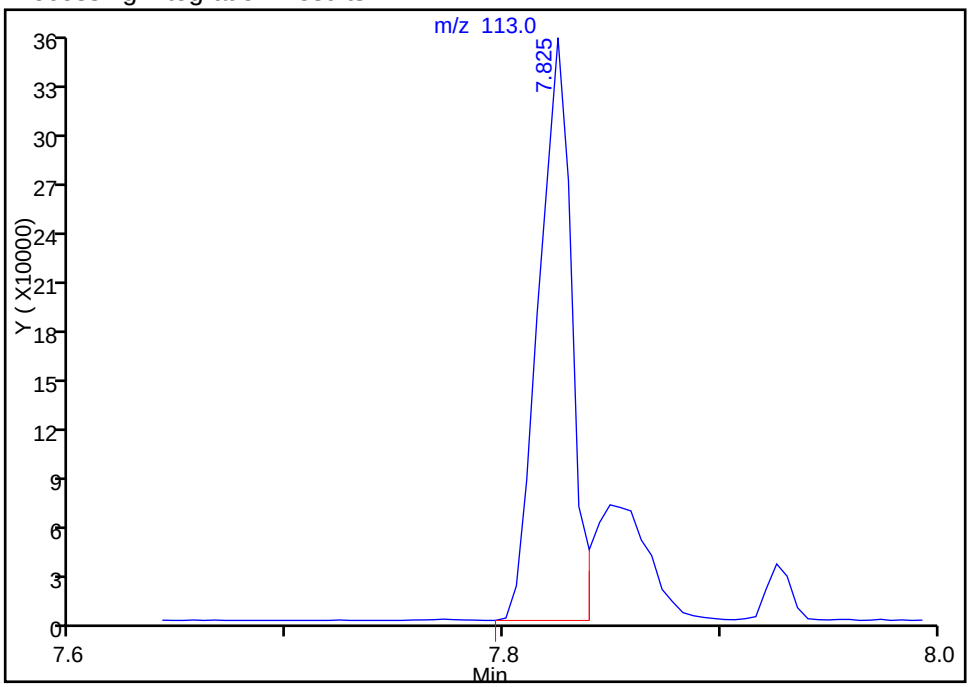
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420009.D				
Injection Date:	20-Apr-2015 11:47:30	Instrument ID:	A4HP9		
Lims ID:	std7 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

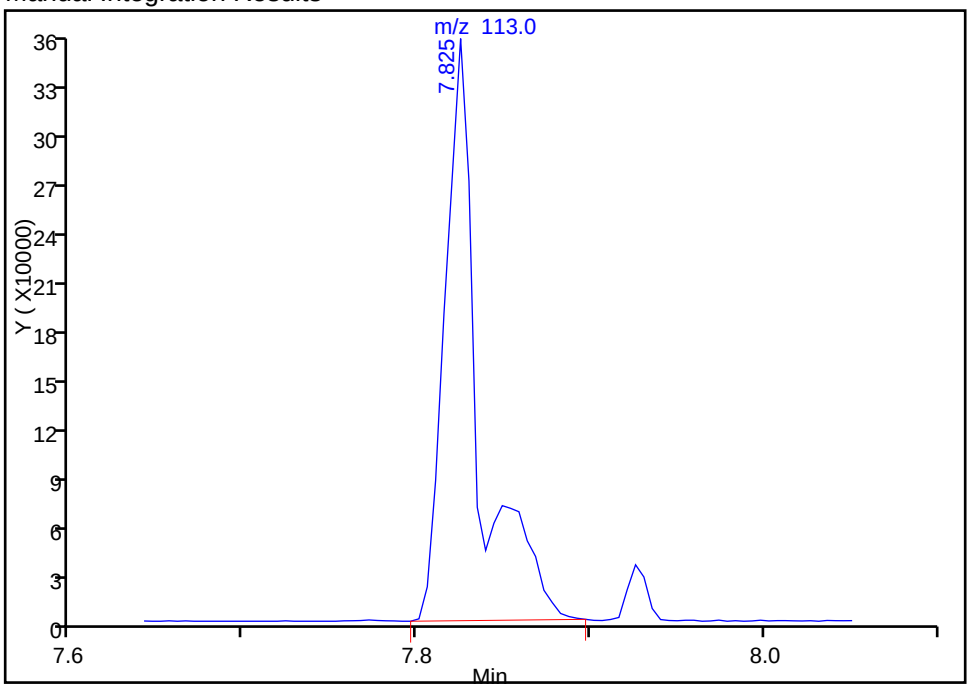
Processing Integration Results

RT: 7.82
Area: 381021
Amount: 24.791484
Amount Units: ng/ul



Manual Integration Results

RT: 7.82
Area: 492788
Amount: 31.203429
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 12:14:33
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D
Lims ID: std6 lst1
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 20-Apr-2015 12:41:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-010
Misc. Info.: STD6 LST1STD6 LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:09 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 13:08:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.382	0.000	93	121080	4.00	4.00	
* 2 Naphthalene-d8	136	7.498	7.498	0.000	97	389871	4.00	4.00	
* 3 Acenaphthene-d10	164	9.003	9.003	0.000	78	235173	4.00	4.00	
* 4 Phenanthrene-d10	188	10.272	10.272	0.000	91	355837	4.00	4.00	
* 5 Chrysene-d12	240	12.576	12.576	0.000	80	468196	4.00	4.00	
* 6 Perylene-d12	264	14.365	14.365	0.000	94	382118	4.00	4.00	
$ 7 2-Fluorophenol	112	5.165	5.165	0.000	93	482119	10.0	10.8	
$ 8 Phenol-d5	99	6.012	6.012	0.000	75	678589	10.0	10.2	
$ 9 Nitrobenzene-d5	82	6.853	6.853	0.000	82	691689	10.0	9.75	
$ 10 2-Fluorobiphenyl (Surr)	172	8.402	8.402	0.000	97	756135	10.0	9.56	
$ 11 2,4,6-Tribromophenol	330	9.671	9.671	0.000	79	84325	10.0	9.68	
$ 12 Terphenyl-d14	244	11.600	11.600	0.000	97	945831	10.0	9.93	
25 1,4-Dioxane	88	3.083	3.083	0.000	91	250452	10.0	9.75	M
26 N-Nitrosodimethylamine	74	3.564	3.564	0.000	87	412035	10.0	9.61	
27 Pyridine	79	3.617	3.617	0.000	89	690245	10.0	10.0	
41 Benzaldehyde	77	5.983	5.983	0.000	82	1070982	20.0	21.2	
43 Phenol	94	6.026	6.026	0.000	94	724815	10.0	10.0	
44 Aniline	93	6.079	6.079	0.000	94	909306	10.0	10.1	
69 Bis(2-chloroethyl)ether	93	6.118	6.118	0.000	92	630143	10.0	10.4	
46 2-Chlorophenol	128	6.194	6.194	0.000	88	428031	10.0	10.1	
243 n-Decane	57	6.223	6.223	0.000	97	577224	NC	NC	
47 1,3-Dichlorobenzene	146	6.339	6.339	0.000	80	449776	10.0	9.83	
48 1,4-Dichlorobenzene	146	6.396	6.396	0.000	77	465688	10.0	10.0	
49 Benzyl alcohol	108	6.478	6.478	0.000	84	340396	10.0	9.98	
50 1,2-Dichlorobenzene	146	6.536	6.536	0.000	76	431764	10.0	9.97	
51 2-Methylphenol	108	6.565	6.565	0.000	75	467486	10.0	9.94	
53 2,2'-oxybis[1-chloropropan	45	6.598	6.598	0.000	99	527630	10.0	10.6	
52 Indene	115	6.613	6.613	0.000	70	1678273	20.0	19.7	
21 3 & 4 Methylphenol	108	6.695	6.695	0.000	94	490810	10.0	9.85	
57 N-Nitrosodi-n-propylamine	70	6.709	6.709	0.000	98	520644	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.719	6.719	0.000	76	715238	10.0	9.92	
61 Hexachloroethane	117	6.844	6.844	0.000	93	202668	10.0	9.20	
62 Nitrobenzene	77	6.873	6.873	0.000	72	625710	10.0	9.55	
64 Isophorone	82	7.074	7.074	0.000	94	1076036	10.0	9.72	
66 2-Nitrophenol	139	7.151	7.151	0.000	71	173620	10.0	9.59	
65 2,4-Dimethylphenol	107	7.156	7.156	0.000	91	467864	10.0	9.74	
71 Benzoic acid	122	7.209	7.209	0.000	69	388824	20.0	17.9	
70 Bis(2-chloroethoxy)methane	93	7.238	7.238	0.000	91	555739	10.0	9.97	
73 2,4-Dichlorophenol	162	7.358	7.358	0.000	91	282843	10.0	9.78	
74 1,2,4-Trichlorobenzene	180	7.440	7.440	0.000	83	325786	10.0	10.2	
75 Naphthalene	128	7.512	7.512	0.000	98	989882	10.0	9.50	
76 4-Chloroaniline	127	7.531	7.531	0.000	44	449363	10.0	9.88	
77 2,6-Dichlorophenol	162	7.551	7.551	0.000	72	278271	10.0	9.78	
79 Hexachlorobutadiene	225	7.618	7.618	0.000	91	215473	10.0	10.0	
84 Caprolactam	113	7.815	7.815	0.000	81	232280	20.0	19.0	
86 4-Chloro-3-methylphenol	107	7.926	7.926	0.000	78	400395	10.0	9.84	
87 2-Methylnaphthalene	142	8.104	8.104	0.000	79	660361	10.0	9.65	
88 1-Methylnaphthalene	142	8.190	8.190	0.000	79	558738	10.0	9.63	
89 Hexachlorocyclopentadiene	237	8.248	8.248	0.000	81	222471	10.0	10.1	
91 1,2,4,5-Tetrachlorobenzene	216	8.253	8.253	0.000	94	343522	10.0	10.1	
92 2,4,6-Trichlorophenol	196	8.334	8.334	0.000	89	225159	10.0	9.96	
93 2,4,5-Trichlorophenol	196	8.368	8.368	0.000	90	230561	10.0	9.77	
98 1,1'-Biphenyl	154	8.493	8.493	0.000	97	783827	10.0	9.50	
100 2-Chloronaphthalene	162	8.522	8.522	0.000	97	634735	10.0	9.72	
102 2-Nitroaniline	65	8.584	8.584	0.000	69	327945	10.0	9.91	
105 Dimethyl phthalate	163	8.719	8.719	0.000	93	724944	10.0	9.88	
106 1,3-Dinitrobenzene	168	8.753	8.753	0.000	80	120299	10.0	10.2	
107 2,6-Dinitrotoluene	165	8.777	8.777	0.000	61	170395	10.0	9.91	
109 Acenaphthylene	152	8.883	8.883	0.000	88	988563	10.0	9.80	
110 3-Nitroaniline	138	8.931	8.931	0.000	82	165332	10.0	9.65	
111 2,4-Dinitrophenol	184	9.017	9.017	0.000	92	199890	20.0	17.6	
112 Acenaphthene	153	9.032	9.032	0.000	77	630690	10.0	9.61	
113 4-Nitrophenol	109	9.036	9.036	0.000	51	316160	20.0	19.4	
114 2,4-Dinitrotoluene	165	9.123	9.123	0.000	74	216205	10.0	9.63	
116 Dibenzofuran	168	9.176	9.176	0.000	84	874539	10.0	9.80	
119 2,3,4,6-Tetrachlorophenol	232	9.272	9.272	0.000	71	191582	10.0	10.1	
121 Diethyl phthalate	149	9.311	9.311	0.000	94	684970	10.0	9.25	
247 Hexadecane	57	9.315	9.315	0.000	93	542112	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.440	9.440	0.000	95	374725	10.0	9.85	
125 4-Nitroaniline	138	9.450	9.450	0.000	76	167796	10.0	10.1	
126 Fluorene	166	9.469	9.469	0.000	100	727918	10.0	9.71	
128 4,6-Dinitro-2-methylphenol	198	9.479	9.479	0.000	91	260952	20.0	20.5	
131 N-Nitrosodiphenylamine	169	9.537	9.537	0.000	98	1105278	20.0	23.1	
132 1,2-Diphenylhydrazine	77	9.580	9.580	0.000	98	1183693	10.0	11.9	
133 Azobenzene	77	9.580	9.580	0.000	95	1183790	10.0	11.9	
139 4-Bromophenyl phenyl ether	248	9.864	9.864	0.000	63	220036	10.0	12.1	
141 Hexachlorobenzene	284	9.955	9.955	0.000	82	202550	10.0	11.3	
142 Atrazine	200	9.960	9.960	0.000	84	428554	20.0	23.4	
244 n-Octadecane	57	10.094	10.094	0.000	85	509956	NC	NC	
143 Pentachlorophenol	266	10.104	10.104	0.000	82	270585	20.0	21.3	
148 Phenanthrene	178	10.296	10.296	0.000	98	958907	10.0	10.3	
149 Anthracene	178	10.340	10.340	0.000	87	961032	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.455	10.455	0.000	83	908795	10.0	10.9	
154 Di-n-butyl phthalate	149	10.696	10.696	0.000	100	1189386	10.0	11.4	
159 Fluoranthene	202	11.316	11.316	0.000	98	1206648	10.0	11.2	
160 Benzidine	184	11.383	11.383	0.000	99	1509185	20.0	22.2	
161 Pyrene	202	11.518	11.518	0.000	95	1287533	10.0	10.0	
168 Butyl benzyl phthalate	149	11.979	11.979	0.000	91	587187	10.0	9.85	
173 Bis(2-ethylhexyl) phthalat	149	12.465	12.465	0.000	93	772509	10.0	9.76	
175 3,3'-Dichlorobenzidine	252	12.499	12.499	0.000	54	849183	20.0	19.9	
177 Benzo[a]anthracene	228	12.566	12.566	0.000	88	1289434	10.0	9.80	
178 Chrysene	228	12.605	12.605	0.000	93	1192213	10.0	9.92	
180 Di-n-octyl phthalate	149	13.134	13.134	0.000	99	1343351	10.0	9.99	
182 Benzo[b]fluoranthene	252	13.807	13.807	0.000	86	1169783	10.0	10.2	
183 Benzo[k]fluoranthene	252	13.840	13.840	0.000	89	1171945	10.0	10.1	
184 Benzo[a]pyrene	252	14.283	14.283	0.000	73	1110022	10.0	10.1	
188 Indeno[1,2,3-cd]pyrene	276	16.317	16.317	0.000	86	1199340	10.0	10.8	
189 Dibenz(a,h)anthracene	278	16.322	16.322	0.000	72	992770	10.0	10.8	
190 Benzo[g,h,i]perylene	276	16.918	16.918	0.000	90	906776	10.0	9.82	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L6 W_00005 Amount Added: 1.00 Units: mL

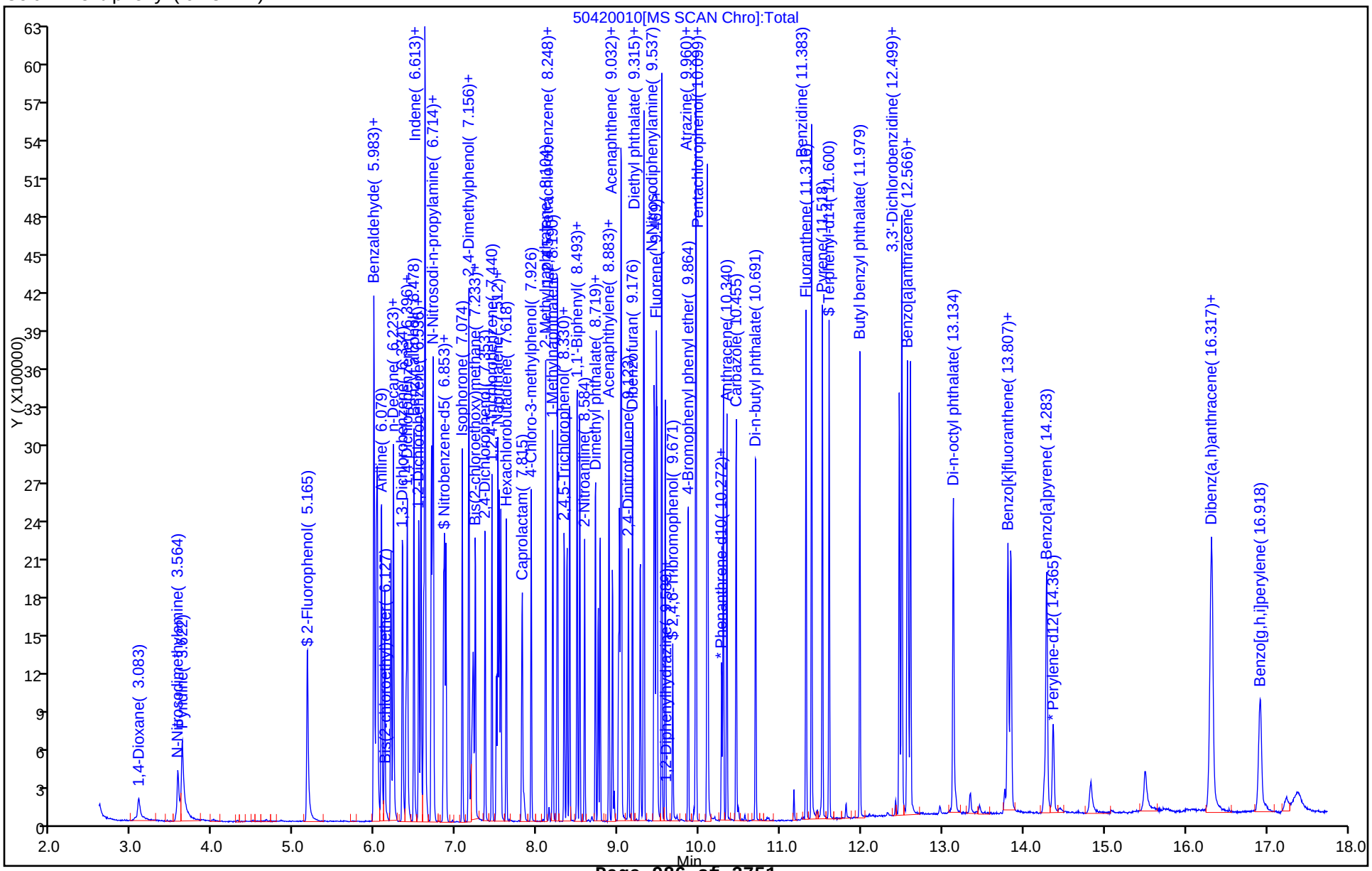
Report Date: 21-Apr-2015 07:01:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D

Injection Date:	20-Apr-2015 12:41:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	std6 lst1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

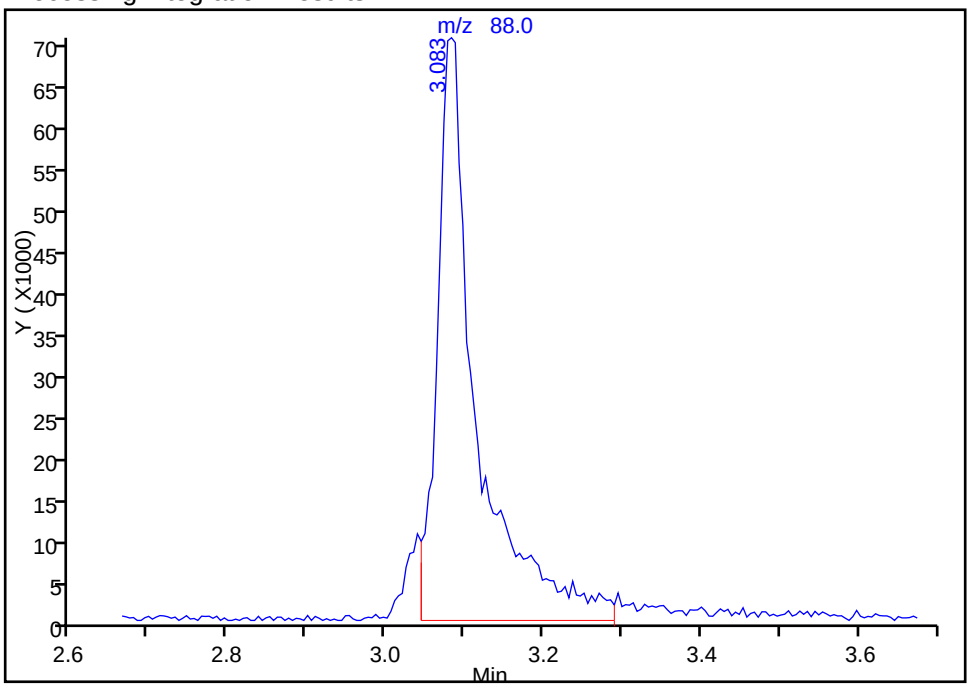
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D				
Injection Date:	20-Apr-2015 12:41:30	Instrument ID:	A4HP9		
Lims ID:	std6 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

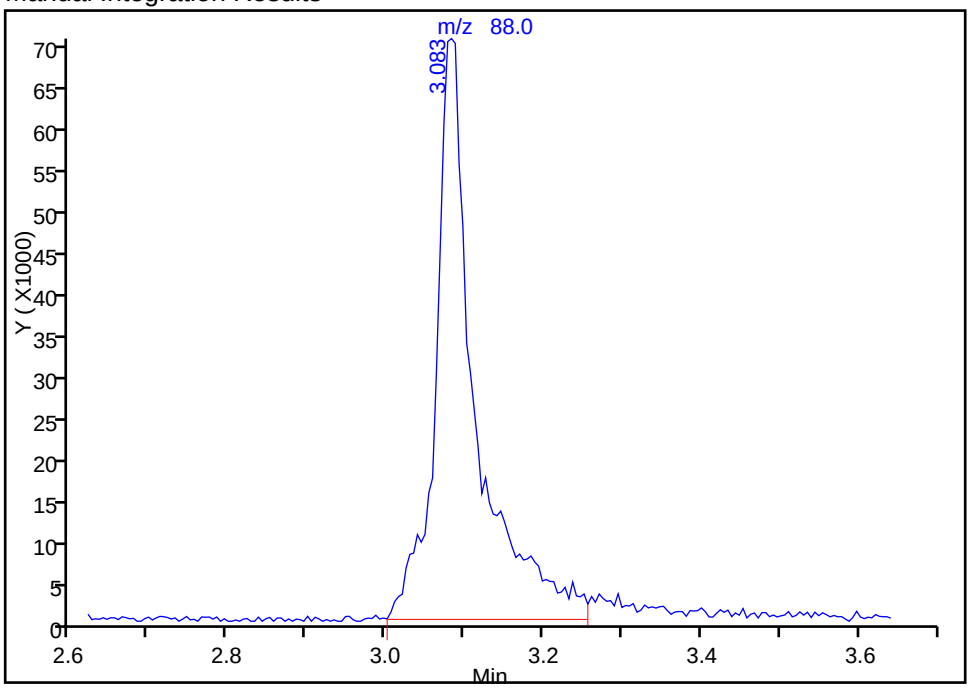
Processing Integration Results

RT: 3.08
Area: 246693
Amount: 9.617478
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 250452
Amount: 9.746171
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 13:08:10
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): STD6 240-177011/10 ICIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/20/2015 12:41

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	5.17	100.0
Phenol-d5 (Surr)	6.01	100.0
Phenol	6.03	100.0
Bis(2-chloroethyl)ether	6.12	100.0
2-Chlorophenol	6.19	100.0
1,3-Dichlorobenzene	6.34	100.0
1,4-Dichlorobenzene	6.40	100.0
Benzyl alcohol	6.48	100.0
1,2-Dichlorobenzene	6.54	100.0
2-Methylphenol	6.57	100.0
bis (2-chloroisopropyl) ether	6.60	100.0
3 & 4 Methylphenol	6.70	100.0
N-Nitrosodi-n-propylamine	6.71	100.0
Hexachloroethane	6.84	100.0
Nitrobenzene-d5 (Surr)	6.85	100.0
Nitrobenzene	6.87	100.0
Isophorone	7.07	100.0
2-Nitrophenol	7.15	100.0
2,4-Dimethylphenol	7.16	100.0
Benzoic acid	7.21	100.0
Bis(2-chloroethoxy)methane	7.24	100.0
2,4-Dichlorophenol	7.36	100.0
1,2,4-Trichlorobenzene	7.44	100.0
Naphthalene	7.51	100.0
4-Chloroaniline	7.53	100.0
Hexachlorobutadiene	7.62	100.0
4-Chloro-3-methylphenol	7.93	100.0
2-Methylnaphthalene	8.10	100.0
Hexachlorocyclopentadiene	8.25	100.0
2,4,6-Trichlorophenol	8.33	100.0
2,4,5-Trichlorophenol	8.37	100.0
2-Fluorobiphenyl (Surr)	8.40	100.0
2-Chloronaphthalene	8.52	100.0
2-Nitroaniline	8.58	100.0
Dimethyl phthalate	8.72	100.0
2,6-Dinitrotoluene	8.78	100.0
Acenaphthylene	8.88	100.0
3-Nitroaniline	8.93	100.0
2,4-Dinitrophenol	9.02	100.0
Acenaphthene	9.03	100.0
4-Nitrophenol	9.04	100.0
2,4-Dinitrotoluene	9.12	100.0
Dibenzofuran	9.18	100.0
Diethyl phthalate	9.31	100.0
4-Chlorophenyl phenyl ether	9.44	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): STD6 240-177011/10 ICIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/20/2015 12:41

ANALYTE	RT	RESOLUTION (%)
4-Nitroaniline	9.45	100.0
Fluorene	9.47	100.0
4,6-Dinitro-2-methylphenol	9.48	100.0
N-Nitrosodiphenylamine	9.54	100.0
2,4,6-Tribromophenol (Surr)	9.67	100.0
4-Bromophenyl phenyl ether	9.86	100.0
Hexachlorobenzene	9.96	100.0
Pentachlorophenol	10.10	100.0
Phenanthrene	10.30	100.0
Anthracene	10.34	100.0
Carbazole	10.46	100.0
Di-n-butyl phthalate	10.70	100.0
Fluoranthene	11.32	100.0
Pyrene	11.52	100.0
Terphenyl-d14 (Surr)	11.60	100.0
Butyl benzyl phthalate	11.98	100.0
Bis(2-ethylhexyl) phthalate	12.47	100.0
3,3'-Dichlorobenzidine	12.50	100.0
Benzo[a]anthracene	12.57	100.0
Chrysene	12.61	100.0
Di-n-octyl phthalate	13.13	100.0
Benzo[b]fluoranthene	13.81	29.20
Benzo[k]fluoranthene	13.84	100.0
Benzo[a]pyrene	14.28	100.0
Indeno[1,2,3-cd]pyrene	16.32	100.0
Dibenz(a,h)anthracene	16.32	100.0

Report Date: 21-Apr-2015 07:01:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Resolution Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420010.D				
Injection Date:	20-Apr-2015 12:41:30	Instrument ID:	A4HP9		
Lims ID:	std6 lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

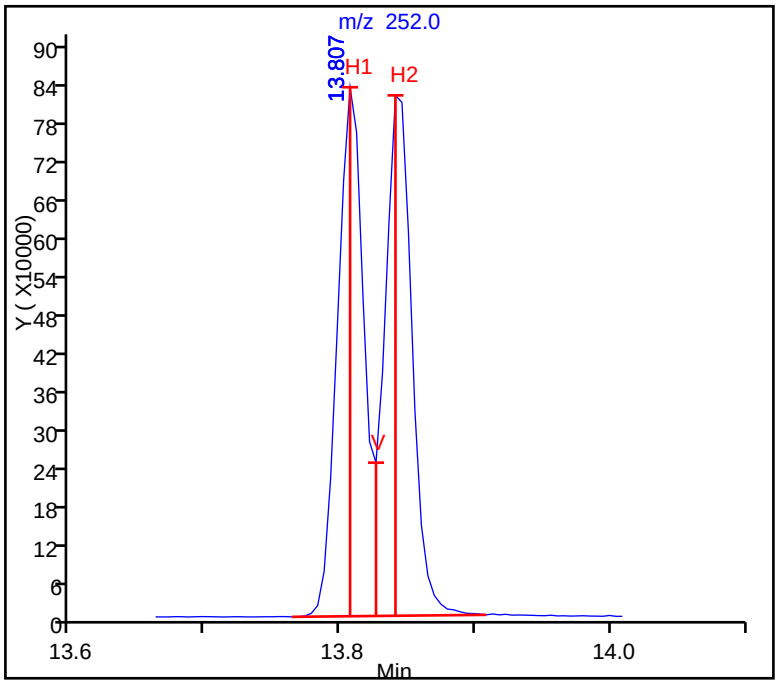
182 Benzo[b]fluoranthene - 183 Benzo[k]fluoranthene

SW-846 Method

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

V (Valley Height) = 240653
H1(182 Benzo[b]fluoranthen) = 830319
H2(183 Benzo[k]fluoranthen) = 816852

Version D: %R = 29.2 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): CCV 240-177355/2 Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/22/2015 07:35

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	5.13	100.0
Phenol-d5 (Surr)	5.99	100.0
Phenol	6.00	100.0
Bis(2-chloroethyl)ether	6.10	100.0
2-Chlorophenol	6.17	100.0
1,3-Dichlorobenzene	6.31	100.0
1,4-Dichlorobenzene	6.37	100.0
Benzyl alcohol	6.46	100.0
1,2-Dichlorobenzene	6.51	100.0
2-Methylphenol	6.54	100.0
bis (2-chloroisopropyl) ether	6.58	100.0
3 & 4 Methylphenol	6.67	100.0
N-Nitrosodi-n-propylamine	6.69	100.0
Hexachloroethane	6.82	100.0
Nitrobenzene-d5 (Surr)	6.84	100.0
Nitrobenzene	6.85	100.0
Isophorone	7.05	100.0
2-Nitrophenol	7.13	100.0
2,4-Dimethylphenol	7.14	100.0
Benzoic acid	7.20	100.0
Bis(2-chloroethoxy)methane	7.22	100.0
2,4-Dichlorophenol	7.34	100.0
1,2,4-Trichlorobenzene	7.42	100.0
Naphthalene	7.49	100.0
4-Chloroaniline	7.51	100.0
Hexachlorobutadiene	7.60	100.0
4-Chloro-3-methylphenol	7.91	100.0
2-Methylnaphthalene	8.08	100.0
Hexachlorocyclopentadiene	8.23	100.0
2,4,6-Trichlorophenol	8.31	100.0
2,4,5-Trichlorophenol	8.35	100.0
2-Fluorobiphenyl (Surr)	8.38	100.0
2-Chloronaphthalene	8.50	100.0
2-Nitroaniline	8.56	100.0
Dimethyl phthalate	8.70	100.0
2,6-Dinitrotoluene	8.75	100.0
Acenaphthylene	8.87	100.0
3-Nitroaniline	8.91	100.0
2,4-Dinitrophenol	8.99	100.0
Acenaphthene	9.01	100.0
4-Nitrophenol	9.02	100.0
2,4-Dinitrotoluene	9.11	100.0
Dibenzofuran	9.15	100.0
Diethyl phthalate	9.29	100.0
4-Chlorophenyl phenyl ether	9.42	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): CCV 240-177355/2 Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 04/22/2015 07:35

ANALYTE	RT	RESOLUTION (%)
4-Nitroaniline	9.43	100.0
Fluorene	9.45	100.0
4,6-Dinitro-2-methylphenol	9.46	100.0
N-Nitrosodiphenylamine	9.51	100.0
2,4,6-Tribromophenol (Surr)	9.65	100.0
4-Bromophenyl phenyl ether	9.84	100.0
Hexachlorobenzene	9.93	100.0
Pentachlorophenol	10.08	100.0
Phenanthrene	10.27	100.0
Anthracene	10.32	100.0
Carbazole	10.43	100.0
Di-n-butyl phthalate	10.67	100.0
Fluoranthene	11.29	100.0
Pyrene	11.50	100.0
Terphenyl-d14 (Surr)	11.58	100.0
Butyl benzyl phthalate	11.96	100.0
Bis(2-ethylhexyl) phthalate	12.44	100.0
3,3'-Dichlorobenzidine	12.47	100.0
Benzo[a]anthracene	12.54	100.0
Chrysene	12.58	100.0
Di-n-octyl phthalate	13.10	100.0
Benzo[b]fluoranthene	13.77	30.10
Benzo[k]fluoranthene	13.80	100.0
Benzo[a]pyrene	14.24	100.0
Indeno[1,2,3-cd]pyrene	16.25	100.0
Dibenz(a,h)anthracene	16.26	100.0

Report Date: 23-Apr-2015 09:37:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Resolution Report

TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422002.D				
Injection Date:	22-Apr-2015 07:35:30	Instrument ID:	A4HP9		
Lims ID:	ccv lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

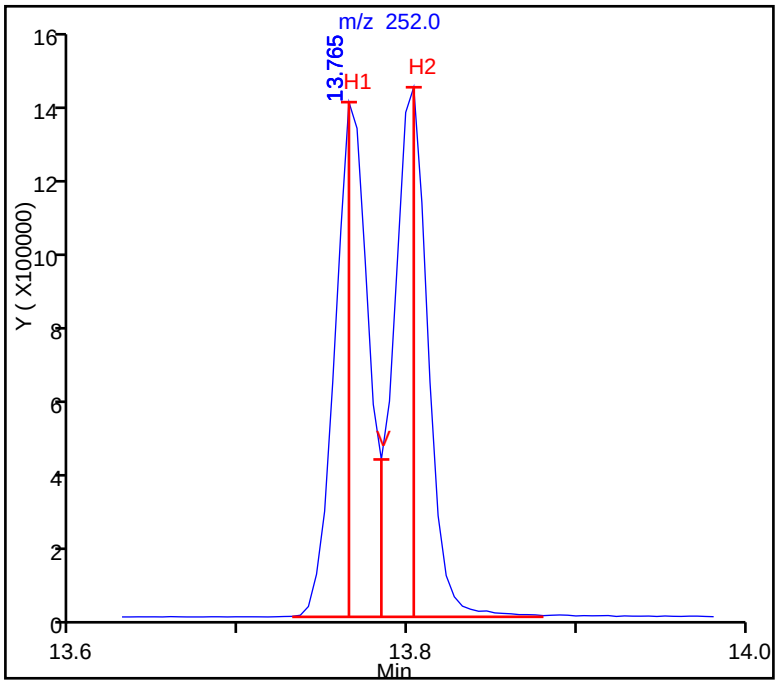
182 Benzo[b]fluoranthene - 183 Benzo[k]fluoranthene

SW-846 Method

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

V (Valley Height) = 405917
H1(182 Benzo[b]fluoranthen) = 1327405
H2(183 Benzo[k]fluoranthen) = 1365773

Version D: %R = 30.1 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177011/11 Calibration Date: 04/20/2015 13:07

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50420011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8489	0.8578	0.0500	10.1	10.0	1.0	20.0
N-Nitrosodimethylamine	Ave	1.417	1.321	0.0500	9.32	10.0	-6.8	20.0
Pyridine	Ave	2.280	2.364	0.0500	10.4	10.0	3.7	20.0
Benzaldehyde	Ave	1.670	1.532	0.0500	18.3	20.0	-8.3	20.0
Phenol	Ave	2.388	2.223	0.0500	9.31	10.0	-6.9	20.0
Aniline	Ave	2.967	2.690	0.0500	9.07	10.0	-9.3	20.0
Bis(2-chloroethyl)ether	Ave	2.001	1.884	0.0500	9.41	10.0	-5.9	20.0
2-Chlorophenol	Ave	1.398	1.300	0.0500	9.30	10.0	-7.0	20.0
1,3-Dichlorobenzene	Ave	1.512	1.435	0.0500	9.49	10.0	-5.1	20.0
1,4-Dichlorobenzene	Ave	1.533	1.464	0.0500	9.54	10.0	-4.6	20.0
Benzyl alcohol	Ave	1.126	1.069	0.0500	9.49	10.0	-5.1	20.0
1,2-Dichlorobenzene	Ave	1.431	1.359	0.0500	9.50	10.0	-5.0	20.0
2-Methylphenol	Ave	1.554	1.531	0.0500	9.85	10.0	-1.5	20.0
bis (2-chloroisopropyl) ether	Ave	1.639	1.502	0.0500	9.16	10.0	-8.4	20.0
Indene	Ave	2.818	2.583	0.0500	18.3	20.0	-8.3	20.0
3 & 4 Methylphenol	Ave	1.645	1.567	0.0500	9.53	10.0	-4.7	20.0
N-Nitrosodi-n-propylamine	Ave	1.720	1.631	0.0500	9.48	10.0	-5.2	20.0
Acetophenone	Ave	2.383	2.310	0.0500	9.69	10.0	-3.1	20.0
Hexachloroethane	Ave	0.7281	0.7105	0.0500	9.76	10.0	-2.4	20.0
Nitrobenzene	Ave	0.6722	0.5544	0.0500	8.25	10.0	-17.5	20.0
Isophorone	Ave	1.136	1.206	0.0500	10.6	10.0	6.2	20.0
2-Nitrophenol	Ave	0.1857	0.1868	0.0500	10.1	10.0	0.6	20.0
2,4-Dimethylphenol	Ave	0.4926	0.4963	0.0500	10.1	10.0	0.7	20.0
Benzoic acid	Lin1		0.2249	0.0500	20.0	20.0	0.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.5716	0.5857	0.0500	10.2	10.0	2.5	20.0
2,4-Dichlorophenol	Ave	0.2968	0.2871	0.0500	9.67	10.0	-3.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3272	0.3148	0.0500	9.62	10.0	-3.8	20.0
Naphthalene	Ave	1.069	1.031	0.0500	9.64	10.0	-3.6	20.0
4-Chloroaniline	Ave	0.4667	0.4340	0.0500	9.30	10.0	-7.0	20.0
2,6-Dichlorophenol	Ave	0.2918	0.2751	0.0500	9.43	10.0	-5.7	20.0
Hexachlorobutadiene	Ave	0.2201	0.1995	0.0500	9.06	10.0	-9.4	20.0
Caprolactam	Ave	0.1252	0.1048	0.0500	16.7	20.0	-16.3	20.0
4-Chloro-3-methylphenol	Ave	0.4176	0.3981	0.0500	9.53	10.0	-4.7	20.0
2-Methylnaphthalene	Ave	0.7019	0.6299	0.0500	8.97	10.0	-10.3	20.0
Hexachlorocyclopentadiene	Ave	0.3739	0.3346	0.0500	8.95	10.0	-10.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5765	0.4963	0.0500	8.61	10.0	-13.9	20.0
2,4,6-Trichlorophenol	Ave	0.3845	0.3590	0.0500	9.34	10.0	-6.6	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.3641	0.0500	9.07	10.0	-9.3	20.0
1,1'-Biphenyl	Ave	1.404	1.186	0.0500	8.45	10.0	-15.5	20.0
2-Chloronaphthalene	Ave	1.110	0.9459	0.0500	8.52	10.0	-14.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177011/11 Calibration Date: 04/20/2015 13:07

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50420011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	Ave	0.5629	0.4955	0.0500	8.80	10.0	-12.0	20.0
Dimethyl phthalate	Ave	1.248	1.102	0.0500	8.83	10.0	-11.7	20.0
1,3-Dinitrobenzene	Ave	0.2002	0.1844	0.0500	9.21	10.0	-7.9	20.0
2,6-Dinitrotoluene	Ave	0.2924	0.2678	0.0500	9.16	10.0	-8.4	20.0
Acenaphthylene	Ave	1.715	1.631	0.0500	9.51	10.0	-4.9	20.0
3-Nitroaniline	Ave	0.2915	0.2895	0.0500	9.93	10.0	-0.7	20.0
2,4-Dinitrophenol	Lin		0.1698	0.0500	17.6	20.0	-12.0	20.0
Acenaphthene	Ave	1.116	1.047	0.0500	9.39	10.0	-6.1	20.0
4-Nitrophenol	Ave	0.2767	0.2630	0.0500	19.0	20.0	-4.9	20.0
2,4-Dinitrotoluene	Ave	0.3819	0.3699	0.0500	9.69	10.0	-3.1	20.0
Dibenzofuran	Ave	1.519	1.437	0.0500	9.46	10.0	-5.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3232	0.3011	0.0500	9.32	10.0	-6.8	20.0
Diethyl phthalate	Ave	1.260	1.129	0.0500	8.96	10.0	-10.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.6472	0.6091	0.0500	9.41	10.0	-5.9	20.0
4-Nitroaniline	Ave	0.2823	0.2786	0.0500	9.87	10.0	-1.3	20.0
Fluorene	Ave	1.275	1.222	0.0500	9.59	10.0	-4.1	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1524	0.0500	21.3	20.0	6.3	20.0
N-Nitrosodiphenylamine	Ave	0.5377	0.5845	0.0500	21.7	20.0	8.7	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118	1.468	0.0500	13.1	10.0	31.3*	20.0
Azobenzene	Ave	1.117	1.468	0.0500	13.1	10.0	31.3*	20.0
4-Bromophenyl phenyl ether	Ave	0.2049	0.2350	0.0500	11.5	10.0	14.7	20.0
Hexachlorobenzene	Ave	0.2018	0.2170	0.0500	10.8	10.0	7.6	20.0
Atrazine	Ave	0.2061	0.2252	0.0500	21.9	20.0	9.3	20.0
Pentachlorophenol	Lin1		0.1516	0.0500	21.2	20.0	6.1	20.0
Phenanthrene	Ave	1.050	0.9778	0.0500	9.31	10.0	-6.9	20.0
Anthracene	Ave	1.050	1.019	0.0500	9.70	10.0	-3.0	20.0
Carbazole	Ave	0.9379	0.9371	0.0500	9.99	10.0	-0.0	20.0
Di-n-butyl phthalate	Ave	1.175	1.240	0.0500	10.6	10.0	5.5	20.0
Fluoranthene	Ave	1.212	1.226	0.0500	10.1	10.0	1.1	20.0
Benzidine	Ave	0.5801	0.5521	0.0500	19.0	20.0	-4.8	20.0
Pyrene	Ave	1.096	1.015	0.0500	9.26	10.0	-7.4	20.0
Butyl benzyl phthalate	Ave	0.5093	0.4981	0.0500	9.78	10.0	-2.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6761	0.6498	0.0500	9.61	10.0	-3.9	20.0
3,3'-Dichlorobenzidine	Ave	0.3645	0.3542	0.0500	19.4	20.0	-2.8	20.0
Benzo[a]anthracene	Ave	1.124	1.088	0.0500	9.68	10.0	-3.2	20.0
Chrysene	Ave	1.027	1.029	0.0500	10.0	10.0	0.2	20.0
Di-n-octyl phthalate	Ave	1.408	1.401	0.0500	9.95	10.0	-0.5	20.0
Benzo[b]fluoranthene	Ave	1.205	1.157	0.0500	9.60	10.0	-4.0	20.0
Benzo[k]fluoranthene	Ave	1.214	1.195	0.0500	9.84	10.0	-1.6	20.0
Benzo[a]pyrene	Ave	1.151	1.110	0.0500	9.64	10.0	-3.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177011/11 Calibration Date: 04/20/2015 13:07

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50420011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Indeno[1,2,3-cd]pyrene	Ave	1.165	1.083	0.0500	9.29	10.0	-7.1	20.0
Dibenz(a,h)anthracene	Ave	0.9613	0.9111	0.0500	9.48	10.0	-5.2	20.0
Benzo[g,h,i]perylene	Ave	0.9662	0.9182	0.0500	9.50	10.0	-5.0	20.0
2-Fluorophenol (Surr)	Ave	1.472	1.578	0.0500	10.7	10.0	7.1	20.0
Phenol-d5 (Surr)	Ave	2.203	2.264	0.0500	10.3	10.0	2.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.7281	0.6498	0.0500	8.92	10.0	-10.8	20.0
2-Fluorobiphenyl (Surr)	Ave	1.345	1.245	0.0500	9.25	10.0	-7.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1481	0.1424	0.0500	9.61	10.0	-3.9	20.0
Terphenyl-d14 (Surr)	Ave	0.8139	0.8051	0.0500	9.89	10.0	-1.1	20.0

Report Date: 21-Apr-2015 07:01:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420011.D
Lims ID: icv lst1
Client ID:
Sample Type: ICV
Inject. Date: 20-Apr-2015 13:07:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042708-011
Misc. Info.: ICV LST1ICV LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist:

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:01:11 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 13:39:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.378	6.378	0.000	84	139492	4.00	4.00	
* 2 Naphthalene-d8	136	7.494	7.494	0.000	97	581350	4.00	4.00	
* 3 Acenaphthene-d10	164	8.999	8.999	0.000	77	360913	4.00	4.00	
* 4 Phenanthrene-d10	188	10.273	10.273	0.000	94	530764	4.00	4.00	
* 5 Chrysene-d12	240	12.577	12.577	0.000	80	647642	4.00	4.00	
* 6 Perylene-d12	264	14.361	14.361	0.000	95	536696	4.00	4.00	
$ 7 2-Fluorophenol	112	5.162	5.162	0.000	94	550154	10.0	10.7	
$ 8 Phenol-d5	99	6.013	6.013	0.000	80	789504	10.0	10.3	
$ 9 Nitrobenzene-d5	82	6.854	6.854	0.000	83	944341	10.0	8.92	
$ 10 2-Fluorobiphenyl (Surr)	172	8.398	8.398	0.000	98	1122925	10.0	9.25	
$ 11 2,4,6-Tribromophenol	330	9.672	9.672	0.000	82	128492	10.0	9.61	
$ 12 Terphenyl-d14	244	11.601	11.601	0.000	97	1303468	10.0	9.89	
25 1,4-Dioxane	88	3.084	3.084	0.000	91	299141	10.0	10.1	M
26 N-Nitrosodimethylamine	74	3.565	3.565	0.000	84	460619	10.0	9.32	
27 Pyridine	79	3.618	3.618	0.000	89	824453	10.0	10.4	
41 Benzaldehyde	77	5.984	5.984	0.000	83	1068192	20.0	18.3	
43 Phenol	94	6.027	6.027	0.000	88	775381	10.0	9.31	
44 Aniline	93	6.075	6.075	0.000	94	938162	10.0	9.07	
69 Bis(2-chloroethyl)ether	93	6.119	6.119	0.000	87	657044	10.0	9.41	
46 2-Chlorophenol	128	6.195	6.195	0.000	89	453504	10.0	9.30	
243 n-Decane	57	6.224	6.224	0.000	96	589881	NC	NC	
47 1,3-Dichlorobenzene	146	6.335	6.335	0.000	79	500467	10.0	9.49	
48 1,4-Dichlorobenzene	146	6.397	6.397	0.000	74	510406	10.0	9.54	
49 Benzyl alcohol	108	6.479	6.479	0.000	84	372807	10.0	9.49	
50 1,2-Dichlorobenzene	146	6.537	6.537	0.000	78	473801	10.0	9.50	
51 2-Methylphenol	108	6.566	6.566	0.000	78	533885	10.0	9.85	
53 2,2'-oxybis[1-chloropropan	45	6.599	6.599	0.000	98	523646	10.0	9.16	
52 Indene	115	6.614	6.614	0.000	77	1801296	20.0	18.3	
21 3 & 4 Methylphenol	108	6.691	6.691	0.000	95	546596	10.0	9.53	
57 N-Nitrosodi-n-propylamine	70	6.710	6.710	0.000	97	568626	10.0	9.48	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.715	6.715	0.000	80	805426	10.0	9.69	
61 Hexachloroethane	117	6.845	6.845	0.000	87	247761	10.0	9.76	
62 Nitrobenzene	77	6.873	6.873	0.000	75	805701	10.0	8.25	
64 Isophorone	82	7.075	7.075	0.000	94	1753225	10.0	10.6	
66 2-Nitrophenol	139	7.152	7.152	0.000	80	271425	10.0	10.1	
65 2,4-Dimethylphenol	107	7.157	7.157	0.000	95	721280	10.0	10.1	
71 Benzoic acid	122	7.220	7.220	0.000	71	653650	20.0	20.0	
70 Bis(2-chloroethoxy)methane	93	7.234	7.234	0.000	91	851258	10.0	10.2	
73 2,4-Dichlorophenol	162	7.354	7.354	0.000	87	417269	10.0	9.67	
74 1,2,4-Trichlorobenzene	180	7.441	7.441	0.000	83	457522	10.0	9.62	
75 Naphthalene	128	7.513	7.513	0.000	97	1497955	10.0	9.64	
76 4-Chloroaniline	127	7.532	7.532	0.000	53	630688	10.0	9.30	
77 2,6-Dichlorophenol	162	7.552	7.552	0.000	60	399745	10.0	9.43	
79 Hexachlorobutadiene	225	7.619	7.619	0.000	88	289877	10.0	9.06	
84 Caprolactam	113	7.816	7.816	0.000	80	304531	20.0	16.7	
86 4-Chloro-3-methylphenol	107	7.927	7.927	0.000	78	578572	10.0	9.53	
87 2-Methylnaphthalene	142	8.100	8.100	0.000	82	915474	10.0	8.97	
88 1-Methylnaphthalene	142	8.191	8.191	0.000	78	837358	10.0	9.68	
89 Hexachlorocyclopentadiene	237	8.244	8.244	0.000	91	301878	10.0	8.95	
91 1,2,4,5-Tetrachlorobenzene	216	8.249	8.249	0.000	92	447812	10.0	8.61	
92 2,4,6-Trichlorophenol	196	8.331	8.331	0.000	86	323904	10.0	9.34	
93 2,4,5-Trichlorophenol	196	8.364	8.364	0.000	88	328488	10.0	9.07	
98 1,1'-Biphenyl	154	8.489	8.489	0.000	97	1070317	10.0	8.45	
100 2-Chloronaphthalene	162	8.523	8.523	0.000	98	853448	10.0	8.52	
102 2-Nitroaniline	65	8.581	8.581	0.000	70	447056	10.0	8.80	
105 Dimethyl phthalate	163	8.715	8.715	0.000	92	994200	10.0	8.83	
106 1,3-Dinitrobenzene	168	8.749	8.749	0.000	75	166417	10.0	9.21	
107 2,6-Dinitrotoluene	165	8.773	8.773	0.000	57	241656	10.0	9.16	
109 Acenaphthylene	152	8.884	8.884	0.000	86	1471296	10.0	9.51	
110 3-Nitroaniline	138	8.927	8.927	0.000	79	261167	10.0	9.93	
111 2,4-Dinitrophenol	184	9.013	9.013	0.000	98	306408	20.0	17.6	
112 Acenaphthene	153	9.028	9.028	0.000	82	945081	10.0	9.39	
113 4-Nitrophenol	109	9.037	9.037	0.000	41	474644	20.0	19.0	
114 2,4-Dinitrotoluene	165	9.124	9.124	0.000	79	333746	10.0	9.69	
116 Dibenzofuran	168	9.172	9.172	0.000	81	1296550	10.0	9.46	
119 2,3,4,6-Tetrachlorophenol	232	9.268	9.268	0.000	76	271709	10.0	9.32	
121 Diethyl phthalate	149	9.312	9.312	0.000	94	1018332	10.0	8.96	
247 Hexadecane	57	9.316	9.316	0.000	97	862851	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.441	9.441	0.000	92	549537	10.0	9.41	
125 4-Nitroaniline	138	9.451	9.451	0.000	75	251369	10.0	9.87	
126 Fluorene	166	9.465	9.465	0.000	100	1102836	10.0	9.59	
128 4,6-Dinitro-2-methylphenol	198	9.480	9.480	0.000	94	404332	20.0	21.3	
131 N-Nitrosodiphenylamine	169	9.533	9.533	0.000	98	1551022	20.0	21.7	
132 1,2-Diphenylhydrazine	77	9.576	9.576	0.000	99	1948483	10.0	13.1	
133 Azobenzene	77	9.576	9.576	0.000	94	1947497	10.0	13.1	
139 4-Bromophenyl phenyl ether	248	9.860	9.860	0.000	71	311764	10.0	11.5	
141 Hexachlorobenzene	284	9.951	9.951	0.000	81	287962	10.0	10.8	
142 Atrazine	200	9.961	9.961	0.000	86	597715	20.0	21.9	
244 n-Octadecane	57	10.095	10.095	0.000	89	773539	NC	NC	
143 Pentachlorophenol	266	10.105	10.105	0.000	82	402198	20.0	21.2	
148 Phenanthrene	178	10.293	10.293	0.000	98	1297423	10.0	9.31	
149 Anthracene	178	10.341	10.341	0.000	87	1351675	10.0	9.70	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.451	10.451	0.000	80	1243382	10.0	10.0	
154 Di-n-butyl phthalate	149	10.692	10.692	0.000	100	1645197	10.0	10.6	
159 Fluoranthene	202	11.317	11.317	0.000	98	1627336	10.0	10.1	
160 Benzidine	184	11.384	11.384	0.000	98	1787699	20.0	19.0	
161 Pyrene	202	11.514	11.514	0.000	94	1643228	10.0	9.26	
168 Butyl benzyl phthalate	149	11.976	11.976	0.000	89	806428	10.0	9.78	
173 Bis(2-ethylhexyl) phthalat	149	12.461	12.461	0.000	93	1052013	10.0	9.61	
175 3,3'-Dichlorobenzidine	252	12.495	12.495	0.000	54	1146798	20.0	19.4	
177 Benzo[a]anthracene	228	12.562	12.562	0.000	98	1761217	10.0	9.68	
178 Chrysene	228	12.601	12.601	0.000	95	1666379	10.0	10.0	
180 Di-n-octyl phthalate	149	13.130	13.130	0.000	99	1880382	10.0	9.95	
182 Benzo[b]fluoranthene	252	13.803	13.803	0.000	85	1551825	10.0	9.60	
183 Benzo[k]fluoranthene	252	13.841	13.841	0.000	85	1603295	10.0	9.84	
184 Benzo[a]pyrene	252	14.279	14.279	0.000	73	1489139	10.0	9.64	
188 Indeno[1,2,3-cd]pyrene	276	16.313	16.313	0.000	75	1452884	10.0	9.29	
189 Dibenz(a,h)anthracene	278	16.318	16.318	0.000	75	1222477	10.0	9.48	
190 Benzo[g,h,i]perylene	276	16.914	16.914	0.000	93	1231942	10.0	9.50	
S 191 Methyl Phenols,Total	100				0			19.4	
S 245 Total Cresols	100				0			19.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 SS W_00004 Amount Added: 1.00 Units: mL

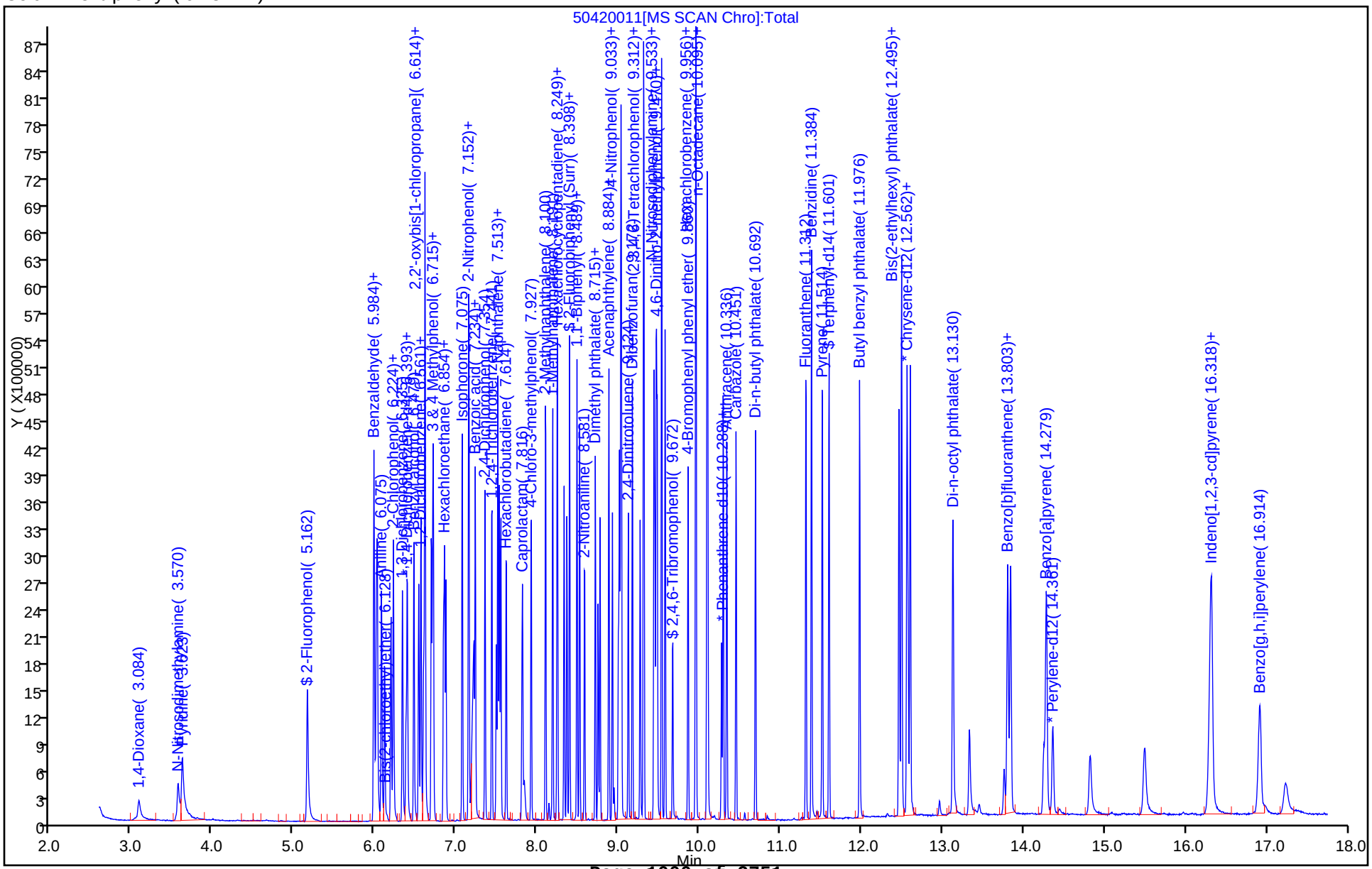
Report Date: 21-Apr-2015 07:01:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420011.D

Injection Date:	20-Apr-2015 13:07:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	icv lst1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

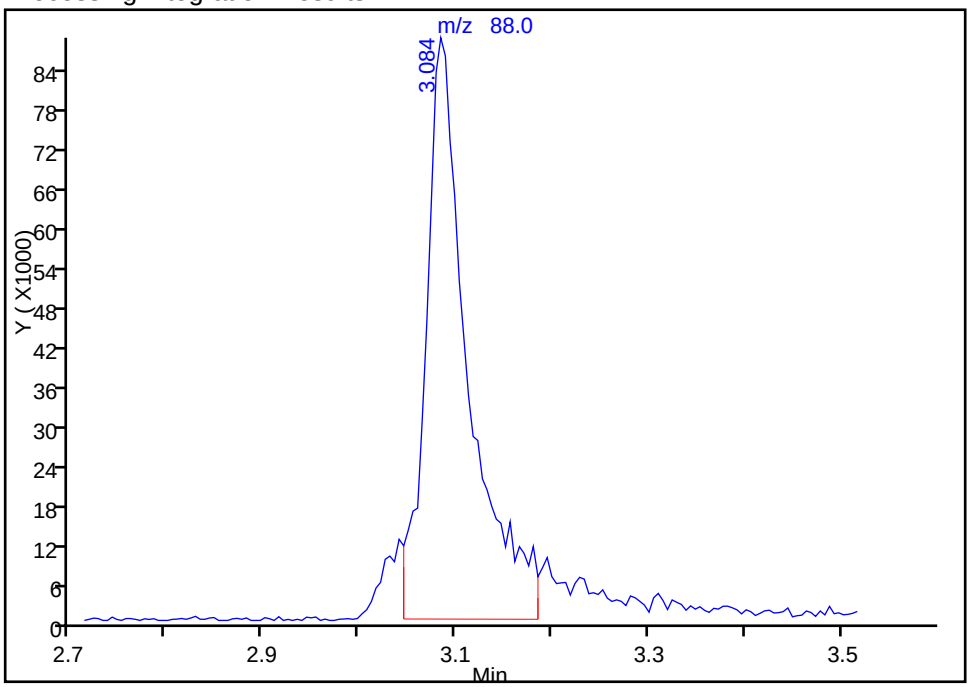
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420011.D				
Injection Date:	20-Apr-2015 13:07:30	Instrument ID:	A4HP9		
Lims ID:	icv lst1				
Client ID:					
Operator ID:	001574	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

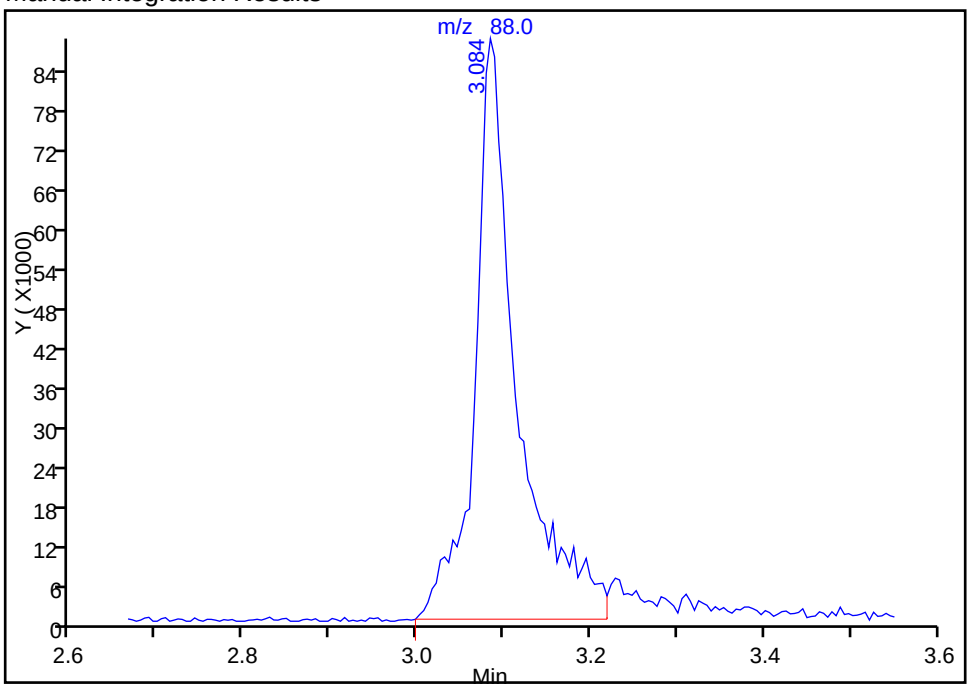
Processing Integration Results

RT: 3.08
Area: 272311
Amount: 9.198094
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 299141
Amount: 10.104355
Amount Units: ng/ul



Reviewer: ulmanm, 20-Apr-2015 13:39:47
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177355/2 Calibration Date: 04/22/2015 07:35

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8489	0.8741	0.0500	10.3	10.0	3.0	20.0
N-Nitrosodimethylamine	Ave	1.417	1.418	0.0500	10.0	10.0	0.0	20.0
Pyridine	Ave	2.280	2.472	0.0500	10.8	10.0	8.4	20.0
Benzaldehyde	Ave	1.670	1.748	0.0500	20.9	20.0	4.7	20.0
Phenol	Ave	2.388	2.523	0.0500	10.6	10.0	5.6	20.0
Aniline	Ave	2.967	3.150	0.0500	10.6	10.0	6.2	20.0
Bis(2-chloroethyl)ether	Ave	2.001	2.081	0.0500	10.4	10.0	4.0	20.0
2-Chlorophenol	Ave	1.398	1.442	0.0500	10.3	10.0	3.2	20.0
1,3-Dichlorobenzene	Ave	1.512	1.521	0.0500	10.1	10.0	0.6	20.0
1,4-Dichlorobenzene	Ave	1.533	1.596	0.0500	10.4	10.0	4.1	20.0
Benzyl alcohol	Ave	1.126	1.104	0.0500	9.80	10.0	-2.0	20.0
1,2-Dichlorobenzene	Ave	1.431	1.482	0.0500	10.4	10.0	3.6	20.0
2-Methylphenol	Ave	1.554	1.647	0.0500	10.6	10.0	6.0	20.0
bis (2-chloroisopropyl) ether	Ave	1.639	1.870	0.0500	11.4	10.0	14.1	20.0
Indene	Ave	2.818	2.926	0.0500	20.8	20.0	3.8	20.0
3 & 4 Methylphenol	Ave	1.645	1.692	0.0500	10.3	10.0	2.9	20.0
N-Nitrosodi-n-propylamine	Ave	1.720	1.761	0.0500	10.2	10.0	2.4	20.0
Acetophenone	Ave	2.383	2.492	0.0500	10.5	10.0	4.6	20.0
Hexachloroethane	Ave	0.7281	0.7447	0.0500	10.2	10.0	2.3	20.0
Nitrobenzene	Ave	0.6722	0.6586	0.0500	9.80	10.0	-2.0	20.0
Isophorone	Ave	1.136	1.129	0.0500	9.94	10.0	-0.6	20.0
2-Nitrophenol	Ave	0.1857	0.1831	0.0500	9.86	10.0	-1.4	20.0
2,4-Dimethylphenol	Ave	0.4926	0.4916	0.0500	9.98	10.0	-0.2	20.0
Benzoic acid	Lin1		0.2052	0.0500	18.4	20.0	-7.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.5716	0.5907	0.0500	10.3	10.0	3.3	20.0
2,4-Dichlorophenol	Ave	0.2968	0.2915	0.0500	9.82	10.0	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.3272	0.3189	0.0500	9.75	10.0	-2.5	20.0
Naphthalene	Ave	1.069	1.064	0.0500	9.95	10.0	-0.5	20.0
4-Chloroaniline	Ave	0.4667	0.4946	0.0500	10.6	10.0	6.0	20.0
2,6-Dichlorophenol	Ave	0.2918	0.2862	0.0500	9.81	10.0	-1.9	20.0
Hexachlorobutadiene	Ave	0.2201	0.2056	0.0500	9.34	10.0	-6.6	20.0
Caprolactam	Ave	0.1252	0.1292	0.0500	20.6	20.0	3.2	20.0
4-Chloro-3-methylphenol	Ave	0.4176	0.4239	0.0500	10.2	10.0	1.5	20.0
2-Methylnaphthalene	Ave	0.7019	0.6704	0.0500	9.55	10.0	-4.5	20.0
Hexachlorocyclopentadiene	Ave	0.3739	0.3597	0.0500	9.62	10.0	-3.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5765	0.5567	0.0500	9.66	10.0	-3.4	20.0
2,4,6-Trichlorophenol	Ave	0.3845	0.3745	0.0500	9.74	10.0	-2.6	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.3939	0.0500	9.81	10.0	-1.9	20.0
1,1'-Biphenyl	Ave	1.404	1.357	0.0500	9.67	10.0	-3.3	20.0
2-Chloronaphthalene	Ave	1.110	1.076	0.0500	9.69	10.0	-3.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177355/2 Calibration Date: 04/22/2015 07:35

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	Ave	0.5629	0.5806	0.0500	10.3	10.0	3.2	20.0
Dimethyl phthalate	Ave	1.248	1.242	0.0500	9.95	10.0	-0.5	20.0
1,3-Dinitrobenzene	Ave	0.2002	0.1983	0.0500	9.90	10.0	-1.0	20.0
2,6-Dinitrotoluene	Ave	0.2924	0.2943	0.0500	10.1	10.0	0.7	20.0
Acenaphthylene	Ave	1.715	1.721	0.0500	10.0	10.0	0.3	20.0
3-Nitroaniline	Ave	0.2915	0.3016	0.0500	10.3	10.0	3.5	20.0
2,4-Dinitrophenol	Lin		0.1696	0.0500	17.6	20.0	-12.0	20.0
Acenaphthene	Ave	1.116	1.096	0.0500	9.82	10.0	-1.8	20.0
4-Nitrophenol	Ave	0.2767	0.2626	0.0500	19.0	20.0	-5.1	20.0
2,4-Dinitrotoluene	Ave	0.3819	0.3827	0.0500	10.0	10.0	0.2	20.0
Dibenzofuran	Ave	1.519	1.514	0.0500	9.97	10.0	-0.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3232	0.3257	0.0500	10.1	10.0	0.8	20.0
Diethyl phthalate	Ave	1.260	1.154	0.0500	9.16	10.0	-8.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.6472	0.6328	0.0500	9.78	10.0	-2.2	20.0
4-Nitroaniline	Ave	0.2823	0.2837	0.0500	10.0	10.0	0.5	20.0
Fluorene	Ave	1.275	1.249	0.0500	9.80	10.0	-2.0	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1405	0.0500	19.7	20.0	-1.7	20.0
N-Nitrosodiphenylamine	Ave	0.5377	0.5759	0.0500	21.4	20.0	7.1	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118	1.285	0.0500	11.5	10.0	15.0	20.0
Azobenzene	Ave	1.117	1.286	0.0500	11.5	10.0	15.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2049	0.2127	0.0500	10.4	10.0	3.8	20.0
Hexachlorobenzene	Ave	0.2018	0.1950	0.0500	9.66	10.0	-3.4	20.0
Atrazine	Ave	0.2061	0.2200	0.0500	21.4	20.0	6.8	20.0
Pentachlorophenol	Lin1		0.1335	0.0500	18.7	20.0	-6.3	20.0
Phenanthrene	Ave	1.050	1.020	0.0500	9.71	10.0	-2.9	20.0
Anthracene	Ave	1.050	1.049	0.0500	9.99	10.0	-0.1	20.0
Carbazole	Ave	0.9379	0.9914	0.0500	10.6	10.0	5.7	20.0
Di-n-butyl phthalate	Ave	1.175	1.274	0.0500	10.8	10.0	8.5	20.0
Fluoranthene	Ave	1.212	1.276	0.0500	10.5	10.0	5.2	20.0
Benzidine	Ave	0.5801	0.6631	0.0500	22.9	20.0	14.3	20.0
Pyrene	Ave	1.096	1.088	0.0500	9.93	10.0	-0.7	20.0
Butyl benzyl phthalate	Ave	0.5093	0.5006	0.0500	9.83	10.0	-1.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6761	0.6867	0.0500	10.2	10.0	1.6	20.0
3,3'-Dichlorobenzidine	Ave	0.3645	0.3696	0.0500	20.3	20.0	1.4	20.0
Benzo[a]anthracene	Ave	1.124	1.091	0.0500	9.70	10.0	-3.0	20.0
Chrysene	Ave	1.027	1.014	0.0500	9.87	10.0	-1.3	20.0
Di-n-octyl phthalate	Ave	1.408	1.394	0.0500	9.90	10.0	-1.0	20.0
Benzo[b]fluoranthene	Ave	1.205	1.151	0.0500	9.55	10.0	-4.5	20.0
Benzo[k]fluoranthene	Ave	1.214	1.203	0.0500	9.91	10.0	-0.9	20.0
Benzo[a]pyrene	Ave	1.151	1.124	0.0500	9.77	10.0	-2.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177355/2 Calibration Date: 04/22/2015 07:35

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Indeno[1,2,3-cd]pyrene	Ave	1.165	1.122	0.0500	9.63	10.0	-3.7	20.0
Dibenz(a,h)anthracene	Ave	0.9613	0.9329	0.0500	9.70	10.0	-3.0	20.0
Benzo[g,h,i]perylene	Ave	0.9662	0.9325	0.0500	9.65	10.0	-3.5	20.0
2-Fluorophenol (Surr)	Ave	1.472	1.637	0.0500	11.1	10.0	11.2	20.0
Phenol-d5 (Surr)	Ave	2.203	2.288	0.0500	10.4	10.0	3.9	20.0
Nitrobenzene-d5 (Surr)	Ave	0.7281	0.7039	0.0500	9.67	10.0	-3.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.345	1.291	0.0500	9.60	10.0	-4.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1481	0.1442	0.0500	9.73	10.0	-2.7	20.0
Terphenyl-d14 (Surr)	Ave	0.8139	0.7767	0.0500	9.54	10.0	-4.6	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422002.D
Lims ID: ccv lst1
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Apr-2015 07:35:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-002
Misc. Info.: CCV LST1CCV LST1
Operator ID: 001574 Instrument ID: A4HP9
Sublist: chrom-8270 _9*sub34

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 08:08:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.359	6.359	0.000	93	166687	4.00	4.00	
* 2 Naphthalene-d8	136	7.475	7.475	0.000	97	637603	4.00	4.00	
* 3 Acenaphthene-d10	164	8.980	8.980	0.000	78	378863	4.00	4.00	
* 4 Phenanthrene-d10	188	10.254	10.254	0.000	96	618691	4.00	4.00	
* 5 Chrysene-d12	240	12.548	12.548	0.000	85	757208	4.00	4.00	
* 6 Perylene-d12	264	14.318	14.318	0.000	97	649458	4.00	4.00	
$ 7 2-Fluorophenol	112	5.133	5.133	0.000	93	682003	10.0	11.1	
$ 8 Phenol-d5	99	5.994	5.994	0.000	82	953439	10.0	10.4	
$ 9 Nitrobenzene-d5	82	6.835	6.835	0.000	83	1122065	10.0	9.67	
$ 10 2-Fluorobiphenyl (Surr)	172	8.379	8.379	0.000	98	1222538	10.0	9.60	
$ 11 2,4,6-Tribromophenol	330	9.653	9.653	0.000	89	136538	10.0	9.73	
$ 12 Terphenyl-d14	244	11.577	11.577	0.000	97	1470327	10.0	9.54	
25 1,4-Dioxane	88	2.993	2.993	0.000	89	364257	10.0	10.3	
26 N-Nitrosodimethylamine	74	3.493	3.493	0.000	90	590782	10.0	10.0	
27 Pyridine	79	3.556	3.556	0.000	90	1030007	10.0	10.8	
41 Benzaldehyde	77	5.960	5.960	0.000	83	1456954	20.0	20.9	
43 Phenol	94	6.003	6.003	0.000	95	1051274	10.0	10.6	
44 Aniline	93	6.051	6.051	0.000	94	1312826	10.0	10.6	
69 Bis(2-chloroethyl)ether	93	6.095	6.095	0.000	89	867131	10.0	10.4	
46 2-Chlorophenol	128	6.172	6.172	0.000	88	600872	10.0	10.3	
243 n-Decane	57	6.201	6.201	0.000	98	823228	NC	NC	
47 1,3-Dichlorobenzene	146	6.311	6.311	0.000	81	633650	10.0	10.1	
48 1,4-Dichlorobenzene	146	6.374	6.374	0.000	79	665006	10.0	10.4	
49 Benzyl alcohol	108	6.455	6.455	0.000	82	459915	10.0	9.80	
50 1,2-Dichlorobenzene	146	6.513	6.513	0.000	86	617610	10.0	10.4	
51 2-Methylphenol	108	6.542	6.542	0.000	78	686348	10.0	10.6	
53 2,2'-oxybis[1-chloropropan	45	6.576	6.576	0.000	97	779367	10.0	11.4	
52 Indene	115	6.590	6.590	0.000	68	2438541	20.0	20.8	
21 3 & 4 Methylphenol	108	6.672	6.672	0.000	96	705261	10.0	10.3	
57 N-Nitrosodi-n-propylamine	70	6.686	6.686	0.000	95	733936	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
58 Acetophenone	105	6.696	6.696	0.000	77	1038508	10.0	10.5	
61 Hexachloroethane	117	6.821	6.821	0.000	92	310313	10.0	10.2	
62 Nitrobenzene	77	6.850	6.850	0.000	72	1049853	10.0	9.80	
64 Isophorone	82	7.052	7.052	0.000	95	1800315	10.0	9.94	
66 2-Nitrophenol	139	7.129	7.129	0.000	73	291801	10.0	9.86	
65 2,4-Dimethylphenol	107	7.138	7.138	0.000	96	783530	10.0	9.98	
71 Benzoic acid	122	7.196	7.196	0.000	81	654086	20.0	18.4	
70 Bis(2-chloroethoxy)methane	93	7.215	7.215	0.000	87	941638	10.0	10.3	
73 2,4-Dichlorophenol	162	7.335	7.335	0.000	90	464595	10.0	9.82	
74 1,2,4-Trichlorobenzene	180	7.417	7.417	0.000	81	508396	10.0	9.75	
75 Naphthalene	128	7.494	7.494	0.000	97	1695946	10.0	9.95	
76 4-Chloroaniline	127	7.513	7.513	0.000	37	788385	10.0	10.6	
77 2,6-Dichlorophenol	162	7.533	7.533	0.000	57	456150	10.0	9.81	
79 Hexachlorobutadiene	225	7.595	7.595	0.000	90	327722	10.0	9.34	
84 Caprolactam	113	7.797	7.797	0.000	82	411763	20.0	20.6	M
86 4-Chloro-3-methylphenol	107	7.908	7.908	0.000	82	675664	10.0	10.2	
87 2-Methylnaphthalene	142	8.081	8.081	0.000	83	1068572	10.0	9.55	
88 1-Methylnaphthalene	142	8.172	8.172	0.000	79	948502	10.0	10.0	
89 Hexachlorocyclopentadiene	237	8.225	8.225	0.000	88	340680	10.0	9.62	
91 1,2,4,5-Tetrachlorobenzene	216	8.230	8.230	0.000	92	527291	10.0	9.66	
92 2,4,6-Trichlorophenol	196	8.312	8.312	0.000	90	354672	10.0	9.74	
93 2,4,5-Trichlorophenol	196	8.345	8.345	0.000	88	373109	10.0	9.81	
98 1,1'-Biphenyl	154	8.470	8.470	0.000	97	1285607	10.0	9.67	
100 2-Chloronaphthalene	162	8.504	8.504	0.000	98	1019240	10.0	9.69	
102 2-Nitroaniline	65	8.562	8.562	0.000	69	549942	10.0	10.3	
105 Dimethyl phthalate	163	8.696	8.696	0.000	91	1176523	10.0	9.95	
106 1,3-Dinitrobenzene	168	8.730	8.730	0.000	75	187792	10.0	9.90	
107 2,6-Dinitrotoluene	165	8.754	8.754	0.000	57	278734	10.0	10.1	
109 Acenaphthylene	152	8.865	8.865	0.000	86	1629797	10.0	10.0	
110 3-Nitroaniline	138	8.908	8.908	0.000	80	285651	10.0	10.3	
111 2,4-Dinitrophenol	184	8.994	8.994	0.000	96	321334	20.0	17.6	
112 Acenaphthene	153	9.009	9.009	0.000	82	1037849	10.0	9.82	
113 4-Nitrophenol	109	9.018	9.018	0.000	46	497398	20.0	19.0	
114 2,4-Dinitrotoluene	165	9.105	9.105	0.000	79	362517	10.0	10.0	
116 Dibenzofuran	168	9.153	9.153	0.000	84	1433783	10.0	9.97	
119 2,3,4,6-Tetrachlorophenol	232	9.249	9.249	0.000	73	308488	10.0	10.1	
121 Diethyl phthalate	149	9.293	9.293	0.000	94	1093416	10.0	9.16	
247 Hexadecane	57	9.297	9.297	0.000	97	942451	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.422	9.422	0.000	94	599348	10.0	9.78	
125 4-Nitroaniline	138	9.432	9.432	0.000	77	268677	10.0	10.0	
126 Fluorene	166	9.446	9.446	0.000	99	1183025	10.0	9.80	
128 4,6-Dinitro-2-methylphenol	198	9.461	9.461	0.000	92	434568	20.0	19.7	
131 N-Nitrosodiphenylamine	169	9.514	9.514	0.000	99	1781485	20.0	21.4	
132 1,2-Diphenylhydrazine	77	9.557	9.557	0.000	99	1988211	10.0	11.5	
133 Azobenzene	77	9.557	9.557	0.000	95	1989382	10.0	11.5	
139 4-Bromophenyl phenyl ether	248	9.841	9.841	0.000	68	329027	10.0	10.4	
141 Hexachlorobenzene	284	9.932	9.932	0.000	84	301570	10.0	9.66	
142 Atrazine	200	9.942	9.942	0.000	87	680573	20.0	21.4	
244 n-Octadecane	57	10.076	10.076	0.000	89	914643	NC	NC	
143 Pentachlorophenol	266	10.081	10.081	0.000	77	412970	20.0	18.7	
148 Phenanthrene	178	10.274	10.274	0.000	98	1576902	10.0	9.71	
149 Anthracene	178	10.317	10.317	0.000	88	1621772	10.0	9.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
151 Carbazole	167	10.432	10.432	0.000	84	1533400	10.0	10.6	
154 Di-n-butyl phthalate	149	10.673	10.673	0.000	100	1970573	10.0	10.8	
159 Fluoranthene	202	11.293	11.293	0.000	99	1973689	10.0	10.5	
160 Benzidine	184	11.365	11.365	0.000	87	2510442	20.0	22.9	
161 Pyrene	202	11.495	11.495	0.000	94	2060493	10.0	9.93	
168 Butyl benzyl phthalate	149	11.957	11.957	0.000	90	947579	10.0	9.83	
173 Bis(2-ethylhexyl) phthalat	149	12.438	12.438	0.000	94	1299926	10.0	10.2	
175 3,3'-Dichlorobenzidine	252	12.471	12.471	0.000	58	1399370	20.0	20.3	
177 Benzo[a]anthracene	228	12.539	12.539	0.000	88	2064621	10.0	9.70	
178 Chrysene	228	12.577	12.577	0.000	94	1919965	10.0	9.87	
180 Di-n-octyl phthalate	149	13.096	13.096	0.000	99	2264048	10.0	9.90	
182 Benzo[b]fluoranthene	252	13.765	13.765	0.000	86	1869280	10.0	9.55	
183 Benzo[k]fluoranthene	252	13.803	13.803	0.000	85	1953452	10.0	9.91	
184 Benzo[a]pyrene	252	14.241	14.241	0.000	75	1824655	10.0	9.77	
188 Indeno[1,2,3-cd]pyrene	276	16.246	16.246	0.000	86	1822024	10.0	9.63	
189 Dibenz(a,h)anthracene	278	16.261	16.261	0.000	70	1514726	10.0	9.70	
190 Benzo[g,h,i]perylene	276	16.847	16.847	0.000	95	1514089	10.0	9.65	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L6 W_00005 Amount Added: 1.00 Units: mL

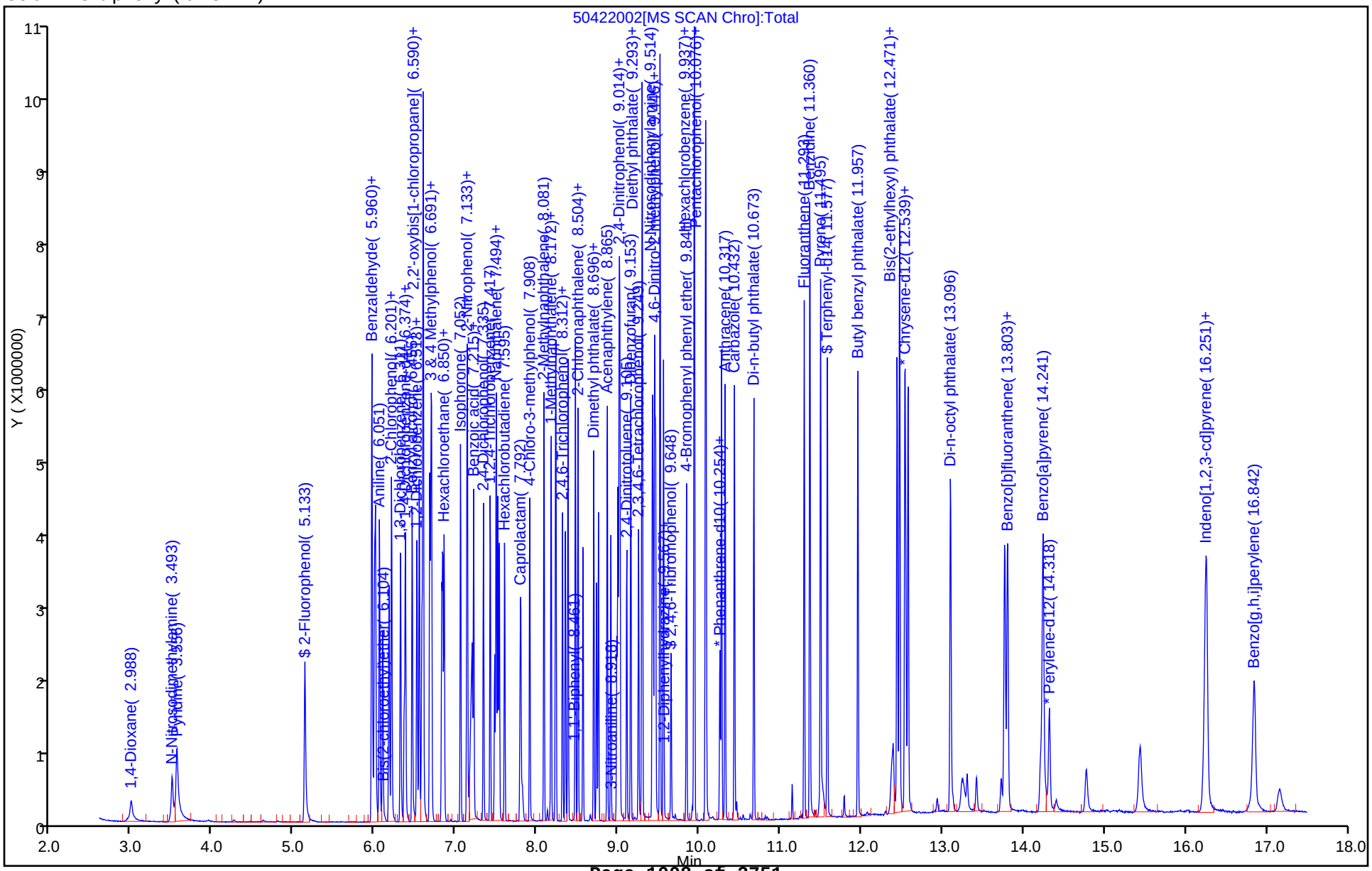
Report Date: 23-Apr-2015 09:37:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422002.D

Injection Date:	22-Apr-2015 07:35:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	ccv lst1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

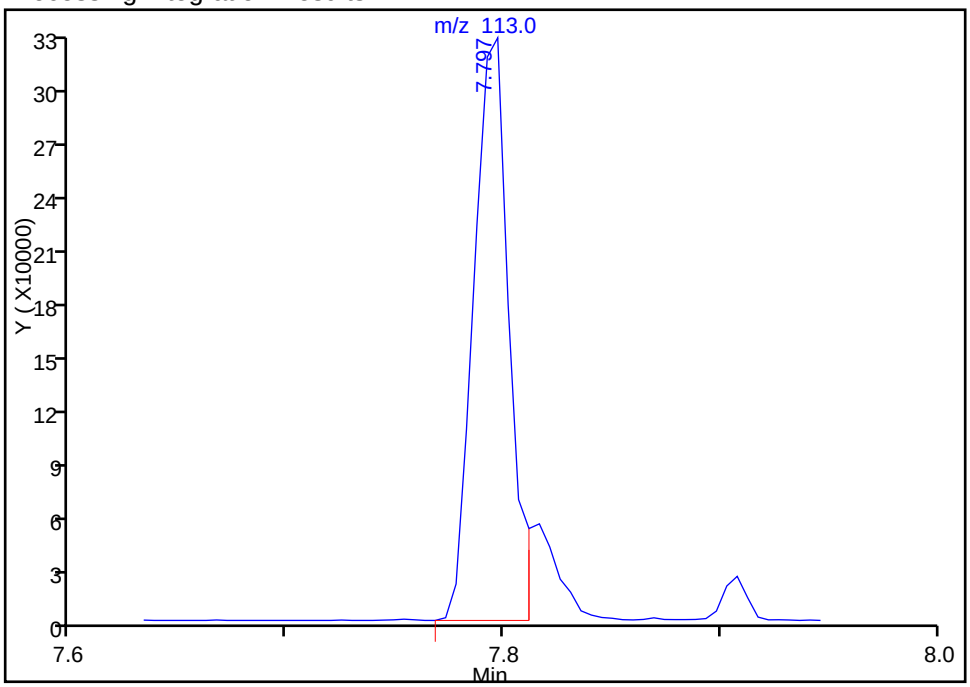
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422002.D
Injection Date: 22-Apr-2015 07:35:30 Instrument ID: A4HP9
Lims ID: ccv lst1
Client ID:
Operator ID: 001574 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

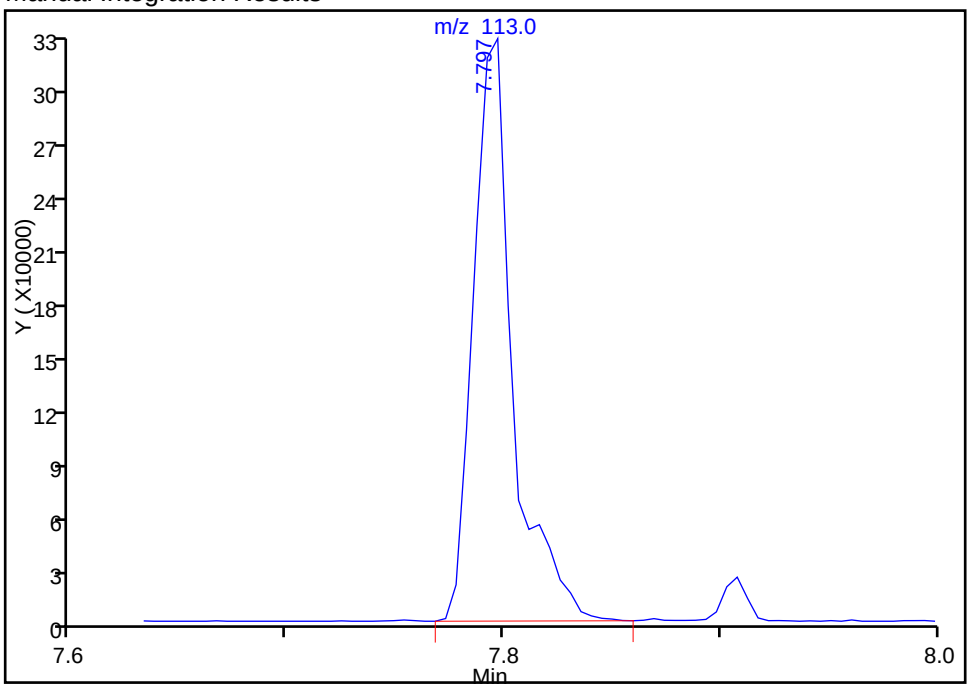
Processing Integration Results

RT: 7.80
Area: 370437
Amount: 18.565139
Amount Units: ng/ul



Manual Integration Results

RT: 7.80
Area: 411763
Amount: 20.636268
Amount Units: ng/ul



Reviewer: ulmanm, 22-Apr-2015 08:08:08
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/19 Calibration Date: 04/22/2015 15:09

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422019.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.069			0.106	0.100		
2-Methylnaphthalene	Ave	0.7019			0.114	0.100		
Acenaphthylene	Ave	1.715			0.106	0.100		
Acenaphthene	Ave	1.116			0.112	0.100		
Fluorene	Ave	1.275			0.104	0.100		
Hexachlorobenzene	Ave	0.2018			0.129	0.100		
Phenanthrene	Ave	1.050			0.117	0.100		
Anthracene	Ave	1.050			0.0960	0.100		
Fluoranthene	Ave	1.212			0.106	0.100		
Pyrene	Ave	1.096			0.0894	0.100		
Benzo[a]anthracene	Ave	1.124			0.110	0.100		
Chrysene	Ave	1.027			0.126	0.100		
Benzo[b]fluoranthene	Ave	1.205			0.0965	0.100		
Benzo[k]fluoranthene	Ave	1.214			0.0976	0.100		
Benzo[a]pyrene	Ave	1.151			0.113	0.100		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.0924	0.100		
Dibenz(a,h)anthracene	Ave	0.9613			0.0985	0.100		
Benzo[g,h,i]perylene	Ave	0.9662			0.0956	0.100		
1,1'-Biphenyl	Ave	1.404			0.000500	0.100		
2-Chloronaphthalene	Ave	1.110			0.000500	0.100		
Dibenzofuran	Ave	1.519			0.000100	0.100		
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.110	0.100	110*	35-100
2-Fluorobiphenyl (Surr)	Ave	1.345			0.125	0.100	125*	45-105
Terphenyl-d14 (Surr)	Ave	0.8139			0.114	0.100	114	30-125
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.000000	0.100	0*	35-125
2-Fluorophenol (Surr)	Ave	1.472			0.000000	0.100	0*	35-105
Phenol-d5 (Surr)	Ave	2.203			0.000000	0.100	0*	40-100

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422019.D
Lims ID: lodv l1
Client ID:
Sample Type: LODV
Inject. Date: 22-Apr-2015 15:09:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-019
Misc. Info.: LODV L1LODV L1
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 15:59:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.358	6.359	-0.001	94	132477	4.00	4.00	
* 2 Naphthalene-d8	136	7.474	7.475	-0.001	99	498903	4.00	4.00	
* 3 Acenaphthene-d10	164	8.979	8.980	-0.001	92	270237	4.00	4.00	
* 4 Phenanthrene-d10	188	10.249	10.254	-0.005	95	522151	4.00	4.00	
* 5 Chrysene-d12	240	12.547	12.548	-0.001	97	619002	4.00	4.00	
* 6 Perylene-d12	264	14.317	14.318	-0.001	98	528111	4.00	4.00	
$ 7 2-Fluorophenol	112		5.133				ND	ND	
$ 8 Phenol-d5	99		5.994				ND	ND	
$ 9 Nitrobenzene-d5	82	6.835	6.835	0.000	86	9981	0.1000	0.1099	
$ 10 2-Fluorobiphenyl (Surr)	172	8.378	8.379	-0.001	95	11354	0.1000	0.1250	
$ 11 2,4,6-Tribromophenol	330		9.653				ND	ND	
$ 12 Terphenyl-d14	244	11.576	11.577	-0.001	97	14315	0.1000	0.1137	
25 1,4-Dioxane	88		2.993					ND	
26 N-Nitrosodimethylamine	74		3.493					ND	
27 Pyridine	79		3.556					ND	
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77		5.960					ND	
43 Phenol	94		6.003					ND	
44 Aniline	93		6.051					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.095					ND	
45 Pentachloroethane	167		6.122					ND	
46 2-Chlorophenol	128		6.172					ND	
243 n-Decane	57		6.201					ND	
47 1,3-Dichlorobenzene	146		6.311					ND	
48 1,4-Dichlorobenzene	146		6.374					ND	
49 Benzyl alcohol	108		6.455					ND	
232 1-Methyl-2-pyrrilidinone	99		6.462					ND	
50 1,2-Dichlorobenzene	146		6.513					ND	
51 2-Methylphenol	108		6.542					ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
53 2,2'-oxybis[1-chloropropan	45		6.576					ND	
52 Indene	115		6.590					ND	
21 3 & 4 Methylphenol	108		6.672					ND	
56 N-Nitrosopyrrolidine	100		6.675					ND	
57 N-Nitrosodi-n-propylamine	70		6.686					ND	
58 Acetophenone	105		6.696					ND	
59 N-Nitrosomorpholine	56		6.704					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
60 2-Toluidine	106		6.742					ND	
61 Hexachloroethane	117		6.821					ND	
62 Nitrobenzene	77		6.850					ND	
63 N-Nitrosopiperidine	114		6.987					ND	
64 Isophorone	82		7.052					ND	
66 2-Nitrophenol	139		7.129					ND	
65 2,4-Dimethylphenol	107		7.138					ND	
67 1,3,5-Trichlorobenzene	180		7.160					ND	
71 Benzoic acid	122		7.196					ND	
68 o,o',o''-Triethylphosphoro	198		7.199					ND	
70 Bis(2-chloroethoxy)methane	93		7.215					ND	
72 alpha,alpha-Dimethyl phene	58		7.314					ND	
73 2,4-Dichlorophenol	162		7.335					ND	
74 1,2,4-Trichlorobenzene	180		7.417					ND	
75 Naphthalene	128	7.493	7.494	-0.001	93	14093	0.1000	0.1057	
76 4-Chloroaniline	127		7.513					ND	
77 2,6-Dichlorophenol	162		7.533					ND	
78 Hexachloropropene	213		7.589					ND	
79 Hexachlorobutadiene	225		7.595					ND	
80 1,2,3-Trichlorobenzene	180		7.626					ND	
81 Benzothiazole	135		7.718					ND	
82 Quinoline	129		7.781					ND	
83 N-Nitrosodi-n-butylamine	84		7.795					ND	
84 Caprolactam	113		7.797					ND	
85 p-Phenylene diamine	108		7.815					ND	
86 4-Chloro-3-methylphenol	107		7.908					ND	
94 Safrole, Total	162		7.992					ND	
87 2-Methylnaphthalene	142	8.080	8.081	-0.001	96	10011	0.1000	0.1144	
88 1-Methylnaphthalene	142	8.167	8.172	-0.005	87	7395	0.1000	0.0997	
89 Hexachlorocyclopentadiene	237		8.225					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.230					ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.232					ND	
225 Isosafrole Peak 1	162		8.243					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.312					ND	
93 2,4,5-Trichlorophenol	196		8.345					ND	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154		8.470				ND	ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162		8.504				ND	ND	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65		8.562					ND	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163		8.696					ND	
106 1,3-Dinitrobenzene	168		8.730					ND	
107 2,6-Dinitrotoluene	165		8.754					ND	
109 Acenaphthylene	152	8.859	8.865	-0.006	98	12329	0.1000	0.1064	
110 3-Nitroaniline	138		8.908					ND	
111 2,4-Dinitrophenol	184		8.994					ND	
112 Acenaphthene	153	9.008	9.009	-0.001	93	8432	0.1000	0.1119	
113 4-Nitrophenol	109		9.018					ND	
114 2,4-Dinitrotoluene	165		9.105					ND	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168		9.153				ND	ND	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.249					ND	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149		9.293					ND	
247 Hexadecane	57		9.297					ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204		9.422					ND	
125 4-Nitroaniline	138		9.432					ND	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166	9.446	9.446	0.000	91	8982	0.1000	0.1043	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198		9.461					ND	
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169		9.514					ND	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77		9.557					ND	
133 Azobenzene	77		9.557					ND	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248		9.841					ND	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284	9.931	9.932	-0.001	81	3398	0.1000	0.1290	
142 Atrazine	200		9.942					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076					ND	
143 Pentachlorophenol	266		10.081					ND	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178	10.268	10.274	-0.006	95	16031	0.1000	0.1169	
149 Anthracene	178	10.316	10.317	-0.001	95	13151	0.1000	0.0960	
151 Carbazole	167		10.432					ND	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149		10.673					ND	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202	11.292	11.293	-0.001	96	16736	0.1000	0.1057	
160 Benzidine	184		11.365					ND	
161 Pyrene	202	11.494	11.495	-0.001	93	15153	0.1000	0.0894	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149		11.957					ND	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149		12.438					ND	
175 3,3'-Dichlorobenzidine	252		12.471					ND	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228	12.533	12.539	-0.006	96	19115	0.1000	0.1099	
178 Chrysene	228	12.571	12.577	-0.006	96	20007	0.1000	0.1259	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149		13.096					ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252	13.759	13.765	-0.006	92	15363	0.1000	0.0965	
183 Benzo[k]fluoranthene	252	13.793	13.803	-0.010	94	15650	0.1000	0.0976	
184 Benzo[a]pyrene	252	14.235	14.241	-0.006	72	17235	0.1000	0.1134	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276	16.241	16.246	-0.005	52	14220	0.1000	0.0924	M
189 Dibenz(a,h)anthracene	278	16.245	16.261	-0.016	82	12498	0.1000	0.0985	M
190 Benzo[g,h,i]perylene	276	16.837	16.847	-0.010	66	12199	0.1000	0.0956	M
268 Endrin	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.524					ND	
165 4,4'-DDD	235		11.812					ND	
170 4,4'-DDT	235		12.072					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	4.925	4.999	-0.075	0	144			0
T 194 Decane TIC	142	6.200	5.799	0.400	64	7567			0
T 193 Hexamethylphosphoramide TI	135	7.484	6.495	0.984	1	2742			0
T 234 2-Isopropylphenol TIC	121	7.272	7.244	0.022	0	254			0

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.344	7.358	-0.020	0	155		0	
T 236 3-isopropylphenol TIC	121	7.344	7.358	-0.020	0	155		0	
T 237 3-(1,1-Dimethylethyl Pheno	135	7.700	7.714	-0.020	1	655		0	
T 231 2,3,7,8-TCDD	322	8.296	8.236	0.056	1	147		0	
T 195 Hydroquinone TIC	110	8.989	8.993	-0.011	1	751		0	
T 192 Octadecane (TIC)	254	17.159	9.600	7.559	90	29042		0	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326	11.942	11.994	-0.058	0	271		0	
T 280 2,3,7,8-TCDD TIC	198	12.543	12.494	0.043	0	4870		0	
T 241 Tricresyl phosphate TIC	368	12.557	12.494	0.057	0	98		0	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	13.995	13.994	-0.005	0	259		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L1 W_00005 Amount Added: 1.00 Units: mL

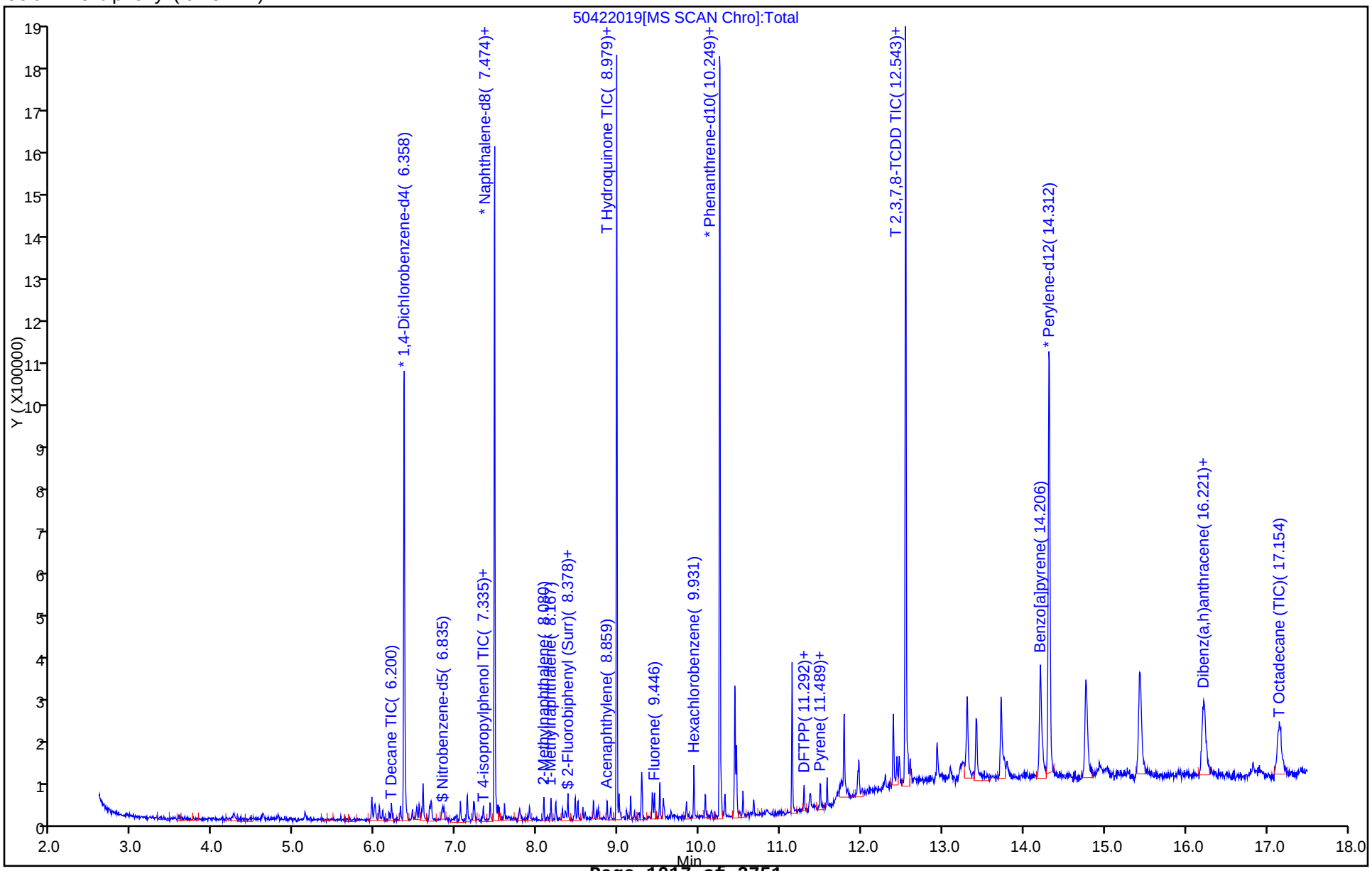
Report Date: 23-Apr-2015 09:37:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422019.D

Injection Date:	22-Apr-2015 15:09:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l1			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

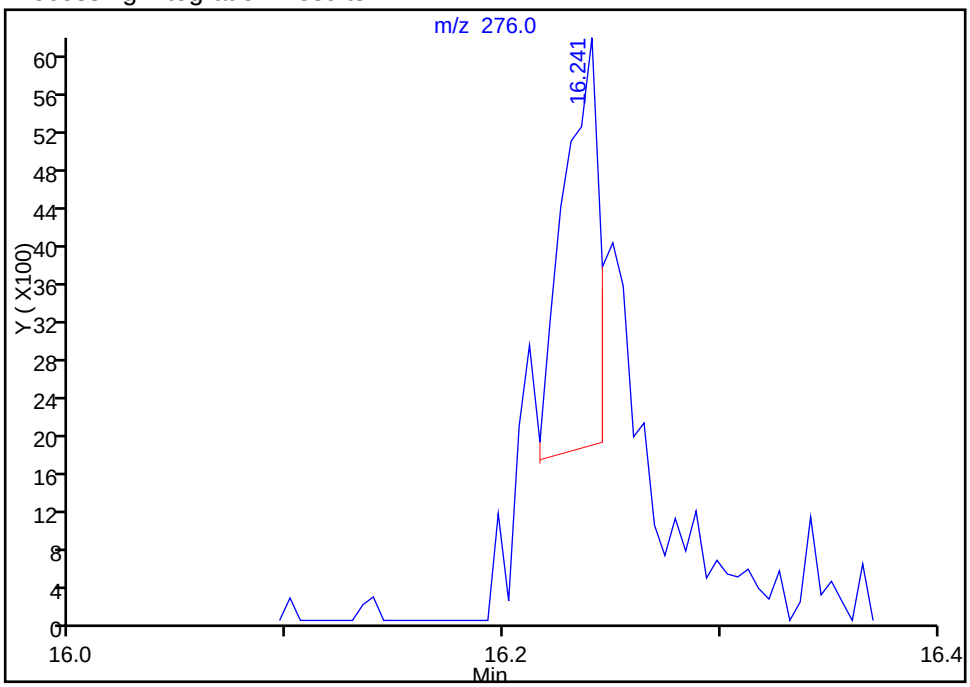
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422019.D
Injection Date: 22-Apr-2015 15:09:30 Instrument ID: A4HP9
Lims ID: lodv l1
Client ID:
Operator ID: 001574 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

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

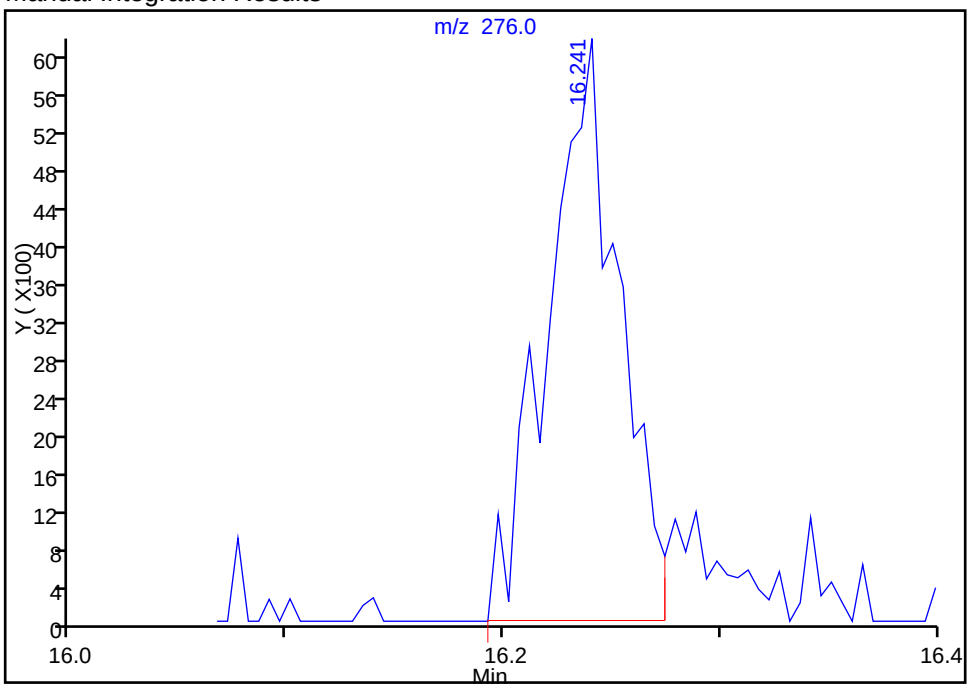
Processing Integration Results

RT: 16.24
Area: 4957
Amount: 0.032223
Amount Units: ng/ul



Manual Integration Results

RT: 16.24
Area: 14220
Amount: 0.092438
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:11:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

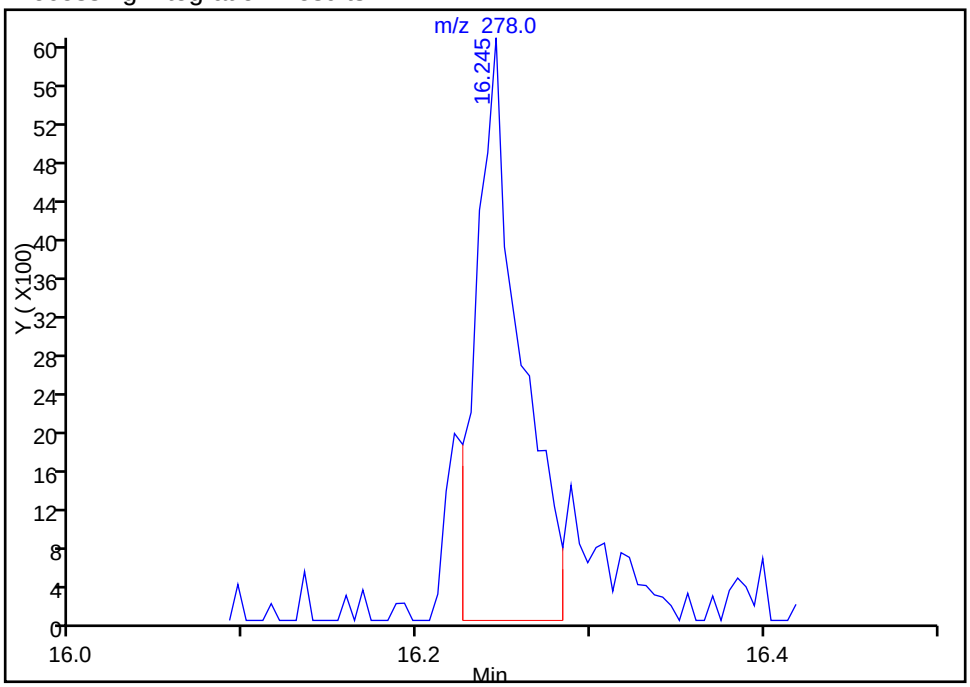
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422019.D
Injection Date: 22-Apr-2015 15:09:30 Instrument ID: A4HP9
Lims ID: lodv l1
Client ID:
Operator ID: 001574 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

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

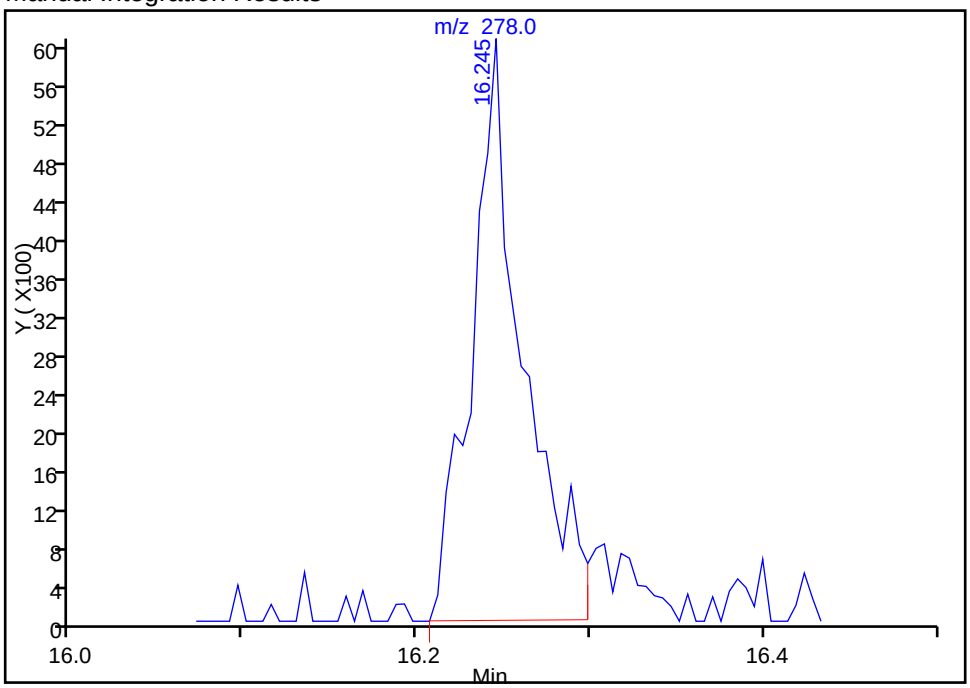
Processing Integration Results

RT: 16.25
Area: 10714
Amount: 0.084413
Amount Units: ng/ul



Manual Integration Results

RT: 16.25
Area: 12498
Amount: 0.098469
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:11:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

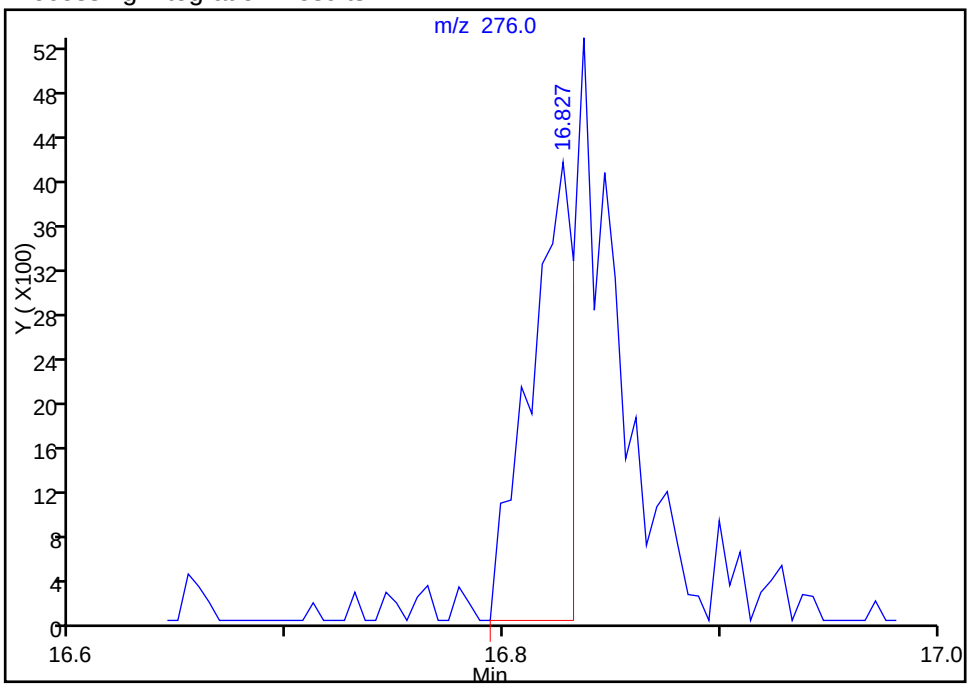
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422019.D
Injection Date: 22-Apr-2015 15:09:30 Instrument ID: A4HP9
Lims ID: lodv l1
Client ID:
Operator ID: 001574 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

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

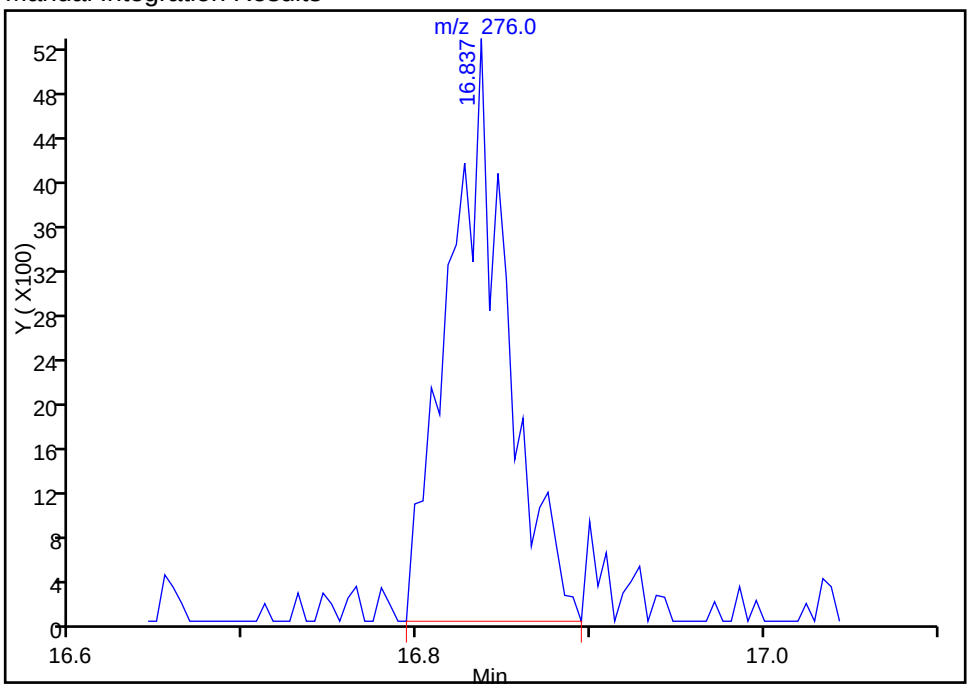
Processing Integration Results

RT: 16.83
Area: 5758
Amount: 0.045138
Amount Units: ng/ul



Manual Integration Results

RT: 16.84
Area: 12199
Amount: 0.095631
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:11:40
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/20 Calibration Date: 04/22/2015 15:34

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422020.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8489			0.411	0.500		
N-Nitrosodimethylamine	Ave	1.417			0.472	0.500		
Pyridine	Ave	2.280			0.458	0.500		
Benzaldehyde	Ave	1.670			1.14	1.00		
Phenol	Ave	2.388			0.470	0.500		
Aniline	Ave	2.967			0.540	0.500		
Bis(2-chloroethyl)ether	Ave	2.001			0.520	0.500		
2-Chlorophenol	Ave	1.398			0.497	0.500		
1,3-Dichlorobenzene	Ave	1.512			0.514	0.500		
1,4-Dichlorobenzene	Ave	1.533			0.498	0.500		
Benzyl alcohol	Ave	1.126			0.387	0.500		
1,2-Dichlorobenzene	Ave	1.431			0.541	0.500		
2-Methylphenol	Ave	1.554			0.475	0.500		
bis (2-chloroisopropyl) ether	Ave	1.639			0.618	0.500		
Indene	Ave	2.818			1.08	1.00		
3 & 4 Methylphenol	Ave	1.645			0.490	0.500		
N-Nitrosodi-n-propylamine	Ave	1.720			0.488	0.500		
Acetophenone	Ave	2.383			0.503	0.500		
Hexachloroethane	Ave	0.7281			0.517	0.500		
Nitrobenzene	Ave	0.6722			0.495	0.500		
Isophorone	Ave	1.136			0.484	0.500		
2-Nitrophenol	Ave	0.1857			0.324	0.500		
2,4-Dimethylphenol	Ave	0.4926			0.480	0.500		
Bis(2-chloroethoxy)methane	Ave	0.5716			0.513	0.500		
2,4-Dichlorophenol	Ave	0.2968			0.446	0.500		
1,2,4-Trichlorobenzene	Ave	0.3272			0.505	0.500		
4-Chloroaniline	Ave	0.4667			0.477	0.500		
2,6-Dichlorophenol	Ave	0.2918			0.459	0.500		
Hexachlorobutadiene	Ave	0.2201			0.485	0.500		
Caprolactam	Ave	0.1252			0.893	1.00		
4-Chloro-3-methylphenol	Ave	0.4176			0.438	0.500		
Hexachlorocyclopentadiene	Ave	0.3739			0.190	0.500		
1,2,4,5-Tetrachlorobenzene	Ave	0.5765			0.565	0.500		
2,4,6-Trichlorophenol	Ave	0.3845			0.478	0.500		
2,4,5-Trichlorophenol	Ave	0.4014			0.463	0.500		
1,1'-Biphenyl	Ave	1.404			0.532	0.500		
2-Chloronaphthalene	Ave	1.110			0.512	0.500		
2-Nitroaniline	Ave	0.5629			0.479	0.500		
Dimethyl phthalate	Ave	1.248			0.540	0.500		
1,3-Dinitrobenzene	Ave	0.2002			0.439	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/20 Calibration Date: 04/22/2015 15:34

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422020.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dinitrotoluene	Ave	0.2924			0.473	0.500		
3-Nitroaniline	Ave	0.2915			0.520	0.500		
2,4-Dinitrotoluene	Ave	0.3819			0.392	0.500		
Dibenzofuran	Ave	1.519			0.540	0.500		
2,3,4,6-Tetrachlorophenol	Ave	0.3232			0.369	0.500		
Diethyl phthalate	Ave	1.260			0.542	0.500		
4-Chlorophenyl phenyl ether	Ave	0.6472			0.532	0.500		
4-Nitroaniline	Ave	0.2823			0.539	0.500		
N-Nitrosodiphenylamine	Ave	0.5377			0.994	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118			0.512	0.500		
Azobenzene	Ave	1.117			0.514	0.500		
4-Bromophenyl phenyl ether	Ave	0.2049			0.522	0.500		
Carbazole	Ave	0.9379			0.489	0.500		
Di-n-butyl phthalate	Ave	1.175			0.451	0.500		
Benzidine	Ave	0.5801			0.503	1.00		
Butyl benzyl phthalate	Ave	0.5093			0.406	0.500		
Bis(2-ethylhexyl) phthalate	Ave	0.6761			0.421	0.500		
3,3'-Dichlorobenzidine	Ave	0.3645			0.847	1.00		
Di-n-octyl phthalate	Ave	1.408			0.364	0.500		
2,4-Dinitrophenol	Lin				0.00100	1.00		
2-Methylnaphthalene	Ave	0.7019			0.000100	0.500		
4,6-Dinitro-2-methylphenol	Lin1				0.00400	1.00		
4-Nitrophenol	Ave	0.2767			0.00400	1.00		
Acenaphthene	Ave	1.116			0.000100	0.500		
Acenaphthylene	Ave	1.715			0.000100	0.500		
Anthracene	Ave	1.050			0.000100	0.500		
Atrazine	Ave	0.2061			0.000500	1.00		
Benzo[a]anthracene	Ave	1.124			0.000100	0.500		
Benzo[a]pyrene	Ave	1.151			0.000100	0.500		
Benzo[b]fluoranthene	Ave	1.205			0.000100	0.500		
Benzo[g,h,i]perylene	Ave	0.9662			0.000100	0.500		
Benzo[k]fluoranthene	Ave	1.214			0.000100	0.500		
Benzoic acid	Lin1				0.0200	1.00		
Chrysene	Ave	1.027			0.000100	0.500		
Dibenz(a,h)anthracene	Ave	0.9613			0.000100	0.500		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/20 Calibration Date: 04/22/2015 15:34

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422020.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoranthene	Ave	1.212			0.000100	0.500		
Fluorene	Ave	1.275			0.000100	0.500		
Hexachlorobenzene	Ave	0.2018			0.000100	0.500		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.000100	0.500		
Naphthalene	Ave	1.069			0.000100	0.500		
Pentachlorophenol	Lin1				0.00100	1.00		
Phenanthrene	Ave	1.050			0.000100	0.500		
Pyrene	Ave	1.096			0.000100	0.500		
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.496	0.500	99	35-100
2-Fluorobiphenyl (Surr)	Ave	1.345			0.500	0.500	100	45-105
Terphenyl-d14 (Surr)	Ave	0.8139			0.449	0.500	90	30-125
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.000000	0.500	0*	35-125
2-Fluorophenol (Surr)	Ave	1.472			0.000000	0.500	0*	35-105
Phenol-d5 (Surr)	Ave	2.203			0.000000	0.500	0*	40-100

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422020.D
Lims ID: lodv l2
Client ID:
Sample Type: LODV
Inject. Date: 22-Apr-2015 15:34:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-020
Misc. Info.: LODV L2LODV L2
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 16:23:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.359	6.359	0.000	97	132087	4.00	4.00	
* 2 Naphthalene-d8	136	7.475	7.475	0.000	98	501206	4.00	4.00	
* 3 Acenaphthene-d10	164	8.980	8.980	0.000	69	281968	4.00	4.00	
* 4 Phenanthrene-d10	188	10.250	10.254	-0.004	80	538368	4.00	4.00	
* 5 Chrysene-d12	240	12.543	12.548	-0.005	81	640827	4.00	4.00	
* 6 Perylene-d12	264	14.313	14.318	-0.005	95	542671	4.00	4.00	
$ 7 2-Fluorophenol	112		5.133				ND	ND	
$ 8 Phenol-d5	99		5.994				ND	ND	
$ 9 Nitrobenzene-d5	82	6.830	6.835	-0.005	83	45254	0.5000	0.4961	
$ 10 2-Fluorobiphenyl (Surr)	172	8.379	8.379	0.000	95	47444	0.5000	0.5005	
$ 11 2,4,6-Tribromophenol	330		9.653				ND	ND	
$ 12 Terphenyl-d14	244	11.577	11.577	0.000	93	58579	0.5000	0.4493	
25 1,4-Dioxane	88	2.998	2.993	0.005	14	11516	0.5000	0.4108	M
26 N-Nitrosodimethylamine	74	3.503	3.493	0.010	67	22082	0.5000	0.4721	M
27 Pyridine	79	3.570	3.556	0.014	89	34483	0.5000	0.4581	
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77	5.960	5.960	0.000	86	62643	1.00	1.14	
43 Phenol	94	6.003	6.003	0.000	93	37025	0.5000	0.4695	
44 Aniline	93	6.051	6.051	0.000	84	52921	0.5000	0.5401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93	6.090	6.095	-0.005	87	34352	0.5000	0.5198	
45 Pentachloroethane	167		6.122					ND	
46 2-Chlorophenol	128	6.172	6.172	0.000	85	22933	0.5000	0.4969	
243 n-Decane	57		6.201				ND	ND	
47 1,3-Dichlorobenzene	146	6.311	6.311	0.000	81	25657	0.5000	0.5140	
48 1,4-Dichlorobenzene	146	6.374	6.374	0.000	63	25202	0.5000	0.4977	
49 Benzyl alcohol	108	6.455	6.455	0.000	72	14396	0.5000	0.3870	M
232 1-Methyl-2-pyrrilidinone	99		6.462					ND	
50 1,2-Dichlorobenzene	146	6.513	6.513	0.000	85	25552	0.5000	0.5409	
51 2-Methylphenol	108	6.542	6.542	0.000	74	24379	0.5000	0.4751	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
53 2,2'-oxybis[1-chloropropan	45	6.576	6.576	0.000	98	33429	0.5000	0.6178	
52 Indene	115	6.590	6.590	0.000	75	100462	1.00	1.08	
21 3 & 4 Methylphenol	108	6.672	6.672	0.000	90	26632	0.5000	0.4902	
56 N-Nitrosopyrrolidine	100		6.675					ND	
57 N-Nitrosodi-n-propylamine	70	6.686	6.686	0.000	95	27743	0.5000	0.4884	
58 Acetophenone	105	6.696	6.696	0.000	78	39612	0.5000	0.5035	
59 N-Nitrosomorpholine	56		6.704					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
60 2-Toluidine	106		6.742					ND	
61 Hexachloroethane	117	6.821	6.821	0.000	84	12424	0.5000	0.5167	
62 Nitrobenzene	77	6.850	6.850	0.000	71	41708	0.5000	0.4952	
63 N-Nitrosopiperidine	114		6.987					ND	
64 Isophorone	82	7.052	7.052	0.000	94	68943	0.5000	0.4843	
66 2-Nitrophenol	139	7.129	7.129	0.000	62	7533	0.5000	0.3237	
65 2,4-Dimethylphenol	107	7.133	7.138	-0.005	90	29625	0.5000	0.4799	
67 1,3,5-Trichlorobenzene	180		7.160					ND	
71 Benzoic acid	122		7.196				ND	ND	
68 o,o',o''-Triethylphosphoro	198		7.199					ND	
70 Bis(2-chloroethoxy)methane	93	7.215	7.215	0.000	90	36723	0.5000	0.5127	
72 alpha,alpha-Dimethyl phene	58		7.314					ND	
73 2,4-Dichlorophenol	162	7.335	7.335	0.000	87	16585	0.5000	0.4459	
74 1,2,4-Trichlorobenzene	180	7.417	7.417	0.000	85	20692	0.5000	0.5047	
75 Naphthalene	128		7.494				ND	ND	
76 4-Chloroaniline	127	7.509	7.513	-0.005	34	27878	0.5000	0.4767	
77 2,6-Dichlorophenol	162	7.528	7.533	-0.005	62	16779	0.5000	0.4589	
78 Hexachloropropene	213		7.589					ND	
79 Hexachlorobutadiene	225	7.595	7.595	0.000	81	13378	0.5000	0.4850	
80 1,2,3-Trichlorobenzene	180		7.626					ND	
81 Benzothiazole	135		7.718					ND	
82 Quinoline	129		7.781					ND	
83 N-Nitrosodi-n-butylamine	84		7.795					ND	
84 Caprolactam	113	7.778	7.797	-0.019	77	14006	1.00	0.8930	
85 p-Phenylene diamine	108		7.815					ND	
86 4-Chloro-3-methylphenol	107	7.903	7.908	-0.005	83	22940	0.5000	0.4384	
94 Safrole, Total	162		7.992					ND	
87 2-Methylnaphthalene	142		8.081				ND	ND	
88 1-Methylnaphthalene	142		8.172				ND	ND	
89 Hexachlorocyclopentadiene	237	8.225	8.225	0.000	48	5013	0.5000	0.1902	
91 1,2,4,5-Tetrachlorobenzene	216	8.230	8.230	0.000	87	22964	0.5000	0.5651	
90 1,2,3,5-Tetrachlorobenzene	216		8.232					ND	
225 Isosafrole Peak 1	162		8.243					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196	8.312	8.312	0.000	86	12966	0.5000	0.4784	
93 2,4,5-Trichlorophenol	196	8.340	8.345	-0.005	74	13098	0.5000	0.4629	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154	8.465	8.470	-0.005	95	52645	0.5000	0.5321	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162	8.499	8.504	-0.005	97	40092	0.5000	0.5122	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65	8.562	8.562	0.000	72	19011	0.5000	0.4791	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163	8.691	8.696	-0.005	90	47541	0.5000	0.5402	
106 1,3-Dinitrobenzene	168	8.730	8.730	0.000	77	6192	0.5000	0.4387	
107 2,6-Dinitrotoluene	165	8.749	8.754	-0.005	52	9741	0.5000	0.4727	
109 Acenaphthylene	152		8.865				ND	ND	
110 3-Nitroaniline	138	8.903	8.908	-0.005	76	10693	0.5000	0.5204	
111 2,4-Dinitrophenol	184		8.994				ND	ND	
112 Acenaphthene	153		9.009				ND	ND	
113 4-Nitrophenol	109		9.018				ND	ND	
114 2,4-Dinitrotoluene	165	9.100	9.105	-0.005	63	10559	0.5000	0.3922	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168	9.148	9.153	-0.005	87	57782	0.5000	0.5398	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232	9.249	9.249	0.000	72	8411	0.5000	0.3692	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149	9.288	9.293	-0.005	94	48177	0.5000	0.5425	
247 Hexadecane	57		9.297				ND	ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204	9.418	9.422	-0.004	89	24287	0.5000	0.5323	
125 4-Nitroaniline	138	9.427	9.432	-0.005	74	10717	0.5000	0.5385	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166		9.446				ND	ND	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198		9.461				ND	ND	
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169	9.509	9.514	-0.005	94	71940	1.00	0.99	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77	9.552	9.557	-0.005	98	76984	0.5000	0.5119	
133 Azobenzene	77	9.552	9.557	-0.005	93	77374	0.5000	0.5145	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248	9.841	9.841	0.000	69	14402	0.5000	0.5223	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284		9.932				ND	ND	
142 Atrazine	200		9.942				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076				ND	ND	
143 Pentachlorophenol	266		10.081				ND	ND	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178		10.274				ND	ND	
149 Anthracene	178		10.317				ND	ND	
151 Carbazole	167	10.427	10.432	-0.005	83	61729	0.5000	0.4890	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149	10.668	10.673	-0.005	98	71315	0.5000	0.4511	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202		11.293				ND	ND	
160 Benzidine	184	11.360	11.365	-0.005	96	46718	1.00	0.5026	
161 Pyrene	202		11.495				ND	ND	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149	11.952	11.957	-0.005	85	33115	0.5000	0.4059	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.438	12.438	0.000	89	45619	0.5000	0.4212	
175 3,3'-Dichlorobenzidine	252	12.466	12.471	-0.005	55	49482	1.00	0.8473	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228		12.539				ND	ND	
178 Chrysene	228		12.577				ND	ND	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149	13.101	13.096	0.005	94	69455	0.5000	0.3635	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252		13.765				ND	ND	
183 Benzo[k]fluoranthene	252		13.803				ND	ND	
184 Benzo[a]pyrene	252		14.241				ND	ND	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.246				ND	ND	
189 Dibenz(a,h)anthracene	278		16.261				ND	ND	
190 Benzo[g,h,i]perylene	276		16.847				ND	ND	
268 Endrin	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.524					ND	
165 4,4'-DDD	235		11.812					ND	
170 4,4'-DDT	235		12.072					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100				0			0.9653	
S 245 Total Cresols	100				0			0.9653	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110		5.000					ND	
T 194 Decane TIC	142		5.800					ND	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121		7.250					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121		7.364					ND	
T 236 3-isopropylphenol TIC	121		7.364					ND	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	
T 195 Hydroquinone TIC	110		9.000					ND	
T 192 Octadecane (TIC)	254		9.600					ND	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326		12.000					ND	
T 280 2,3,7,8-TCDD TIC	198		12.500					ND	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201		14.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L2 W_00005 Amount Added: 1.00 Units: mL

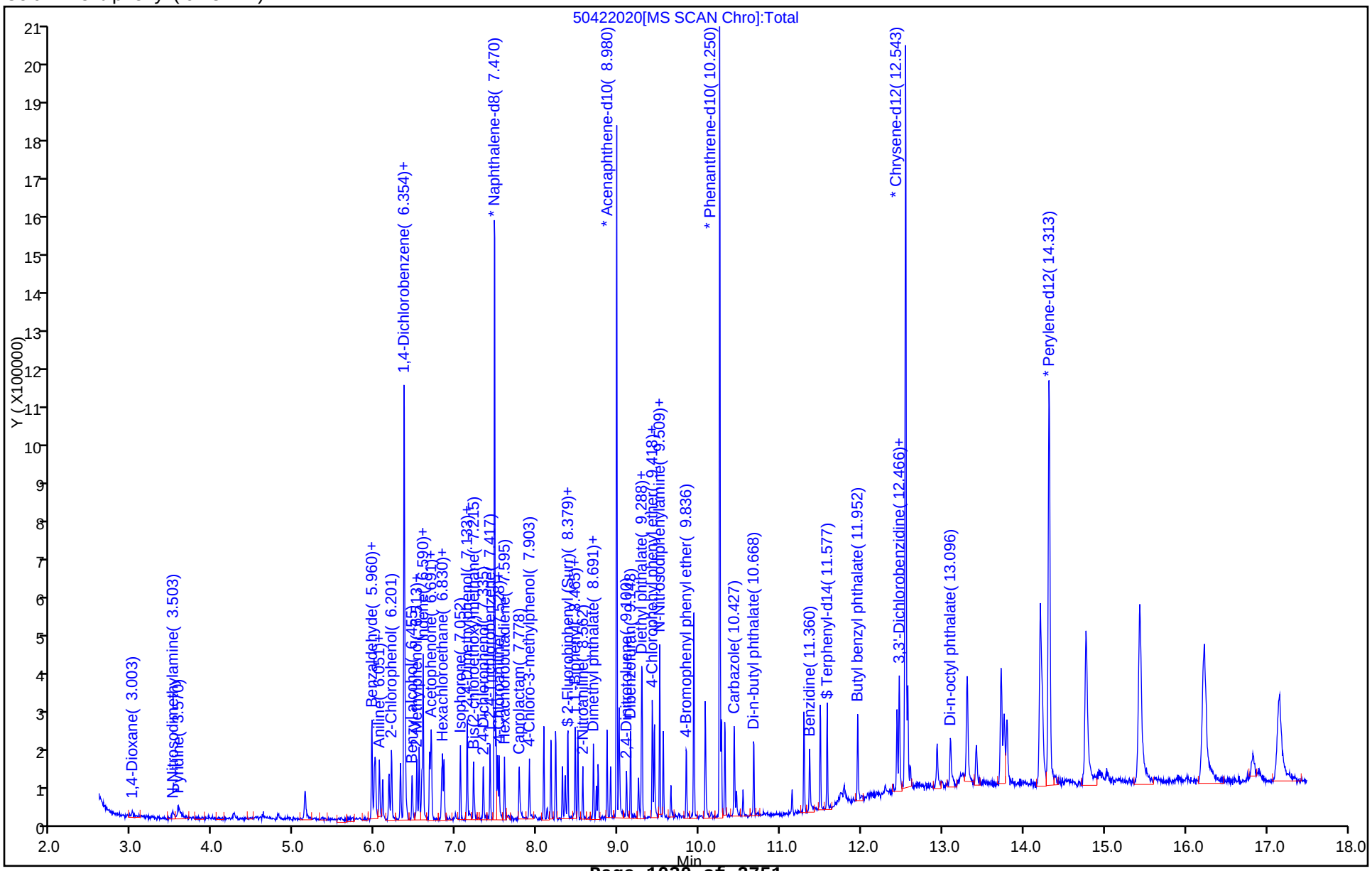
Report Date: 23-Apr-2015 09:37:29 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422020.D

Injection Date:	22-Apr-2015 15:34:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

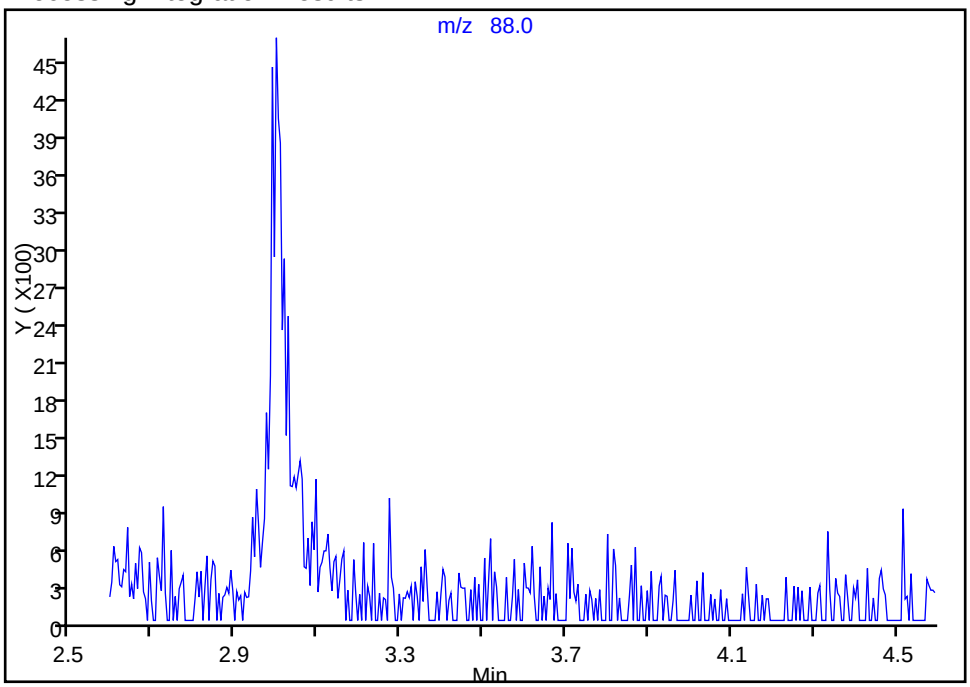
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422020.D				
Injection Date:	22-Apr-2015 15:34:30	Instrument ID:	A4HP9		
Lims ID:	lodv l2				
Client ID:					
Operator ID:	001574	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

25 1,4-Dioxane, CAS: 123-91-1

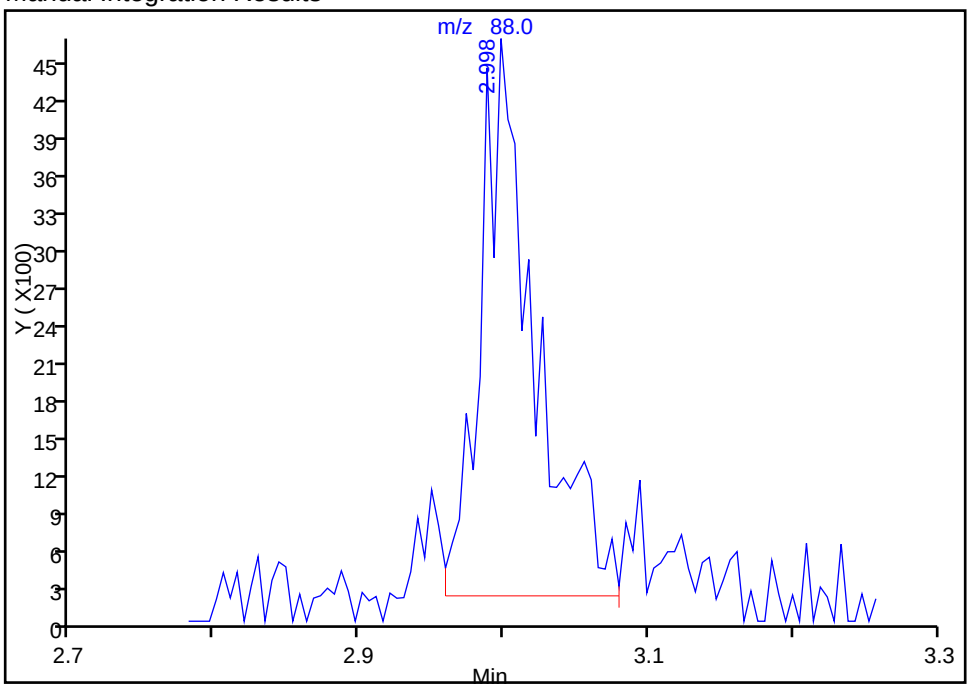
Not Detected
Expected RT: 2.99

Processing Integration Results



Manual Integration Results

RT: 3.00
Area: 11516
Amount: 0.410793
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:14:01
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

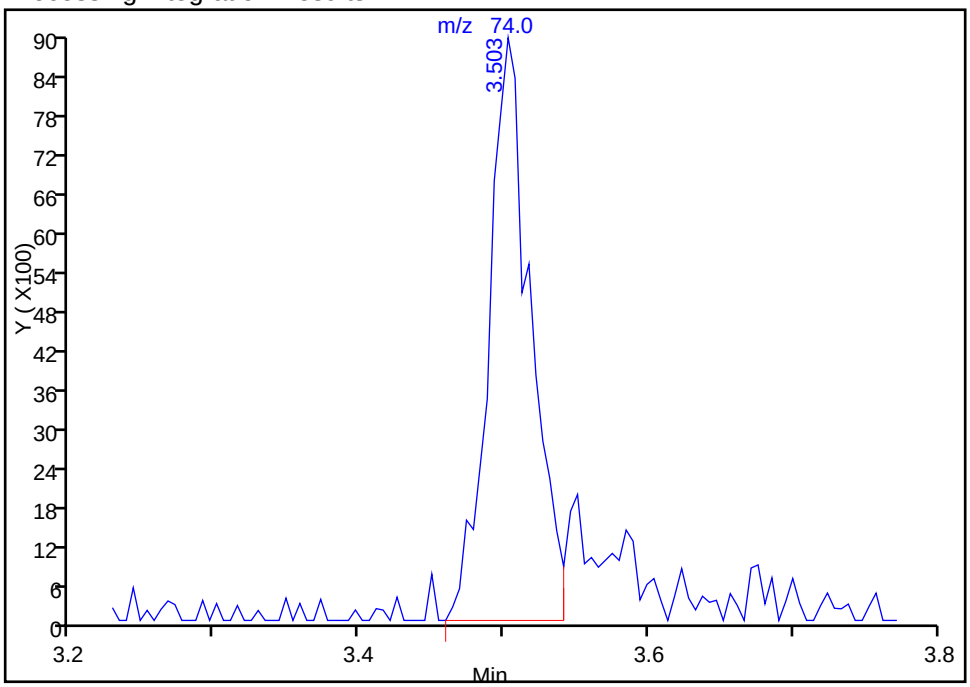
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422020.D				
Injection Date:	22-Apr-2015 15:34:30	Instrument ID:	A4HP9		
Lims ID:	lodv l2				
Client ID:					
Operator ID:	001574	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

26 N-Nitrosodimethylamine, CAS: 62-75-9

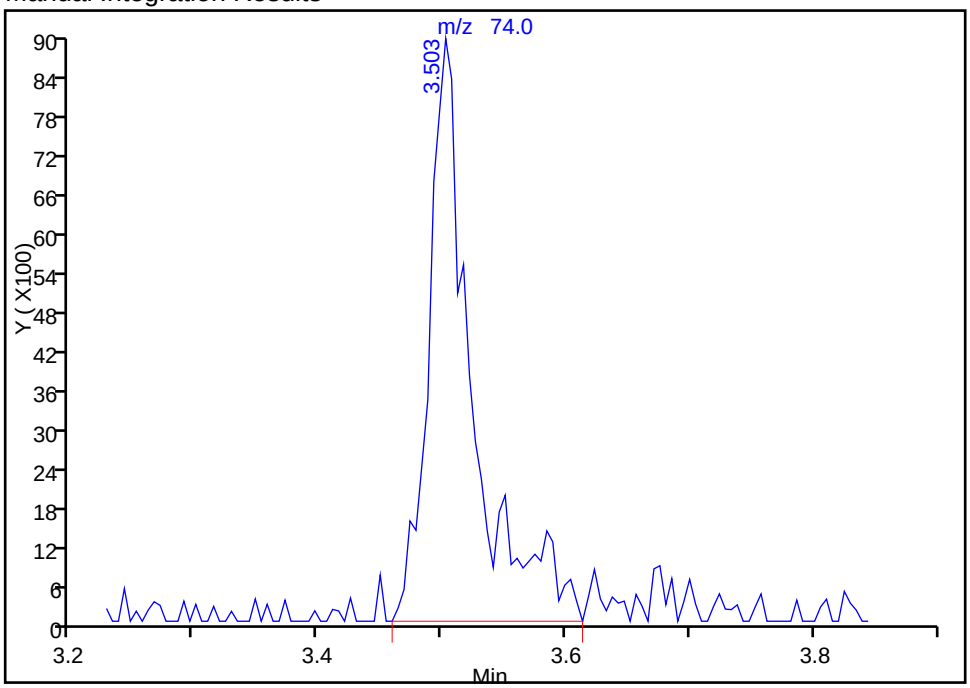
Processing Integration Results

RT: 3.50
Area: 18156
Amount: 0.388125
Amount Units: ng/ul



Manual Integration Results

RT: 3.50
Area: 22082
Amount: 0.472052
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:14:01
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

Manual Integration/User Assign Peak Report

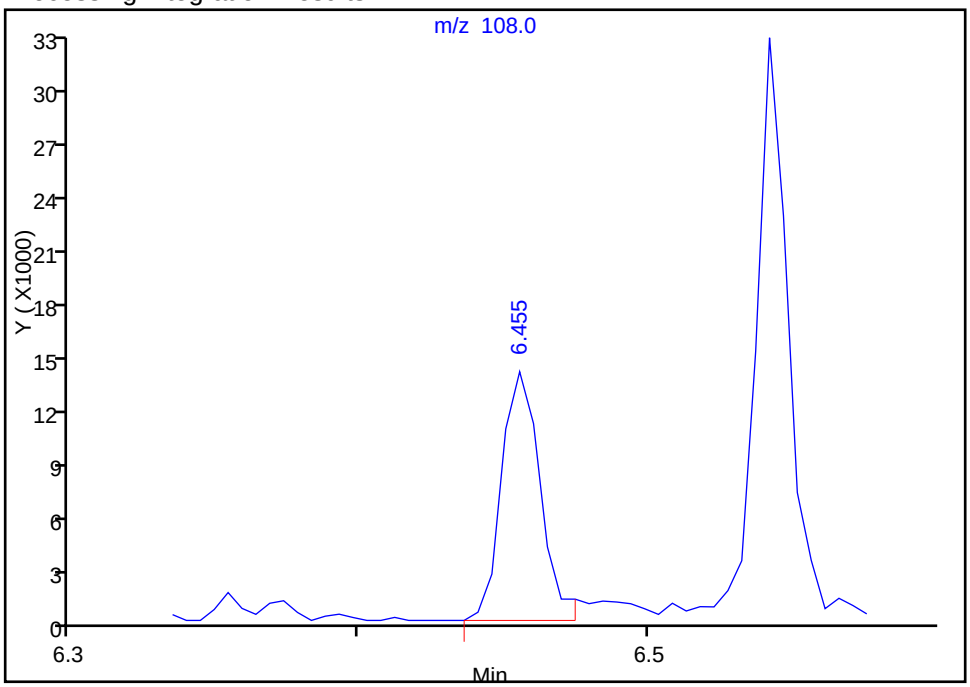
TestAmerica Canton

Data File:	\\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422020.D				
Injection Date:	22-Apr-2015 15:34:30	Instrument ID:	A4HP9		
Lims ID:	lodv l2				
Client ID:					
Operator ID:	001574	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		
Column:	5% phenyl (0.18 mm)	Detector	MS SCAN		

49 Benzyl alcohol, CAS: 100-51-6

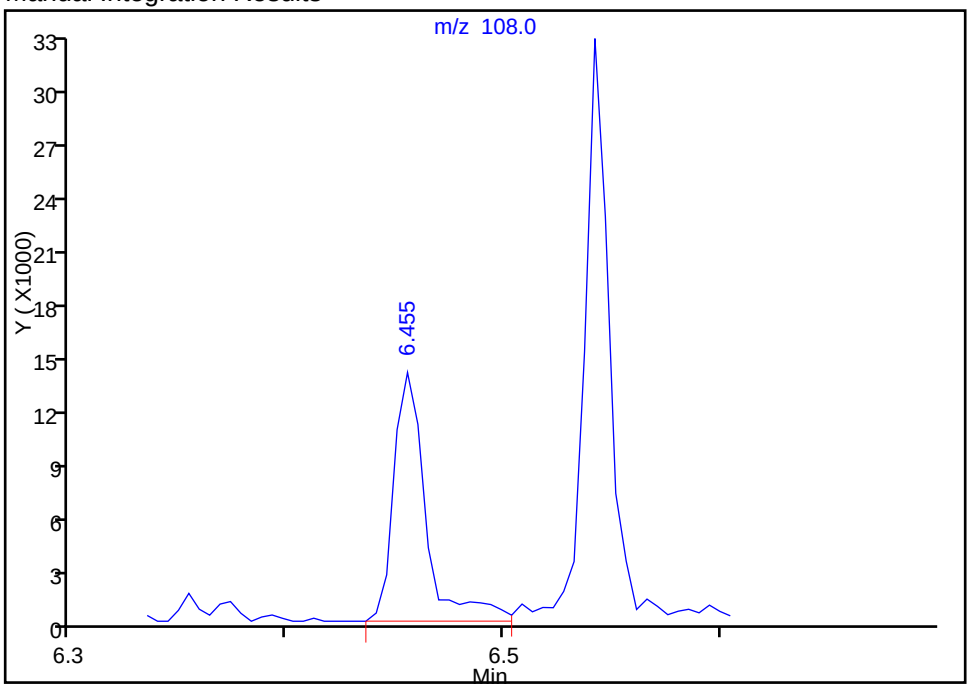
Processing Integration Results

RT: 6.46
Area: 12993
Amount: 0.349311
Amount Units: ng/ul



Manual Integration Results

RT: 6.46
Area: 14396
Amount: 0.387030
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:14:01
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/21 Calibration Date: 04/22/2015 15:59

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422021.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzoic acid	Lin1				1.86	2.00		
4-Nitrophenol	Ave	0.2767			1.35	2.00		
4,6-Dinitro-2-methylphenol	Lin1				1.01	2.00		
Pentachlorophenol	Lin1				0.955	2.00		
1,1'-Biphenyl	Ave	1.404			0.000500	1.00		
1,2,4,5-Tetrachlorobenzene	Ave	0.5765			0.00100	1.00		
1,2,4-Trichlorobenzene	Ave	0.3272			0.000500	1.00		
1,2-Dichlorobenzene	Ave	1.431			0.000500	1.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118			0.000500	1.00		
1,3-Dichlorobenzene	Ave	1.512			0.000500	1.00		
1,3-Dinitrobenzene	Ave	0.2002			0.00100	1.00		
1,4-Dichlorobenzene	Ave	1.533			0.000500	1.00		
1,4-Dioxane	Ave	0.8489			0.00100	1.00		
2,3,4,6-Tetrachlorophenol	Ave	0.3232			0.00100	1.00		
2,4,5-Trichlorophenol	Ave	0.4014			0.000500	1.00		
2,4,6-Trichlorophenol	Ave	0.3845			0.000500	1.00		
2,4-Dichlorophenol	Ave	0.2968			0.000500	1.00		
2,4-Dimethylphenol	Ave	0.4926			0.000500	1.00		
2,4-Dinitrophenol	Lin				0.00100	2.00		
2,4-Dinitrotoluene	Ave	0.3819			0.000500	1.00		
2,6-Dichlorophenol	Ave	0.2918			0.00200	1.00		
2,6-Dinitrotoluene	Ave	0.2924			0.000500	1.00		
2-Chloronaphthalene	Ave	1.110			0.000500	1.00		
2-Chlorophenol	Ave	1.398			0.000500	1.00		
2-Methylnaphthalene	Ave	0.7019			0.000100	1.00		
2-Methylphenol	Ave	1.554			0.000500	1.00		
2-Nitroaniline	Ave	0.5629			0.000500	1.00		
2-Nitrophenol	Ave	0.1857			0.000500	1.00		
3 & 4 Methylphenol	Ave	1.645			0.00100	1.00		
3,3'-Dichlorobenzidine	Ave	0.3645			0.00100	2.00		
3-Nitroaniline	Ave	0.2915			0.000500	1.00		
4-Bromophenyl phenyl ether	Ave	0.2049			0.000500	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/21 Calibration Date: 04/22/2015 15:59

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422021.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chloro-3-methylphenol	Ave	0.4176			0.000500	1.00		
4-Chloroaniline	Ave	0.4667			0.000500	1.00		
4-Chlorophenyl phenyl ether	Ave	0.6472			0.000500	1.00		
4-Nitroaniline	Ave	0.2823			0.000500	1.00		
Acenaphthene	Ave	1.116			0.000100	1.00		
Acenaphthylene	Ave	1.715			0.000100	1.00		
Acetophenone	Ave	2.383			0.000500	1.00		
Aniline	Ave	2.967			0.00100	1.00		
Anthracene	Ave	1.050			0.000100	1.00		
Atrazine	Ave	0.2061			0.000500	2.00		
Azobenzene	Ave	1.117			0.000500	1.00		
Benzaldehyde	Ave	1.670			0.000500	2.00		
Benzidine	Ave	0.5801			0.00100	2.00		
Benzo[a]anthracene	Ave	1.124			0.000100	1.00		
Benzo[a]pyrene	Ave	1.151			0.000100	1.00		
Benzo[b]fluoranthene	Ave	1.205			0.000100	1.00		
Benzo[g,h,i]perylene	Ave	0.9662			0.000100	1.00		
Benzo[k]fluoranthene	Ave	1.214			0.000100	1.00		
Benzyl alcohol	Ave	1.126			0.000500	1.00		
bis (2-chloroisopropyl) ether	Ave	1.639			0.000500	1.00		
Bis(2-chloroethoxy)methane	Ave	0.5716			0.000500	1.00		
Bis(2-chloroethyl)ether	Ave	2.001			0.000100	1.00		
Bis(2-ethylhexyl) phthalate	Ave	0.6761			0.000500	1.00		
Butyl benzyl phthalate	Ave	0.5093			0.000500	1.00		
Caprolactam	Ave	0.1252			0.000500	2.00		
Carbazole	Ave	0.9379			0.000500	1.00		
Chrysene	Ave	1.027			0.000100	1.00		
Dibenz(a,h)anthracene	Ave	0.9613			0.000100	1.00		
Dibenzofuran	Ave	1.519			0.000100	1.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/21 Calibration Date: 04/22/2015 15:59

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422021.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diethyl phthalate	Ave	1.260			0.00100	1.00		
Dimethyl phthalate	Ave	1.248			0.000500	1.00		
Di-n-butyl phthalate	Ave	1.175			0.00100	1.00		
Di-n-octyl phthalate	Ave	1.408			0.000500	1.00		
Fluoranthene	Ave	1.212			0.000100	1.00		
Fluorene	Ave	1.275			0.000100	1.00		
Hexachlorobenzene	Ave	0.2018			0.000100	1.00		
Hexachlorobutadiene	Ave	0.2201			0.000500	1.00		
Hexachlorocyclopentadiene	Ave	0.3739			0.000500	1.00		
Hexachloroethane	Ave	0.7281			0.000500	1.00		
Indene	Ave	2.818			0.00100	2.00		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.000100	1.00		
Isophorone	Ave	1.136			0.000500	1.00		
Naphthalene	Ave	1.069			0.000100	1.00		
Nitrobenzene	Ave	0.6722			0.000100	1.00		
N-Nitrosodimethylamine	Ave	1.417			0.000500	1.00		
N-Nitrosodi-n-propylamine	Ave	1.720			0.000500	1.00		
N-Nitrosodiphenylamine	Ave	0.5377			0.000500	2.00		
Phenanthrene	Ave	1.050			0.000100	1.00		
Phenol	Ave	2.388			0.00100	1.00		
Pyrene	Ave	1.096			0.000100	1.00		
Pyridine	Ave	2.280			0.000500	1.00		
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.000000	1.00	0*	35-125
2-Fluorobiphenyl (Surr)	Ave	1.345			0.000000	1.00	0*	45-105
2-Fluorophenol (Surr)	Ave	1.472			0.000000	1.00	0*	35-105
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.000000	1.00	0*	35-100
Phenol-d5 (Surr)	Ave	2.203			0.000000	1.00	0*	40-100
Terphenyl-d14 (Surr)	Ave	0.8139			0.000000	1.00	0*	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422021.D
Lims ID: lodv l3
Client ID:
Sample Type: LODV
Inject. Date: 22-Apr-2015 15:59:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-021
Misc. Info.: LODV L3LODV L3
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 16:26:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.356	6.359	-0.003	94	150345	4.00	4.00	
* 2 Naphthalene-d8	136	7.471	7.475	-0.004	98	584537	4.00	4.00	
* 3 Acenaphthene-d10	164	8.981	8.980	0.001	93	332031	4.00	4.00	
* 4 Phenanthrene-d10	188	10.251	10.254	-0.003	96	625991	4.00	4.00	
* 5 Chrysene-d12	240	12.545	12.548	-0.003	97	721191	4.00	4.00	
* 6 Perylene-d12	264	14.314	14.318	-0.004	98	595437	4.00	4.00	
$ 7 2-Fluorophenol	112		5.133				ND	ND	
$ 8 Phenol-d5	99		5.994				ND	ND	
$ 9 Nitrobenzene-d5	82		6.835				ND	ND	
$ 10 2-Fluorobiphenyl (Surr)	172		8.379				ND	ND	
$ 11 2,4,6-Tribromophenol	330		9.653				ND	ND	
$ 12 Terphenyl-d14	244		11.577				ND	ND	
25 1,4-Dioxane	88		2.993				ND	ND	
26 N-Nitrosodimethylamine	74		3.493				ND	ND	
27 Pyridine	79		3.556				ND	ND	
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77		5.960				ND	ND	
43 Phenol	94		6.003				ND	ND	
44 Aniline	93		6.051				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.095				ND	ND	
45 Pentachloroethane	167		6.122					ND	
46 2-Chlorophenol	128		6.172				ND	ND	
243 n-Decane	57		6.201				ND	ND	
47 1,3-Dichlorobenzene	146		6.311				ND	ND	
48 1,4-Dichlorobenzene	146		6.374				ND	ND	
49 Benzyl alcohol	108		6.455				ND	ND	
232 1-Methyl-2-pyrrilidinone	99		6.462					ND	
50 1,2-Dichlorobenzene	146		6.513				ND	ND	
51 2-Methylphenol	108		6.542				ND	ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
53 2,2'-oxybis[1-chloropropan	45		6.576				ND	ND	
52 Indene	115		6.590				ND	ND	
21 3 & 4 Methylphenol	108		6.672				ND	ND	
56 N-Nitrosopyrrolidine	100		6.675					ND	
57 N-Nitrosodi-n-propylamine	70		6.686				ND	ND	
58 Acetophenone	105		6.696				ND	ND	
59 N-Nitrosomorpholine	56		6.704					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
60 2-Toluidine	106		6.742					ND	
61 Hexachloroethane	117		6.821				ND	ND	
62 Nitrobenzene	77		6.850				ND	ND	
63 N-Nitrosopiperidine	114		6.987					ND	
64 Isophorone	82		7.052				ND	ND	
66 2-Nitrophenol	139		7.129				ND	ND	
65 2,4-Dimethylphenol	107		7.138				ND	ND	
67 1,3,5-Trichlorobenzene	180		7.160					ND	
71 Benzoic acid	122	7.159	7.196	-0.037	83	14637	2.00	1.86	M
68 o,o',o''-Triethylphosphoro	198		7.199					ND	
70 Bis(2-chloroethoxy)methane	93		7.215				ND	ND	
72 alpha,alpha-Dimethyl phene	58		7.314					ND	
73 2,4-Dichlorophenol	162		7.335				ND	ND	
74 1,2,4-Trichlorobenzene	180		7.417				ND	ND	
75 Naphthalene	128		7.494				ND	ND	
76 4-Chloroaniline	127		7.513				ND	ND	
77 2,6-Dichlorophenol	162		7.533				ND	ND	
78 Hexachloropropene	213		7.589					ND	
79 Hexachlorobutadiene	225		7.595				ND	ND	
80 1,2,3-Trichlorobenzene	180		7.626					ND	
81 Benzothiazole	135		7.718					ND	
82 Quinoline	129		7.781					ND	
83 N-Nitrosodi-n-butylamine	84		7.795					ND	
84 Caprolactam	113		7.797				ND	ND	
85 p-Phenylene diamine	108		7.815					ND	
86 4-Chloro-3-methylphenol	107		7.908				ND	ND	
94 Safrole, Total	162		7.992					ND	
87 2-Methylnaphthalene	142		8.081				ND	ND	
88 1-Methylnaphthalene	142		8.172				ND	ND	
89 Hexachlorocyclopentadiene	237		8.225				ND	ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.230				ND	ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.232					ND	
225 Isosafrole Peak 1	162		8.243					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.312				ND	ND	
93 2,4,5-Trichlorophenol	196		8.345				ND	ND	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154		8.470				ND	ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162		8.504				ND	ND	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65		8.562				ND	ND	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163		8.696				ND	ND	
106 1,3-Dinitrobenzene	168		8.730				ND	ND	
107 2,6-Dinitrotoluene	165		8.754				ND	ND	
109 Acenaphthylene	152		8.865				ND	ND	
110 3-Nitroaniline	138		8.908				ND	ND	
111 2,4-Dinitrophenol	184		8.994				ND	ND	
112 Acenaphthene	153		9.009				ND	ND	
113 4-Nitrophenol	109	9.015	9.018	-0.003	87	30995	2.00		1.35
114 2,4-Dinitrotoluene	165		9.105				ND	ND	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168		9.153				ND	ND	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.249				ND	ND	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149		9.293				ND	ND	
247 Hexadecane	57		9.297				ND	ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204		9.422				ND	ND	
125 4-Nitroaniline	138		9.432				ND	ND	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166		9.446				ND	ND	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198	9.457	9.461	-0.004	88	7258	2.00		1.01
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169		9.514				ND	ND	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77		9.557				1.00	ND	
133 Azobenzene	77		9.557				ND	ND	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248		9.841				ND	ND	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284		9.932				ND	ND	
142 Atrazine	200		9.942				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076				ND	ND	
143 Pentachlorophenol	266	10.082	10.081	0.001	81	11104	2.00	0.9550	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178		10.274				ND	ND	
149 Anthracene	178		10.317				ND	ND	
151 Carbazole	167		10.432				ND	ND	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149		10.673				ND	ND	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202		11.293				ND	ND	
160 Benzidine	184		11.365				ND	ND	
161 Pyrene	202		11.495				ND	ND	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149		11.957				ND	ND	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149		12.438				ND	ND	
175 3,3'-Dichlorobenzidine	252		12.471				ND	ND	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228		12.539				ND	ND	
178 Chrysene	228		12.577				ND	ND	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149		13.096				ND	ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252		13.765				ND	ND	
183 Benzo[k]fluoranthene	252		13.803				ND	ND	
184 Benzo[a]pyrene	252		14.241				ND	ND	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.246				ND	ND	
189 Dibenz(a,h)anthracene	278		16.261				ND	ND	
190 Benzo[g,h,i]perylene	276		16.847				ND	ND	
268 Endrin	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.524					ND	
165 4,4'-DDD	235		11.812					ND	
170 4,4'-DDT	235		12.072					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	5.024	4.999	0.024	0	130			0
T 194 Decane TIC	142	6.202	5.799	0.402	91	73966			0
T 193 Hexamethylphosphoramide TI	135	6.207	6.495	-0.293	1	436			0
T 234 2-Isopropylphenol TIC	121	7.279	7.244	0.029	0	159			0

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.370	7.358	0.006	0	135		0	
T 236 3-isopropylphenol TIC	121	7.370	7.358	0.006	0	135		0	
T 237 3-(1,1-Dimethylethyl Pheno	135	7.707	7.714	-0.013	16	1233		0	
T 231 2,3,7,8-TCDD	322	8.496	8.236	0.256	1	108		0	
T 195 Hydroquinone TIC	110	9.015	8.993	0.015	29	3341		0	
T 192 Octadecane (TIC)	254	15.435	9.600	5.835	83	114965		0	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326	12.030	11.994	0.030	0	268		0	
T 280 2,3,7,8-TCDD TIC	198	12.545	12.494	0.045	0	7910		0	
T 241 Tricresyl phosphate TIC	368	12.506	12.494	0.006	0	189		0	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	13.973	13.994	-0.027	0	202		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L3 W_00005 Amount Added: 1.00 Units: mL

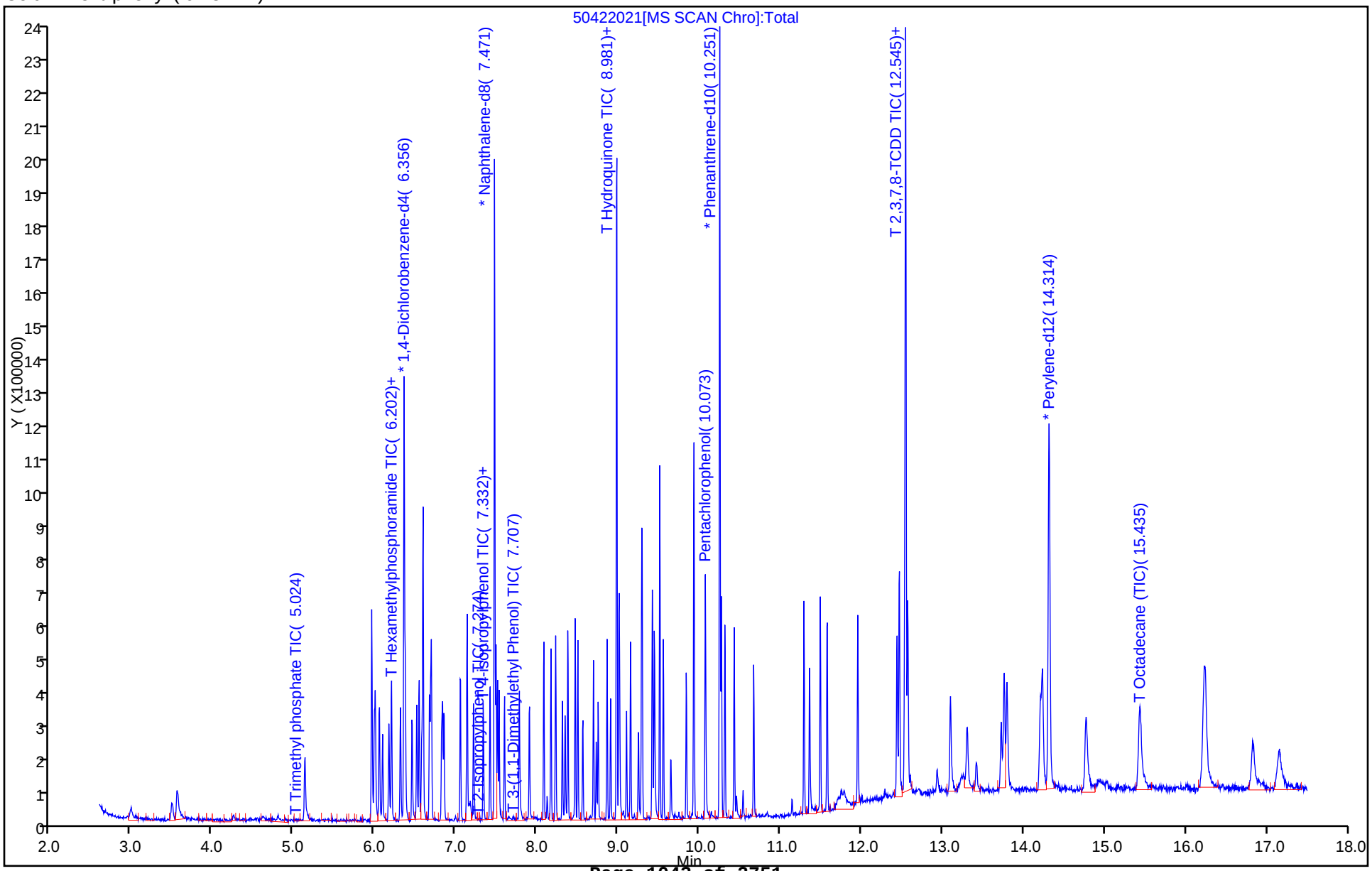
Report Date: 23-Apr-2015 09:37:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422021.D

Injection Date:	22-Apr-2015 15:59:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l3			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

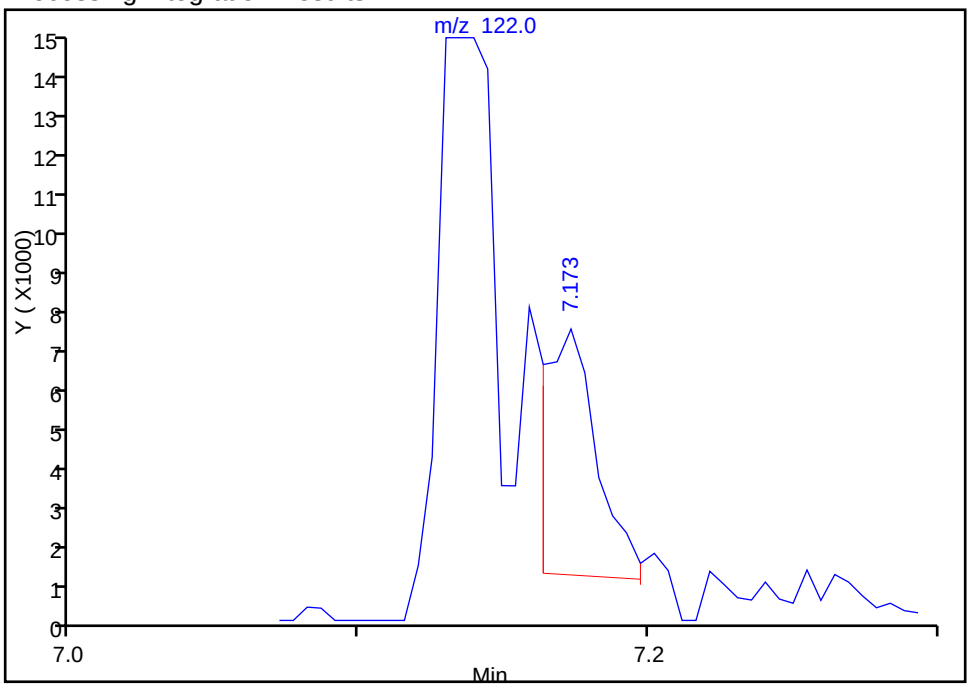
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422021.D
Injection Date: 22-Apr-2015 15:59:30 Instrument ID: A4HP9
Lims ID: lodv l3
Client ID:
Operator ID: 001574 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

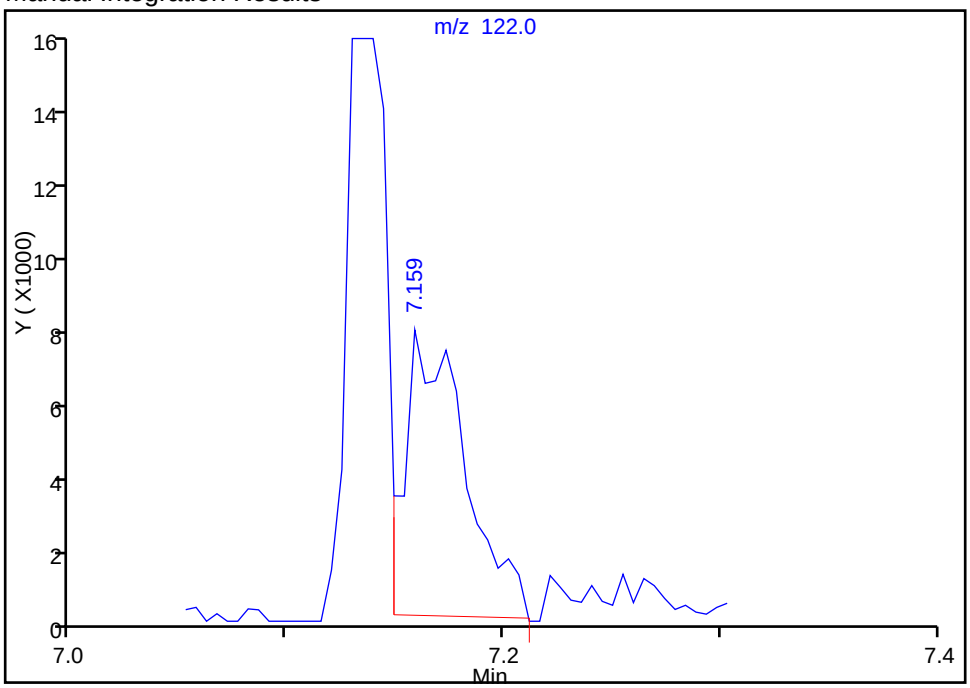
Processing Integration Results

RT: 7.17
Area: 7710
Amount: 1.662962
Amount Units: ng/ul



Manual Integration Results

RT: 7.16
Area: 14637
Amount: 1.858953
Amount Units: ng/ul



Reviewer: ulmanm, 23-Apr-2015 09:31:12
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/48 Calibration Date: 04/22/2015 16:24

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4-Dinitrophenol	Lin				2.33	4.00		
1,1'-Biphenyl	Ave	1.404			0.000500	2.00		
1,2,4,5-Tetrachlorobenzene	Ave	0.5765			0.00100	2.00		
1,2,4-Trichlorobenzene	Ave	0.3272			0.000500	2.00		
1,2-Dichlorobenzene	Ave	1.431			0.000500	2.00		
1,2-Diphenylhydrazine(as Azobenzene)	Ave	1.118			0.000500	2.00		
1,3-Dichlorobenzene	Ave	1.512			0.000500	2.00		
1,3-Dinitrobenzene	Ave	0.2002			0.00100	2.00		
1,4-Dichlorobenzene	Ave	1.533			0.000500	2.00		
1,4-Dioxane	Ave	0.8489			0.00100	2.00		
2,3,4,6-Tetrachlorophenol	Ave	0.3232			0.00100	2.00		
2,4,5-Trichlorophenol	Ave	0.4014			0.000500	2.00		
2,4,6-Trichlorophenol	Ave	0.3845			0.000500	2.00		
2,4-Dichlorophenol	Ave	0.2968			0.000500	2.00		
2,4-Dimethylphenol	Ave	0.4926			0.000500	2.00		
2,4-Dinitrotoluene	Ave	0.3819			0.000500	2.00		
2,6-Dichlorophenol	Ave	0.2918			0.00200	2.00		
2,6-Dinitrotoluene	Ave	0.2924			0.000500	2.00		
2-Chloronaphthalene	Ave	1.110			0.000500	2.00		
2-Chlorophenol	Ave	1.398			0.000500	2.00		
2-Methylnaphthalene	Ave	0.7019			0.000100	2.00		
2-Methylphenol	Ave	1.554			0.000500	2.00		
2-Nitroaniline	Ave	0.5629			0.000500	2.00		
2-Nitrophenol	Ave	0.1857			0.000500	2.00		
3 & 4 Methylphenol	Ave	1.645			0.00100	2.00		
3,3'-Dichlorobenzidine	Ave	0.3645			0.00100	4.00		
3-Nitroaniline	Ave	0.2915			0.000500	2.00		
4,6-Dinitro-2-methylphenol	Lin1				0.00400	4.00		
4-Bromophenyl phenyl ether	Ave	0.2049			0.000500	2.00		
4-Chloro-3-methylphenol	Ave	0.4176			0.000500	2.00		
4-Chloroaniline	Ave	0.4667			0.000500	2.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/48 Calibration Date: 04/22/2015 16:24

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl phenyl ether	Ave	0.6472			0.000500	2.00		
4-Nitroaniline	Ave	0.2823			0.000500	2.00		
4-Nitrophenol	Ave	0.2767			0.00400	4.00		
Acenaphthene	Ave	1.116			0.000100	2.00		
Acenaphthylene	Ave	1.715			0.000100	2.00		
Acetophenone	Ave	2.383			0.000500	2.00		
Aniline	Ave	2.967			0.00100	2.00		
Anthracene	Ave	1.050			0.000100	2.00		
Atrazine	Ave	0.2061			0.000500	4.00		
Azobenzene	Ave	1.117			0.000500	2.00		
Benzaldehyde	Ave	1.670			0.000500	4.00		
Benzidine	Ave	0.5801			0.00100	4.00		
Benzo[a]anthracene	Ave	1.124			0.000100	2.00		
Benzo[a]pyrene	Ave	1.151			0.000100	2.00		
Benzo[b]fluoranthene	Ave	1.205			0.000100	2.00		
Benzo[g,h,i]perylene	Ave	0.9662			0.000100	2.00		
Benzo[k]fluoranthene	Ave	1.214			0.000100	2.00		
Benzoic acid	Lin1				0.0200	4.00		
Benzyl alcohol	Ave	1.126			0.000500	2.00		
bis (2-chloroisopropyl) ether	Ave	1.639			0.000500	2.00		
Bis(2-chloroethoxy)methane	Ave	0.5716			0.000500	2.00		
Bis(2-chloroethyl)ether	Ave	2.001			0.000100	2.00		
Bis(2-ethylhexyl) phthalate	Ave	0.6761			0.000500	2.00		
Butyl benzyl phthalate	Ave	0.5093			0.000500	2.00		
Caprolactam	Ave	0.1252			0.000500	4.00		
Carbazole	Ave	0.9379			0.000500	2.00		
Chrysene	Ave	1.027			0.000100	2.00		
Dibenz(a,h)anthracene	Ave	0.9613			0.000100	2.00		
Dibenzofuran	Ave	1.519			0.000100	2.00		
Diethyl phthalate	Ave	1.260			0.00100	2.00		

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 240-177355/48 Calibration Date: 04/22/2015 16:24

Instrument ID: A4HP9 Calib Start Date: 04/20/2015 08:49

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 04/20/2015 12:41

Lab File ID: 50422048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.248			0.000500	2.00		
Di-n-butyl phthalate	Ave	1.175			0.00100	2.00		
Di-n-octyl phthalate	Ave	1.408			0.000500	2.00		
Fluoranthene	Ave	1.212			0.000100	2.00		
Fluorene	Ave	1.275			0.000100	2.00		
Hexachlorobenzene	Ave	0.2018			0.000100	2.00		
Hexachlorobutadiene	Ave	0.2201			0.000500	2.00		
Hexachlorocyclopentadiene	Ave	0.3739			0.000500	2.00		
Hexachloroethane	Ave	0.7281			0.000500	2.00		
Indene	Ave	2.818			0.00100	4.00		
Indeno[1,2,3-cd]pyrene	Ave	1.165			0.000100	2.00		
Isophorone	Ave	1.136			0.000500	2.00		
Naphthalene	Ave	1.069			0.000100	2.00		
Nitrobenzene	Ave	0.6722			0.000100	2.00		
N-Nitrosodimethylamine	Ave	1.417			0.000500	2.00		
N-Nitrosodi-n-propylamine	Ave	1.720			0.000500	2.00		
N-Nitrosodiphenylamine	Ave	0.5377			0.000500	4.00		
Pentachlorophenol	Lin1				0.00100	4.00		
Phenanthrene	Ave	1.050			0.000100	2.00		
Phenol	Ave	2.388			0.00100	2.00		
Pyrene	Ave	1.096			0.000100	2.00		
Pyridine	Ave	2.280			0.000500	2.00		
2,4,6-Tribromophenol (Surr)	Ave	0.1481			0.000000	2.00	0*	35-125
2-Fluorobiphenyl (Surr)	Ave	1.345			0.000000	2.00	0*	45-105
2-Fluorophenol (Surr)	Ave	1.472			0.000000	2.00	0*	35-105
Nitrobenzene-d5 (Surr)	Ave	0.7281			0.000000	2.00	0*	35-100
Phenol-d5 (Surr)	Ave	2.203			0.000000	2.00	0*	40-100
Terphenyl-d14 (Surr)	Ave	0.8139			0.000000	2.00	0*	30-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422048.D
Lims ID: lodv l4
Client ID:
Sample Type: LODV
Inject. Date: 22-Apr-2015 16:24:30 ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-048
Misc. Info.: LODV L4LODV L4
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 17:12:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.358	6.359	-0.001	92	135018	4.00	4.00	
* 2 Naphthalene-d8	136	7.473	7.475	-0.002	98	489715	4.00	4.00	
* 3 Acenaphthene-d10	164	8.979	8.980	-0.002	78	295228	4.00	4.00	
* 4 Phenanthrene-d10	188	10.253	10.254	-0.001	94	525307	4.00	4.00	
* 5 Chrysene-d12	240	12.547	12.548	-0.001	76	593392	4.00	4.00	
* 6 Perylene-d12	264	14.316	14.318	-0.002	94	493690	4.00	4.00	
$ 7 2-Fluorophenol	112		5.133				ND	ND	
$ 8 Phenol-d5	99		5.994				ND	ND	
$ 9 Nitrobenzene-d5	82		6.835				ND	ND	
$ 10 2-Fluorobiphenyl (Surr)	172		8.379				ND	ND	
$ 11 2,4,6-Tribromophenol	330		9.653				ND	ND	
$ 12 Terphenyl-d14	244		11.577				ND	ND	
25 1,4-Dioxane	88		2.993				ND	ND	
26 N-Nitrosodimethylamine	74		3.493				ND	ND	
27 Pyridine	79		3.556				ND	ND	
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77		5.960				ND	ND	
43 Phenol	94		6.003				ND	ND	
44 Aniline	93		6.051				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.095				ND	ND	
45 Pentachloroethane	167		6.122					ND	
46 2-Chlorophenol	128		6.172				ND	ND	
243 n-Decane	57		6.201				ND	ND	
47 1,3-Dichlorobenzene	146		6.311				ND	ND	
48 1,4-Dichlorobenzene	146		6.374				ND	ND	
49 Benzyl alcohol	108		6.455				ND	ND	
232 1-Methyl-2-pyrrilidinone	99		6.462					ND	
50 1,2-Dichlorobenzene	146		6.513				ND	ND	
51 2-Methylphenol	108		6.542				ND	ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
53 2,2'-oxybis[1-chloropropan	45		6.576				ND	ND	
52 Indene	115		6.590				ND	ND	
21 3 & 4 Methylphenol	108		6.672				ND	ND	
56 N-Nitrosopyrrolidine	100		6.675					ND	
57 N-Nitrosodi-n-propylamine	70		6.686				ND	ND	
58 Acetophenone	105		6.696				ND	ND	
59 N-Nitrosomorpholine	56		6.704					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
60 2-Toluidine	106		6.742					ND	
61 Hexachloroethane	117		6.821				ND	ND	
62 Nitrobenzene	77		6.850				ND	ND	
63 N-Nitrosopiperidine	114		6.987					ND	
64 Isophorone	82		7.052				ND	ND	
66 2-Nitrophenol	139		7.129				ND	ND	
65 2,4-Dimethylphenol	107		7.138				ND	ND	
67 1,3,5-Trichlorobenzene	180		7.160					ND	
71 Benzoic acid	122		7.196				ND	ND	
68 o,o',o''-Triethylphosphoro	198		7.199					ND	
70 Bis(2-chloroethoxy)methane	93		7.215				ND	ND	
72 alpha,alpha-Dimethyl phene	58		7.314					ND	
73 2,4-Dichlorophenol	162		7.335				ND	ND	
74 1,2,4-Trichlorobenzene	180		7.417				ND	ND	
75 Naphthalene	128		7.494				ND	ND	
76 4-Chloroaniline	127		7.513				ND	ND	
77 2,6-Dichlorophenol	162		7.533				ND	ND	
78 Hexachloropropene	213		7.589					ND	
79 Hexachlorobutadiene	225		7.595				ND	ND	
80 1,2,3-Trichlorobenzene	180		7.626					ND	
81 Benzothiazole	135		7.718					ND	
82 Quinoline	129		7.781					ND	
83 N-Nitrosodi-n-butylamine	84		7.795					ND	
84 Caprolactam	113		7.797				ND	ND	
85 p-Phenylene diamine	108		7.815					ND	
86 4-Chloro-3-methylphenol	107		7.908				ND	ND	
94 Safrole, Total	162		7.992					ND	
87 2-Methylnaphthalene	142		8.081				ND	ND	
88 1-Methylnaphthalene	142		8.172				ND	ND	
89 Hexachlorocyclopentadiene	237		8.225				ND	ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.230				ND	ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.232					ND	
225 Isosafrole Peak 1	162		8.243					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.312				ND	ND	
93 2,4,5-Trichlorophenol	196		8.345				ND	ND	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154		8.470				ND	ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162		8.504				ND	ND	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65		8.562				ND	ND	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163		8.696				ND	ND	
106 1,3-Dinitrobenzene	168		8.730				ND	ND	
107 2,6-Dinitrotoluene	165		8.754				ND	ND	
109 Acenaphthylene	152		8.865				ND	ND	
110 3-Nitroaniline	138		8.908				ND	ND	
111 2,4-Dinitrophenol	184	8.998	8.994	0.004	1	1362	4.00	2.33	
112 Acenaphthene	153		9.009				ND	ND	
113 4-Nitrophenol	109		9.018				ND	ND	
114 2,4-Dinitrotoluene	165		9.105				ND	ND	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168		9.153				ND	ND	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.249				ND	ND	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149		9.293				ND	ND	
247 Hexadecane	57		9.297				ND	ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204		9.422				ND	ND	
125 4-Nitroaniline	138		9.432				ND	ND	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166		9.446				ND	ND	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198		9.461				ND	ND	
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169		9.514				ND	ND	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77		9.557				2.00	ND	
133 Azobenzene	77		9.557				ND	ND	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248		9.841				ND	ND	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284		9.932				ND	ND	
142 Atrazine	200		9.942				ND	ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076				ND	ND	
143 Pentachlorophenol	266		10.081				ND	ND	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178		10.274				ND	ND	
149 Anthracene	178		10.317				ND	ND	
151 Carbazole	167		10.432				ND	ND	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149		10.673				ND	ND	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202		11.293				ND	ND	
160 Benzidine	184		11.365				ND	ND	
161 Pyrene	202		11.495				ND	ND	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149		11.957				ND	ND	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149		12.438				ND	ND	
175 3,3'-Dichlorobenzidine	252		12.471				ND	ND	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228		12.539				ND	ND	
178 Chrysene	228		12.577				ND	ND	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149		13.096				ND	ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252		13.765				ND	ND	
183 Benzo[k]fluoranthene	252		13.803				ND	ND	
184 Benzo[a]pyrene	252		14.241				ND	ND	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.246				ND	ND	
189 Dibenz(a,h)anthracene	278		16.261				ND	ND	
190 Benzo[g,h,i]perylene	276		16.847				ND	ND	
268 Endrin	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.524					ND	
165 4,4'-DDD	235		11.812					ND	
170 4,4'-DDT	235		12.072					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	5.006	4.999	0.006	0	175			0
T 194 Decane TIC	142	5.574	5.799	-0.226	1	186			0
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121	7.252	7.244	0.002	0	257			0

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.416	7.358	0.052	0	691		0	
T 236 3-isopropylphenol TIC	121	7.416	7.358	0.052	0	691		0	
T 237 3-(1,1-Dimethylethyl Pheno	135	7.704	7.714	-0.016	5	1228		0	
T 231 2,3,7,8-TCDD	322	8.219	8.236	-0.021	1	167		0	
T 195 Hydroquinone TIC	110	9.017	8.993	0.017	12	5543		0	
T 192 Octadecane (TIC)	254	9.267	9.600	-0.333	1	141		0	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326	12.022	11.994	0.022	0	181		0	
T 280 2,3,7,8-TCDD TIC	198	12.542	12.494	0.042	0	8034		0	
T 241 Tricresyl phosphate TIC	368	12.393	12.494	-0.107	0	48		0	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	14.009	13.994	0.008	0	156		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

SMLIST1 L4 W_00005 Amount Added: 1.00 Units: mL

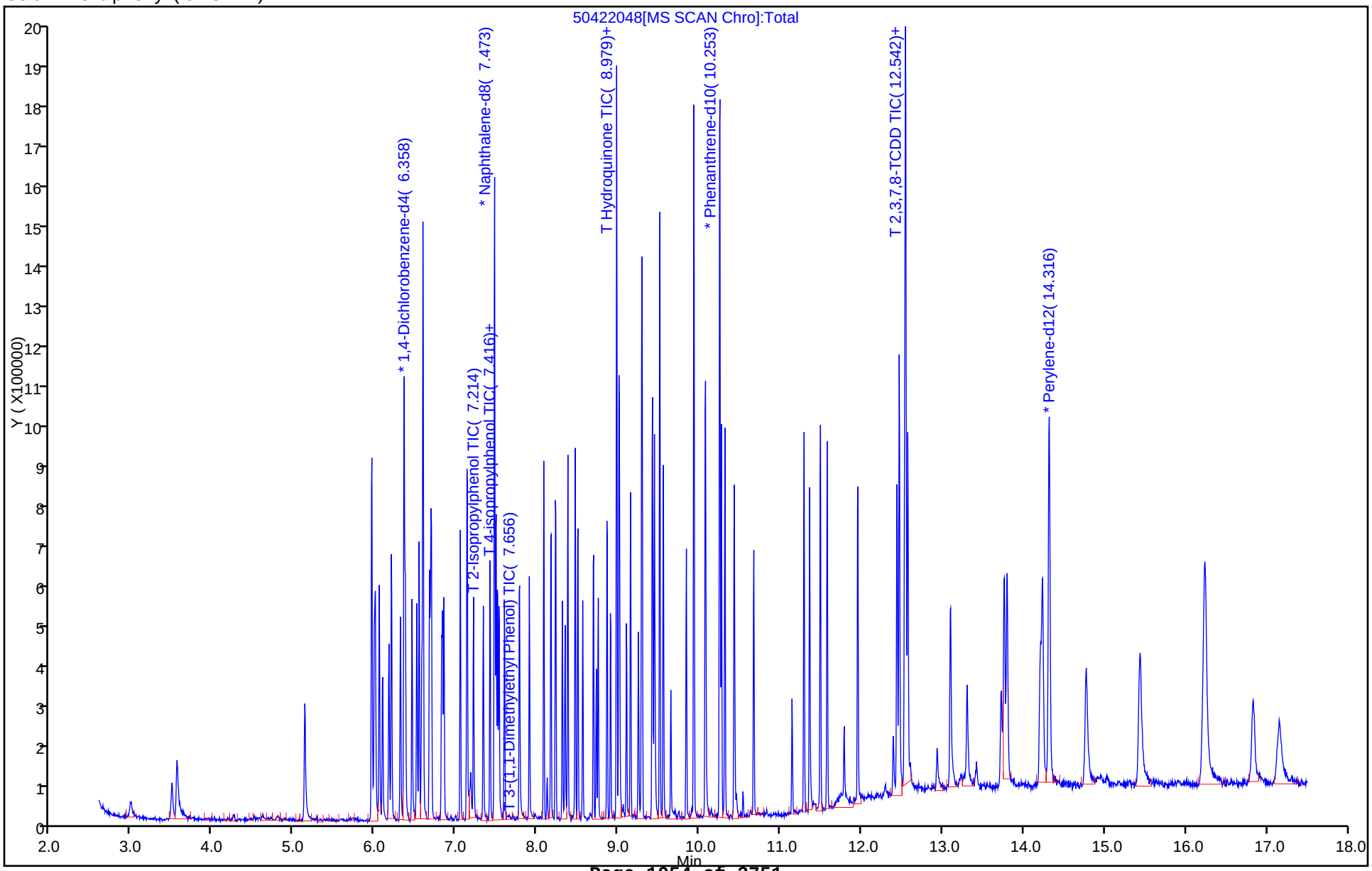
Report Date: 23-Apr-2015 09:37:34 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422048.D

Injection Date:	22-Apr-2015 16:24:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	lodv l4			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 20-Apr-2015 08:28:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: dftpp,50420a.b,dftpp390
Misc. Info.: CCV TCLCCV TCL
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 21-Apr-2015 07:00:46 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: ulmanm Date: 20-Apr-2015 08:48:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
143 Pentachlorophenol	266	10.105	10.105	0.000	88	377121	NR	NR	7
160 Benzidine	184	11.389	11.389	0.000	98	2410226	NR	NR	7
150 DFTPP									
166 4,4'-DDE	246	11.552	11.552	0.000	15	968		NR	7
165 4,4'-DDD	235	11.836	11.836	0.000	90	9762		NR	7
170 4,4'-DDT	235	12.096	12.096	0.000	97	1198979	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

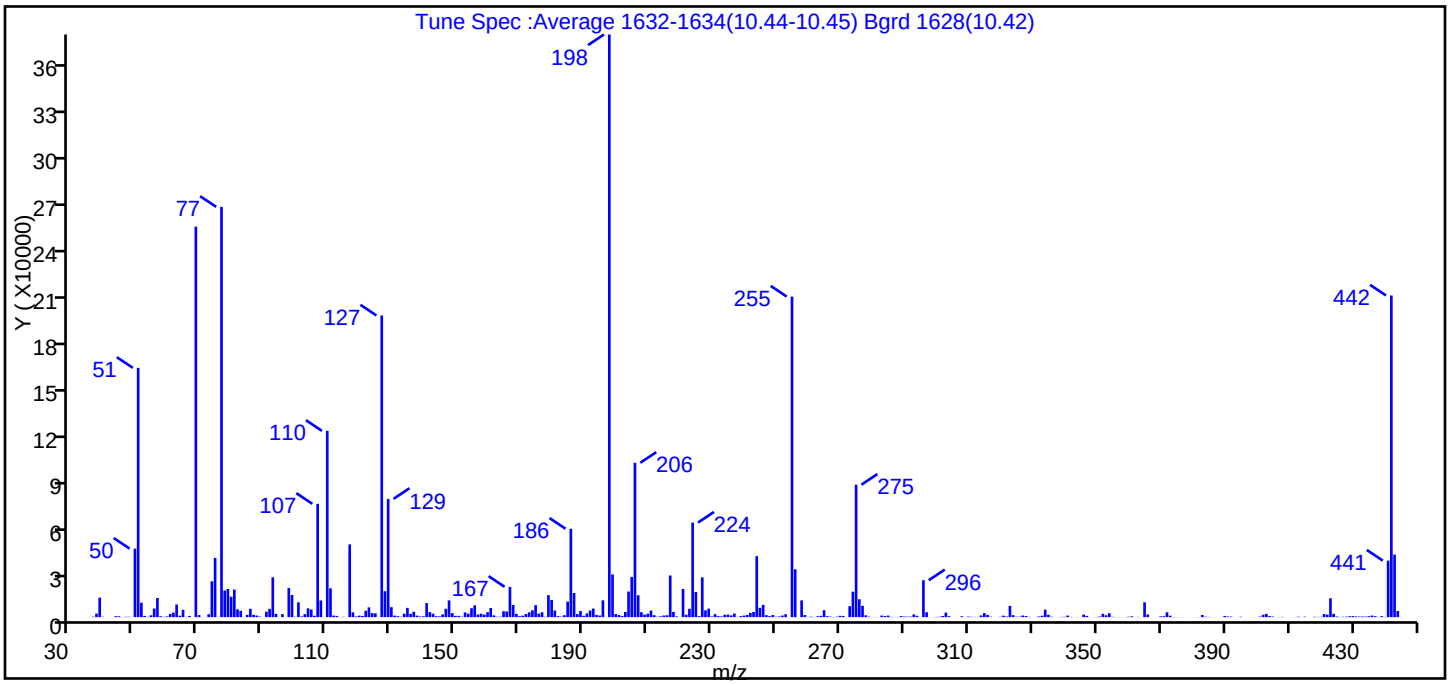
SMDFTPPW_00010 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Tune Method: DFTPP Method CLP OLM4.2

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	42.8
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	67.0
70	Less than 2.0 percent of mass 69	0.3 (0.5)
127	25.0 - 75.0 percent of mass 198	51.8
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	7.3
275	10.0 - 30.0 percent of mass 198	22.7
365	Greater than 0.75 percent of mass 198	2.5
441	Present but less than mass 443	9.7 (90.4)
442	40.0 - 110.0 percent of mass 198	55.2
443	15.0 - 24.0 percent of mass 442	10.7 (19.4)

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D\8270 _9.rslt\spectra.d
Injection Date: 20-Apr-2015 08:28:30
Spectrum: Tune Spec :Average 1632-1634(10.44-10.45) Bgrd 1628(10.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	31	137.00	3486	228.00	4428	327.00	1049
37.00	289	138.00	985	229.00	5522	328.00	753
38.00	2285	139.00	446	230.00	462	329.00	205
39.00	12653	140.00	534	231.00	1981	332.00	436
40.00	257	141.00	9155	232.00	653	333.00	923
42.00	29	142.00	3263	233.00	456	334.00	4889
44.00	624	143.00	2254	234.00	1553	335.00	1557
45.00	580	144.00	612	235.00	1665	336.00	281
46.00	81	145.00	521	236.00	1111	339.00	150
47.00	197	146.00	1773	237.00	2329	340.00	224
48.00	248	147.00	5475	238.00	163	341.00	1033
50.00	44528	148.00	10897	239.00	664	342.00	171
51.00	162048	149.00	2610	240.00	1038	344.00	88
52.00	9366	150.00	850	241.00	1413	346.00	1684
53.00	788	151.00	835	242.00	2755	347.00	829
54.00	152	152.00	303	243.00	3350	349.00	83
55.00	1184	153.00	3080	244.00	39640	350.00	96
56.00	5608	154.00	2229	245.00	6080	351.00	418
57.00	12424	155.00	5793	246.00	7985	352.00	2145
58.00	567	156.00	7652	247.00	1300	353.00	1245
59.00	192	157.00	1698	248.00	671	354.00	2510
60.00	450	158.00	2234	249.00	1385	355.00	203
61.00	2104	159.00	1642	250.00	254	356.00	72
62.00	2977	160.00	3266	251.00	413	357.00	79
63.00	8221	161.00	5934	252.00	1050	358.00	65
64.00	924	162.00	1129	253.00	1879	359.00	61
65.00	4776	163.00	270	255.00	208384	360.00	248
66.00	103	164.00	248	256.00	31112	361.00	542
67.00	787	165.00	3851	258.00	10889	363.00	165
69.00	253824	166.00	3693	259.00	1368	365.00	9647
70.00	1314	167.00	19688	260.00	151	366.00	1730
71.00	51	168.00	7880	261.00	295	370.00	530
72.00	69	169.00	2124	262.00	123	371.00	600

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D\8270 _9.rslt\spectra.d
Injection Date: 20-Apr-2015 08:28:30
Spectrum: Tune Spec :Average 1632-1634(10.44-10.45) Bgrd 1628(10.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1893	170.00	643	263.00	567	372.00	3153
74.00	23312	171.00	972	264.00	849	373.00	958
75.00	38536	172.00	2058	265.00	4516	374.00	117
77.00	266688	173.00	3117	266.00	628	375.00	90
78.00	17312	174.00	4448	267.00	322	377.00	71
79.00	18272	175.00	7804	268.00	122	381.00	66
80.00	13263	176.00	2284	269.00	284	382.00	61
81.00	17928	177.00	3177	270.00	861	383.00	1391
82.00	5123	178.00	208	271.00	809	384.00	292
83.00	4111	179.00	14321	273.00	7127	385.00	138
85.00	1483	180.00	11162	274.00	16552	387.00	54
86.00	5464	181.00	4303	275.00	86096	390.00	795
87.00	1525	182.00	669	276.00	11635	391.00	417
88.00	1041	183.00	330	277.00	7378	392.00	349
89.00	372	184.00	1257	278.00	1206	393.00	57
91.00	3516	185.00	10088	279.00	324	395.00	245
92.00	5395	186.00	57472	280.00	65	399.00	80
93.00	25888	187.00	15695	281.00	129	401.00	385
94.00	2129	188.00	1954	283.00	1034	402.00	1533
96.00	1989	189.00	3974	284.00	728	403.00	2115
98.00	18896	190.00	888	285.00	1022	404.00	683
99.00	14426	191.00	2379	286.00	169	405.00	384
100.00	208	192.00	4322	287.00	74	407.00	98
101.00	9629	193.00	5595	288.00	102	408.00	173
102.00	473	194.00	1460	289.00	684	412.00	54
103.00	1945	195.00	1027	290.00	391	413.00	291
104.00	5719	196.00	10926	291.00	326	415.00	312
105.00	4957	198.00	378752	292.00	369	418.00	259
106.00	888	199.00	27752	293.00	1772	419.00	146
107.00	73664	200.00	2030	294.00	893	420.00	183
108.00	10852	201.00	1425	296.00	23976	421.00	1997
110.00	121080	202.00	765	297.00	3200	422.00	1688
111.00	18744	203.00	3333	298.00	59	423.00	12270
112.00	1010	204.00	16648	299.00	54	424.00	2149

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D\8270 _9.rslt\spectra.d
Injection Date: 20-Apr-2015 08:28:30
Spectrum: Tune Spec :Average 1632-1634(10.44-10.45) Bgrd 1628(10.42)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	795	205.00	26144	300.00	165	425.00	411
114.00	19	206.00	100328	301.00	237	426.00	145
115.00	201	207.00	14208	302.00	744	427.00	213
117.00	47296	208.00	3230	303.00	2928	428.00	325
118.00	3119	209.00	1580	304.00	626	429.00	587
119.00	450	210.00	2248	306.00	53	430.00	691
120.00	977	211.00	4298	308.00	597	431.00	478
121.00	749	212.00	1275	310.00	349	432.00	373
122.00	4121	213.00	271	311.00	206	433.00	420
123.00	6334	214.00	535	312.00	143	434.00	370
124.00	2600	215.00	1065	313.00	139	435.00	649
125.00	2486	216.00	1232	314.00	1071	436.00	1020
127.00	196096	217.00	27072	315.00	2645	437.00	588
128.00	16864	218.00	3423	316.00	1470	438.00	120
129.00	76872	219.00	489	317.00	275	439.00	662
130.00	6486	221.00	18352	320.00	208	440.00	107
131.00	1023	222.00	1531	321.00	945	441.00	36736
132.00	636	223.00	5426	322.00	407	442.00	209088
133.00	237	224.00	61464	323.00	7310	443.00	40656
134.00	2212	225.00	16338	324.00	1281	444.00	3980
135.00	6018	226.00	638	325.00	249	445.00	57
136.00	2131	227.00	25848	326.00	286		

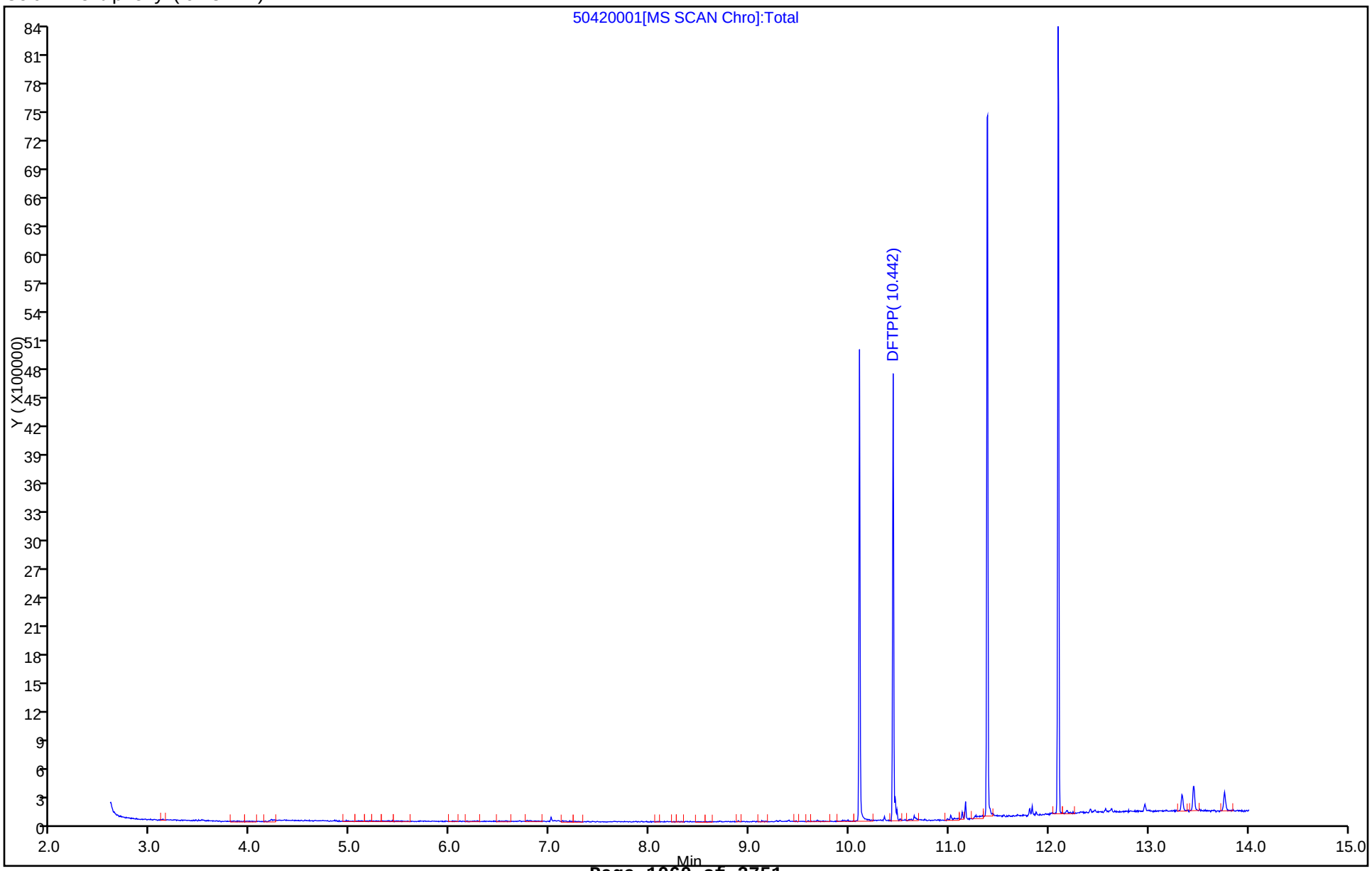
Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D

Injection Date:	20-Apr-2015 08:28:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Breakdown Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D

Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9

Lims ID: dftpp

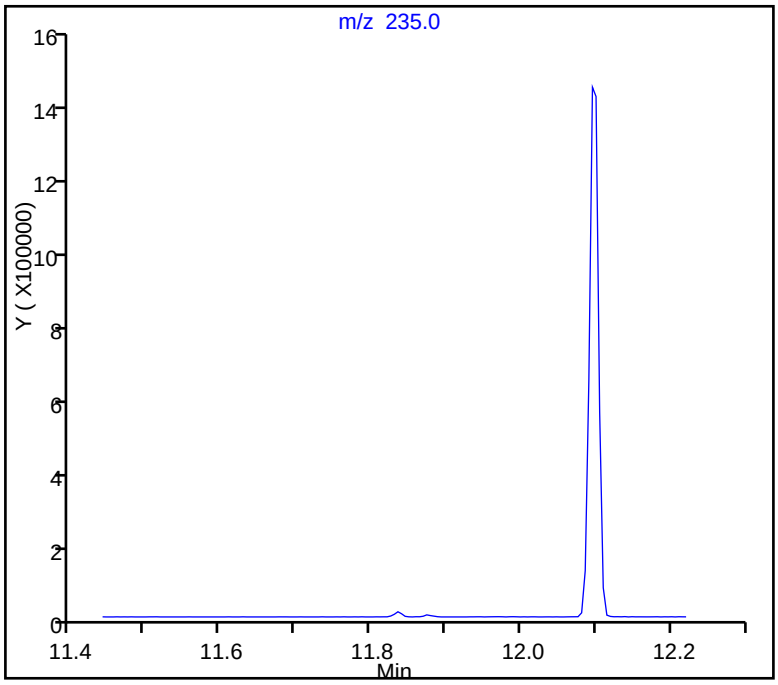
Client ID:

Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

170 4,4'-DDT, Area = 1198979
165 4,4'-DDD, Area = 9762
166 4,4'-DDE, Area = 968

%Breakdown: 0.89%, Max Limit: 20.00%
Passed

Report Date: 21-Apr-2015 07:00:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

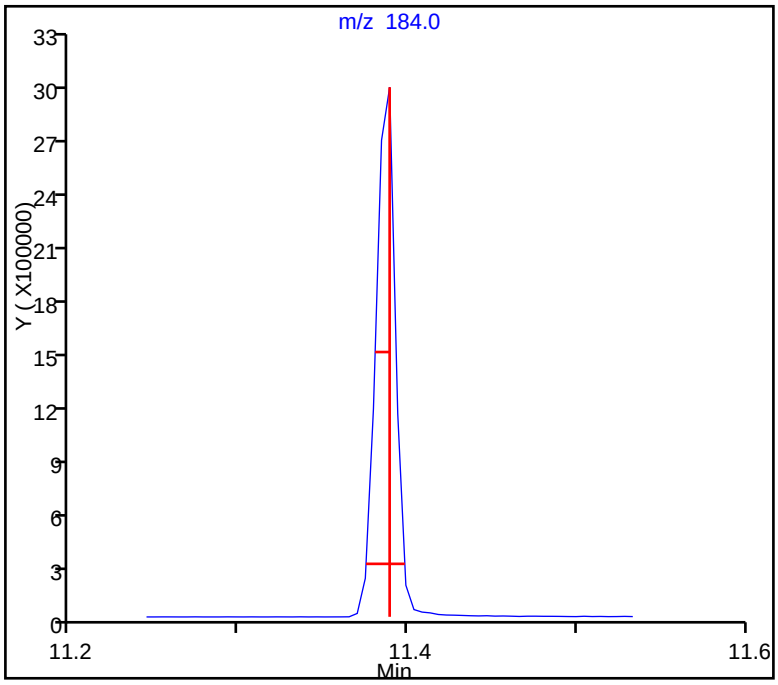
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

160 Benzidine, Detector: MS SCAN

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

Back Width = 0.009 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.6, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Canton

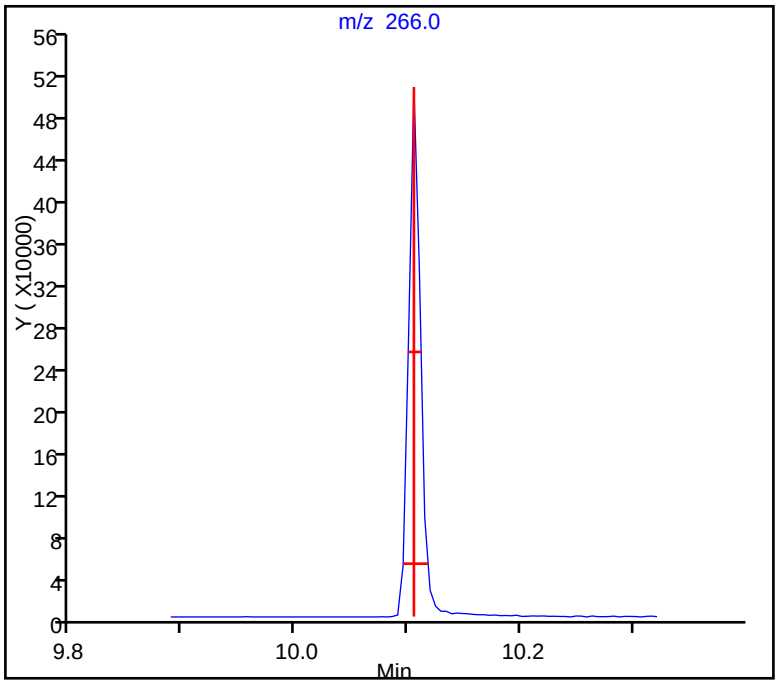
Data File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420001.D
Injection Date: 20-Apr-2015 08:28:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

143 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 22-Apr-2015 07:14:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-001
Misc. Info.: DFTPPDFTPP
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:36:59 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 07:35:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
143 Pentachlorophenol	266	10.081	10.081	0.000	89	707904	NR	NR	7
160 Benzidine	184	11.360	11.360	0.000	99	4085092	NR	NR	7
150 DFTPP									
166 4,4'-DDE	246	11.524	11.524	0.000	38	1419		NR	7
165 4,4'-DDD	235	11.812	11.812	0.000	95	26560		NR	7
170 4,4'-DDT	235	12.072	12.072	0.000	98	2114966	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

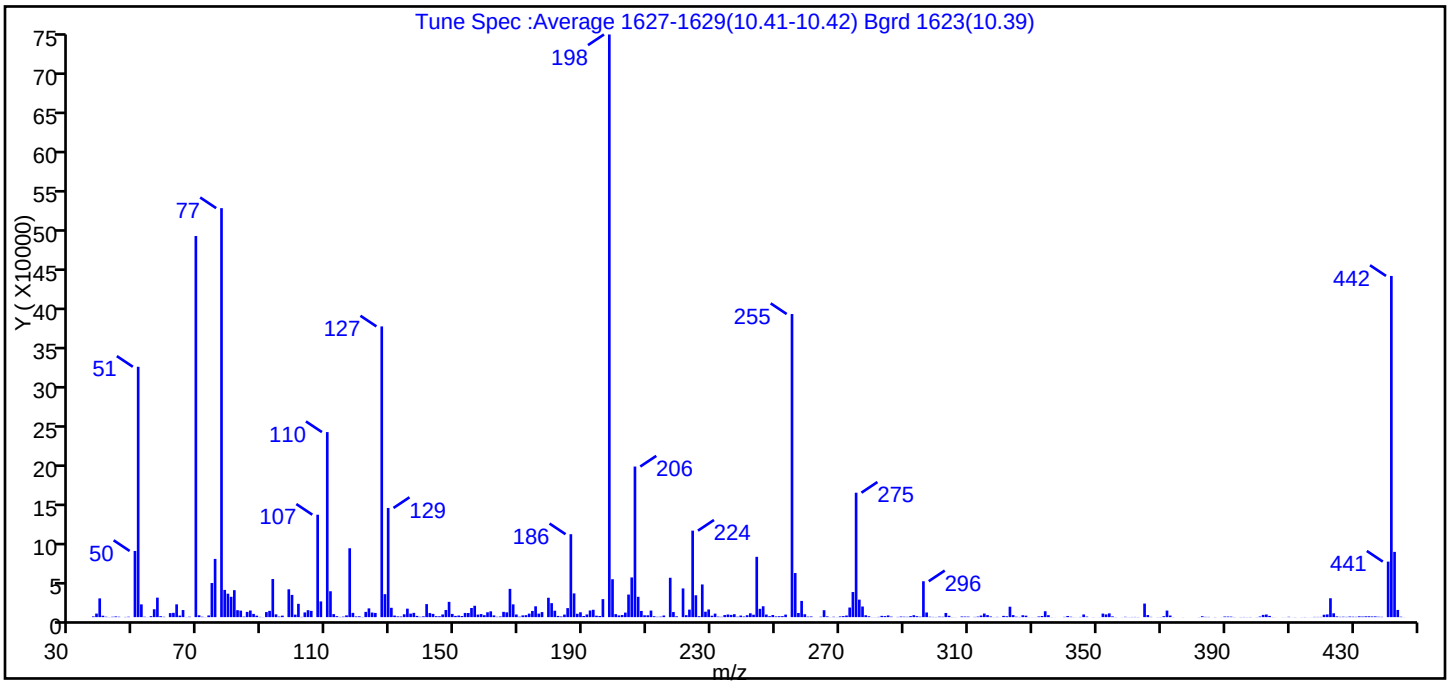
SMDFTPPW_00010 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D
Injection Date: 22-Apr-2015 07:14:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Tune Method: DFTPP Method CLP OLM4.2

150 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100 percent relative abundance	100
51	30.0 - 80.0 percent of mass 198	43.0
68	Less than 2.0 percent of mass 69	0.0 (0.0)
69	Present	65.4
70	Less than 2.0 percent of mass 69	0.3 (0.5)
127	25.0 - 75.0 percent of mass 198	49.9
197	Less than 1.0 percent of mass 198	0.0
199	5.0 - 9.0 percent of mass 198	6.5
275	10.0 - 30.0 percent of mass 198	21.4
365	Greater than 0.75 percent of mass 198	2.3
441	Present but less than mass 443	9.5 (85.1)
442	40.0 - 110.0 percent of mass 198	58.6
443	15.0 - 24.0 percent of mass 442	11.2 (19.1)

Report Date: 23-Apr-2015 09:37:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D\8270 _9.rslt\spectra.d
Injection Date: 22-Apr-2015 07:14:30
Spectrum: Tune Spec :Average 1627-1629(10.41-10.42) Bgrd 1623(10.39)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	29	138.00	1591	236.00	2853	334.00	7545
37.00	966	139.00	453	237.00	3772	335.00	2501
38.00	4555	140.00	1042	238.00	554	336.00	133
39.00	23944	141.00	16664	239.00	2013	337.00	69
40.00	1821	142.00	5186	240.00	799	340.00	357
41.00	538	143.00	4148	241.00	2455	341.00	1488
42.00	161	144.00	1215	242.00	4923	342.00	522
43.00	508	145.00	1138	243.00	3098	343.00	138
44.00	913	146.00	3428	244.00	77000	344.00	63
45.00	542	147.00	9128	245.00	10629	345.00	288
47.00	269	148.00	19520	246.00	13897	346.00	3410
48.00	539	149.00	4092	247.00	3313	347.00	692
50.00	84488	150.00	1603	248.00	1230	349.00	141
51.00	319616	151.00	2059	249.00	2752	350.00	50
52.00	16292	152.00	1442	250.00	881	351.00	85
53.00	514	153.00	5357	251.00	1184	352.00	4542
54.00	97	154.00	5273	252.00	1282	353.00	3499
55.00	1279	155.00	11671	253.00	3252	354.00	4810
56.00	10069	156.00	14517	255.00	386944	355.00	965
57.00	24896	157.00	3257	256.00	56288	356.00	161
58.00	1210	158.00	3957	257.00	5268	358.00	94
59.00	482	159.00	2481	258.00	20728	359.00	434
60.00	22	160.00	6189	259.00	3693	360.00	124
61.00	5142	161.00	7430	260.00	661	361.00	240
62.00	5496	162.00	2217	261.00	838	362.00	279
63.00	16365	163.00	455	262.00	50	363.00	206
64.00	1975	164.00	836	263.00	32	365.00	17344
65.00	9053	165.00	6748	264.00	538	366.00	2659
66.00	142	166.00	6127	265.00	8875	367.00	358
67.00	585	167.00	36104	266.00	956	369.00	133
69.00	486528	168.00	16320	267.00	103	370.00	191
70.00	2325	169.00	3390	268.00	495	371.00	1209
71.00	550	170.00	583	269.00	137	372.00	8401

Report Date: 23-Apr-2015 09:37:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D\8270 _9.rslt\spectra.d
Injection Date: 22-Apr-2015 07:14:30
Spectrum: Tune Spec :Average 1627-1629(10.41-10.42) Bgrd 1623(10.39)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	138	171.00	2241	270.00	900	373.00	2036
73.00	2172	172.00	2513	271.00	1333	374.00	141
74.00	43568	173.00	4459	272.00	2060	377.00	102
75.00	74360	174.00	7895	273.00	12278	382.00	156
77.00	522112	175.00	13846	274.00	32056	383.00	1157
78.00	34760	176.00	4480	275.00	158848	384.00	381
79.00	29936	177.00	6478	276.00	22336	385.00	317
80.00	25960	179.00	24760	277.00	13559	387.00	196
81.00	34440	180.00	17848	278.00	2395	389.00	79
82.00	8911	181.00	8215	279.00	1108	390.00	790
83.00	8296	182.00	1568	280.00	154	391.00	763
84.00	692	183.00	859	281.00	157	392.00	677
85.00	6700	184.00	3259	282.00	345	393.00	219
86.00	8459	185.00	11550	283.00	1633	395.00	199
87.00	4141	186.00	105880	284.00	1345	396.00	248
88.00	1888	187.00	30304	285.00	2174	397.00	156
89.00	357	188.00	4312	286.00	648	398.00	233
90.00	130	189.00	6237	288.00	310	400.00	158
91.00	6473	190.00	1473	289.00	782	401.00	799
92.00	8039	191.00	3447	290.00	567	402.00	2892
93.00	48656	192.00	8498	291.00	414	403.00	3406
94.00	3548	193.00	9411	292.00	1288	404.00	1592
95.00	743	194.00	1865	293.00	2475	405.00	178
96.00	1922	195.00	1448	294.00	1216	406.00	56
98.00	35552	196.00	22992	295.00	559	408.00	92
99.00	28384	198.00	743808	296.00	45840	409.00	89
100.00	3187	199.00	48408	297.00	5956	410.00	451
101.00	17000	200.00	3837	298.00	523	411.00	54
102.00	312	201.00	2192	299.00	302	412.00	172
103.00	6032	202.00	2679	300.00	228	414.00	109
104.00	8882	203.00	5802	301.00	625	415.00	215
105.00	8013	204.00	28840	302.00	478	416.00	67
107.00	130752	205.00	50664	303.00	5336	417.00	77
108.00	20072	206.00	192256	304.00	1734	418.00	321

Report Date: 23-Apr-2015 09:37:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D\8270 _9.rslt\spectra.d
Injection Date: 22-Apr-2015 07:14:30
Spectrum: Tune Spec :Average 1627-1629(10.41-10.42) Bgrd 1623(10.39)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	236224	207.00	25960	305.00	169	419.00	290
111.00	33064	208.00	7929	306.00	121	420.00	306
112.00	3861	209.00	2383	308.00	827	421.00	3078
113.00	1239	210.00	2352	309.00	741	422.00	3495
114.00	293	211.00	8387	310.00	667	423.00	24128
115.00	685	212.00	1158	312.00	317	424.00	4903
116.00	2273	213.00	442	313.00	717	425.00	923
117.00	87960	214.00	641	314.00	2028	426.00	403
118.00	5443	215.00	2073	315.00	4607	427.00	552
119.00	893	217.00	50272	316.00	2600	428.00	348
120.00	1096	218.00	6511	317.00	830	429.00	769
121.00	214	219.00	1057	318.00	133	430.00	571
122.00	6702	221.00	36656	319.00	340	431.00	427
123.00	11194	222.00	2509	320.00	74	432.00	1039
124.00	5875	223.00	9604	321.00	1610	433.00	764
125.00	5380	224.00	110416	322.00	1109	434.00	1041
127.00	371136	225.00	27944	323.00	13306	435.00	1103
128.00	29328	226.00	1185	324.00	2578	436.00	851
129.00	139392	227.00	41728	325.00	569	437.00	947
130.00	11930	228.00	6933	326.00	251	438.00	539
131.00	2023	229.00	9817	327.00	2421	439.00	422
132.00	971	230.00	1834	328.00	1881	441.00	70880
133.00	827	231.00	4510	329.00	111	442.00	435584
134.00	3616	232.00	696	330.00	122	443.00	83296
135.00	10846	233.00	435	331.00	73	444.00	9196
136.00	4501	234.00	2660	332.00	839	445.00	546
137.00	5482	235.00	3382	333.00	1417	446.00	92

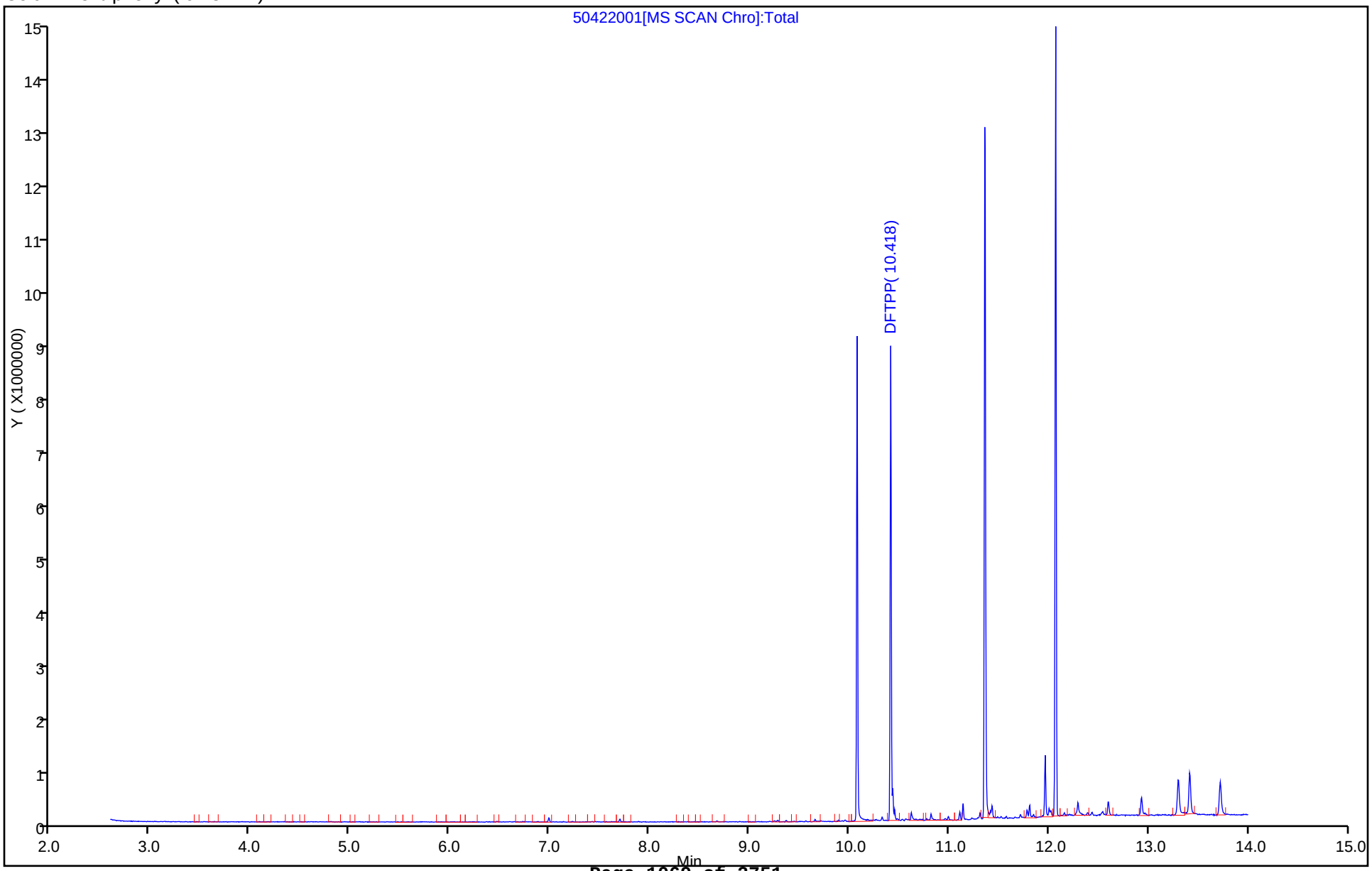
Report Date: 23-Apr-2015 09:37:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D

Injection Date:	22-Apr-2015 07:14:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)

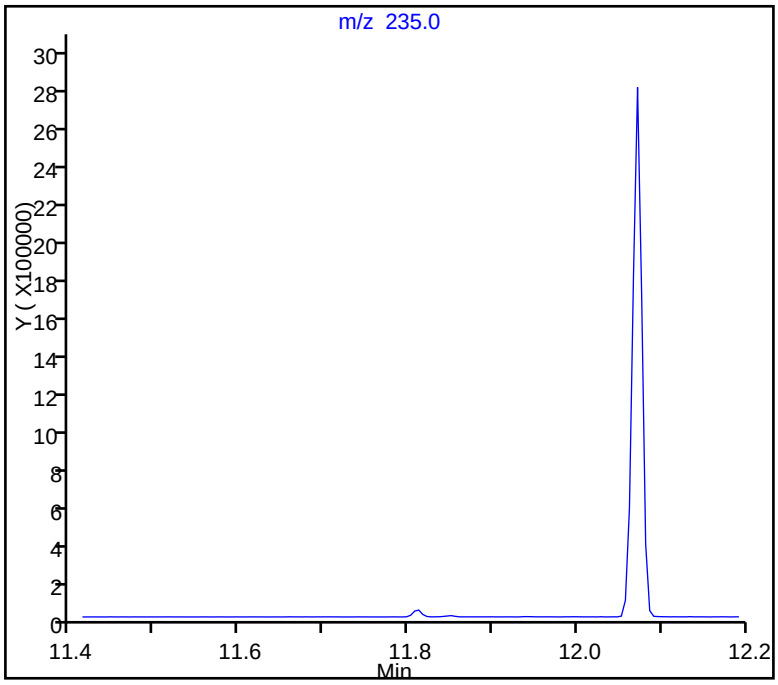


Breakdown Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D
Injection Date: 22-Apr-2015 07:14:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

170 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

170 4,4'-DDT, Area = 2114966
165 4,4'-DDD, Area = 26560
166 4,4'-DDE, Area = 1419

%Breakdown: 1.31%, Max Limit: 20.00%
Passed

Report Date: 23-Apr-2015 09:37:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

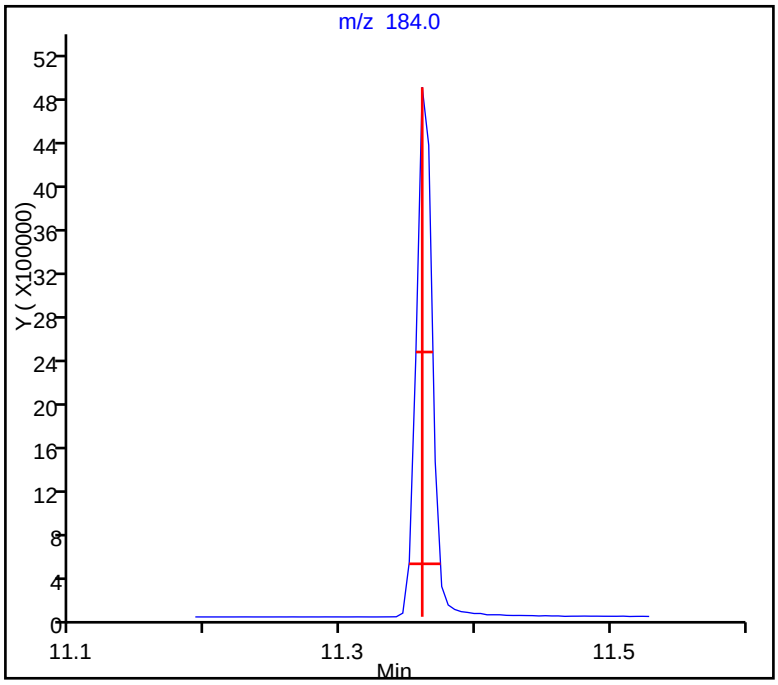
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D
Injection Date: 22-Apr-2015 07:14:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

160 Benzidine, Detector: MS SCAN

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

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



Report Date: 23-Apr-2015 09:37:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Peak Tailing Report

TestAmerica Canton

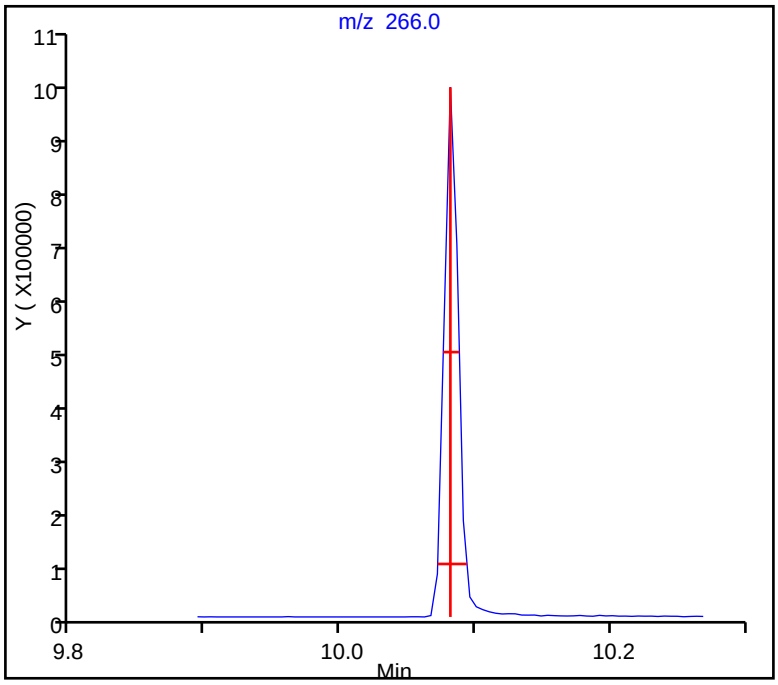
Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422001.D
Injection Date: 22-Apr-2015 07:14:30 Instrument ID: A4HP9
Lims ID: dftpp
Client ID:
Operator ID: 001574 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

143 Pentachlorophenol, Detector: MS SCAN

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

Back Width = 0.012 (min.)
Front Width = 0.009 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-176319/23-A

Matrix: Solid | Lab File ID: 50422006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 09:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	3.3	U	6.7	3.3	0.76
208-96-8	Acenaphthylene	1.7	U	6.7	1.7	0.35
120-12-7	Anthracene	3.3	U	6.7	3.3	0.78
56-55-3	Benzo[a]anthracene	3.3	U	6.7	3.3	0.63
50-32-8	Benzo[a]pyrene	3.3	U	6.7	3.3	0.64
205-99-2	Benzo[b]fluoranthene	3.3	U	6.7	3.3	0.59
191-24-2	Benzo[g,h,i]perylene	1.7	U	6.7	1.7	0.35
65-85-0	Benzoic acid	130	U	660	130	36
207-08-9	Benzo[k]fluoranthene	3.3	U	6.7	3.3	0.68
100-51-6	Benzyl alcohol	67	U	330	67	21
111-91-1	Bis(2-chloroethoxy)methane	67	U	100	67	22
111-44-4	Bis(2-chloroethyl)ether	3.3	U	100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	33	U	100	33	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	33	U	70	33	19
101-55-3	4-Bromophenyl phenyl ether	33	U	50	33	13
85-68-7	Butyl benzyl phthalate	12.3	J	70	33	10
86-74-8	Carbazole	33	U	50	33	27
106-47-8	4-Chloroaniline	67	U	150	67	17
59-50-7	4-Chloro-3-methylphenol	67	U	150	67	21
91-58-7	2-Chloronaphthalene	1.7	U	50	1.7	0.45
95-57-8	2-Chlorophenol	33	U	50	33	8.2
7005-72-3	4-Chlorophenyl phenyl ether	33	U	50	33	13
218-01-9	Chrysene	3.3	U	6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	3.3	U	6.7	3.3	0.66
132-64-9	Dibenzofuran	3.3	U	50	3.3	0.66
95-50-1	1,2-Dichlorobenzene	33	U	50	33	9.7
541-73-1	1,3-Dichlorobenzene	33	U	50	33	11
106-46-7	1,4-Dichlorobenzene	33	U	50	33	20
91-94-1	3,3'-Dichlorobenzidine	67	U	100	67	18
120-83-2	2,4-Dichlorophenol	67	U	150	67	20
84-66-2	Diethyl phthalate	33	U	70	33	16
105-67-9	2,4-Dimethylphenol	67	U	150	67	20
131-11-3	Dimethyl phthalate	33	U	70	33	17
84-74-2	Di-n-butyl phthalate	33	U	70	33	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-176319/23-A

Matrix: Solid | Lab File ID: 50422006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 09:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	33	U	150	33	9.2
51-28-5	2,4-Dinitrophenol	67	U	330	67	21
121-14-2	2,4-Dinitrotoluene	67	U	200	67	17
606-20-2	2,6-Dinitrotoluene	67	U	200	67	21
117-84-0	Di-n-octyl phthalate	33	U	70	33	7.9
206-44-0	Fluoranthene	3.3	U	6.7	3.3	0.55
86-73-7	Fluorene	3.3	U	6.7	3.3	0.53
118-74-1	Hexachlorobenzene	3.3	U	6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	33	U	50	33	5.6
77-47-4	Hexachlorocyclopentadiene	33	U	330	33	8.1
67-72-1	Hexachloroethane	33	U	50	33	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	1.7	U	6.7	1.7	0.35
78-59-1	Isophorone	33	U	50	33	13
91-57-6	2-Methylnaphthalene	3.3	U	6.7	3.3	0.50
95-48-7	2-Methylphenol	67	U	200	67	11
15831-10-4	3 & 4 Methylphenol	67	U	400	67	20
91-20-3	Naphthalene	3.3	U	6.7	3.3	0.82
88-74-4	2-Nitroaniline	33	U	200	33	9.1
99-09-2	3-Nitroaniline	67	U	200	67	16
100-01-6	4-Nitroaniline	67	U	200	67	26
98-95-3	Nitrobenzene	3.3	U	100	3.3	2.2
88-75-5	2-Nitrophenol	33	U	50	33	8.3
100-02-7	4-Nitrophenol	67	U	330	67	17
621-64-7	N-Nitrosodi-n-propylamine	33	U	50	33	6.3
86-30-6	N-Nitrosodiphenylamine	33	U	50	33	21
87-86-5	Pentachlorophenol	33	U	150	33	9.1
85-01-8	Phenanthrene	3.3	U	6.7	3.3	0.73
108-95-2	Phenol	33	U	50	33	7.3
129-00-0	Pyrene	1.7	U	6.7	1.7	0.44
120-82-1	1,2,4-Trichlorobenzene	17	U	50	17	3.5
95-95-4	2,4,5-Trichlorophenol	67	U	150	67	25
88-06-2	2,4,6-Trichlorophenol	33	U	150	33	8.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-176319/23-A

Matrix: Solid | Lab File ID: 50422006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 09:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		45-105
367-12-4	2-Fluorophenol (Surr)	67		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	68		35-100
4165-62-2	Phenol-d5 (Surr)	76		40-100
1718-51-0	Terphenyl-d14 (Surr)	75		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	36		35-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422006.D
Lims ID: MB 240-176319/23-A
Client ID:
Sample Type: MB
Inject. Date: 22-Apr-2015 09:19:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-006
Misc. Info.: MB 240-176319/23-AMB 240-176319/23-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 09:45:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.359	6.359	0.000	95	143068	4.00	4.00	
* 2 Naphthalene-d8	136	7.475	7.475	0.000	99	572933	4.00	4.00	
* 3 Acenaphthene-d10	164	8.980	8.980	0.000	93	341331	4.00	4.00	
* 4 Phenanthrene-d10	188	10.249	10.254	-0.005	98	623285	4.00	4.00	
* 5 Chrysene-d12	240	12.548	12.548	0.000	97	714118	4.00	4.00	
* 6 Perylene-d12	264	14.318	14.318	0.000	98	592034	4.00	4.00	
$ 7 2-Fluorophenol	112	5.152	5.133	0.019	95	355270	10.0	6.75	
$ 8 Phenol-d5	99	5.998	5.994	0.004	96	601587	10.0	7.64	
$ 9 Nitrobenzene-d5	82	6.835	6.835	0.000	85	704449	10.0	6.76	
$ 10 2-Fluorobiphenyl (Surr)	172	8.379	8.379	0.000	98	856608	10.0	7.46	
$ 11 2,4,6-Tribromophenol	330	9.648	9.653	-0.005	82	45567	10.0	3.61	
$ 12 Terphenyl-d14	244	11.577	11.577	0.000	99	1089432	10.0	7.50	
25 1,4-Dioxane	88		2.993					ND	
26 N-Nitrosodimethylamine	74		3.493					ND	
27 Pyridine	79		3.556					ND	
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77		5.960					ND	
43 Phenol	94		6.003					ND	
44 Aniline	93		6.051					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93		6.095					ND	
45 Pentachloroethane	167		6.122					ND	
46 2-Chlorophenol	128		6.172					ND	
243 n-Decane	57		6.201					ND	
47 1,3-Dichlorobenzene	146		6.311					ND	
48 1,4-Dichlorobenzene	146		6.374					ND	
49 Benzyl alcohol	108		6.455					ND	
232 1-Methyl-2-pyrrilidinone	99		6.462					ND	
50 1,2-Dichlorobenzene	146		6.513					ND	
51 2-Methylphenol	108		6.542					ND	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
53 2,2'-oxybis[1-chloropropan	45		6.576					ND	
52 Indene	115		6.590					ND	
21 3 & 4 Methylphenol	108		6.672					ND	
56 N-Nitrosopyrrolidine	100		6.675					ND	
57 N-Nitrosodi-n-propylamine	70		6.686					ND	
58 Acetophenone	105		6.696					ND	
59 N-Nitrosomorpholine	56		6.704					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
60 2-Toluidine	106		6.742					ND	
61 Hexachloroethane	117		6.821					ND	
62 Nitrobenzene	77		6.850					ND	
63 N-Nitrosopiperidine	114		6.987					ND	
64 Isophorone	82		7.052					ND	
66 2-Nitrophenol	139		7.129					ND	
65 2,4-Dimethylphenol	107		7.138					ND	
67 1,3,5-Trichlorobenzene	180		7.160					ND	
71 Benzoic acid	122		7.196					ND	
68 o,o',o''-Triethylphosphoro	198		7.199					ND	
70 Bis(2-chloroethoxy)methane	93		7.215					ND	
72 alpha,alpha-Dimethyl phene	58		7.314					ND	
73 2,4-Dichlorophenol	162		7.335					ND	
74 1,2,4-Trichlorobenzene	180		7.417					ND	
75 Naphthalene	128		7.494					ND	
76 4-Chloroaniline	127		7.513					ND	
77 2,6-Dichlorophenol	162		7.533					ND	
78 Hexachloropropene	213		7.589					ND	
79 Hexachlorobutadiene	225		7.595					ND	
80 1,2,3-Trichlorobenzene	180		7.626					ND	
81 Benzothiazole	135		7.718					ND	
82 Quinoline	129		7.781					ND	
83 N-Nitrosodi-n-butylamine	84		7.795					ND	
84 Caprolactam	113	7.782	7.797	-0.015	79	3866		0.2156	
85 p-Phenylene diamine	108		7.815					ND	
86 4-Chloro-3-methylphenol	107		7.908					ND	
94 Safrole, Total	162		7.992					ND	
87 2-Methylnaphthalene	142		8.081					ND	
88 1-Methylnaphthalene	142		8.172					ND	
89 Hexachlorocyclopentadiene	237		8.225					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.230					ND	
90 1,2,3,5-Tetrachlorobenzene	216		8.232					ND	
225 Isosafrole Peak 1	162		8.243					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196		8.312					ND	
93 2,4,5-Trichlorophenol	196		8.345					ND	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154		8.470					ND	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162		8.504					ND	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65		8.562					ND	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163		8.696					ND	
106 1,3-Dinitrobenzene	168		8.730					ND	
107 2,6-Dinitrotoluene	165		8.754					ND	
109 Acenaphthylene	152		8.865					ND	
110 3-Nitroaniline	138		8.908					ND	
111 2,4-Dinitrophenol	184		8.994					ND	
112 Acenaphthene	153		9.009					ND	
113 4-Nitrophenol	109		9.018					ND	
114 2,4-Dinitrotoluene	165		9.105					ND	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168		9.153					ND	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232		9.249					ND	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149		9.293					ND	
247 Hexadecane	57		9.297					ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204		9.422					ND	
125 4-Nitroaniline	138		9.432					ND	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166		9.446					ND	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198		9.461					ND	
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169		9.514					ND	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77		9.557					ND	
133 Azobenzene	77		9.557					ND	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248		9.841					ND	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284		9.932					ND	
142 Atrazine	200		9.942					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076					ND	
143 Pentachlorophenol	266		10.081					ND	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178		10.274					ND	
149 Anthracene	178		10.317					ND	
151 Carbazole	167		10.432					ND	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149	10.672	10.673	-0.001	99	23721		0.1296	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202		11.293					ND	
160 Benzidine	184		11.365					ND	
161 Pyrene	202		11.495					ND	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149	11.952	11.957	-0.005	88	16758		0.1843	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.437	12.438	-0.001	94	33021		0.2736	
175 3,3'-Dichlorobenzidine	252		12.471					ND	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228		12.539					ND	
178 Chrysene	228		12.577					ND	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149		13.096					ND	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252		13.765					ND	
183 Benzo[k]fluoranthene	252		13.803					ND	
184 Benzo[a]pyrene	252		14.241					ND	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276		16.246					ND	
189 Dibenz(a,h)anthracene	278		16.261					ND	
190 Benzo[g,h,i]perylene	276		16.847					ND	
268 Endrin	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
258 Aldrin	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100		0.000					ND	
S 245 Total Cresols	100		0.000					ND	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110		5.000					ND	
T 194 Decane TIC	142		5.800					ND	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121		7.250					ND	
T 235 4-isopropylphenol TIC	121		7.364					ND	
T 236 3-isopropylphenol TIC	121		7.364					ND	
T 237 3-(1,1-Dimethylethyl Pheno	135		7.720					ND	
T 231 2,3,7,8-TCDD	322		8.240					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 195 Hydroquinone TIC	110		9.000					ND	
T 192 Octadecane (TIC)	254		9.600					ND	
T 196 Kepone TIC	272		12.000					ND	
T 242 Triphenyl Phosphate TIC	326		12.000					ND	
T 280 2,3,7,8-TCDD TIC	198		12.500					ND	
T 241 Tricresyl phosphate TIC	368		12.500					ND	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201		14.000					ND	

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

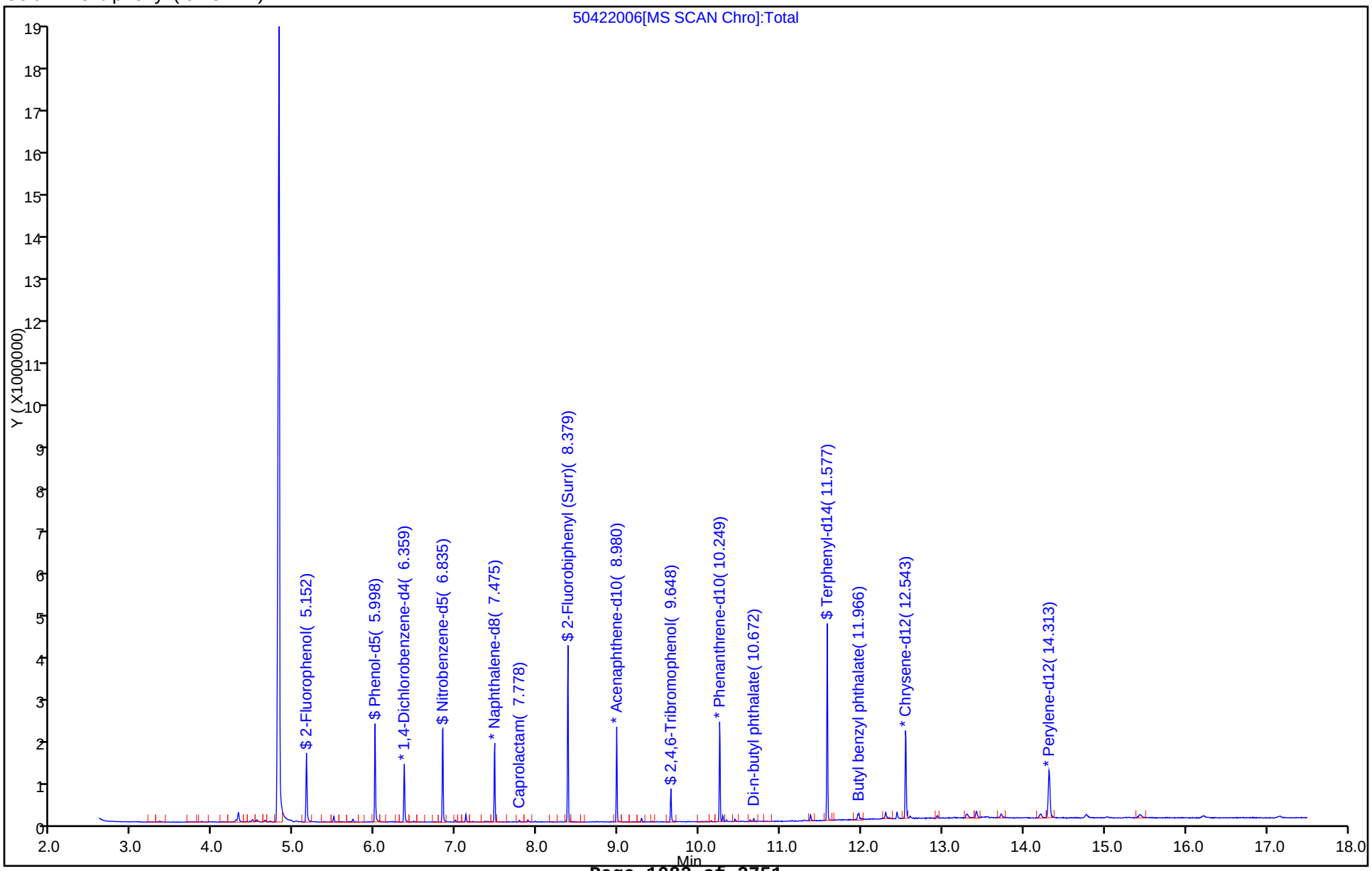
Report Date: 23-Apr-2015 09:37:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422006.D

Injection Date:	22-Apr-2015 09:19:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	MB 240-176319/23-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Report Date: 23-Apr-2015 09:37:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422006.D

Injection Date: 22-Apr-2015 09:19:30 Instrument ID: A4HP9

Lims ID: MB 240-176319/23-A

Client ID:

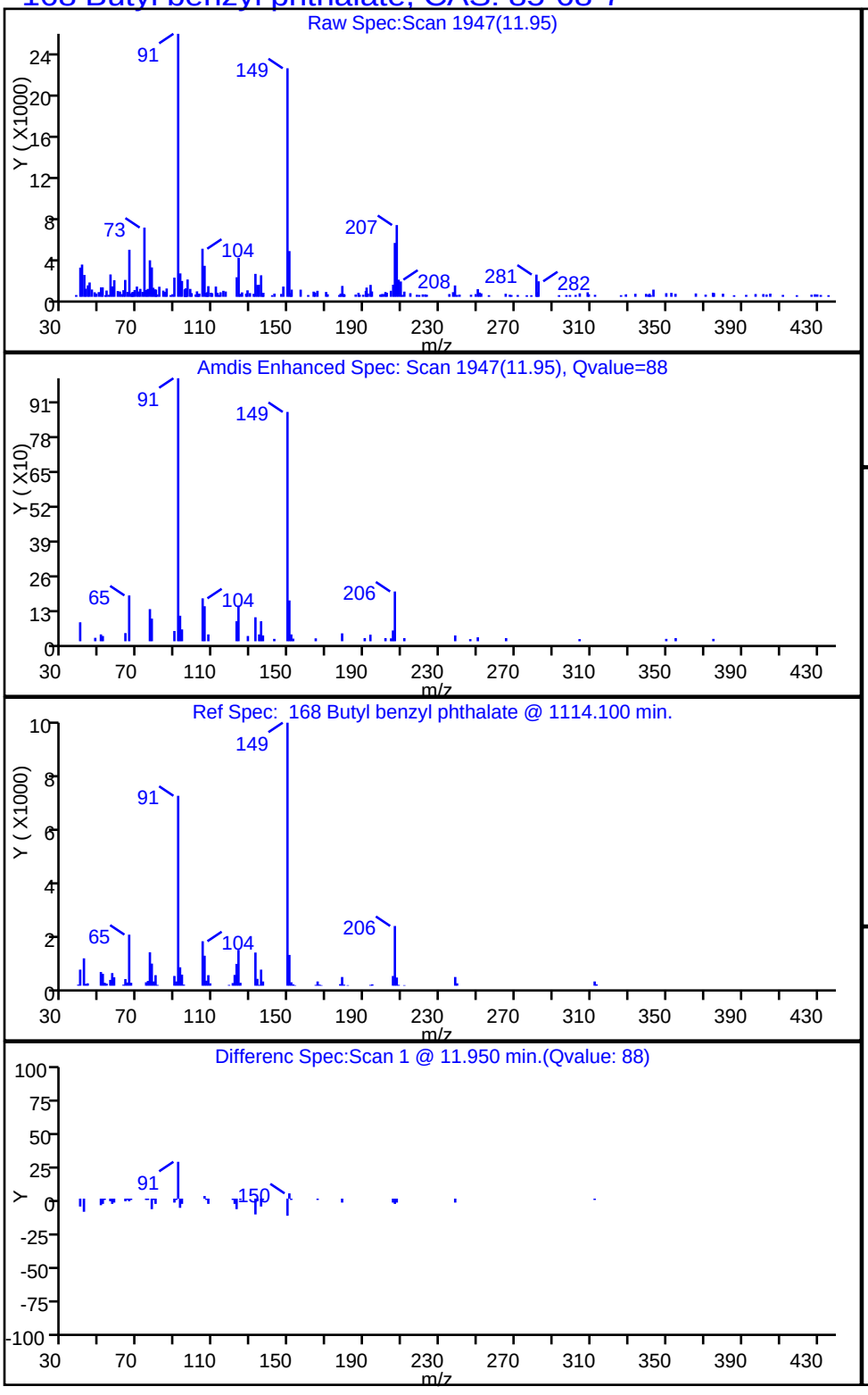
Operator ID: 001574 ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL

Column: 5% phenyl (0.18 mm) Detector MS SCAN

168 Butyl benzyl phthalate, CAS: 85-68-7



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-176319/24-A

Matrix: Solid | Lab File ID: 50422007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 09:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	540		6.7	3.3	0.76
208-96-8	Acenaphthylene	526		6.7	1.7	0.35
120-12-7	Anthracene	584		6.7	3.3	0.78
56-55-3	Benzo[a]anthracene	580		6.7	3.3	0.63
50-32-8	Benzo[a]pyrene	592		6.7	3.3	0.64
205-99-2	Benzo[b]fluoranthene	588		6.7	3.3	0.59
191-24-2	Benzo[g,h,i]perylene	586		6.7	1.7	0.35
65-85-0	Benzoic acid	172	J	660	130	36
207-08-9	Benzo[k]fluoranthene	600		6.7	3.3	0.68
100-51-6	Benzyl alcohol	518		330	67	21
111-91-1	Bis(2-chloroethoxy)methane	562		100	67	22
111-44-4	Bis(2-chloroethyl)ether	525		100	3.3	2.0
108-60-1	bis (2-chloroisopropyl) ether	612		100	33	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	610		70	33	19
101-55-3	4-Bromophenyl phenyl ether	613		50	33	13
85-68-7	Butyl benzyl phthalate	577		70	33	10
86-74-8	Carbazole	625		50	33	27
106-47-8	4-Chloroaniline	439		150	67	17
59-50-7	4-Chloro-3-methylphenol	566		150	67	21
91-58-7	2-Chloronaphthalene	526		50	1.7	0.45
95-57-8	2-Chlorophenol	529		50	33	8.2
7005-72-3	4-Chlorophenyl phenyl ether	548		50	33	13
218-01-9	Chrysene	613		6.7	3.3	1.1
53-70-3	Dibenz(a,h)anthracene	587		6.7	3.3	0.66
132-64-9	Dibenzofuran	550		50	3.3	0.66
95-50-1	1,2-Dichlorobenzene	503		50	33	9.7
541-73-1	1,3-Dichlorobenzene	492		50	33	11
106-46-7	1,4-Dichlorobenzene	477		50	33	20
91-94-1	3,3'-Dichlorobenzidine	976		100	67	18
120-83-2	2,4-Dichlorophenol	537		150	67	20
84-66-2	Diethyl phthalate	550		70	33	16
105-67-9	2,4-Dimethylphenol	375		150	67	20
131-11-3	Dimethyl phthalate	574		70	33	17
84-74-2	Di-n-butyl phthalate	650		70	33	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-176319/24-A

Matrix: Solid | Lab File ID: 50422007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 09:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	798		150	33	9.2
51-28-5	2,4-Dinitrophenol	472		330	67	21
121-14-2	2,4-Dinitrotoluene	572		200	67	17
606-20-2	2,6-Dinitrotoluene	563		200	67	21
117-84-0	Di-n-octyl phthalate	588		70	33	7.9
206-44-0	Fluoranthene	633		6.7	3.3	0.55
86-73-7	Fluorene	539		6.7	3.3	0.53
118-74-1	Hexachlorobenzene	567		6.7	3.3	2.1
87-68-3	Hexachlorobutadiene	465		50	33	5.6
77-47-4	Hexachlorocyclopentadiene	296	J	330	33	8.1
67-72-1	Hexachloroethane	483		50	33	9.0
193-39-5	Indeno[1,2,3-cd]pyrene	602		6.7	1.7	0.35
78-59-1	Isophorone	526		50	33	13
91-57-6	2-Methylnaphthalene	500		6.7	3.3	0.50
95-48-7	2-Methylphenol	531		200	67	11
15831-10-4	3 & 4 Methylphenol	549		400	67	20
91-20-3	Naphthalene	514		6.7	3.3	0.82
88-74-4	2-Nitroaniline	587		200	33	9.1
99-09-2	3-Nitroaniline	572		200	67	16
100-01-6	4-Nitroaniline	575		200	67	26
98-95-3	Nitrobenzene	515		100	3.3	2.2
88-75-5	2-Nitrophenol	497		50	33	8.3
100-02-7	4-Nitrophenol	1040		330	67	17
621-64-7	N-Nitrosodi-n-propylamine	539		50	33	6.3
86-30-6	N-Nitrosodiphenylamine	1230		50	33	21
87-86-5	Pentachlorophenol	770		150	33	9.1
85-01-8	Phenanthrene	568		6.7	3.3	0.73
108-95-2	Phenol	551		50	33	7.3
129-00-0	Pyrene	592		6.7	1.7	0.44
120-82-1	1,2,4-Trichlorobenzene	497		50	17	3.5
95-95-4	2,4,5-Trichlorophenol	497		150	67	25
88-06-2	2,4,6-Trichlorophenol	442		150	33	8.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-176319/24-A

Matrix: Solid | Lab File ID: 50422007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3540C | Date Extracted: 04/14/2015 08:47

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 09:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	76		45-105
367-12-4	2-Fluorophenol (Surr)	81		35-105
4165-60-0	Nitrobenzene-d5 (Surr)	74		35-100
4165-62-2	Phenol-d5 (Surr)	81		40-100
1718-51-0	Terphenyl-d14 (Surr)	83		30-125
118-79-6	2,4,6-Tribromophenol (Surr)	63		35-125

Report Date: 23-Apr-2015 09:37:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422007.D
Lims ID: LCS 240-176319/24-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Apr-2015 09:44:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-007
Misc. Info.: LCS 240-176319/24-ALCS 240-176319/24-A
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 09:37:02 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 22-Apr-2015 10:09:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.357	6.359	-0.002	87	140444	4.00	4.00	
* 2 Naphthalene-d8	136	7.473	7.475	-0.002	98	538696	4.00	4.00	
* 3 Acenaphthene-d10	164	8.983	8.980	0.003	77	324458	4.00	4.00	
* 4 Phenanthrene-d10	188	10.252	10.254	-0.002	91	527692	4.00	4.00	
* 5 Chrysene-d12	240	12.546	12.548	-0.002	80	660843	4.00	4.00	
* 6 Perylene-d12	264	14.315	14.318	-0.003	94	555076	4.00	4.00	
$ 7 2-Fluorophenol	112	5.150	5.133	0.017	93	421074	10.0	8.14	
$ 8 Phenol-d5	99	6.001	5.994	0.007	88	623391	10.0	8.06	
$ 9 Nitrobenzene-d5	82	6.833	6.835	-0.002	83	727907	10.0	7.42	
$ 10 2-Fluorobiphenyl (Surr)	172	8.377	8.379	-0.002	96	830534	10.0	7.61	
$ 11 2,4,6-Tribromophenol	330	9.651	9.653	-0.002	87	76178	10.0	6.34	
$ 12 Terphenyl-d14	244	11.574	11.577	-0.003	96	1113187	10.0	8.28	
25 1,4-Dioxane	88	2.996	2.993	0.003	91	114460	10.0	3.84	M
26 N-Nitrosodimethylamine	74	3.500	3.493	0.007	90	357726	10.0	7.19	
27 Pyridine	79	3.563	3.556	0.007	88	451735	10.0	5.64	
41 Benzaldehyde	77	5.958	5.960	-0.002	83	987508	20.0	16.8	
43 Phenol	94	6.011	6.003	0.008	92	692432	10.0	8.26	
44 Aniline	93	6.054	6.051	0.003	94	676787	10.0	6.50	
69 Bis(2-chloroethyl)ether	93	6.092	6.095	-0.003	89	553161	10.0	7.87	
46 2-Chlorophenol	128	6.174	6.172	0.002	88	389524	10.0	7.94	
243 n-Decane	57	6.203	6.201	0.002	98	437250	NC	NC	
47 1,3-Dichlorobenzene	146	6.314	6.311	0.003	82	391367	10.0	7.37	
48 1,4-Dichlorobenzene	146	6.376	6.374	0.002	86	385419	10.0	7.16	
49 Benzyl alcohol	108	6.458	6.455	0.003	84	307567	10.0	7.78	
50 1,2-Dichlorobenzene	146	6.516	6.513	0.003	77	378688	10.0	7.54	
51 2-Methylphenol	108	6.549	6.542	0.007	92	434238	10.0	7.96	
53 2,2'-oxybis[1-chloropropan	45	6.578	6.576	0.002	98	528035	10.0	9.18	
52 Indene	115	6.593	6.590	0.003	72	1439284	20.0	14.5	
21 3 & 4 Methylphenol	108	6.674	6.672	0.002	95	475457	10.0	8.23	
57 N-Nitrosodi-n-propylamine	70	6.684	6.686	-0.002	96	488064	10.0	8.08	
58 Acetophenone	105	6.694	6.696	-0.002	83	655028	10.0	7.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
61 Hexachloroethane	117	6.823	6.821	0.002	93	185184	10.0	7.24	
62 Nitrobenzene	77	6.852	6.850	0.002	71	699899	10.0	7.73	
64 Isophorone	82	7.049	7.052	-0.003	94	1206843	10.0	7.89	
66 2-Nitrophenol	139	7.131	7.129	0.002	74	186596	10.0	7.46	
65 2,4-Dimethylphenol	107	7.136	7.138	-0.002	92	372758	10.0	5.62	
71 Benzoic acid	122	7.203	7.196	0.007	82	36767	20.0	2.57	
70 Bis(2-chloroethoxy)methane	93	7.213	7.215	-0.002	96	649400	10.0	8.44	
73 2,4-Dichlorophenol	162	7.338	7.335	0.003	90	321906	10.0	8.05	
74 1,2,4-Trichlorobenzene	180	7.420	7.417	0.003	87	328221	10.0	7.45	
75 Naphthalene	128	7.492	7.494	-0.002	97	1109855	10.0	7.71	
76 4-Chloroaniline	127	7.511	7.513	-0.002	33	413738	10.0	6.58	
79 Hexachlorobutadiene	225	7.598	7.595	0.003	90	206666	10.0	6.97	
84 Caprolactam	113	7.785	7.797	-0.012	78	322428	20.0	19.1	
86 4-Chloro-3-methylphenol	107	7.905	7.908	-0.003	78	477353	10.0	8.49	
87 2-Methylnaphthalene	142	8.083	8.081	0.002	83	709374	10.0	7.50	
88 1-Methylnaphthalene	142	8.170	8.172	-0.002	77	661298	10.0	8.25	
89 Hexachlorocyclopentadiene	237	8.223	8.225	-0.002	86	134580	10.0	4.44	
91 1,2,4,5-Tetrachlorobenzene	216	8.228	8.230	-0.002	92	351835	10.0	7.52	
92 2,4,6-Trichlorophenol	196	8.309	8.312	-0.003	86	206552	10.0	6.62	
93 2,4,5-Trichlorophenol	196	8.348	8.345	0.003	91	242537	10.0	7.45	
98 1,1'-Biphenyl	154	8.468	8.470	-0.002	97	873253	10.0	7.67	
100 2-Chloronaphthalene	162	8.502	8.504	-0.002	97	710594	10.0	7.89	
102 2-Nitroaniline	65	8.564	8.562	0.002	70	401917	10.0	8.80	
105 Dimethyl phthalate	163	8.694	8.696	-0.002	92	872060	10.0	8.61	
106 1,3-Dinitrobenzene	168	8.728	8.730	-0.002	78	137666	10.0	8.48	
107 2,6-Dinitrotoluene	165	8.752	8.754	-0.002	57	200401	10.0	8.45	
109 Acenaphthylene	152	8.862	8.865	-0.003	87	1097149	10.0	7.89	
110 3-Nitroaniline	138	8.906	8.908	-0.002	80	202756	10.0	8.58	
111 2,4-Dinitrophenol	184	8.992	8.994	-0.002	97	86665	20.0	7.08	
112 Acenaphthene	153	9.007	9.009	-0.002	95	733411	10.0	8.10	
113 4-Nitrophenol	109	9.016	9.018	-0.002	79	348877	20.0	15.5	
114 2,4-Dinitrotoluene	165	9.103	9.105	-0.002	73	265962	10.0	8.59	
116 Dibenzofuran	168	9.151	9.153	-0.002	82	1015612	10.0	8.24	
119 2,3,4,6-Tetrachlorophenol	232	9.247	9.249	-0.002	75	154350	10.0	5.89	
121 Diethyl phthalate	149	9.290	9.293	-0.003	94	842738	10.0	8.25	
247 Hexadecane	57	9.295	9.297	-0.002	97	673888	NC	NC	
123 4-Chlorophenyl phenyl ethe	204	9.420	9.422	-0.002	92	431540	10.0	8.22	
125 4-Nitroaniline	138	9.430	9.432	-0.002	76	197387	10.0	8.62	
126 Fluorene	166	9.444	9.446	-0.002	96	836008	10.0	8.09	
128 4,6-Dinitro-2-methylphenol	198	9.459	9.461	-0.002	92	220271	20.0	12.0	
131 N-Nitrosodiphenylamine	169	9.511	9.514	-0.003	98	1306280	20.0	18.4	
132 1,2-Diphenylhydrazine	77	9.555	9.557	-0.002	99	1530139	10.0	10.4	
133 Azobenzene	77	9.555	9.557	-0.002	94	1530478	10.0	10.4	
139 4-Bromophenyl phenyl ether	248	9.838	9.841	-0.003	69	248492	10.0	9.19	
141 Hexachlorobenzene	284	9.930	9.932	-0.002	73	226209	10.0	8.50	
142 Atrazine	200	9.939	9.942	-0.003	86	471051	20.0	17.3	
244 n-Octadecane	57	10.074	10.076	-0.002	86	689495	NC	NC	
143 Pentachlorophenol	266	10.079	10.081	-0.002	73	213456	20.0	11.5	
148 Phenanthrene	178	10.271	10.274	-0.003	87	1179489	10.0	8.51	
149 Anthracene	178	10.315	10.317	-0.002	87	1213822	10.0	8.76	
151 Carbazole	167	10.430	10.432	-0.002	81	1159785	10.0	9.37	
154 Di-n-butyl phthalate	149	10.670	10.673	-0.003	98	1511447	10.0	9.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
159 Fluoranthene	202	11.291	11.293	-0.002	99	1518558	10.0	9.49	
160 Benzidine	184	11.358	11.365	-0.007	88	728031	20.0	7.60	
161 Pyrene	202	11.493	11.495	-0.002	96	1606251	10.0	8.87	
168 Butyl benzyl phthalate	149	11.954	11.957	-0.003	89	727631	10.0	8.65	
173 Bis(2-ethylhexyl) phthalat	149	12.440	12.438	0.002	94	1022722	10.0	9.16	
175 3,3'-Dichlorobenzidine	252	12.469	12.471	-0.002	55	881357	20.0	14.6	
177 Benzo[a]anthracene	228	12.536	12.539	-0.003	89	1616602	10.0	8.71	
178 Chrysene	228	12.575	12.577	-0.002	93	1560432	10.0	9.19	
180 Di-n-octyl phthalate	149	13.099	13.096	0.003	100	1724256	10.0	8.82	
182 Benzo[b]fluoranthene	252	13.762	13.765	-0.003	87	1475871	10.0	8.82	
183 Benzo[k]fluoranthene	252	13.801	13.803	-0.002	75	1516225	10.0	9.00	
184 Benzo[a]pyrene	252	14.239	14.241	-0.002	76	1417242	10.0	8.87	
188 Indeno[1,2,3-cd]pyrene	276	16.244	16.246	-0.002	87	1459105	10.0	9.02	
189 Dibenz(a,h)anthracene	278	16.249	16.261	-0.012	75	1175182	10.0	8.81	
190 Benzo[g,h,i]perylene	276	16.840	16.847	-0.007	96	1179518	10.0	8.80	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SMIS80PPMW_00011 Amount Added: 5.00 Units: uL Run Reagent

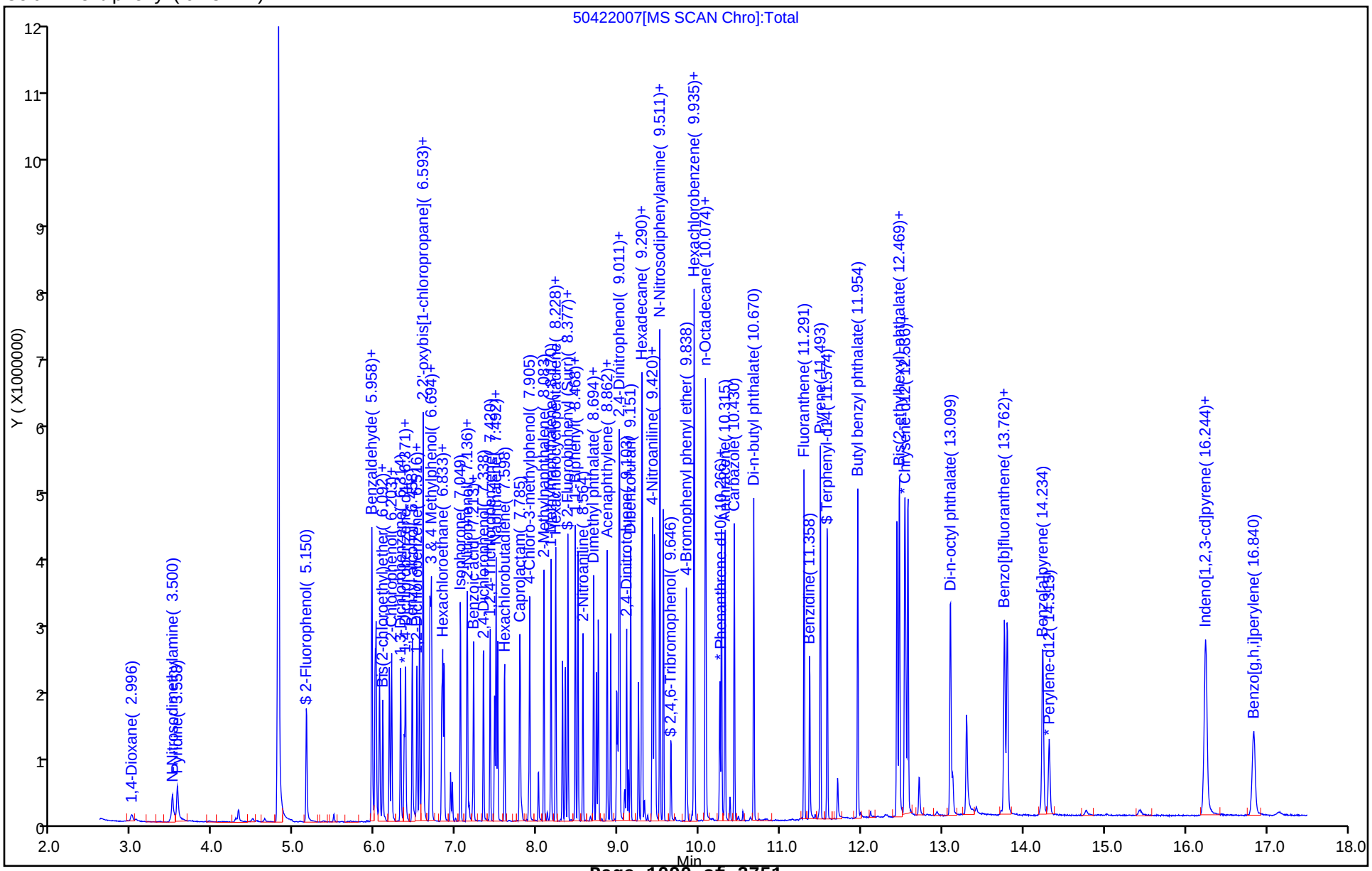
Report Date: 23-Apr-2015 09:37:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422007.D

Injection Date:	22-Apr-2015 09:44:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	LCS 240-176319/24-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177355/3

Matrix: Solid | Lab File ID: 50422003.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 08:04

Con. Extract Vol.: | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	4.98		0.00020	0.00010	0.000044
208-96-8	Acenaphthylene	5.15		0.00020	0.00010	0.000048
120-12-7	Anthracene	4.89		0.00020	0.00010	0.000088
56-55-3	Benzo[a]anthracene	4.77		0.00020	0.00010	0.000030
50-32-8	Benzo[a]pyrene	4.86		0.00020	0.00010	0.000051
205-99-2	Benzo[b]fluoranthene	4.86		0.00020	0.00010	0.000039
191-24-2	Benzo[g,h,i]perylene	4.98		0.00020	0.00010	0.000046
65-85-0	Benzoic acid	9.19	M	0.025	0.020	0.010
207-08-9	Benzo[k]fluoranthene	4.88		0.00020	0.00010	0.000045
100-51-6	Benzyl alcohol	4.79		0.0050	0.00050	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.15		0.0010	0.00050	0.00032
111-44-4	Bis(2-chloroethyl)ether	5.13		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	5.31		1.0	0.00050	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	5.03		0.0050	0.00050	0.0017
101-55-3	4-Bromophenyl phenyl ether	5.11		0.0020	0.00050	0.00022
85-68-7	Butyl benzyl phthalate	4.88		0.0020	0.00050	0.00026
86-74-8	Carbazole	4.78		0.0010	0.00050	0.00028
106-47-8	4-Chloroaniline	4.97		0.0020	0.00050	0.00021
59-50-7	4-Chloro-3-methylphenol	4.99		0.0020	0.00050	0.00021
91-58-7	2-Chloronaphthalene	4.96		0.0010	0.00050	0.00010
95-57-8	2-Chlorophenol	4.86		0.0010	0.00050	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	4.94		0.0020	0.00050	0.00030
218-01-9	Chrysene	4.97		0.00020	0.00010	0.000050
53-70-3	Dibenz(a,h)anthracene	4.94		0.00020	0.00010	0.000045
132-64-9	Dibenzofuran	5.05		0.0010	0.00010	0.000020
95-50-1	1,2-Dichlorobenzene	4.99		0.0010	0.00050	0.00029
541-73-1	1,3-Dichlorobenzene	4.96		0.0010	0.00050	0.00023
106-46-7	1,4-Dichlorobenzene	5.09		0.0010	0.00050	0.00034
91-94-1	3,3'-Dichlorobenzidine	9.89		0.0050	0.0010	0.00037
120-83-2	2,4-Dichlorophenol	4.77		0.0020	0.00050	0.00019
84-66-2	Diethyl phthalate	5.07		0.0020	0.0010	0.00060
105-67-9	2,4-Dimethylphenol	4.99		0.0020	0.00050	0.00025
131-11-3	Dimethyl phthalate	5.02		0.0020	0.00050	0.00029
84-74-2	Di-n-butyl phthalate	4.93		0.0050	0.0010	0.0017

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177355/3

Matrix: Solid | Lab File ID: 50422003.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 08:04

Con. Extract Vol.: | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	8.81		0.0050	0.0040	0.0024
51-28-5	2,4-Dinitrophenol	8.42		0.0050	0.0010	0.00032
121-14-2	2,4-Dinitrotoluene	4.95		0.0050	0.00050	0.00025
606-20-2	2,6-Dinitrotoluene	5.04		0.0050	0.00050	0.00080
117-84-0	Di-n-octyl phthalate	4.79		0.0020	0.00050	0.00023
206-44-0	Fluoranthene	4.86		0.00020	0.00010	0.000045
86-73-7	Fluorene	5.12		0.00020	0.00010	0.000041
118-74-1	Hexachlorobenzene	4.79		0.00020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	4.57		0.0010	0.00050	0.00027
77-47-4	Hexachlorocyclopentadiene	4.42		0.010	0.00050	0.00024
67-72-1	Hexachloroethane	5.00		0.0010	0.00050	0.00019
193-39-5	Indeno[1,2,3-cd]pyrene	4.98		0.00020	0.00010	0.000043
78-59-1	Isophorone	4.90		0.0010	0.00050	0.00027
91-57-6	2-Methylnaphthalene	4.69		0.00020	0.00010	0.000090
95-48-7	2-Methylphenol	5.26		0.0010	0.00050	0.00017
15831-10-4	3 & 4 Methylphenol	5.08		0.0020	0.0010	0.00080
91-20-3	Naphthalene	4.83		0.00020	0.00010	0.000063
88-74-4	2-Nitroaniline	5.27		0.0020	0.00050	0.00021
99-09-2	3-Nitroaniline	5.51		0.0020	0.00050	0.00028
100-01-6	4-Nitroaniline	5.03		0.0020	0.00050	0.00022
98-95-3	Nitrobenzene	4.76		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.75		0.0020	0.00050	0.00028
100-02-7	4-Nitrophenol	9.44		0.0050	0.0040	0.00029
621-64-7	N-Nitrosodi-n-propylamine	5.03		0.0010	0.00050	0.00024
86-30-6	N-Nitrosodiphenylamine	10.6		0.0010	0.00050	0.00031
87-86-5	Pentachlorophenol	8.73		0.0050	0.0010	0.00027
85-01-8	Phenanthrene	4.90		0.00020	0.00010	0.000062
108-95-2	Phenol	5.20		0.0010	0.0010	0.00060
129-00-0	Pyrene	4.76		0.00020	0.00010	0.000042
120-82-1	1,2,4-Trichlorobenzene	4.85		0.0010	0.00050	0.00028
95-95-4	2,4,5-Trichlorophenol	5.11		0.0050	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	4.92		0.0050	0.00050	0.00024

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177355/3

Matrix: Solid | Lab File ID: 50422003.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 08:04

Con. Extract Vol.: | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	99		50-150
367-12-4	2-Fluorophenol (Surr)	106		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	93		50-150
4165-62-2	Phenol-d5 (Surr)	100		50-150
1718-51-0	Terphenyl-d14 (Surr)	95		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	103		50-150

Report Date: 23-Apr-2015 12:52:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422003.D
Lims ID: mrl qc
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 08:04:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-003
Misc. Info.: MRL QCMRL QC
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 12:52:16 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: gurneyk Date: 23-Apr-2015 12:52:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.361	6.359	0.002	88	169748	4.00	4.00	
* 2 Naphthalene-d8	136	7.476	7.475	0.001	99	645991	4.00	4.00	
* 3 Acenaphthene-d10	164	8.982	8.980	0.002	74	374768	4.00	4.00	
* 4 Phenanthrene-d10	188	10.251	10.254	-0.003	77	655408	4.00	4.00	
* 5 Chrysene-d12	240	12.550	12.548	0.002	80	781051	4.00	4.00	
* 6 Perylene-d12	264	14.319	14.318	0.001	98	679417	4.00	4.00	
$ 7 2-Fluorophenol	112	5.135	5.133	0.002	94	329866	5.00	5.28	
$ 8 Phenol-d5	99	5.991	5.994	-0.003	76	467991	5.00	5.01	
$ 9 Nitrobenzene-d5	82	6.832	6.835	-0.003	83	547968	5.00	4.66	
$ 10 2-Fluorobiphenyl (Surr)	172	8.381	8.379	0.001	99	624139	5.00	4.95	
$ 11 2,4,6-Tribromophenol	330	9.650	9.653	-0.003	79	71217	5.00	5.13	
$ 12 Terphenyl-d14	244	11.578	11.577	0.001	97	755262	5.00	4.75	
25 1,4-Dioxane	88	3.009	2.993	0.016	66	167156	5.00	4.64	M
26 N-Nitrosodimethylamine	74	3.514	3.493	0.021	85	286649	5.00	4.77	M
27 Pyridine	79	3.572	3.556	0.016	95	480882	5.00	4.97	M
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77	5.962	5.960	0.002	82	681144	10.0	9.61	
43 Phenol	94	6.005	6.003	0.002	83	527055	5.00	5.20	
44 Aniline	93	6.053	6.051	0.002	83	645178	5.00	5.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93	6.092	6.095	-0.003	90	435979	5.00	5.13	
45 Pentachloroethane	167		6.122					ND	
46 2-Chlorophenol	128	6.173	6.172	0.001	90	288224	5.00	4.86	
243 n-Decane	57		6.201				ND	ND	
47 1,3-Dichlorobenzene	146	6.313	6.311	0.002	86	318467	5.00	4.96	
48 1,4-Dichlorobenzene	146	6.375	6.374	0.001	78	331189	5.00	5.09	
49 Benzyl alcohol	108	6.457	6.455	0.002	84	229198	5.00	4.79	
232 1-Methyl-2-pyrrilidinone	99		6.462					ND	
50 1,2-Dichlorobenzene	146	6.515	6.513	0.002	82	302955	5.00	4.99	
51 2-Methylphenol	108	6.544	6.542	0.002	77	347104	5.00	5.26	
286 4-Methyl-1-cyclohexanemeth	55		6.574					ND	
53 2,2'-oxybis[1-chloropropan	45	6.577	6.576	0.001	98	369437	5.00	5.31	
52 Indene	115	6.592	6.590	0.002	77	1207805	10.0	10.1	
21 3 & 4 Methylphenol	108	6.673	6.672	0.001	94	354838	5.00	5.08	
56 N-Nitrosopyrrolidine	100		6.675					ND	
57 N-Nitrosodi-n-propylamine	70	6.688	6.686	0.002	98	367076	5.00	5.03	
58 Acetophenone	105	6.697	6.696	0.001	75	517360	5.00	5.12	
59 N-Nitrosomorpholine	56		6.704					ND	
287 4-Methyl-1-cyclohexanemeth	55		6.708					ND	
60 2-Toluidine	106		6.742					ND	
61 Hexachloroethane	117	6.822	6.821	0.001	93	154509	5.00	5.00	
62 Nitrobenzene	77	6.851	6.850	0.001	74	516847	5.00	4.76	
63 N-Nitrosopiperidine	114		6.987					ND	
64 Isophorone	82	7.053	7.052	0.001	94	898475	5.00	4.90	
66 2-Nitrophenol	139	7.130	7.129	0.001	68	142390	5.00	4.75	
65 2,4-Dimethylphenol	107	7.140	7.138	0.002	96	397042	5.00	4.99	
67 1,3,5-Trichlorobenzene	180		7.160					ND	
71 Benzoic acid	122	7.178	7.196	-0.018	82	302595	10.0	9.19	M
68 o,o',o''-Triethylphosphoro	198		7.199					ND	
70 Bis(2-chloroethoxy)methane	93	7.217	7.215	0.002	93	475181	5.00	5.15	
72 alpha,alpha-Dimethyl phene	58		7.314					ND	
73 2,4-Dichlorophenol	162	7.337	7.335	0.002	92	228566	5.00	4.77	
74 1,2,4-Trichlorobenzene	180	7.419	7.417	0.002	85	256509	5.00	4.85	
75 Naphthalene	128	7.491	7.494	-0.003	91	833708	5.00	4.83	
76 4-Chloroaniline	127	7.510	7.513	-0.003	47	374670	5.00	4.97	
77 2,6-Dichlorophenol	162	7.529	7.533	-0.004	70	231544	5.00	4.91	
78 Hexachloropropene	213		7.589					ND	
79 Hexachlorobutadiene	225	7.597	7.595	0.002	89	162296	5.00	4.57	
80 1,2,3-Trichlorobenzene	180		7.626					ND	
81 Benzothiazole	135		7.718					ND	
82 Quinoline	129		7.781					ND	
83 N-Nitrosodi-n-butylamine	84		7.795					ND	
84 Caprolactam	113	7.789	7.797	-0.008	84	205399	10.0	10.2	
85 p-Phenylene diamine	108		7.815					ND	
86 4-Chloro-3-methylphenol	107	7.904	7.908	-0.004	78	336821	5.00	4.99	
94 Safrole, Total	162		7.992					ND	
87 2-Methylnaphthalene	142	8.082	8.081	0.001	83	531831	5.00	4.69	
88 1-Methylnaphthalene	142	8.169	8.172	-0.003	78	465396	5.00	4.84	
89 Hexachlorocyclopentadiene	237	8.227	8.225	0.002	80	154955	5.00	4.42	
91 1,2,4,5-Tetrachlorobenzene	216	8.231	8.230	0.001	94	270285	5.00	5.00	
90 1,2,3,5-Tetrachlorobenzene	216		8.232					ND	
225 Isosafrole Peak 1	162		8.243					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196	8.313	8.312	0.001	91	177092	5.00	4.92	
93 2,4,5-Trichlorophenol	196	8.347	8.345	0.002	90	192172	5.00	5.11	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154	8.472	8.470	0.002	96	640162	5.00	4.87	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162	8.501	8.504	-0.003	91	516236	5.00	4.96	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65	8.563	8.562	0.001	69	277900	5.00	5.27	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163	8.698	8.696	0.002	94	587127	5.00	5.02	
106 1,3-Dinitrobenzene	168	8.732	8.730	0.002	79	98391	5.00	5.25	
107 2,6-Dinitrotoluene	165	8.756	8.754	0.002	62	138163	5.00	5.04	
109 Acenaphthylene	152	8.861	8.865	-0.004	86	827991	5.00	5.15	
110 3-Nitroaniline	138	8.905	8.908	-0.003	84	150446	5.00	5.51	
111 2,4-Dinitrophenol	184	8.996	8.994	0.002	96	127884	10.0	8.42	
112 Acenaphthene	153	9.010	9.009	0.001	79	520469	5.00	4.98	
113 4-Nitrophenol	109	9.020	9.018	0.002	58	244751	10.0	9.44	
114 2,4-Dinitrotoluene	165	9.102	9.105	-0.003	75	177277	5.00	4.95	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168	9.155	9.153	0.002	84	718360	5.00	5.05	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232	9.251	9.249	0.002	71	159600	5.00	5.27	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149	9.289	9.293	-0.004	94	598065	5.00	5.07	
247 Hexadecane	57		9.297				ND	ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204	9.419	9.422	-0.003	93	299799	5.00	4.94	
125 4-Nitroaniline	138	9.429	9.432	-0.003	77	133084	5.00	5.03	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166	9.448	9.446	0.002	99	611456	5.00	5.12	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198	9.458	9.461	-0.003	89	197017	10.0	8.81	
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169	9.515	9.514	0.001	96	934440	10.0	10.6	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77	9.559	9.557	0.002	99	997350	5.00	5.45	
133 Azobenzene	77	9.559	9.557	0.002	95	997711	5.00	5.45	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248	9.842	9.841	0.001	67	171437	5.00	5.11	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284	9.934	9.932	0.002	81	158382	5.00	4.79	
142 Atrazine	200	9.939	9.942	-0.003	84	342388	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076				ND	ND	
143 Pentachlorophenol	266	10.083	10.081	0.002	78	197746	10.0	8.73	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178	10.275	10.274	0.001	95	842504	5.00	4.90	
149 Anthracene	178	10.318	10.317	0.001	85	841517	5.00	4.89	
151 Carbazole	167	10.434	10.432	0.002	83	735284	5.00	4.78	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149	10.674	10.673	0.001	100	949014	5.00	4.93	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202	11.295	11.293	0.002	99	965960	5.00	4.86	
160 Benzidine	184	11.362	11.365	-0.003	98	1109766	10.0	9.80	
161 Pyrene	202	11.497	11.495	0.002	96	1017949	5.00	4.76	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149	11.958	11.957	0.001	92	484894	5.00	4.88	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.439	12.438	0.001	93	663412	5.00	5.03	
175 3,3'-Dichlorobenzidine	252	12.473	12.471	0.002	52	703914	10.0	9.89	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228	12.535	12.539	-0.004	98	1046963	5.00	4.77	
178 Chrysene	228	12.574	12.577	-0.003	91	996364	5.00	4.97	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149	13.098	13.096	0.002	99	1146237	5.00	4.79	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252	13.766	13.765	0.001	84	995774	5.00	4.86	
183 Benzo[k]fluoranthene	252	13.800	13.803	-0.003	90	1006456	5.00	4.88	
184 Benzo[a]pyrene	252	14.238	14.241	-0.003	75	949792	5.00	4.86	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276	16.248	16.246	0.002	91	986371	5.00	4.98	
189 Dibenz(a,h)anthracene	278	16.257	16.261	-0.004	78	807069	5.00	4.94	
190 Benzo[g,h,i]perylene	276	16.849	16.847	0.002	96	818019	5.00	4.98	
276 Chlordane (technical)	1		0.000					ND	
271 3 & 4 Phenoxyphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
285 Chlorobenzene TIC	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
292 Dowanol Peak 2	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
270 Toxaphene	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
268 Endrin	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
258 Aldrin	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.524					ND	
165 4,4'-DDD	235		11.812					ND	
170 4,4'-DDT	235		12.072					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100				0			10.3	
S 245 Total Cresols	100				0			10.3	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	5.115	4.999	0.115	0	149		0	
T 194 Decane TIC	142	6.096	5.799	0.296	1	1859		0	
T 193 Hexamethylphosphoramide TI	135		6.500					ND	
T 234 2-Isopropylphenol TIC	121	7.250	7.244	0.000	0	388		0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.366	7.358	0.002	0	347		0	
T 236 3-isopropylphenol TIC	121	7.366	7.358	0.002	0	347		0	
T 237 3-(1,1-Dimethylethyl Pheno	135	7.712	7.714	-0.008	1	961		0	
T 231 2,3,7,8-TCDD	322	8.361	8.236	0.121	1	113		0	
T 195 Hydroquinone TIC	110	9.015	8.993	0.015	20	22416		0	
T 192 Octadecane (TIC)	254	9.650	9.600	0.050	1	567		0	
T 196 Kepone TIC	272	10.083	11.994	-1.917	4	6548		0.0335	
T 242 Triphenyl Phosphate TIC	326	12.040	11.994	0.040	0	207		0	
T 280 2,3,7,8-TCDD TIC	198	12.468	12.494	-0.032	0	3088		0	
T 241 Tricresyl phosphate TIC	368	12.579	12.494	0.079	0	136		0	
T 248 2,3,7,8 TCDF TIC	304	13.098	12.994	0.098	0	167		0	
T 197 Hexachlorophene TIC	198	13.766	13.594	0.166	1	9803		0.0577	
T 239 Tris(2,3-dibromopropyl)pho	201	14.021	13.994	0.021	0	224		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L5 W_00005 Amount Added: 1.00 Units: mL

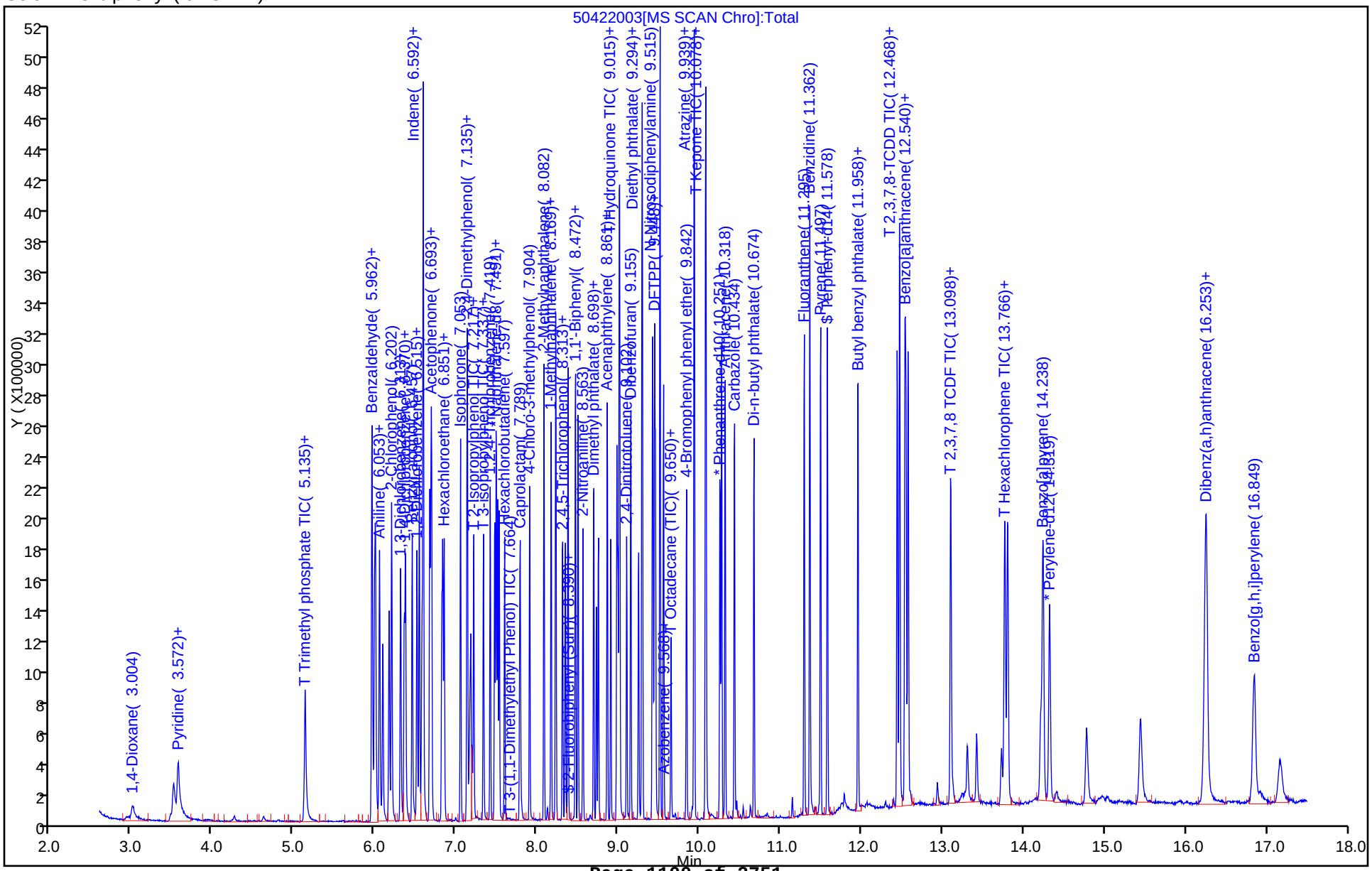
Report Date: 23-Apr-2015 12:52:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422003.D

Injection Date:	22-Apr-2015 08:04:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	mrl qc			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



Manual Integration/User Assign Peak Report

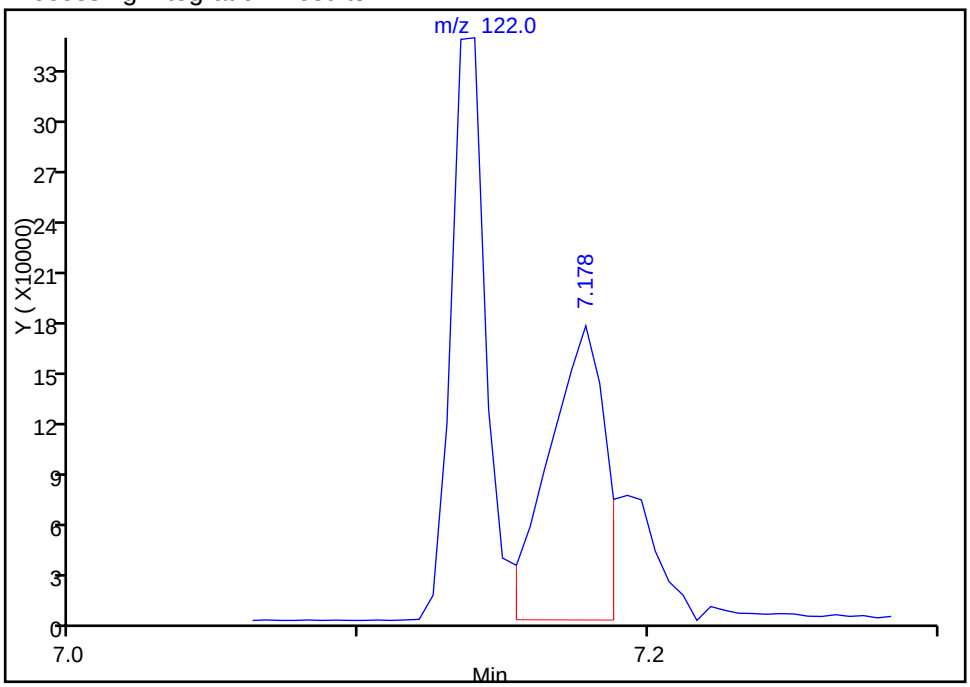
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422003.D
Injection Date: 22-Apr-2015 08:04:30 Instrument ID: A4HP9
Lims ID: mrl qc
Client ID:
Operator ID: 001574 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

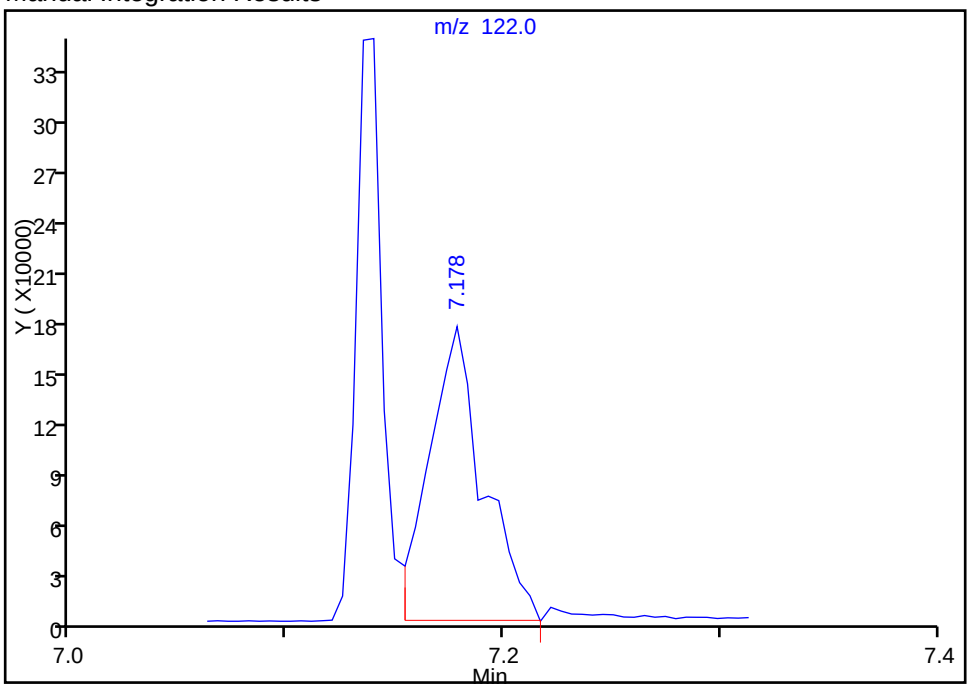
Processing Integration Results

RT: 7.18
Area: 239278
Amount: 7.570838
Amount Units: ng/ul



Manual Integration Results

RT: 7.18
Area: 302595
Amount: 9.191886
Amount Units: ng/ul



Reviewer: ulmanm, 22-Apr-2015 08:30:19
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177355/18

Matrix: Solid | Lab File ID: 50422018.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 14:44

Con. Extract Vol.: | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
83-32-9	Acenaphthene	5.11		0.00020	0.00010	0.000044
208-96-8	Acenaphthylene	5.13		0.00020	0.00010	0.000048
120-12-7	Anthracene	5.06		0.00020	0.00010	0.000088
56-55-3	Benzo[a]anthracene	4.78		0.00020	0.00010	0.000030
50-32-8	Benzo[a]pyrene	4.88		0.00020	0.00010	0.000051
205-99-2	Benzo[b]fluoranthene	4.96		0.00020	0.00010	0.000039
191-24-2	Benzo[g,h,i]perylene	4.78		0.00020	0.00010	0.000046
65-85-0	Benzoic acid	7.20	M	0.025	0.020	0.010
207-08-9	Benzo[k]fluoranthene	4.71		0.00020	0.00010	0.000045
100-51-6	Benzyl alcohol	4.60		0.0050	0.00050	0.00038
111-91-1	Bis(2-chloroethoxy)methane	5.34		0.0010	0.00050	0.00032
111-44-4	Bis(2-chloroethyl)ether	4.94		0.0010	0.00010	0.00010
108-60-1	bis (2-chloroisopropyl) ether	5.57		1.0	0.00050	0.00040
117-81-7	Bis(2-ethylhexyl) phthalate	4.97		0.0050	0.00050	0.0017
101-55-3	4-Bromophenyl phenyl ether	4.99		0.0020	0.00050	0.00022
85-68-7	Butyl benzyl phthalate	4.81		0.0020	0.00050	0.00026
86-74-8	Carbazole	4.87		0.0010	0.00050	0.00028
106-47-8	4-Chloroaniline	5.14		0.0020	0.00050	0.00021
59-50-7	4-Chloro-3-methylphenol	4.83		0.0020	0.00050	0.00021
91-58-7	2-Chloronaphthalene	4.99		0.0010	0.00050	0.00010
95-57-8	2-Chlorophenol	4.92		0.0010	0.00050	0.00029
7005-72-3	4-Chlorophenyl phenyl ether	5.04		0.0020	0.00050	0.00030
218-01-9	Chrysene	5.07		0.00020	0.00010	0.000050
53-70-3	Dibenz(a,h)anthracene	4.81		0.00020	0.00010	0.000045
132-64-9	Dibenzofuran	5.14		0.0010	0.00010	0.000020
95-50-1	1,2-Dichlorobenzene	5.01		0.0010	0.00050	0.00029
541-73-1	1,3-Dichlorobenzene	4.88		0.0010	0.00050	0.00023
106-46-7	1,4-Dichlorobenzene	4.98		0.0010	0.00050	0.00034
91-94-1	3,3'-Dichlorobenzidine	9.70		0.0050	0.0010	0.00037
120-83-2	2,4-Dichlorophenol	4.95		0.0020	0.00050	0.00019
84-66-2	Diethyl phthalate	5.30		0.0020	0.0010	0.00060
105-67-9	2,4-Dimethylphenol	4.93		0.0020	0.00050	0.00025
131-11-3	Dimethyl phthalate	5.18		0.0020	0.00050	0.00029
84-74-2	Di-n-butyl phthalate	4.81		0.0050	0.0010	0.0017

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177355/18

Matrix: Solid | Lab File ID: 50422018.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 14:44

Con. Extract Vol.: | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
534-52-1	4,6-Dinitro-2-methylphenol	4.67	^	0.0050	0.0040	0.0024
51-28-5	2,4-Dinitrophenol	3.89	^	0.0050	0.0010	0.00032
121-14-2	2,4-Dinitrotoluene	5.09		0.0050	0.00050	0.00025
606-20-2	2,6-Dinitrotoluene	4.95		0.0050	0.00050	0.00080
117-84-0	Di-n-octyl phthalate	4.81		0.0020	0.00050	0.00023
206-44-0	Fluoranthene	4.76		0.00020	0.00010	0.000045
86-73-7	Fluorene	5.18		0.00020	0.00010	0.000041
118-74-1	Hexachlorobenzene	4.64		0.00020	0.00010	0.000085
87-68-3	Hexachlorobutadiene	4.73		0.0010	0.00050	0.00027
77-47-4	Hexachlorocyclopentadiene	3.15	^	0.010	0.00050	0.00024
67-72-1	Hexachloroethane	5.10		0.0010	0.00050	0.00019
193-39-5	Indeno[1,2,3-cd]pyrene	4.82		0.00020	0.00010	0.000043
78-59-1	Isophorone	5.00		0.0010	0.00050	0.00027
91-57-6	2-Methylnaphthalene	4.81		0.00020	0.00010	0.000090
95-48-7	2-Methylphenol	5.22		0.0010	0.00050	0.00017
15831-10-4	3 & 4 Methylphenol	5.13		0.0020	0.0010	0.00080
91-20-3	Naphthalene	4.81		0.00020	0.00010	0.000063
88-74-4	2-Nitroaniline	5.25		0.0020	0.00050	0.00021
99-09-2	3-Nitroaniline	5.78		0.0020	0.00050	0.00028
100-01-6	4-Nitroaniline	5.23		0.0020	0.00050	0.00022
98-95-3	Nitrobenzene	4.91		0.0010	0.00010	0.000040
88-75-5	2-Nitrophenol	4.71		0.0020	0.00050	0.00028
100-02-7	4-Nitrophenol	9.26		0.0050	0.0040	0.00029
621-64-7	N-Nitrosodi-n-propylamine	5.17		0.0010	0.00050	0.00024
86-30-6	N-Nitrosodiphenylamine	10.2		0.0010	0.00050	0.00031
87-86-5	Pentachlorophenol	6.27	^	0.0050	0.0010	0.00027
85-01-8	Phenanthrene	4.95		0.00020	0.00010	0.000062
108-95-2	Phenol	5.15		0.0010	0.0010	0.00060
129-00-0	Pyrene	4.82		0.00020	0.00010	0.000042
120-82-1	1,2,4-Trichlorobenzene	4.81		0.0010	0.00050	0.00028
95-95-4	2,4,5-Trichlorophenol	5.09		0.0050	0.00050	0.00030
88-06-2	2,4,6-Trichlorophenol	5.01		0.0050	0.00050	0.00024

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177355/18

Matrix: Solid | Lab File ID: 50422018.D

Analysis Method: 8270C | Date Collected:

Extract. Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 14:44

Con. Extract Vol.: | Dilution Factor: 1

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

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

Analysis Batch No.: 177355 | Units: ng/uL

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	99		50-150
367-12-4	2-Fluorophenol (Surr)	104		50-150
4165-60-0	Nitrobenzene-d5 (Surr)	95		50-150
4165-62-2	Phenol-d5 (Surr)	101		50-150
1718-51-0	Terphenyl-d14 (Surr)	95		50-150
118-79-6	2,4,6-Tribromophenol (Surr)	106		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422018.D
Lims ID: mrl qccl
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 14:44:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042803-018
Misc. Info.: MRL QCCLMRL QCCL
Operator ID: 001574 Instrument ID: A4HP9

Method: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\8270 _9.m
Limit Group: MSS 8270 DOD ICAL
Last Update: 23-Apr-2015 10:53:08 Calib Date: 20-Apr-2015 20:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4HP9\20150420-42708.b\50420028.D

Column 1 : 5% phenyl (0.18 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: ulmanm Date: 23-Apr-2015 11:00:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.358	6.359	-0.001	87	137008	4.00	4.00	
* 2 Naphthalene-d8	136	7.474	7.475	-0.001	98	518106	4.00	4.00	
* 3 Acenaphthene-d10	164	8.979	8.980	-0.001	78	303962	4.00	4.00	
* 4 Phenanthrene-d10	188	10.248	10.254	-0.006	77	556122	4.00	4.00	
* 5 Chrysene-d12	240	12.547	12.548	-0.001	80	650429	4.00	4.00	
* 6 Perylene-d12	264	14.317	14.318	-0.001	95	549646	4.00	4.00	
$ 7 2-Fluorophenol	112	5.132	5.133	-0.001	92	263006	5.00	5.21	
$ 8 Phenol-d5	99	5.988	5.994	-0.006	80	380543	5.00	5.04	
$ 9 Nitrobenzene-d5	82	6.834	6.835	-0.001	83	446645	5.00	4.74	
$ 10 2-Fluorobiphenyl (Surr)	172	8.378	8.379	-0.001	98	505201	5.00	4.94	
$ 11 2,4,6-Tribromophenol	330	9.647	9.653	-0.006	78	59859	5.00	5.32	
$ 12 Terphenyl-d14	244	11.576	11.577	-0.001	95	627117	5.00	4.74	
25 1,4-Dioxane	88	2.992	2.993	-0.001	91	132106	5.00	4.54	
26 N-Nitrosodimethylamine	74	3.497	3.493	0.004	86	220666	5.00	4.55	
27 Pyridine	79	3.555	3.556	-0.001	92	368612	5.00	4.72	
20 Dimethylformamide	73		4.068					ND	
28 Ethyl methacrylate	69		4.173					ND	
31 2-Picoline	93		4.540					ND	
32 N-Nitrosomethylethylamine	88		4.650					ND	
35 Acrylamide	71		4.905					ND	
34 Methyl methanesulfonate	80		4.963					ND	
233 n,n'-Dimethylacetamide	44		5.053					ND	
36 N-Nitrosodiethylamine	102		5.372					ND	
37 Ethyl methanesulfonate	79		5.636					ND	
42 Phenylmercaptan	110		5.768					ND	
38 2-Methylcyclohexanone	68		5.866					ND	
39 3-Methylcyclohexanone	69		5.900					ND	
40 4-Methylcyclohexanone	55		5.948					ND	
41 Benzaldehyde	77	5.959	5.960	-0.001	83	555052	10.0	9.71	
43 Phenol	94	6.002	6.003	-0.001	92	420895	5.00	5.15	
44 Aniline	93	6.050	6.051	-0.001	82	520657	5.00	5.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
69 Bis(2-chloroethyl)ether	93	6.094	6.095	-0.001	92	338929	5.00	4.94	
45 Pentachloroethane	167		6.122				ND		
46 2-Chlorophenol	128	6.171	6.172	-0.001	87	235478	5.00	4.92	
243 n-Decane	57		6.201				ND	ND	
47 1,3-Dichlorobenzene	146	6.310	6.311	-0.001	79	252726	5.00	4.88	
48 1,4-Dichlorobenzene	146	6.373	6.374	-0.002	72	261374	5.00	4.98	
49 Benzyl alcohol	108	6.454	6.455	-0.001	84	177567	5.00	4.60	
232 1-Methyl-2-pyrrilidinone	99		6.462				ND		
50 1,2-Dichlorobenzene	146	6.512	6.513	-0.001	79	245545	5.00	5.01	
51 2-Methylphenol	108	6.541	6.542	-0.001	89	277584	5.00	5.22	
286 4-Methyl-1-cyclohexanemeth	55		6.574				ND		
53 2,2'-oxybis[1-chloropropan	45	6.574	6.576	-0.002	99	312514	5.00	5.57	
52 Indene	115	6.589	6.590	-0.001	67	961978	10.0	9.97	
21 3 & 4 Methylphenol	108	6.671	6.672	-0.001	94	289168	5.00	5.13	
56 N-Nitrosopyrrolidine	100		6.675				ND		
57 N-Nitrosodi-n-propylamine	70	6.685	6.686	-0.001	97	304913	5.00	5.17	
58 Acetophenone	105	6.695	6.696	-0.001	78	414090	5.00	5.07	
59 N-Nitrosomorpholine	56		6.704				ND		
287 4-Methyl-1-cyclohexanemeth	55		6.708				ND		
60 2-Toluidine	106		6.742				ND		
61 Hexachloroethane	117	6.820	6.821	-0.001	87	127296	5.00	5.10	
62 Nitrobenzene	77	6.849	6.850	-0.001	72	427568	5.00	4.91	
63 N-Nitrosopiperidine	114		6.987				ND		
64 Isophorone	82	7.051	7.052	-0.001	94	735728	5.00	5.00	
66 2-Nitrophenol	139	7.127	7.129	-0.002	71	113374	5.00	4.71	
65 2,4-Dimethylphenol	107	7.137	7.138	-0.001	96	314403	5.00	4.93	
67 1,3,5-Trichlorobenzene	180		7.160				ND		
71 Benzoic acid	122	7.195	7.196	-0.001	73	180426	10.0	7.20	M
68 o,o',o''-Triethylphosphoro	198		7.199				ND		
70 Bis(2-chloroethoxy)methane	93	7.214	7.215	-0.001	94	395396	5.00	5.34	
72 alpha,alpha-Dimethyl phene	58		7.314				ND		
73 2,4-Dichlorophenol	162	7.334	7.335	-0.001	87	190369	5.00	4.95	
74 1,2,4-Trichlorobenzene	180	7.416	7.417	-0.001	82	203728	5.00	4.81	
75 Naphthalene	128	7.493	7.494	-0.001	92	666418	5.00	4.81	
76 4-Chloroaniline	127	7.512	7.513	-0.001	36	310790	5.00	5.14	
77 2,6-Dichlorophenol	162	7.531	7.533	-0.002	54	186750	5.00	4.94	
78 Hexachloropropene	213		7.589				ND		
79 Hexachlorobutadiene	225	7.594	7.595	-0.001	90	134787	5.00	4.73	
80 1,2,3-Trichlorobenzene	180		7.626				ND		
81 Benzothiazole	135		7.718				ND		
82 Quinoline	129		7.781				ND		
83 N-Nitrosodi-n-butylamine	84		7.795				ND		
84 Caprolactam	113	7.786	7.797	-0.011	82	177009	10.0	10.9	
85 p-Phenylene diamine	108		7.815				ND		
86 4-Chloro-3-methylphenol	107	7.902	7.908	-0.006	78	261215	5.00	4.83	
94 Safrole, Total	162		7.992				ND		
87 2-Methylnaphthalene	142	8.080	8.081	-0.001	81	437564	5.00	4.81	
88 1-Methylnaphthalene	142	8.166	8.172	-0.006	77	372443	5.00	4.83	
89 Hexachlorocyclopentadiene	237	8.224	8.225	-0.001	77	89484	5.00	3.15	
91 1,2,4,5-Tetrachlorobenzene	216	8.229	8.230	-0.001	91	215683	5.00	4.92	
90 1,2,3,5-Tetrachlorobenzene	216		8.232				ND		
225 Isosafrole Peak 1	162		8.243				ND		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
92 2,4,6-Trichlorophenol	196	8.310	8.312	-0.002	89	146384	5.00	5.01	
93 2,4,5-Trichlorophenol	196	8.344	8.345	-0.001	89	155137	5.00	5.09	
227 Isosafrole Peak 2	162		8.435					ND	
97 2,4-Toluene diamine	121		8.453					ND	
98 1,1'-Biphenyl	154	8.469	8.470	-0.001	97	527820	5.00	4.95	
99 1,2,3,4 -Tetrachlorobenzen	216		8.487					ND	
100 2-Chloronaphthalene	162	8.503	8.504	-0.001	98	421343	5.00	4.99	
96 3,4-Dichloronitrobenzene	109		8.506					ND	
246 1-Chloronaphthalene	162		8.541					ND	
102 2-Nitroaniline	65	8.561	8.562	-0.001	71	224716	5.00	5.25	
101 Phenyl ether	170		8.564					ND	
103 1,4-Naphthoquinone	158		8.646					ND	
104 1,4-Dinitrobenzene	168		8.670					ND	
105 Dimethyl phthalate	163	8.695	8.696	-0.001	93	491686	5.00	5.18	
106 1,3-Dinitrobenzene	168	8.729	8.730	-0.001	79	76887	5.00	5.05	
107 2,6-Dinitrotoluene	165	8.753	8.754	-0.001	58	109862	5.00	4.95	
109 Acenaphthylene	152	8.863	8.865	-0.002	90	668622	5.00	5.13	
110 3-Nitroaniline	138	8.907	8.908	-0.001	81	128057	5.00	5.78	
111 2,4-Dinitrophenol	184	8.993	8.994	-0.001	75	27579	10.0	3.89	
112 Acenaphthene	153	9.008	9.009	-0.001	94	433320	5.00	5.11	
113 4-Nitrophenol	109	9.017	9.018	-0.001	83	194572	10.0	9.26	
114 2,4-Dinitrotoluene	165	9.099	9.105	-0.006	71	147800	5.00	5.09	
115 Pentachlorobenzene	250		9.142					ND	
116 Dibenzofuran	168	9.152	9.153	-0.001	84	593186	5.00	5.14	
117 1-Naphthylamine	143		9.224					ND	
118 2,3,5,6-Tetrachlorophenol	232		9.224					ND	
119 2,3,4,6-Tetrachlorophenol	232	9.248	9.249	-0.001	70	125553	5.00	5.11	
120 2-Naphthylamine	143		9.286					ND	
121 Diethyl phthalate	149	9.287	9.293	-0.006	94	507022	5.00	5.30	
247 Hexadecane	57		9.297				ND	ND	
122 Thionazin	97		9.377					ND	
123 4-Chlorophenyl phenyl ethe	204	9.416	9.422	-0.006	92	247632	5.00	5.04	
125 4-Nitroaniline	138	9.426	9.432	-0.006	76	112284	5.00	5.23	
124 N-Nitro-o-toluidine	152		9.440					ND	
126 Fluorene	166	9.445	9.446	-0.001	99	501303	5.00	5.18	
127 Tributyl phosphate	99		9.458					ND	
128 4,6-Dinitro-2-methylphenol	198	9.455	9.461	-0.006	92	81916	10.0	4.67	
297 Benzophenone	105		9.512					ND	
131 N-Nitrosodiphenylamine	169	9.513	9.514	-0.001	99	762443	10.0	10.2	
130 Diphenylamine	169		9.526					ND	
132 1,2-Diphenylhydrazine	77	9.556	9.557	-0.001	98	825681	5.00	5.31	
133 Azobenzene	77	9.556	9.557	-0.001	95	825850	5.00	5.32	
134 Sulfotepp	202		9.627					ND	
135 1,3,5-Trinitrobenzene	213		9.704					ND	
137 Phenacetin	108		9.757					ND	
228 Diallate Peak 1	86		9.762					ND	
138 Phorate	121		9.772					ND	
139 4-Bromophenyl phenyl ether	248	9.840	9.841	-0.001	68	142038	5.00	4.99	
230 Diallate Peak 2	86		9.844					ND	
140 Dimethoate	87		9.916					ND	
141 Hexachlorobenzene	284	9.931	9.932	-0.001	74	130043	5.00	4.64	
142 Atrazine	200	9.936	9.942	-0.006	85	276305	10.0	9.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
129 4-Aminobiphenyl	169		10.070					ND	
244 n-Octadecane	57		10.076				ND	ND	
143 Pentachlorophenol	266	10.080	10.081	-0.001	77	117750	10.0	6.27	
144 Pronamide	173		10.099					ND	
145 Pentachloronitrobenzene	237		10.113					ND	
146 Disulfoton	88		10.214					ND	
147 Dinoseb	211		10.224					ND	
148 Phenanthrene	178	10.272	10.274	-0.002	84	722258	5.00	4.95	
149 Anthracene	178	10.316	10.317	-0.001	88	738694	5.00	5.06	
151 Carbazole	167	10.431	10.432	-0.001	83	634992	5.00	4.87	
152 Methyl parathion	109		10.536					ND	
154 Di-n-butyl phthalate	149	10.672	10.673	-0.001	100	784936	5.00	4.81	
153 Diphenylsulfone	125		10.718					ND	
155 Ethyl Parathion	97		10.859					ND	
156 4-Nitroquinoline-1-oxide	190		10.921					ND	
157 Methapyrilene	58		10.964					ND	
158 Isodrin	66		11.186					ND	
159 Fluoranthene	202	11.292	11.293	-0.001	99	802085	5.00	4.76	
160 Benzidine	184	11.359	11.365	-0.006	88	884414	10.0	9.38	
161 Pyrene	202	11.494	11.495	-0.001	96	858508	5.00	4.82	
226 Aramite Peak 1	185		11.537					ND	
229 Aramite Peak 2	185		11.599					ND	
163 p-Dimethylamino azobenzene	225		11.705					ND	
164 Chlorobenzilate	139		11.734					ND	
282 Kepone	272		11.764					ND	
167 Famphur	218		11.940					ND	
168 Butyl benzyl phthalate	149	11.956	11.957	-0.001	90	397982	5.00	4.81	
169 3,3'-Dimethylbenzidine	212		11.989					ND	
171 2-Acetylaminofluorene	181		12.215					ND	
172 3,3'-Dimethoxybenzidine	244		12.435					ND	
173 Bis(2-ethylhexyl) phthalat	149	12.436	12.438	-0.002	94	546304	5.00	4.97	
175 3,3'-Dichlorobenzidine	252	12.470	12.471	-0.001	52	575144	10.0	9.70	
174 4,4'-Methylene bis(2-chlor	231		12.474					ND	
177 Benzo[a]anthracene	228	12.533	12.539	-0.006	88	873313	5.00	4.78	
178 Chrysene	228	12.571	12.577	-0.006	93	846806	5.00	5.07	
176 Hexabromobenzene	232		12.603					ND	
179 6-Methylchrysene	242		13.061					ND	
180 Di-n-octyl phthalate	149	13.100	13.096	0.004	99	931178	5.00	4.81	
281 Hexachlorophene	196		13.628					ND	
181 7,12-Dimethylbenz(a)anthra	256		13.763					ND	
182 Benzo[b]fluoranthene	252	13.764	13.765	-0.001	84	821781	5.00	4.96	
183 Benzo[k]fluoranthene	252	13.797	13.803	-0.006	98	785869	5.00	4.71	
184 Benzo[a]pyrene	252	14.235	14.241	-0.006	74	771877	5.00	4.88	
185 3-Methylcholanthrene	268		14.797					ND	
187 Dibenz[a,h]acridine	279		15.783					ND	
186 Dibenz[a,j]acridine	279		15.878					ND	
188 Indeno[1,2,3-cd]pyrene	276	16.245	16.246	-0.001	94	771937	5.00	4.82	
189 Dibenz(a,h)anthracene	278	16.245	16.261	-0.016	69	635953	5.00	4.81	
190 Benzo[g,h,i]perylene	276	16.836	16.847	-0.011	94	634427	5.00	4.78	
292 Dowanol Peak 2	1		0.000					ND	
255 beta-BHC	1		0.000					ND	
270 Toxaphene	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
271 3 & 4 Phenoxyphenol	1		0.000					ND	
260 Methoxychlor	1		0.000					ND	
265 Dibenzo[a,h]pyrene	1		0.000					ND	
252 4-tert-Butylphenol	1		0.000					ND	
262 Isoquinoline	1		0.000					ND	
278 delta-BHC	1		0.000					ND	
263 Heptachlor epoxide	1		0.000					ND	
276 Chlordane (technical)	1		0.000					ND	
289 1-Phenoxy-2-propanol	1		0.000					ND	
290 1-Phenoxy-2-propanol TIC	1		0.000					ND	
279 3,4-Dichloroaniline	1		0.000					ND	
249 4-Chlorophenol TIC	1		0.000					ND	
299 Diisobutyl phthalate TIC	1		0.000					ND	
261 Endosulfan II	1		0.000					ND	
285 Chlorobenzene TIC	1		0.000					ND	
254 2-Chloroaniline	1		0.000					ND	
259 o-Phenylphenol	1		0.000					ND	
257 Endosulfan I	1		0.000					ND	
253 Endrin aldehyde	1		0.000					ND	
283 2-Ethoxyethanol	1		0.000					ND	
272 2,3-Dinitrotoluene	1		0.000					ND	
266 Heptachlor	1		0.000					ND	
274 Dibenz(a,i)pyrene	1		0.000					ND	
277 Chlorpyrifos	1		0.000					ND	
273 3 & 4 Chlorophenol	1		0.000					ND	
275 Dieldrin	1		0.000					ND	
268 Endrin	1		0.000					ND	
264 alpha-BHC	1		0.000					ND	
251 Endosulfan sulfate	1		0.000					ND	
269 Dibenzo[a,e]pyrene	1		0.000					ND	
293 Dowanol Peak 4	1		0.000					ND	
258 Aldrin	1		0.000					ND	
267 2,6-Diaminotoluene	1		0.000					ND	
250 gamma-BHC (Lindane)	1		0.000					ND	
294 Dowanol Peak 3	1		0.000					ND	
291 Dipropylene Glycol Phenyl	1		0.000					ND	
150 DFTPP									
166 4,4'-DDE	246		11.524					ND	
165 4,4'-DDD	235		11.812					ND	
170 4,4'-DDT	235		12.072					ND	
S 95 Isosafrole	162		5.568					ND	
S 288 4-Methyl-1-cyclohexanemeth	55		6.400					ND	
S 136 Diallate	86		6.701					ND	
S 162 Aramite, Total	185		8.271					ND	
S 191 Methyl Phenols,Total	100				0			10.3	
S 245 Total Cresols	100				0			10.3	
S 295 Dowanol	1		0.000					ND	
S 296 Dowanol Peak 1	1		0.000					ND	
T 240 Trimethyl phosphate TIC	110	5.012	4.999	0.012	0	152		0	
T 194 Decane TIC	142	6.094	5.799	0.294	1	1838		0	
T 193 Hexamethylphosphoramide TI	135	6.820	6.495	0.320	1	593		0	
T 234 2-Isopropylphenol TIC	121	7.243	7.244	-0.007	0	390		0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
T 235 4-isopropylphenol TIC	121	7.363	7.358	-0.001	0	264		0	
T 236 3-isopropylphenol TIC	121	7.363	7.358	-0.001	0	264		0	
T 237 3-(1,1-Dimethylethyl Pheno	135	7.729	7.714	0.009	1	142		0	
T 231 2,3,7,8-TCDD	322	8.383	8.236	0.143	1	142		0	
T 195 Hydroquinone TIC	110	9.013	8.993	0.013	29	17441		0	
T 192 Octadecane (TIC)	254	9.647	9.600	0.047	1	221		0	
T 196 Kepone TIC	272	10.080	11.994	-1.920	3	4204		0.0259	
T 242 Triphenyl Phosphate TIC	326	12.028	11.994	0.028	0	230		0	
T 280 2,3,7,8-TCDD TIC	198	12.533	12.494	0.033	0	9622		0	
T 241 Tricresyl phosphate TIC	368	12.494	12.494	-0.006	0	45		0	
T 248 2,3,7,8 TCDF TIC	304		13.000					ND	
T 197 Hexachlorophene TIC	198		13.600					ND	
T 239 Tris(2,3-dibromopropyl)pho	201	14.057	13.994	0.057	0	222		0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

SMLIST1 L5 W_00005 Amount Added: 1.00 Units: mL

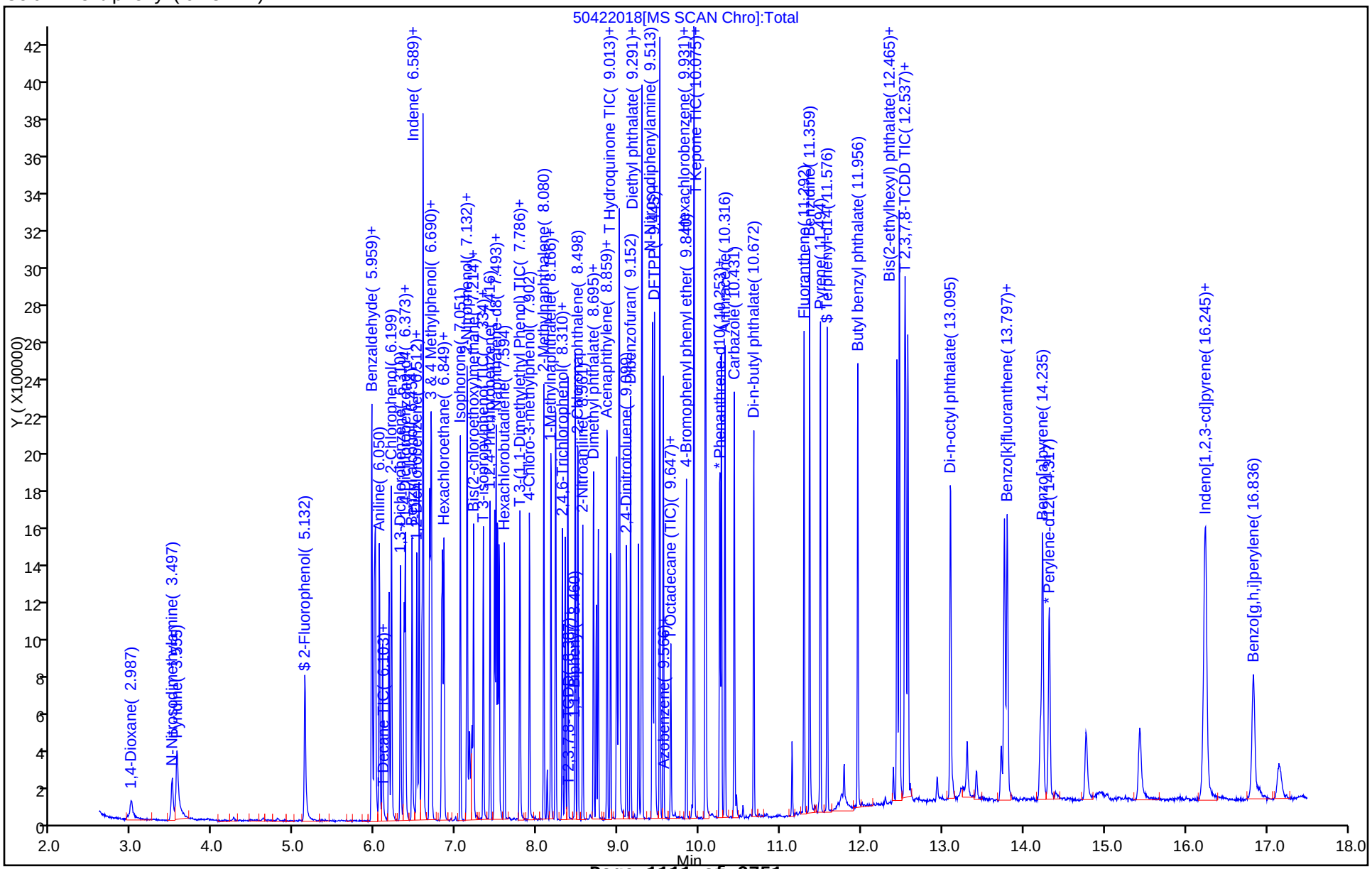
Report Date: 23-Apr-2015 11:00:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422018.D

Injection Date:	22-Apr-2015 14:44:30	Instrument ID:	A4HP9	Operator ID:	001574
Lims ID:	mrl qccl			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270 _9	Limit Group:	MSS 8270 DOD ICAL		

Column: 5% phenyl (0.18 mm)



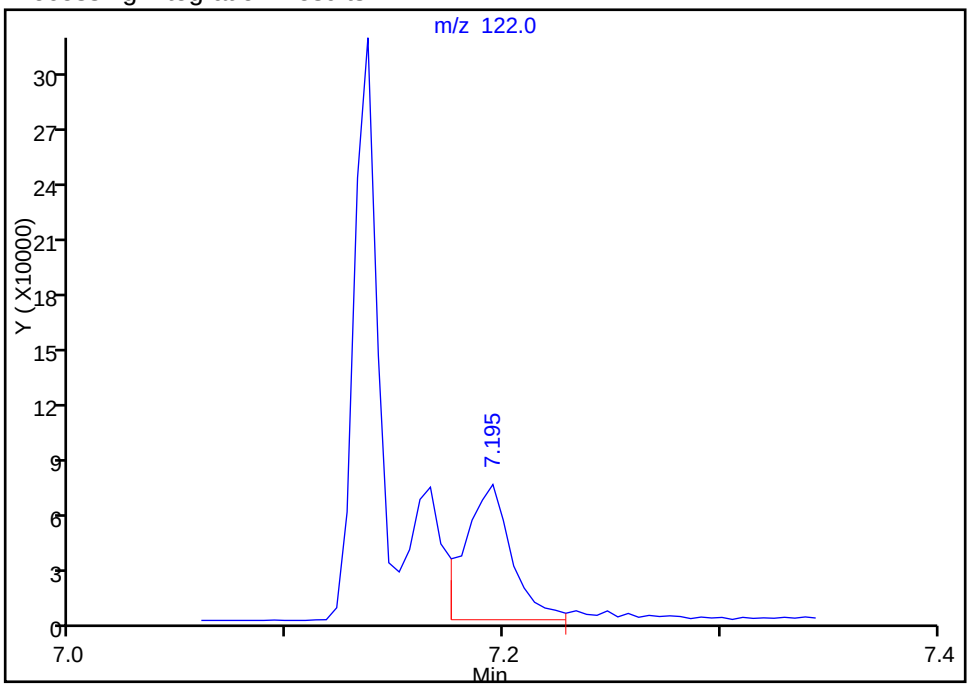
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A4HP9\20150422-42803.b\50422018.D
Injection Date: 22-Apr-2015 14:44:30 Instrument ID: A4HP9
Lims ID: mrl qccl
Client ID:
Operator ID: 001574 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270 _9 Limit Group: MSS 8270 DOD ICAL
Column: 5% phenyl (0.18 mm) Detector MS SCAN

71 Benzoic acid, CAS: 65-85-0

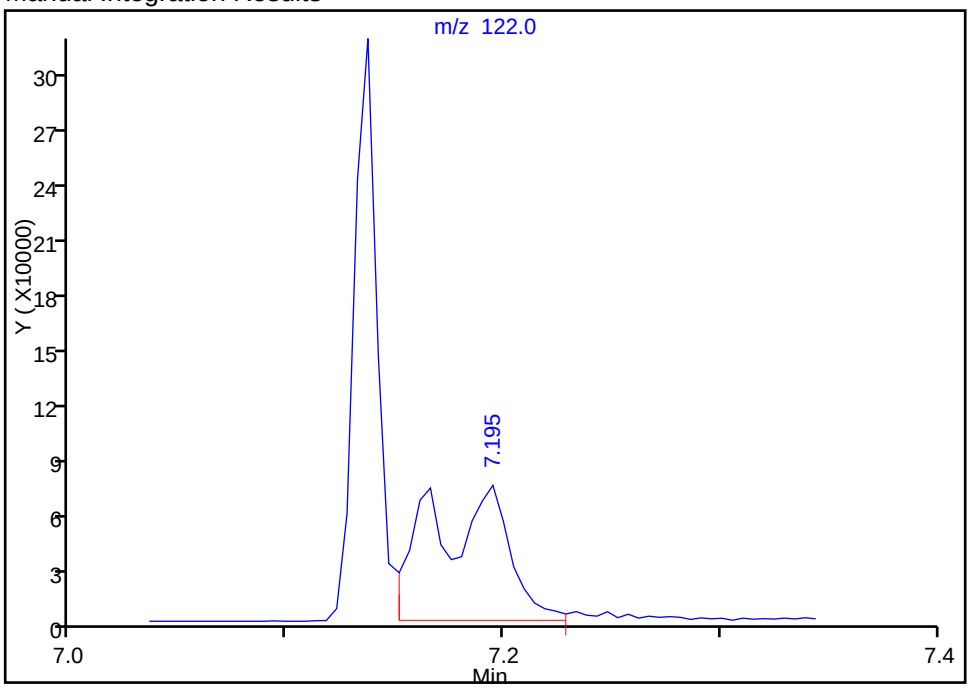
Processing Integration Results

RT: 7.19
Area: 111095
Amount: 4.991138
Amount Units: ng/ul



Manual Integration Results

RT: 7.19
Area: 180426
Amount: 7.204289
Amount Units: ng/ul



Reviewer: ulmanm, 22-Apr-2015 15:14:26
Audit Action: Manually Integrated
Audit Reason: Poor Chromatography

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Start Date: 04/20/2015 08:28

Analysis Batch Number: 177011 End Date: 04/20/2015 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-177011/1		04/20/2015 08:28	1	50420001.D	RXI-5SILMS 0.45(mm)
STD5 240-177011/2 IC		04/20/2015 08:49	1	50420002.D	RXI-5SILMS 0.45(mm)
STD4 240-177011/3 IC		04/20/2015 09:14	1	50420003.D	RXI-5SILMS 0.45(mm)
STD3 240-177011/4 IC		04/20/2015 09:40	1	50420004.D	RXI-5SILMS 0.45(mm)
STD2 240-177011/5 IC		04/20/2015 10:05	1	50420005.D	RXI-5SILMS 0.45(mm)
STD1 240-177011/6 IC		04/20/2015 10:31	1	50420006.D	RXI-5SILMS 0.45(mm)
STD9 240-177011/7 IC		04/20/2015 10:56	1	50420007.D	RXI-5SILMS 0.45(mm)
STD8 240-177011/8 IC		04/20/2015 11:22	1	50420008.D	RXI-5SILMS 0.45(mm)
STD7 240-177011/9 IC		04/20/2015 11:47	1	50420009.D	RXI-5SILMS 0.45(mm)
STD6 240-177011/10 ICIS		04/20/2015 12:41	1	50420010.D	RXI-5SILMS 0.45(mm)
ICV 240-177011/11		04/20/2015 13:07	1	50420011.D	RXI-5SILMS 0.45(mm)
STD5 240-177011/12 IC		04/20/2015 13:33	1		RXI-5SILMS 0.45(mm)
STD4 240-177011/13 IC		04/20/2015 13:59	1		RXI-5SILMS 0.45(mm)
STD3 240-177011/14 IC		04/20/2015 14:24	1		RXI-5SILMS 0.45(mm)
STD2 240-177011/15 IC		04/20/2015 14:48	1		RXI-5SILMS 0.45(mm)
STD6 240-177011/16 IC		04/20/2015 15:13	1		RXI-5SILMS 0.45(mm)
STD7 240-177011/17 IC		04/20/2015 15:37	1		RXI-5SILMS 0.45(mm)
STD8 240-177011/18 IC		04/20/2015 16:02	1		RXI-5SILMS 0.45(mm)
STD9 240-177011/19 IC		04/20/2015 16:27	1		RXI-5SILMS 0.45(mm)
ICV 240-177011/20		04/20/2015 16:51	1		RXI-5SILMS 0.45(mm)
STD5 240-177011/21 IC		04/20/2015 17:16	1		RXI-5SILMS 0.45(mm)
STD4 240-177011/22 IC		04/20/2015 17:41	1		RXI-5SILMS 0.45(mm)
STD3 240-177011/23 IC		04/20/2015 18:05	1		RXI-5SILMS 0.45(mm)
STD2 240-177011/24 IC		04/20/2015 18:30	1		RXI-5SILMS 0.45(mm)
STD6 240-177011/25 IC		04/20/2015 18:54	1		RXI-5SILMS 0.45(mm)
STD7 240-177011/26 IC		04/20/2015 19:19	1		RXI-5SILMS 0.45(mm)
STD8 240-177011/27 IC		04/20/2015 19:43	1		RXI-5SILMS 0.45(mm)
STD9 240-177011/28 IC		04/20/2015 20:08	1		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A4HP9 Start Date: 04/22/2015 07:14

Analysis Batch Number: 177355 End Date: 04/22/2015 16:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-177355/1		04/22/2015 07:14	1	50422001.D	RXI-5SILMS 0.45(mm)
CCV 240-177355/2		04/22/2015 07:35	1	50422002.D	RXI-5SILMS 0.45(mm)
MRL 240-177355/3		04/22/2015 08:04	1	50422003.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 08:29	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 08:54	1		RXI-5SILMS 0.45(mm)
MB 240-176319/23-A		04/22/2015 09:19	1	50422006.D	RXI-5SILMS 0.45(mm)
LCS 240-176319/24-A		04/22/2015 09:44	1	50422007.D	RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 10:09	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 10:34	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 10:59	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 11:24	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 11:49	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 12:14	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 12:39	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 13:04	1		RXI-5SILMS 0.45(mm)
ZZZZZ		04/22/2015 13:29	1		RXI-5SILMS 0.45(mm)
240-49071-2	079SS-0342M-0001,0002-SO	04/22/2015 13:54	1	50422017.D	RXI-5SILMS 0.45(mm)
MRL 240-177355/18		04/22/2015 14:44	1	50422018.D	RXI-5SILMS 0.45(mm)
LODV 240-177355/19		04/22/2015 15:09	1	50422019.D	RXI-5SILMS 0.45(mm)
LODV 240-177355/20		04/22/2015 15:34	1	50422020.D	RXI-5SILMS 0.45(mm)
LODV 240-177355/21		04/22/2015 15:59	1	50422021.D	RXI-5SILMS 0.45(mm)
LODV 240-177355/48		04/22/2015 16:24	1	50422048.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176059 Batch Start Date: 04/08/15 16:00 Batch Analyst: Jones, Diane

Batch Method: Increment, Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-49071-A-2	079SS-0342M-0001 ,0002-SO	Increment, Prep, 3540C, 8270C	T	Disagg 4/11					

Batch Notes	
First End time	Ground/Sieved 4/9 and 4/11, split 4/13
First Start time	4/8/15

Basis	Basis Description
T	Total/NA

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176319 Batch Start Date: 04/14/15 11:00 Batch Analyst: Earle, Steve

Batch Method: 3540C Batch End Date: 04/15/15 03:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXBenzaldehyd 00019	EXBNASPIKE 00038	EXBNASURR W 00021	
240-49071-A-2-A	079SS-0342M-0001 ,0002-SO	3540C, 8270C	T	30.30 g	2 mL			1 mL	
MB 240-176319/23		3540C, 8270C		30 g	2 mL			1 mL	
LCS 240-176319/24		3540C, 8270C		30 g	2 mL	1 mL	1 mL	1 mL	

Batch Notes	
Balance ID	1339912
Na2SO4 Lot Number	1942694
Prep Solvent Lot #	1937120

Basis	Basis Description
T	Total/NA

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

Method 8081 DOD

Organochlorine Pesticides (GC) by Method 8081/DOD

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCB1	#	DCB2	#
079SS-0342M-0001,0002-SO RE	240-49071-2 RE	140	Q	72	Q	78	Q	73	Q
	MB 240-177037/7-A	98		100		103		105	
	LCS 240-177037/8-A	84		90		89		95	
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	109		108		94		96	
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	76		39	Q	42	Q	44	Q

	QC LIMITS
TCX = Tetrachloro-m-xylene	70-125
DCB = DCB Decachlorobiphenyl	55-130

Column to be used to flag recovery values

FORM II 8081A

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-177258/31	120	116	123	123
	MRL 240-177258/49	118	117	117	116
	MRL 240-177463/18	113	108	110	114
	MRL 240-177463/21	117	111	115	114

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8081A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: P3042219.D

Lab ID: LCS 240-177037/8-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	33.3	32.6	98	30-135	
4,4'-DDE	33.3	25.9	78	70-125	
4,4'-DDT	33.3	30.8	92	45-140	
Aldrin	33.3	23.1	69	45-140	
alpha-BHC	33.3	28.8	86	60-125	
alpha-Chlordane	33.3	27.7	83	65-120	
beta-BHC	33.3	26.6	80	60-125	
delta-BHC	33.3	28.4	85	55-130	
Dieldrin	33.3	29.1	87	65-125	
Endosulfan I	33.3	16.8	50	15-135	
Endosulfan II	33.3	22.8	68	35-140	
Endosulfan sulfate	33.3	28.4	85	60-135	
Endrin	33.3	30.1	90	60-135	
Endrin aldehyde	33.3	27.8	83	35-145	
Endrin ketone	33.3	27.0	81	65-135	
gamma-BHC (Lindane)	33.3	29.1	87	60-125	
gamma-Chlordane	33.3	28.2	85	65-125	
Heptachlor	33.3	31.5	94	50-140	
Heptachlor epoxide	33.3	28.7	86	65-130	
Methoxychlor	33.3	30.7	92	55-145	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P3042131.D

Lab ID: MRL 240-177258/31 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	5.00	5.36	107	70-130	
4,4'-DDD	5.00	5.27	105	70-130	
4,4'-DDE	5.00	5.45	109	70-130	
4,4'-DDE	5.00	5.62	112	70-130	
4,4'-DDT	5.00	4.88	98	70-130	
4,4'-DDT	5.00	4.99	100	70-130	
Aldrin	5.00	5.49	110	70-130	
Aldrin	5.00	5.59	112	70-130	
alpha-BHC	5.00	5.33	107	70-130	
alpha-BHC	5.00	5.41	108	70-130	
alpha-Chlordane	5.00	5.66	113	70-130	
alpha-Chlordane	5.00	5.78	116	70-130	
beta-BHC	5.00	6.10	122	70-130	
beta-BHC	5.00	6.12	122	70-130	
delta-BHC	5.00	5.07	101	70-130	
delta-BHC	5.00	5.22	104	70-130	
Dieldrin	5.00	5.61	112	70-130	
Dieldrin	5.00	5.81	116	70-130	
Endosulfan I	5.00	5.86	117	70-130	
Endosulfan I	5.00	6.00	120	70-130	
Endosulfan II	5.00	6.21	124	70-130	
Endosulfan II	5.00	6.43	129	70-130	
Endosulfan sulfate	5.00	6.06	121	70-130	
Endosulfan sulfate	5.00	6.12	122	70-130	
Endrin	5.00	5.75	115	70-130	
Endrin	5.00	5.81	116	70-130	
Endrin aldehyde	5.00	6.03	121	70-130	
Endrin aldehyde	5.00	6.07	121	70-130	
Endrin ketone	5.00	5.88	118	70-130	
Endrin ketone	5.00	5.82	116	70-130	
gamma-BHC (Lindane)	5.00	5.48	110	70-130	
gamma-BHC (Lindane)	5.00	5.54	111	70-130	
gamma-Chlordane	5.00	5.54	111	70-130	
gamma-Chlordane	5.00	5.77	115	70-130	
Heptachlor	5.00	5.88	118	70-130	
Heptachlor	5.00	6.12	122	70-130	
Heptachlor epoxide	5.00	5.86	117	70-130	
Heptachlor epoxide	5.00	6.00	120	70-130	
Methoxychlor	5.00	5.97	119	70-130	
Methoxychlor	5.00	6.05	121	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P3042149.D

Lab ID: MRL 240-177258/49 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	5.00	5.35	107	70-130	
4,4'-DDD	5.00	5.23	105	70-130	
4,4'-DDE	5.00	5.35	107	70-130	
4,4'-DDE	5.00	5.45	109	70-130	
4,4'-DDT	5.00	3.49	70	70-130	
4,4'-DDT	5.00	3.45	69	70-130	^
Aldrin	5.00	5.43	109	70-130	
Aldrin	5.00	5.55	111	70-130	
alpha-BHC	5.00	5.37	107	70-130	
alpha-BHC	5.00	5.38	108	70-130	
alpha-Chlordane	5.00	5.57	111	70-130	
alpha-Chlordane	5.00	5.64	113	70-130	
beta-BHC	5.00	5.80	116	70-130	
beta-BHC	5.00	6.04	121	70-130	
delta-BHC	5.00	4.82	96	70-130	
delta-BHC	5.00	4.89	98	70-130	
Dieldrin	5.00	5.56	111	70-130	
Dieldrin	5.00	5.67	113	70-130	
Endosulfan I	5.00	5.78	116	70-130	
Endosulfan I	5.00	5.87	117	70-130	
Endosulfan II	5.00	6.16	123	70-130	
Endosulfan II	5.00	6.49	130	70-130	
Endosulfan sulfate	5.00	5.67	113	70-130	
Endosulfan sulfate	5.00	5.64	113	70-130	
Endrin	5.00	5.61	112	70-130	
Endrin	5.00	5.42	108	70-130	
Endrin aldehyde	5.00	5.29	106	70-130	
Endrin aldehyde	5.00	5.21	104	70-130	
Endrin ketone	5.00	5.38	108	70-130	
Endrin ketone	5.00	5.35	107	70-130	
gamma-BHC (Lindane)	5.00	5.36	107	70-130	
gamma-BHC (Lindane)	5.00	5.46	109	70-130	
gamma-Chlordane	5.00	5.45	109	70-130	
gamma-Chlordane	5.00	5.65	113	70-130	
Heptachlor	5.00	5.73	115	70-130	
Heptachlor	5.00	5.96	119	70-130	
Heptachlor epoxide	5.00	5.76	115	70-130	
Heptachlor epoxide	5.00	5.86	117	70-130	
Methoxychlor	5.00	4.23	85	70-130	
Methoxychlor	5.00	3.94	79	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P3042218.D

Lab ID: MRL 240-177463/18 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	5.00	3.82	76	70-130	
4,4'-DDD	5.00	3.99	80	70-130	
4,4'-DDE	5.00	4.48	90	70-130	
4,4'-DDE	5.00	4.80	96	70-130	
4,4'-DDT	5.00	3.60	72	70-130	
4,4'-DDT	5.00	3.63	73	70-130	
Aldrin	5.00	5.08	102	70-130	
Aldrin	5.00	5.27	105	70-130	
alpha-BHC	5.00	4.93	99	70-130	
alpha-BHC	5.00	5.04	101	70-130	
alpha-Chlordane	5.00	5.13	103	70-130	
alpha-Chlordane	5.00	5.27	105	70-130	
beta-BHC	5.00	5.49	110	70-130	
beta-BHC	5.00	5.53	111	70-130	
delta-BHC	5.00	4.34	87	70-130	
delta-BHC	5.00	4.37	87	70-130	
Dieldrin	5.00	5.01	100	70-130	
Dieldrin	5.00	5.30	106	70-130	
Endosulfan I	5.00	5.27	105	70-130	
Endosulfan I	5.00	5.49	110	70-130	
Endosulfan II	5.00	6.00	120	70-130	
Endosulfan II	5.00	6.34	127	70-130	
Endosulfan sulfate	5.00	5.49	110	70-130	
Endosulfan sulfate	5.00	5.32	106	70-130	
Endrin	5.00	5.07	101	70-130	
Endrin	5.00	5.09	102	70-130	
Endrin aldehyde	5.00	4.94	99	70-130	
Endrin aldehyde	5.00	4.95	99	70-130	
Endrin ketone	5.00	5.28	106	70-130	
Endrin ketone	5.00	5.23	105	70-130	
gamma-BHC (Lindane)	5.00	4.99	100	70-130	
gamma-BHC (Lindane)	5.00	5.12	102	70-130	
gamma-Chlordane	5.00	5.04	101	70-130	
gamma-Chlordane	5.00	5.25	105	70-130	
Heptachlor	5.00	5.36	107	70-130	
Heptachlor	5.00	5.78	116	70-130	
Heptachlor epoxide	5.00	5.37	107	70-130	
Heptachlor epoxide	5.00	5.56	111	70-130	
Methoxychlor	5.00	4.76	95	70-130	
Methoxychlor	5.00	4.19	84	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P3042221.D

Lab ID: MRL 240-177463/21 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MRL CONCENTRATION (ug/L)	MRL % REC	QC LIMITS REC	#
4,4'-DDD	5.00	4.20	84	70-130	
4,4'-DDD	5.00	4.33	87	70-130	
4,4'-DDE	5.00	5.09	102	70-130	
4,4'-DDE	5.00	5.20	104	70-130	
4,4'-DDT	5.00	3.95	79	70-130	
4,4'-DDT	5.00	3.94	79	70-130	
Aldrin	5.00	5.25	105	70-130	
Aldrin	5.00	5.43	109	70-130	
alpha-BHC	5.00	5.14	103	70-130	
alpha-BHC	5.00	5.22	104	70-130	
alpha-Chlordane	5.00	5.31	106	70-130	
alpha-Chlordane	5.00	5.60	112	70-130	
beta-BHC	5.00	5.58	112	70-130	
beta-BHC	5.00	5.96	119	70-130	
delta-BHC	5.00	4.62	92	70-130	
delta-BHC	5.00	4.61	92	70-130	
Dieldrin	5.00	5.39	108	70-130	
Dieldrin	5.00	5.65	113	70-130	
Endosulfan I	5.00	5.58	112	70-130	
Endosulfan I	5.00	5.86	117	70-130	
Endosulfan II	5.00	6.01	120	70-130	
Endosulfan II	5.00	6.55	131	70-130	^
Endosulfan sulfate	5.00	5.59	112	70-130	
Endosulfan sulfate	5.00	5.75	115	70-130	
Endrin	5.00	5.44	109	70-130	
Endrin	5.00	5.41	108	70-130	
Endrin aldehyde	5.00	5.04	101	70-130	
Endrin aldehyde	5.00	5.05	101	70-130	
Endrin ketone	5.00	5.43	109	70-130	
Endrin ketone	5.00	5.49	110	70-130	
gamma-BHC (Lindane)	5.00	5.14	103	70-130	
gamma-BHC (Lindane)	5.00	5.37	107	70-130	
gamma-Chlordane	5.00	5.26	105	70-130	
gamma-Chlordane	5.00	5.59	112	70-130	
Heptachlor	5.00	5.60	112	70-130	
Heptachlor	5.00	6.02	120	70-130	
Heptachlor epoxide	5.00	5.57	111	70-130	
Heptachlor epoxide	5.00	5.80	116	70-130	
Methoxychlor	5.00	5.06	101	70-130	
Methoxychlor	5.00	4.61	92	70-130	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: P3042133.D

Lab ID: 240-49071-2 MS Client ID: 079SS-0342M-0001,0002-SO MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
4,4'-DDD	34.6	0.44 U	34.2	99	30-135	
4,4'-DDE	34.6	0.44 U	32.0	92	70-125	
4,4'-DDT	34.6	0.86 U	31.9	92	45-140	
Aldrin	34.6	0.86 U	25.8	75	45-140	
alpha-BHC	34.6	1.8 U	32.6	94	60-125	
alpha-Chlordane	34.6	0.86 U	23.3	67	65-120	
beta-BHC	34.6	2.4 J	30.8	82	60-125	
delta-BHC	34.6	0.86 U	30.8	89	55-130	
Dieldrin	34.6	0.44 U	31.8	92	65-125	
Endosulfan I	34.6	0.86 U	18.9	54	15-135	
Endosulfan II	34.6	0.86 U	25.3	73	35-140	
Endosulfan sulfate	34.6	0.86 U	31.1	90	60-135	
Endrin	34.6	0.86 U	36.3	105	60-135	
Endrin aldehyde	34.6	0.86 U	30.1	87	35-145	
Endrin ketone	34.6	1.8 U	30.7	89	65-135	
gamma-BHC (Lindane)	34.6	1.8 U	31.8	92	60-125	
gamma-Chlordane	34.6	1.8 U	35.0	101	65-125	
Heptachlor	34.6	1.8 U	33.0	95	50-140	
Heptachlor epoxide	34.6	1.8 U	31.6	91	65-130	
Methoxychlor	34.6	1.8 U	33.8	98	55-145	

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: P3042134.D

Lab ID: 240-49071-2 MSD Client ID: 079SS-0342M-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	34.6	13.7	40	86	30	30-135	Q J
4,4'-DDE	34.6	12.5	36	87	30	70-125	Q J
4,4'-DDT	34.6	12.3	35	89	30	45-140	Q J
Aldrin	34.6	9.96	29	89	30	45-140	Q J
alpha-BHC	34.6	13.0	38	86	30	60-125	Q J
alpha-Chlordane	34.6	11.3	33	69	30	65-120	Q J
beta-BHC	34.6	12.8	30	83	30	60-125	Q J
delta-BHC	34.6	11.9	35	88	30	55-130	Q J
Dieldrin	34.6	12.4	36	88	30	65-125	Q J
Endosulfan I	34.6	7.33	21	88	30	15-135	Q J
Endosulfan II	34.6	9.58	28	90	30	35-140	Q J
Endosulfan sulfate	34.6	11.5	33	92	30	60-135	Q J
Endrin	34.6	14.1	41	88	30	60-135	Q J
Endrin aldehyde	34.6	10.9	32	93	30	35-145	Q J
Endrin ketone	34.6	11.6	34	90	30	65-135	Q J
gamma-BHC (Lindane)	34.6	12.5	36	87	30	60-125	Q J
gamma-Chlordane	34.6	13.2	38	90	30	65-125	Q J
Heptachlor	34.6	13.5	39	84	30	50-140	Q J
Heptachlor epoxide	34.6	12.6	36	86	30	65-130	Q J
Methoxychlor	34.6	12.7	37	91	30	55-145	Q J

Column to be used to flag recovery and RPD values

FORM III 8081A

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: MB 240-177037/7-A

Matrix: Solid Date Extracted: 04/20/2015 09:00

Lab File ID:(1) P3042138.D Lab File ID:(2) P3042138.D

Date Analyzed:(1) 04/22/2015 03:02 Date Analyzed:(2) 04/22/2015 03:02

Instrument ID:(1) A2HP3 Instrument ID:(2) A2HP3

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SS-0342M-0001,0002-SO RE	240-49071-2 RE	04/22/2015 00:45	04/22/2015 00:45
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	04/22/2015 01:08	04/22/2015 01:08
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	04/22/2015 01:31	04/22/2015 01:31
	LCS 240-177037/8-A	04/22/2015 21:41	04/22/2015 21:41

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD 240-174448/27 Date Analyzed: 03/31/2015 21:20

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3033127.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.60	13.01	
UPPER LIMIT				3.63	13.04	
LOWER LIMIT				3.57	12.98	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-174448/27 ICRT		03/31/2015 21:20	P3033127.D	3.60	13.01	

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD 240-174448/27 Date Analyzed: 03/31/2015 21:20

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3033127.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				4.29	14.57	
UPPER LIMIT				4.32	14.60	
LOWER LIMIT				4.26	14.54	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-174448/27 ICRT		03/31/2015 21:20	P3033127.D	4.29	14.57	

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177258/10 Date Analyzed: 04/21/2015 16:19

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3042110.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.56	12.94	
UPPER LIMIT				3.59	12.97	
LOWER LIMIT				3.53	12.91	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177258/10 CCVRT		04/21/2015 16:19	P3042110.D	3.56	12.94	
PEM 240-177258/27		04/21/2015 22:49	P3042127.D	3.55		
CCV 240-177258/28		04/21/2015 23:12	P3042128.D	3.55	12.94	
240-49071-2 RE	079SS-0342M-0001,0002 -SO RE	04/22/2015 00:45	P3042132.D	3.56	12.94	
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/22/2015 01:08	P3042133.D	3.56	12.94	
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/22/2015 01:31	P3042134.D	3.55	12.94	
MB 240-177037/7-A		04/22/2015 03:02	P3042138.D	3.55	12.94	
CCV 240-177258/40		04/22/2015 03:48	P3042140.D	3.55	12.94	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177258/10 Date Analyzed: 04/21/2015 16:19

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3042110.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.23	14.49	
UPPER LIMIT				4.26	14.52	
LOWER LIMIT				4.20	14.46	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177258/10 CCVRT		04/21/2015 16:19	P3042110.D	4.23	14.49	
PEM 240-177258/27		04/21/2015 22:49	P3042127.D	4.24		
CCV 240-177258/28		04/21/2015 23:12	P3042128.D	4.24	14.49	
240-49071-2 RE	079SS-0342M-0001,0002 -SO RE	04/22/2015 00:45	P3042132.D	4.24	14.49	
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/22/2015 01:08	P3042133.D	4.24	14.49	
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/22/2015 01:31	P3042134.D	4.24	14.49	
MB 240-177037/7-A		04/22/2015 03:02	P3042138.D	4.24	14.49	
CCV 240-177258/40		04/22/2015 03:48	P3042140.D	4.24	14.49	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177463/8 Date Analyzed: 04/22/2015 17:19

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3042208.D Heated Purge: (Y/N) N

Calibration ID: 27642

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.56	12.94	
UPPER LIMIT				3.59	12.97	
LOWER LIMIT				3.53	12.91	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177463/8 CCVRT		04/22/2015 17:19	P3042208.D	3.56	12.94	
CCV 240-177463/16		04/22/2015 20:29	P3042216.D	3.56	12.94	
LCS 240-177037/8-A		04/22/2015 21:41	P3042219.D	3.56	12.94	
CCV 240-177463/24		04/22/2015 23:37	P3042224.D	3.56	12.94	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177463/8 Date Analyzed: 04/22/2015 17:19

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3042208.D Heated Purge: (Y/N) N

Calibration ID: 27643

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.24	14.49	
UPPER LIMIT				4.27	14.52	
LOWER LIMIT				4.21	14.46	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-177463/8 CCVRT		04/22/2015 17:19	P3042208.D	4.24	14.49	
CCV 240-177463/16		04/22/2015 20:29	P3042216.D	4.23	14.49	
LCS 240-177037/8-A		04/22/2015 21:41	P3042219.D	4.24	14.49	
CCV 240-177463/24		04/22/2015 23:37	P3042224.D	4.24	14.49	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0 minutes of surrogate RT
DCB RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8081A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO RE Lab Sample ID: 240-49071-2 RE

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/22/2015 00:45 Date Analyzed (2): 04/22/2015 00:45

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
beta-BHC	1		5.98	5.92	5.98	12		134.8
	2		4.77	4.75	4.81	2.4		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO MS Lab Sample ID: 240-49071-2 MS

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/22/2015 01:08 Date Analyzed (2): 04/22/2015 01:08

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		5.13	5.10	5.16	32.5		0.5
	2		4.25	4.22	4.28	32.6		
gamma-BHC (Lindane)	1		5.75	5.72	5.78	31.6		0.7
	2		4.64	4.61	4.67	31.8		
beta-BHC	1		5.96	5.92	5.98	51.5		50.3
	2		4.78	4.75	4.81	30.8		
delta-BHC	1		6.57	6.54	6.60	28.5		7.7
	2		5.00	4.97	5.03	30.8		
Heptachlor	1		6.66	6.62	6.68	30.6		7.4
	2		5.29	5.25	5.31	33.0		
Aldrin	1		7.46	7.43	7.49	30.4		16.1
	2		5.75	5.72	5.78	25.8		
Heptachlor epoxide	1		8.89	8.86	8.92	28.3		11.0
	2		7.03	6.99	7.05	31.6		
gamma-Chlordane	1		9.29	9.26	9.32	29.6		16.8
	2		7.34	7.31	7.37	35.0		
alpha-Chlordane	1		9.58	9.55	9.61	28.9		21.4
	2		7.69	7.65	7.71	23.3		
Endosulfan I	1		9.65	9.62	9.68	22.9		19.3
	2		7.96	7.93	7.99	18.9		
4,4'-DDE	1		10.01	9.98	10.04	31.3		2.1
	2		8.05	8.03	8.09	32.0		
Dieldrin	1		10.17	10.14	10.20	33.6		5.6
	2		8.51	8.48	8.54	31.8		
Endrin	1		10.68	10.65	10.71	34.3		5.8
	2		8.96	8.93	8.99	36.3		
4,4'-DDD	1		11.00	10.98	11.04	34.8		1.5
	2		9.32	9.30	9.36	34.2		
Endosulfan II	1		11.05	11.02	11.08	25.9		2.6
	2		9.41	9.38	9.44	25.3		
4,4'-DDT	1		11.49	11.46	11.52	34.4		7.7
	2		9.84	9.81	9.87	31.9		
Endrin aldehyde	1		11.61	11.58	11.64	31.8		5.5
	2		10.21	10.18	10.24	30.1		
Endosulfan sulfate	1		12.03	12.00	12.06	32.6		4.7
	2		10.93	10.90	10.96	31.1		
Methoxychlor	1		12.55	12.53	12.59	31.0		8.6
	2		10.79	10.76	10.82	33.8		
Endrin ketone	1		12.78	12.75	12.81	32.3		5.2
	2		11.33	11.30	11.36	30.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO MS Lab Sample ID: 240-49071-2 MSD

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/22/2015 01:31 Date Analyzed (2): 04/22/2015 01:31

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		5.13	5.10	5.16	12.6		2.6
	2		4.25	4.22	4.28	13.0		
gamma-BHC (Lindane)	1		5.75	5.72	5.78	12.2		2.9
	2		4.64	4.61	4.67	12.5		
beta-BHC	1		5.97	5.92	5.98	22.8		56.2
	2		4.77	4.75	4.81	12.8		
delta-BHC	1		6.57	6.54	6.60	10.7		11.0
	2		5.00	4.97	5.03	11.9		
Heptachlor	1		6.65	6.62	6.68	12.3		8.8
	2		5.28	5.25	5.31	13.5		
Aldrin	1		7.46	7.43	7.49	12.3		21.4
	2		5.75	5.72	5.78	9.96		
Heptachlor epoxide	1		8.89	8.86	8.92	11.3		11.1
	2		7.02	6.99	7.05	12.6		
gamma-Chlordane	1		9.28	9.26	9.32	11.3		15.9
	2		7.34	7.31	7.37	13.2		
alpha-Chlordane	1		9.58	9.55	9.61	11.0		2.6
	2		7.69	7.65	7.71	11.3		
Endosulfan I	1		9.65	9.62	9.68	8.54		15.2
	2		7.96	7.93	7.99	7.33		
4,4'-DDE	1		10.01	9.98	10.04	12.0		4.2
	2		8.05	8.03	8.09	12.5		
Dieldrin	1		10.17	10.14	10.20	12.4		0.4
	2		8.51	8.48	8.54	12.4		
Endrin	1		10.68	10.65	10.71	13.0		8.5
	2		8.96	8.93	8.99	14.1		
4,4'-DDD	1		11.00	10.98	11.04	12.7		7.4
	2		9.32	9.30	9.36	13.7		
Endosulfan II	1		11.05	11.02	11.08	9.60		0.3
	2		9.41	9.38	9.44	9.58		
4,4'-DDT	1		11.49	11.46	11.52	12.2		0.6
	2		9.84	9.81	9.87	12.3		
Endrin aldehyde	1		11.61	11.58	11.64	11.4		4.1
	2		10.21	10.18	10.24	10.9		
Endosulfan sulfate	1		12.03	12.00	12.06	11.9		2.9
	2		10.93	10.90	10.96	11.5		
Methoxychlor	1		12.55	12.53	12.59	11.2		12.0
	2		10.79	10.76	10.82	12.7		
Endrin ketone	1		12.77	12.75	12.81	11.2		3.7
	2		11.33	11.30	11.36	11.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-177037/8-A

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 04/22/2015 21:41 Date Analyzed (2): 04/22/2015 21:41

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		5.13	5.10	5.16	29.9		3.7
	2		4.25	4.22	4.28	28.8		
gamma-BHC (Lindane)	1		5.75	5.72	5.78	29.6		1.8
	2		4.64	4.61	4.67	29.1		
beta-BHC	1		5.95	5.92	5.98	26.8		0.8
	2		4.78	4.75	4.81	26.6		
delta-BHC	1		6.57	6.54	6.60	25.1		12.4
	2		5.00	4.97	5.03	28.4		
Heptachlor	1		6.65	6.62	6.68	29.1		8.0
	2		5.28	5.25	5.31	31.5		
Aldrin	1		7.46	7.43	7.49	28.8		21.7
	2		5.75	5.72	5.78	23.1		
Heptachlor epoxide	1		8.89	8.86	8.92	30.4		5.7
	2		7.02	7.00	7.06	28.7		
gamma-Chlordane	1		9.28	9.25	9.31	27.9		1.1
	2		7.34	7.31	7.37	28.2		
alpha-Chlordane	1		9.58	9.55	9.61	28.3		2.0
	2		7.68	7.65	7.71	27.7		
Endosulfan I	1		9.65	9.62	9.68	21.6		25.3
	2		7.96	7.93	7.99	16.8		
4,4'-DDE	1		10.01	9.98	10.04	29.4		12.7
	2		8.05	8.04	8.10	25.9		
Dieldrin	1		10.17	10.14	10.20	30.2		3.8
	2		8.51	8.48	8.54	29.1		
Endrin	1		10.68	10.65	10.71	30.0		0.2
	2		8.96	8.94	9.00	30.1		
4,4'-DDD	1		11.00	10.98	11.04	31.4		3.8
	2		9.32	9.30	9.36	32.6		
Endosulfan II	1		11.05	11.02	11.08	24.1		5.7
	2		9.41	9.39	9.45	22.8		
4,4'-DDT	1		11.48	11.46	11.52	29.9		2.8
	2		9.84	9.81	9.87	30.8		
Endrin aldehyde	1		11.61	11.58	11.64	28.6		2.9
	2		10.21	10.18	10.24	27.8		
Endosulfan sulfate	1		12.03	12.00	12.06	28.6		0.7
	2		10.93	10.91	10.97	28.4		
Methoxychlor	1		12.55	12.52	12.58	30.6		0.2
	2		10.79	10.77	10.83	30.7		
Endrin ketone	1		12.77	12.74	12.80	27.8		2.8
	2		11.33	11.31	11.37	27.0		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2 RE

Matrix: Solid | Lab File ID: P3042132.D

Analysis Method: 8081A | Date Collected: 04/06/2015 16:30

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:00

Sample wt/vol: 29.51(g) | Date Analyzed: 04/22/2015 00:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.44	U Q J	2.1	0.44	0.21
72-55-9	4,4'-DDE	0.44	U Q J	1.8	0.44	0.28
50-29-3	4,4'-DDT	0.86	U Q J	2.1	0.86	0.32
309-00-2	Aldrin	0.86	U J	4.2	0.86	0.21
5103-71-9	alpha-Chlordane	0.86	U J	3.1	0.86	0.26
319-85-7	beta-BHC	2.4	J	3.6	0.86	0.37
319-86-8	delta-BHC	0.86	U J	4.2	0.86	0.23
60-57-1	Dieldrin	0.44	U Q J	1.8	0.44	0.17
959-98-8	Endosulfan I	0.86	U J	1.8	0.86	0.26
33213-65-9	Endosulfan II	0.86	U Q J	2.6	0.86	0.40
1031-07-8	Endosulfan sulfate	0.86	U Q J	3.1	0.86	0.35
72-20-8	Endrin	0.86	U Q J	1.8	0.86	0.22
7421-93-4	Endrin aldehyde	0.86	U J	3.1	0.86	0.33
53494-70-5	Endrin ketone	1.8	U J	2.1	1.8	0.44
58-89-9	gamma-BHC (Lindane)	1.8	U Q J	2.6	1.8	0.48
5103-74-2	gamma-Chlordane	1.8	U J	1.8	1.8	0.90
76-44-8	Heptachlor	1.8	U Q J	3.6	1.8	0.73
1024-57-3	Heptachlor epoxide	1.8	U Q J	2.6	1.8	0.42
72-43-5	Methoxychlor	1.8	U Q J	5.2	1.8	0.56
8001-35-2	Toxaphene	17	U	70	17	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	73	Q	55-130
877-09-8	Tetrachloro-m-xylene	72	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042132.D
Lims ID: 240-49071-A-2-P Lab Sample ID: 240-49071-2
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: Client
Inject. Date: 22-Apr-2015 00:45:33 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-032
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:31:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.555	3.554	0.001	14074104	14.3	
2	4.236	4.235	0.001	31470048	27.9	
					RPD = 64.47	
4 alpha-BHC						
1	4.257	4.250	0.007	5366604	3.10	
2	5.120	5.129	-0.009	2080470	1.06	
					RPD = 97.85	
5 gamma-BHC (Lindane)						
1		4.639			ND	
2		5.752				
6 beta-BHC						
1	4.766	4.776	-0.010	4349997	6.91	
2	5.977	5.951	0.026	27225519	35.4	
					RPD = 134.75	
7 delta-BHC						
1		4.999			ND	
2		6.574				
9 Heptachlor						
1		5.284			ND	
2		6.654				
10 Aldrin						
1		5.750			ND	
2		7.460				
12 Heptachlor epoxide						
1		7.023			ND	
2		8.891				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
13 gamma-Chlordane						
1		7.339			ND	
2		9.285				
14 alpha-Chlordane						
1		7.684			ND	
2		9.584				
15 Endosulfan I						
1		7.959			ND	
2		9.653				
16 4,4'-DDE						
1		8.057			ND	
2		10.012				
17 Dieldrin						
1		8.510			ND	
2		10.168				
18 Endrin						
1		8.963			ND	
2		10.681				
20 4,4'-DDD						
1		9.326			ND	
2		11.006				
21 Endosulfan II						
1		9.413			ND	
2		11.051				
24 Toxaphene						
1		9.622			ND	
1		10.081				
1		10.393				
1		10.735				
1		10.840				
2		11.025				
2		11.195				
2		11.618				
2		12.353				
2		12.444				
23 4,4'-DDT						
1		9.840			ND	
2		11.488				
25 Endrin aldehyde						
1		10.209			ND	
2		11.609				
27 Methoxychlor						
1		10.792			ND	
2		12.555				
28 Endosulfan sulfate						
1	10.913	10.933	-0.020	587084	0.5893	
2	12.053	12.032	0.021	559366	0.5281	
					RPD = 10.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
29 Endrin ketone						
1		11.334			ND	
2		12.776				
$ 30 DCB Decachlorobiphenyl						
1	12.940	12.940	0.000	13724265	14.7	
2	14.492	14.493	-0.001	15845384	15.6	
					RPD = 6.02	

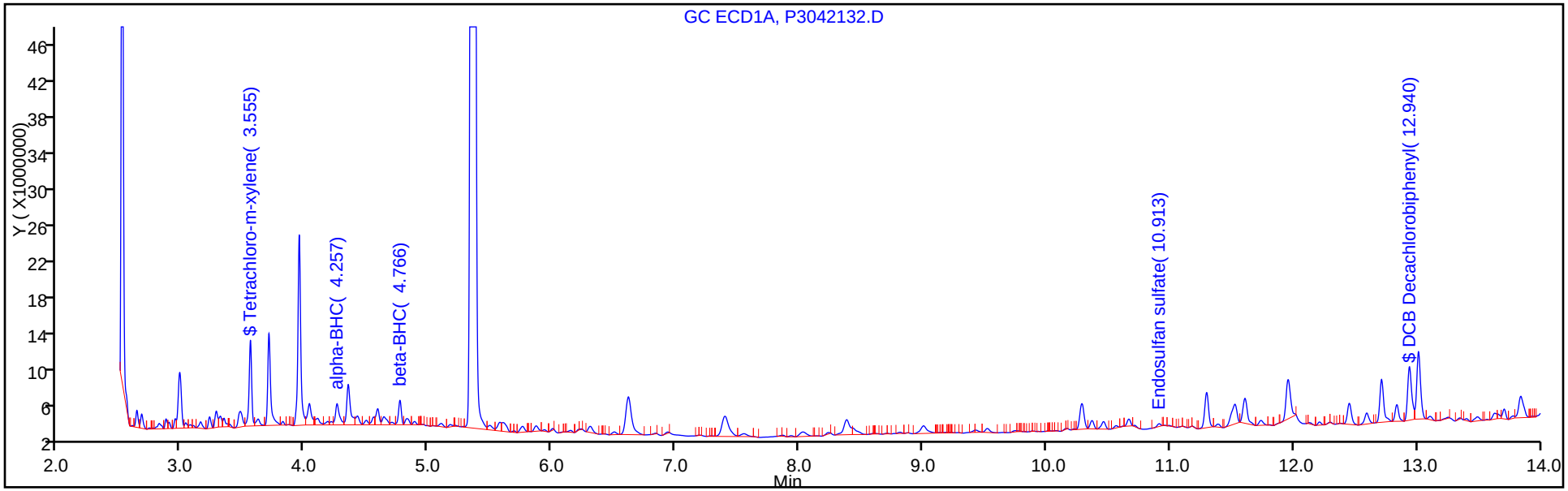
Report Date: 22-Apr-2015 08:58:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

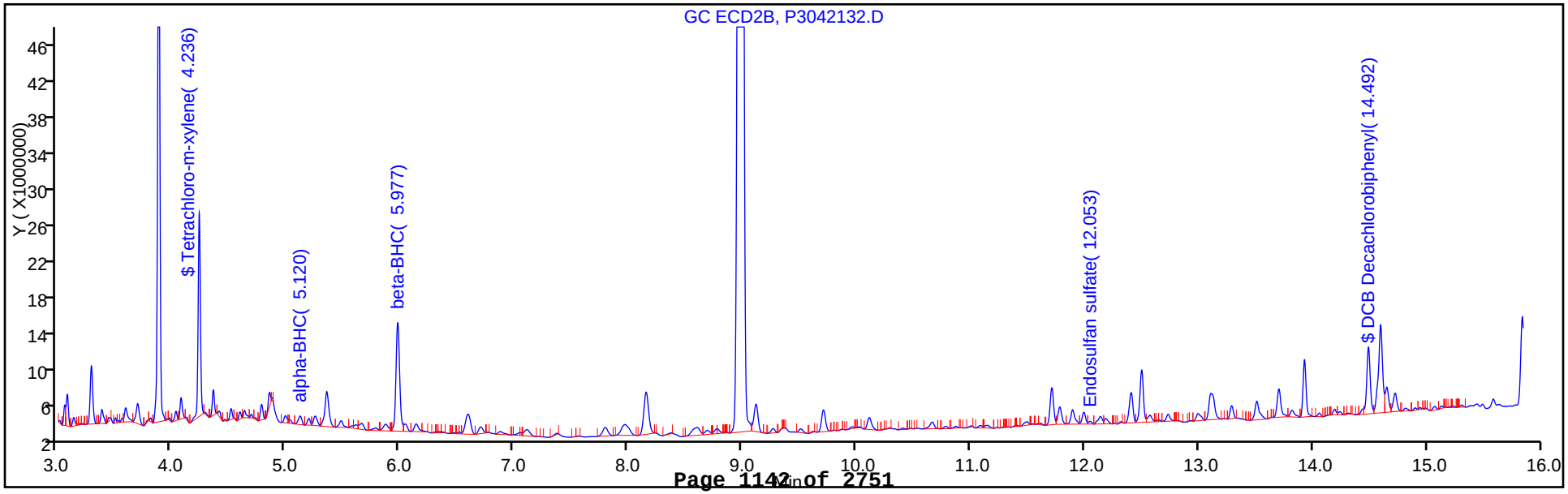
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042132.D

Injection Date:	22-Apr-2015 00:45:33	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49071-A-2-P	Lab Sample ID:	240-49071-2	Worklist Smp#:	32
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 RE

Matrix: Solid Lab File ID: P3042132.D

Analysis Method: 8081A Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:00

Sample wt/vol: 29.51(g) Date Analyzed: 04/22/2015 00:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
319-84-6	alpha-BHC	1.8	U Q J	2.6	1.8	0.62

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	78	Q	55-130
877-09-8	Tetrachloro-m-xylene	140	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042132.D
Lims ID: 240-49071-A-2-P Lab Sample ID: 240-49071-2
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: Client
Inject. Date: 22-Apr-2015 00:45:33 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-032
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:31:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene						
1	3.555	3.554	0.001	14074104	14.3	
2	4.236	4.235	0.001	31470048	27.9	
					RPD = 64.47	
4 alpha-BHC						
1	4.257	4.250	0.007	5366604	3.10	
2	5.120	5.129	-0.009	2080470	1.06	
					RPD = 97.85	
5 gamma-BHC (Lindane)						
1		4.639			ND	
2		5.752				
6 beta-BHC						
1	4.766	4.776	-0.010	4349997	6.91	
2	5.977	5.951	0.026	27225519	35.4	
					RPD = 134.75	
7 delta-BHC						
1		4.999			ND	
2		6.574				
9 Heptachlor						
1		5.284			ND	
2		6.654				
10 Aldrin						
1		5.750			ND	
2		7.460				
12 Heptachlor epoxide						
1		7.023			ND	
2		8.891				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
13 gamma-Chlordane						
1		7.339			ND	
2		9.285				
14 alpha-Chlordane						
1		7.684			ND	
2		9.584				
15 Endosulfan I						
1		7.959			ND	
2		9.653				
16 4,4'-DDE						
1		8.057			ND	
2		10.012				
17 Dieldrin						
1		8.510			ND	
2		10.168				
18 Endrin						
1		8.963			ND	
2		10.681				
20 4,4'-DDD						
1		9.326			ND	
2		11.006				
21 Endosulfan II						
1		9.413			ND	
2		11.051				
24 Toxaphene						
1		9.622			ND	
1		10.081				
1		10.393				
1		10.735				
1		10.840				
2		11.025				
2		11.195				
2		11.618				
2		12.353				
2		12.444				
23 4,4'-DDT						
1		9.840			ND	
2		11.488				
25 Endrin aldehyde						
1		10.209			ND	
2		11.609				
27 Methoxychlor						
1		10.792			ND	
2		12.555				
28 Endosulfan sulfate						
1	10.913	10.933	-0.020	587084	0.5893	
2	12.053	12.032	0.021	559366	0.5281	
					RPD = 10.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
29 Endrin ketone						
1		11.334			ND	
2		12.776				
$ 30 DCB Decachlorobiphenyl						
1	12.940	12.940	0.000	13724265	14.7	
2	14.492	14.493	-0.001	15845384	15.6	
					RPD = 6.02	

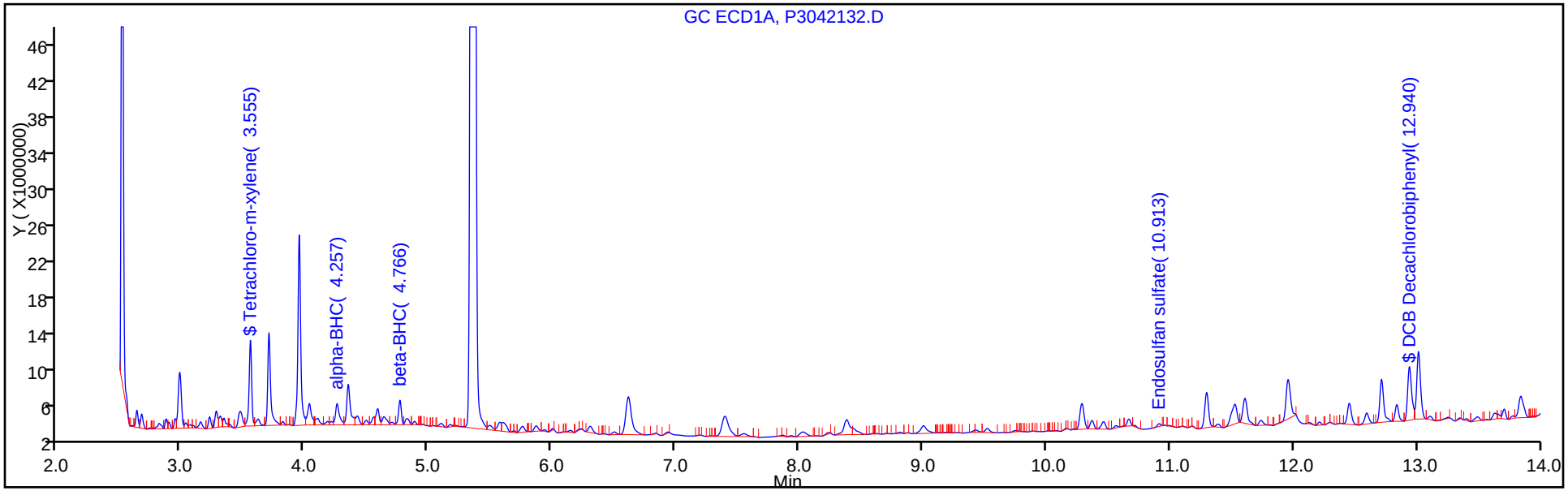
Report Date: 22-Apr-2015 08:58:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

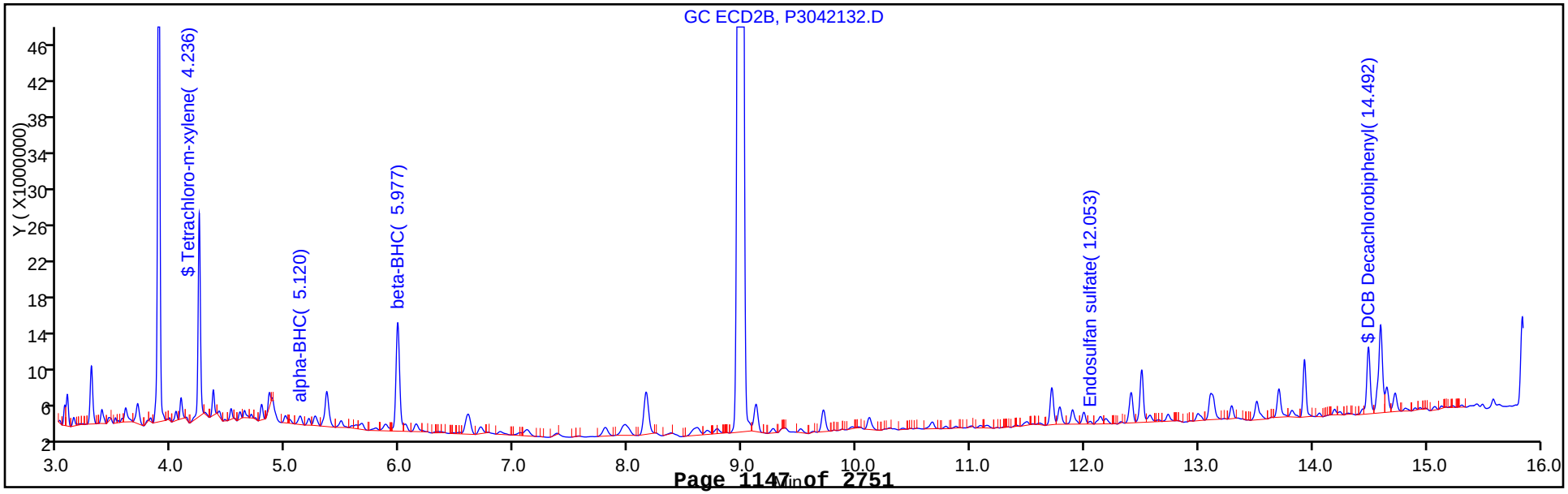
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042132.D

Injection Date:	22-Apr-2015 00:45:33	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49071-A-2-P	Lab Sample ID:	240-49071-2	Worklist Smp#:	32
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27630

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	9.707	9.709	9.708	9.709	9.707						9.679 - 9.739	9.708
Toxaphene Peak 2	10.168	10.166	10.167	10.167	10.165						10.137 - 10.197	10.167
Toxaphene Peak 3	10.478	10.478	10.478	10.478	10.476						10.448 - 10.508	10.478
Toxaphene Peak 4	10.817	10.817	10.814	10.815	10.814						10.787 - 10.847	10.815
Toxaphene Peak 5	10.922	10.923	10.922	10.924	10.923						10.895 - 10.955	10.923

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27630

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	33404 40248	35287	39031	41193	Ave		37832.5475				8.8		20.0			
Toxaphene Peak 2	33940 37623	34960	37655	39042	Ave		36644.1592				5.8		20.0			
Toxaphene Peak 3	19708 26420	21420	23896	25331	Ave		23354.9331				11.9		20.0			
Toxaphene Peak 4	29918 34558	31534	34529	35340	Ave		33175.8815				7.0		20.0			
Toxaphene Peak 5	25216 37567	29043	33391	36435	Ave		32330.3653				16.0		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27630

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	6680791	17643317	39031109	82385228	201242128	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	6788028	17480003	37655028	78084498	188116864	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	3941532	10709959	23896272	50661085	132101364	200	500	1000	2000	5000
Toxaphene Peak 4	Ave	5983653	15767196	34529098	70679302	172790007	200	500	1000	2000	5000
Toxaphene Peak 5	Ave	5043128	14521281	33391038	72870864	187835772	200	500	1000	2000	5000

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D
Lims ID: STD TOX1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 15:37:59 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-012
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:20 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.709	-0.002	6680791	200.0	176.6	M
1	10.168	10.167	0.001	6788028	200.0	185.2	M
1	10.478	10.478	0.000	3941532	200.0	168.8	M
1	10.817	10.817	0.000	5983653	200.0	180.4	M
1	10.922	10.925	-0.003	5043128	200.0	156.0	M
		Average of Peak Amounts =				173.4	
2	11.109	11.110	-0.001	9809075	200.0	189.3	M
2	11.275	11.277	-0.002	9537081	200.0	187.1	M
2	11.698	11.700	-0.002	6513590	200.0	182.8	M
2	12.434	12.434	0.000	8469581	200.0	185.6	M
2	12.523	12.523	0.000	2797896	200.0	179.7	M
		Average of Peak Amounts =				184.9	
						RPD = 6.42	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

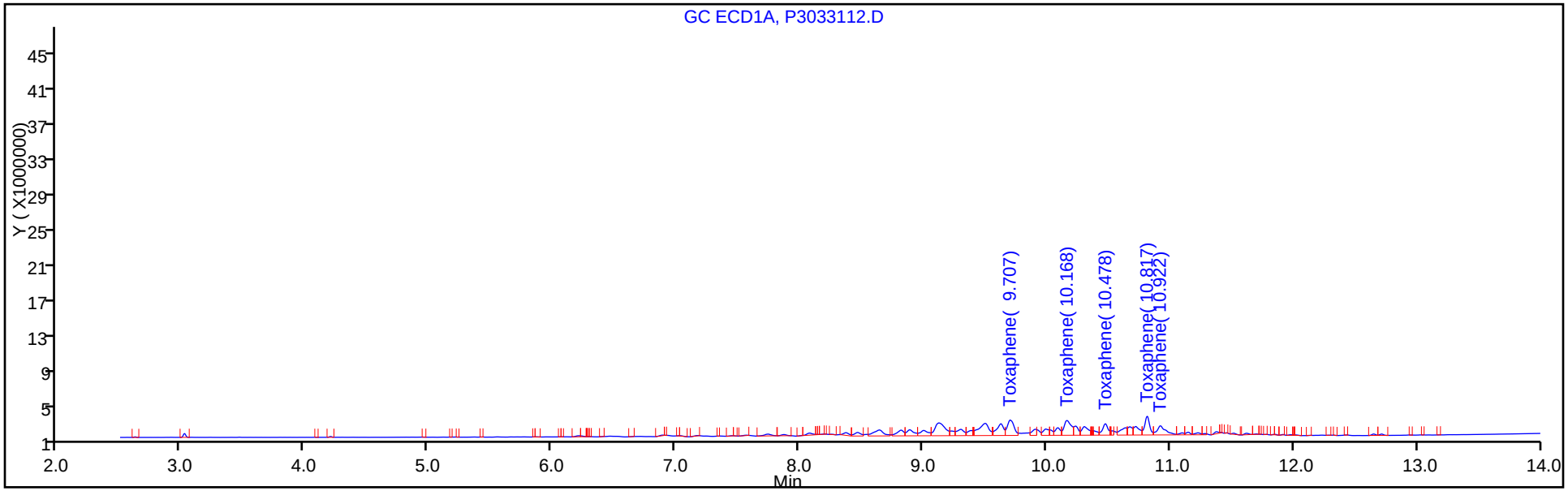
Report Date: 01-Apr-2015 08:57:21 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

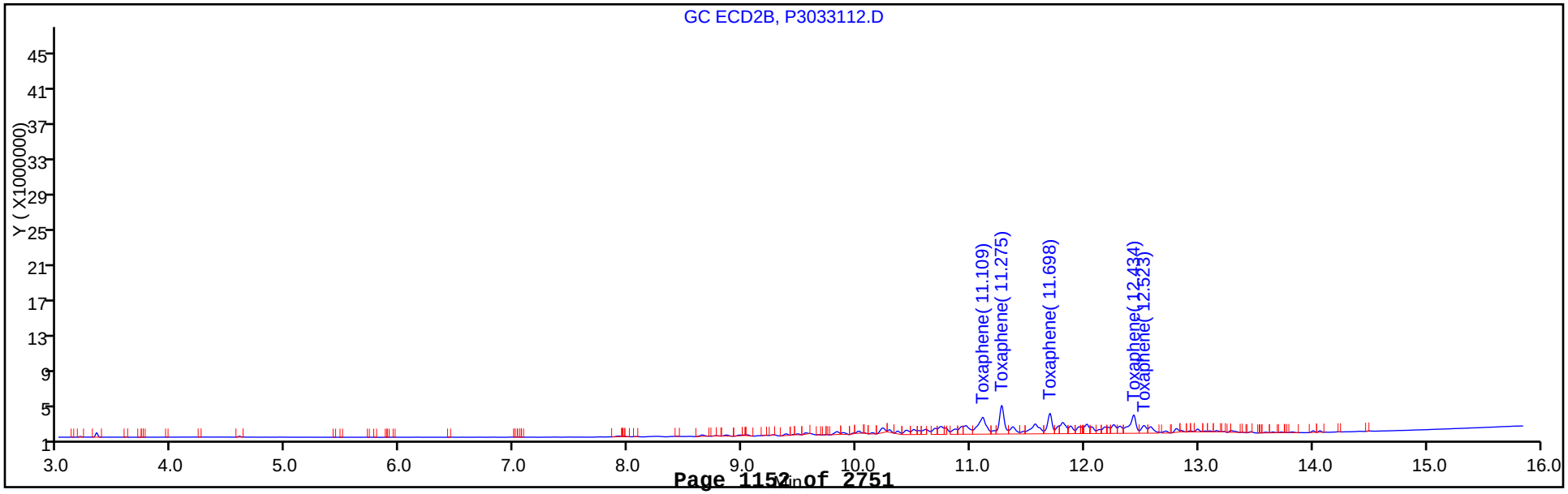
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date:	31-Mar-2015 15:37:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date: 31-Mar-2015 15:37:59 Instrument ID: A2HP3

Lims ID: STD TOX1

Client ID:

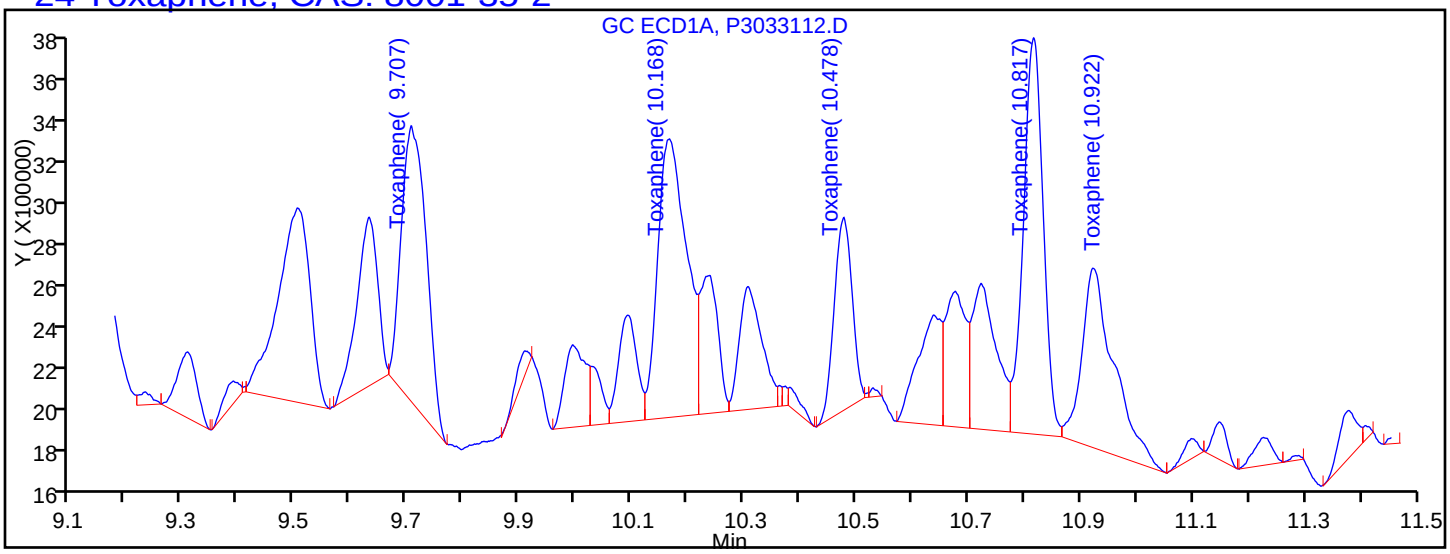
Operator ID: 430893 ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

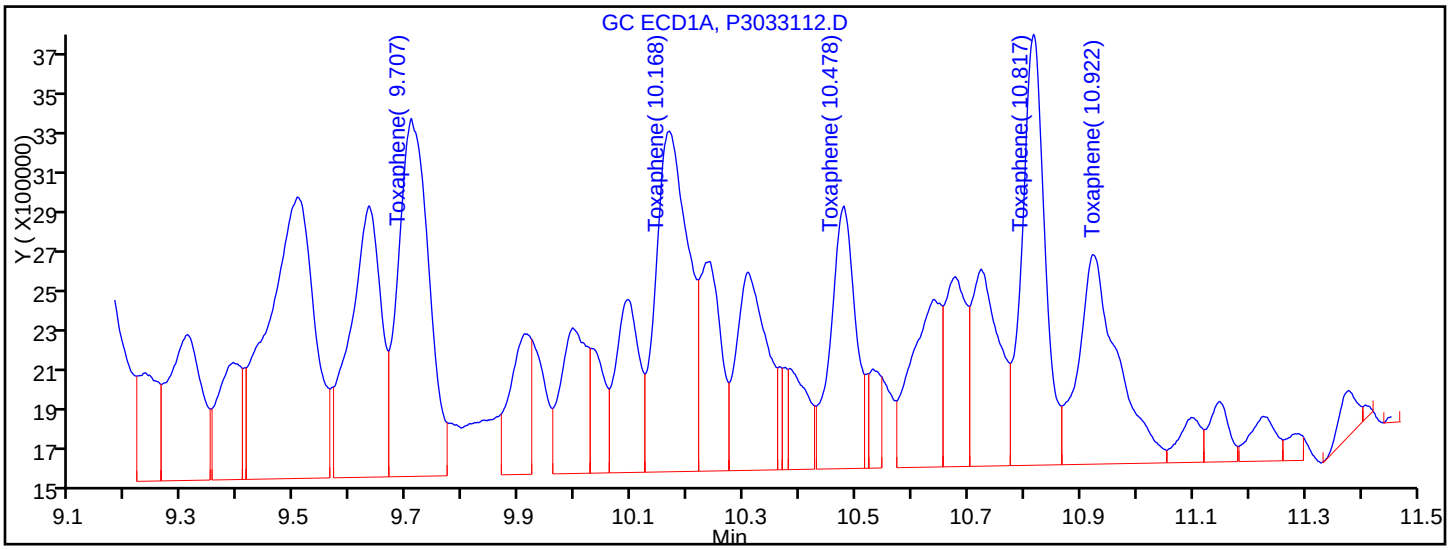
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.707	Response = 4028335	M
RT = 10.168	Response = 4681248	M
RT = 10.478	Response = 2013334	M
RT = 10.817	Response = 4588014	M
RT = 10.922	Response = 3357965	M



Manual Integration Results

RT = 9.707	Response = 6680791	M
RT = 10.168	Response = 6788028	M
RT = 10.478	Response = 3941532	M
RT = 10.817	Response = 5983653	M
RT = 10.922	Response = 5043128	M

Reviewer: matthewsb, 01-Apr-2015 08:31:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D
Lims ID: STD TOX2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 16:01:17 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-013
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:23 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:31:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.709	0.000	17643317	500.0	466.4	M
1	10.166	10.167	-0.001	17480003	500.0	477.0	M
1	10.478	10.478	0.000	10709959	500.0	458.6	M
1	10.817	10.817	0.000	15767196	500.0	475.3	M
1	10.923	10.925	-0.002	14521281	500.0	449.2	M
		Average of Peak Amounts =				465.3	
2	11.109	11.110	-0.001	24670801	500.0	476.1	M
2	11.275	11.277	-0.002	24796029	500.0	486.5	M
2	11.697	11.700	-0.003	17040990	500.0	478.1	M
2	12.433	12.434	-0.001	21923625	500.0	480.5	M
2	12.520	12.523	-0.003	7281721	500.0	467.7	M
		Average of Peak Amounts =				477.8	
						RPD = 2.65	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 50.00 Units: uL

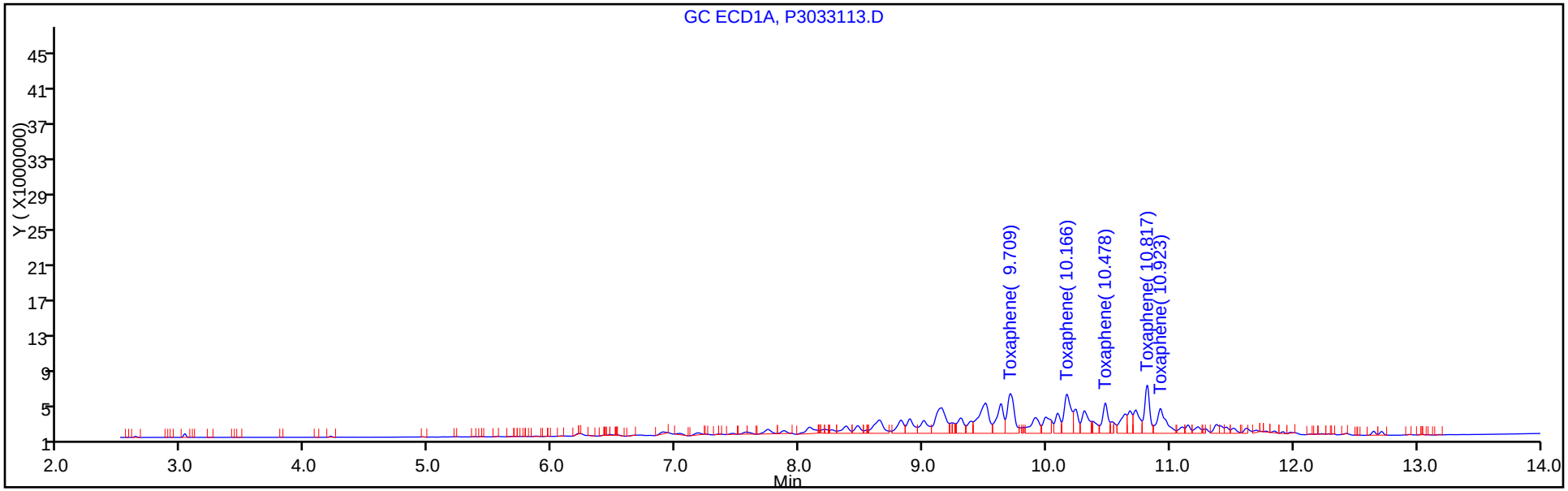
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

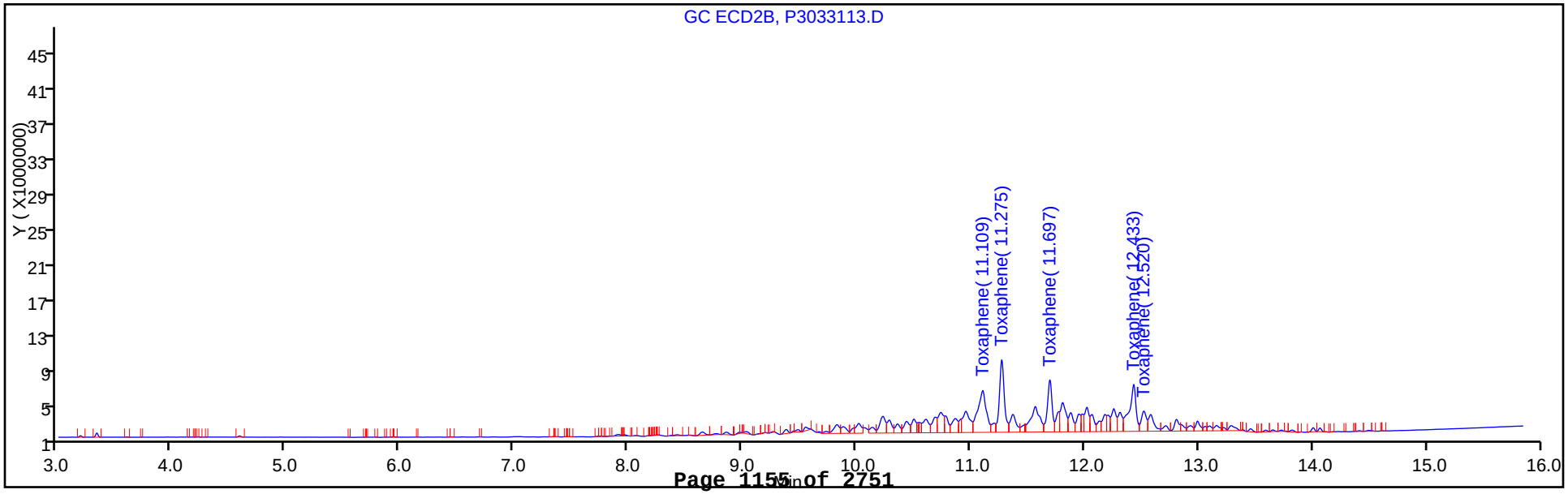
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX2			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



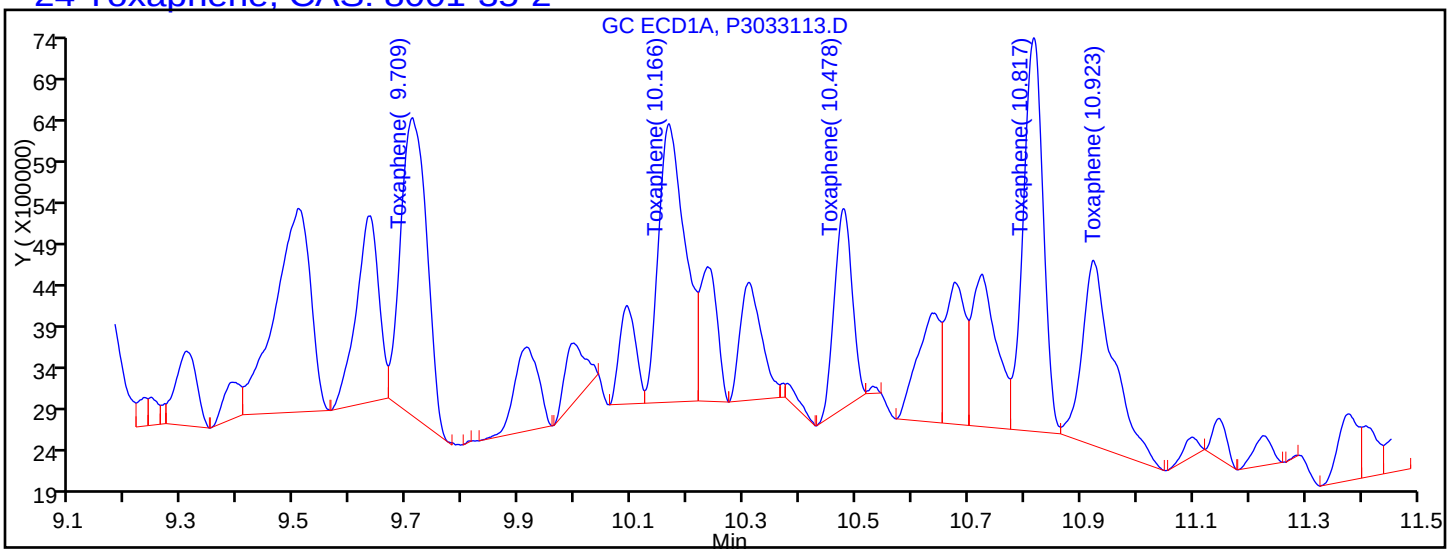
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

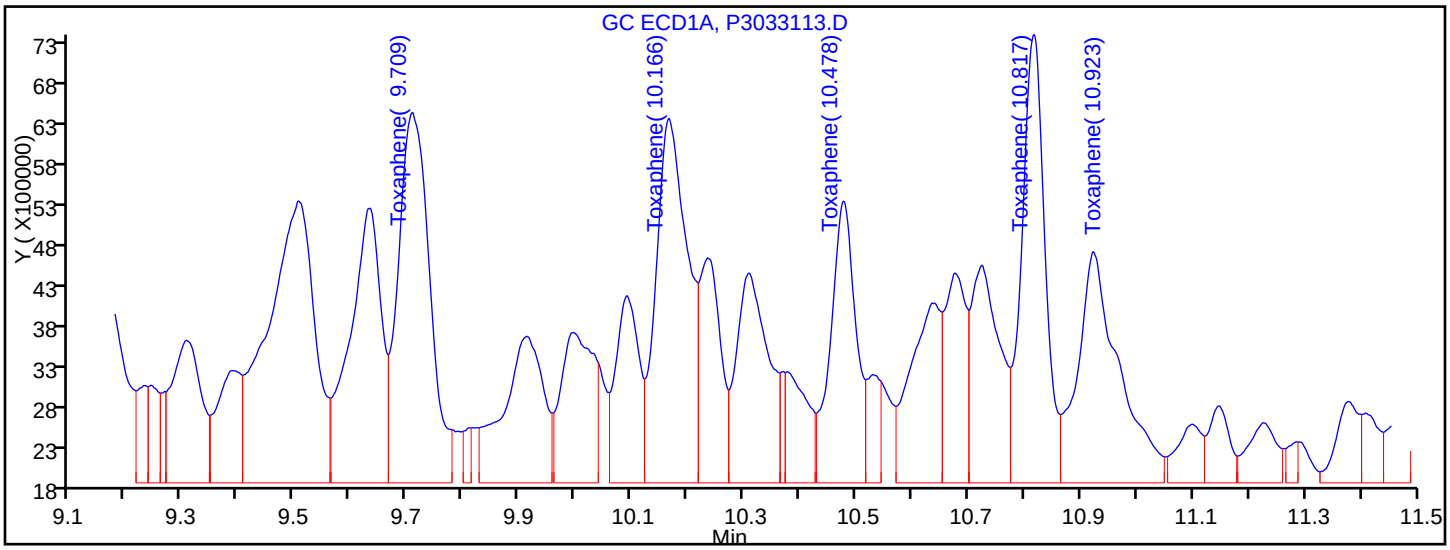
Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3		
Lims ID:	STD TOX2				
Client ID:					
Operator ID:	430893	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ECD1A		

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.709	Response = 11532603	M
RT = 10.166	Response = 10985496	M
RT = 10.478	Response = 5260986	M
RT = 10.817	Response = 11594742	M
RT = 10.923	Response = 8591029	M



Manual Integration Results

RT = 9.709	Response = 17643317	M
RT = 10.166	Response = 17480003	M
RT = 10.478	Response = 10709959	M
RT = 10.817	Response = 15767196	M
RT = 10.923	Response = 14521281	M

Reviewer: matthewsb, 01-Apr-2015 08:31:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D
Lims ID: STD TOX3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 16:24:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-014
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:26 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	39031109	1000.0	1031.7	M
1	10.167	10.167	0.000	37655028	1000.0	1027.6	M
1	10.478	10.478	0.000	23896272	1000.0	1023.2	M
1	10.814	10.814	0.000	34529098	1000.0	1040.8	M
1	10.922	10.922	0.000	33391038	1000.0	1032.8	M
		Average of Peak Amounts =				1031.2	
2	11.108	11.108	0.000	51233967	1000.0	988.6	M
2	11.275	11.275	0.000	51076818	1000.0	1002.2	M
2	11.698	11.698	0.000	35702538	1000.0	1001.7	M
2	12.433	12.433	0.000	45291737	1000.0	992.6	M
2	12.523	12.523	0.000	15291056	1000.0	982.1	M
		Average of Peak Amounts =				993.5	
						RPD = 3.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

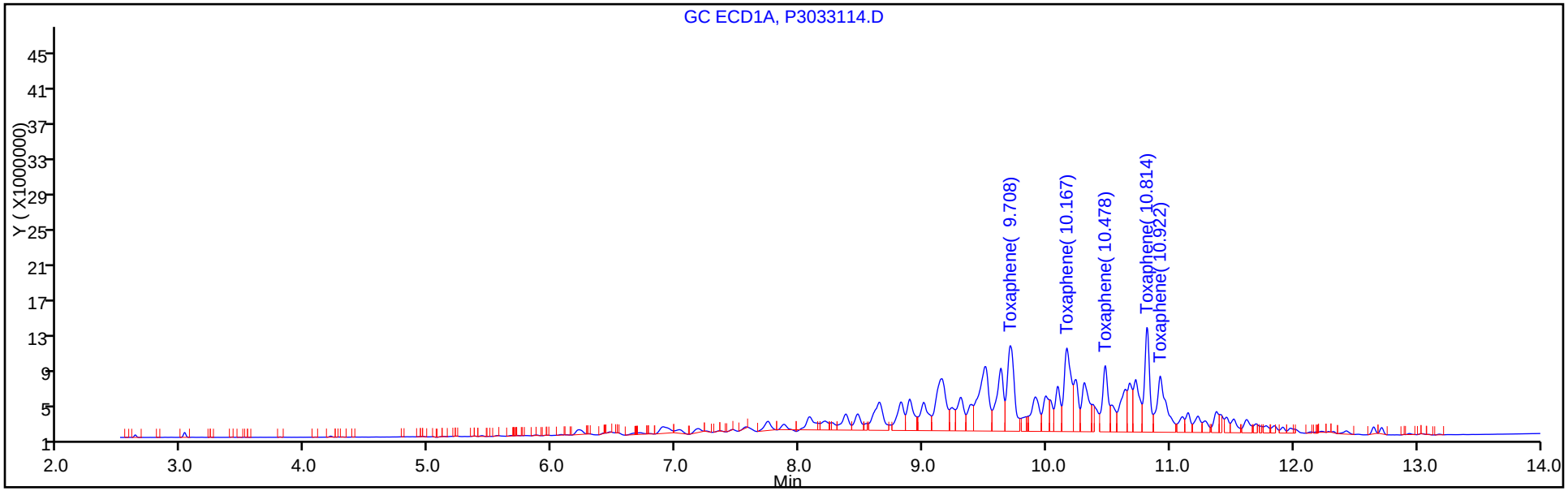
Report Date: 01-Apr-2015 08:57:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

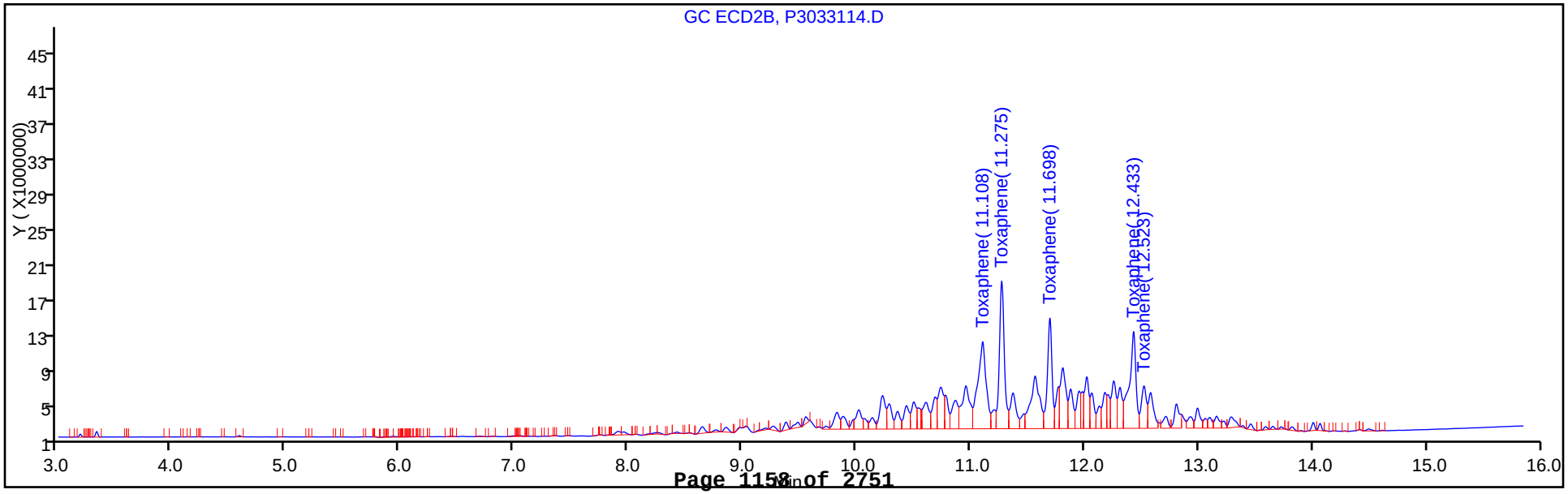
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date:	31-Mar-2015 16:24:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date: 31-Mar-2015 16:24:32 Instrument ID: A2HP3

Lims ID: STD TOX3

Client ID:

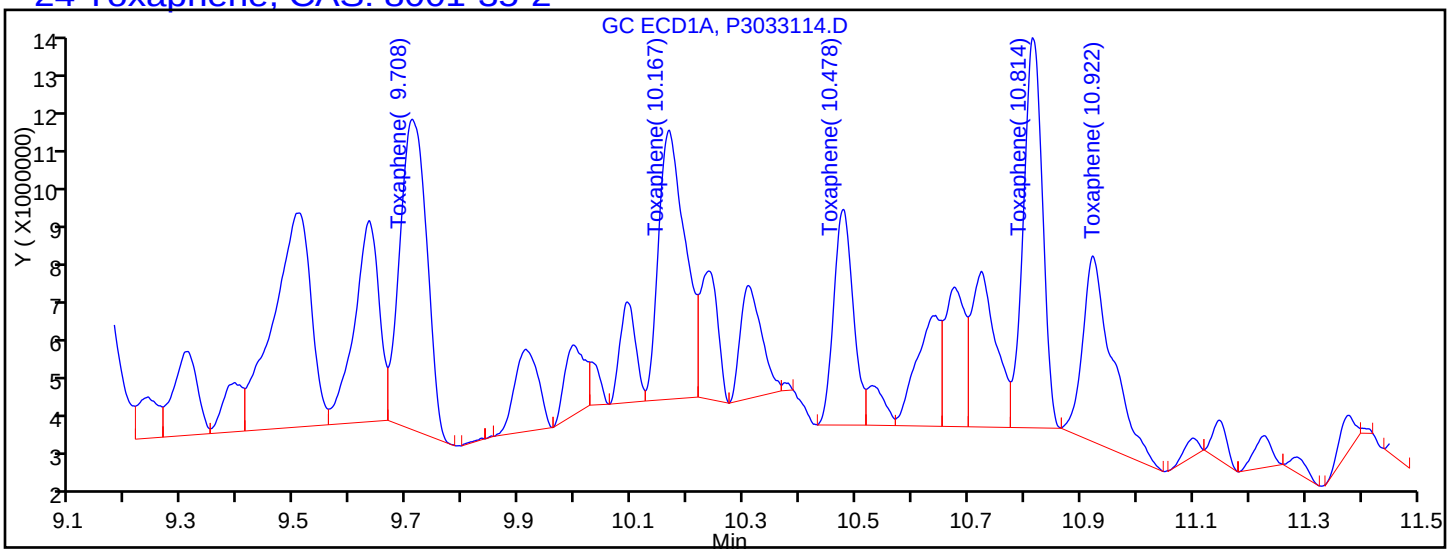
Operator ID: 430893 ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

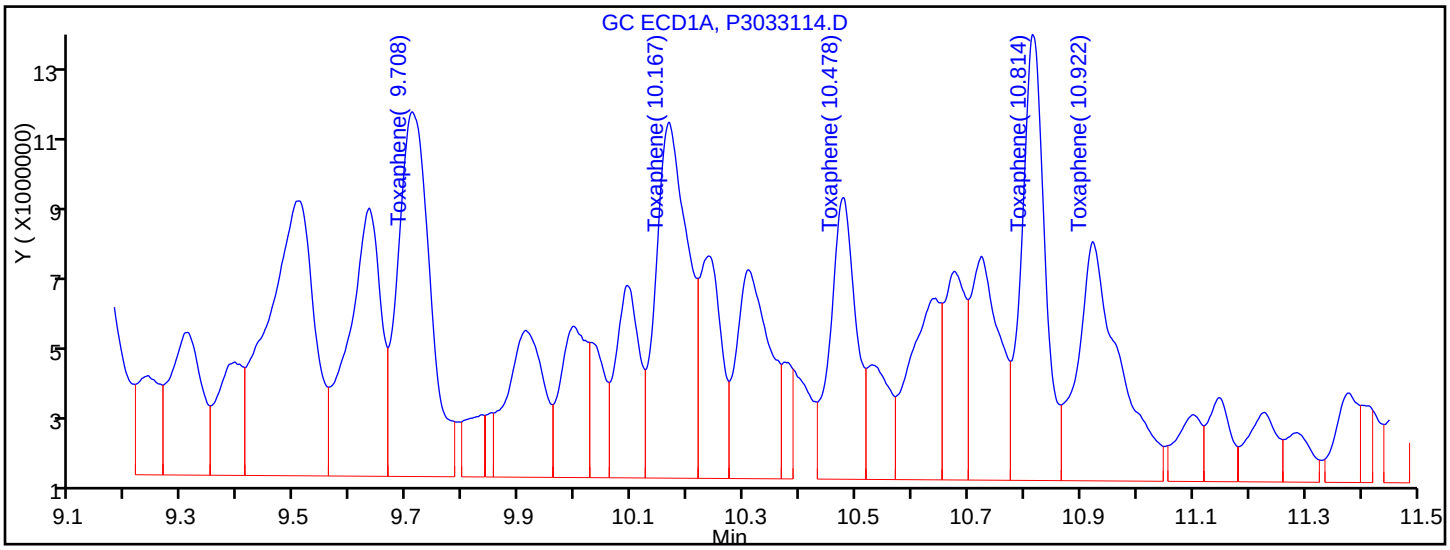
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.708	Response = 26349651	M
RT = 10.167	Response = 22531941	M
RT = 10.478	Response = 13246178	M
RT = 10.814	Response = 23579023	M
RT = 10.922	Response = 17427040	M



Manual Integration Results

RT = 9.708	Response = 39031109	M
RT = 10.167	Response = 37655028	M
RT = 10.478	Response = 23896272	M
RT = 10.814	Response = 34529098	M
RT = 10.922	Response = 33391038	M

Reviewer: matthewsb, 01-Apr-2015 08:32:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D
Lims ID: STD TOX4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 16:47:48 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-015
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:29 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.708	0.001	82385228	2000.0	2177.6	M
1	10.167	10.167	0.000	78084498	2000.0	2130.9	M
1	10.478	10.478	0.000	50661085	2000.0	2169.2	M
1	10.815	10.814	0.001	70679302	2000.0	2130.4	M
1	10.924	10.922	0.002	72870864	2000.0	2253.9	M
		Average of Peak Amounts =				2172.4	
2	11.108	11.108	0.000	110160431	2000.0	2125.7	M
2	11.275	11.275	0.000	107527323	2000.0	2109.8	M
2	11.698	11.698	0.000	76152937	2000.0	2136.6	M
2	12.431	12.433	-0.002	97042833	2000.0	2126.8	M
2	12.524	12.523	0.001	34039899	2000.0	2186.3	M
		Average of Peak Amounts =				2137.1	
						RPD = 1.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 200.00 Units: uL

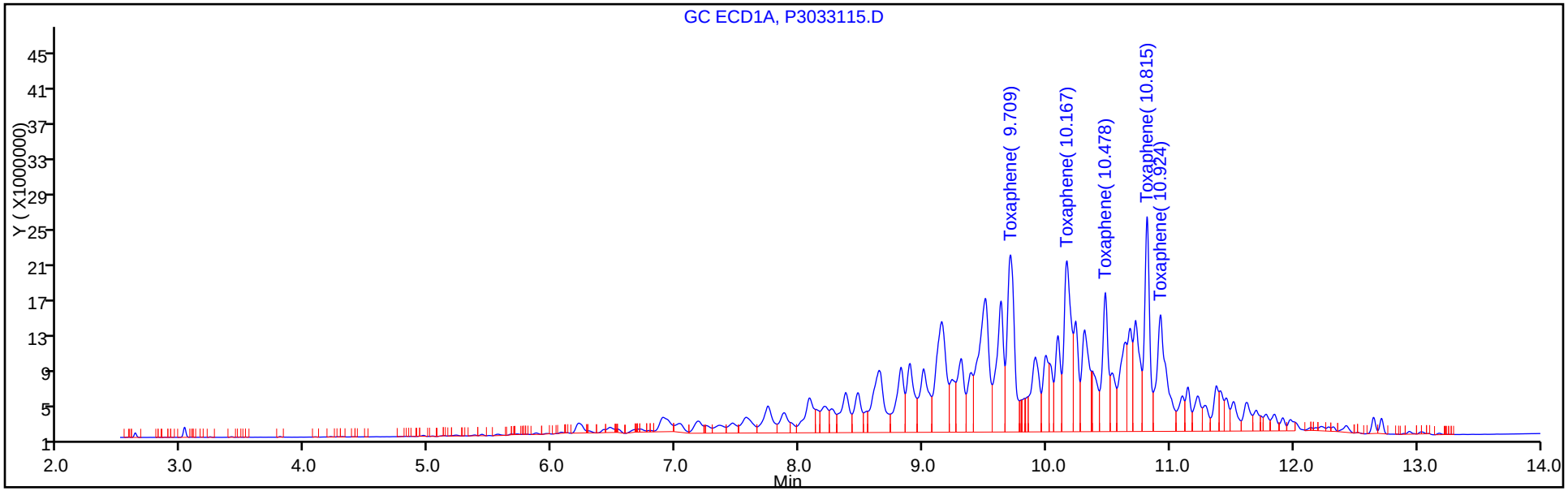
Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

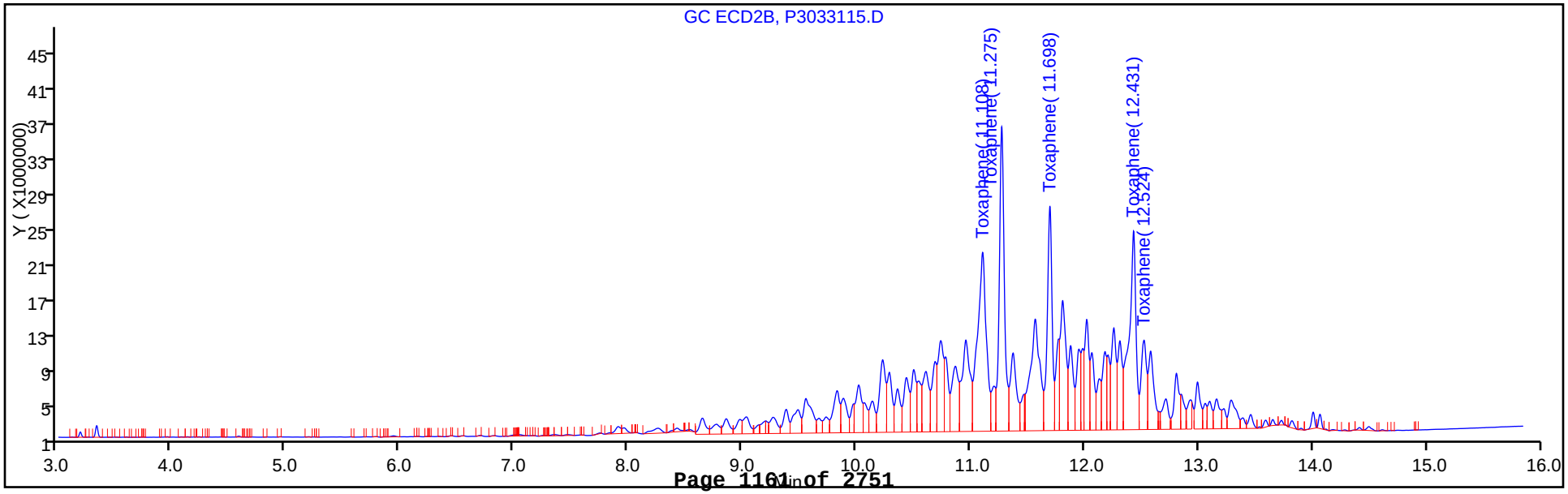
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

Injection Date:	31-Mar-2015 16:47:48	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX4			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

Injection Date: 31-Mar-2015 16:47:48 Instrument ID: A2HP3

Lims ID: STD TOX4

Client ID:

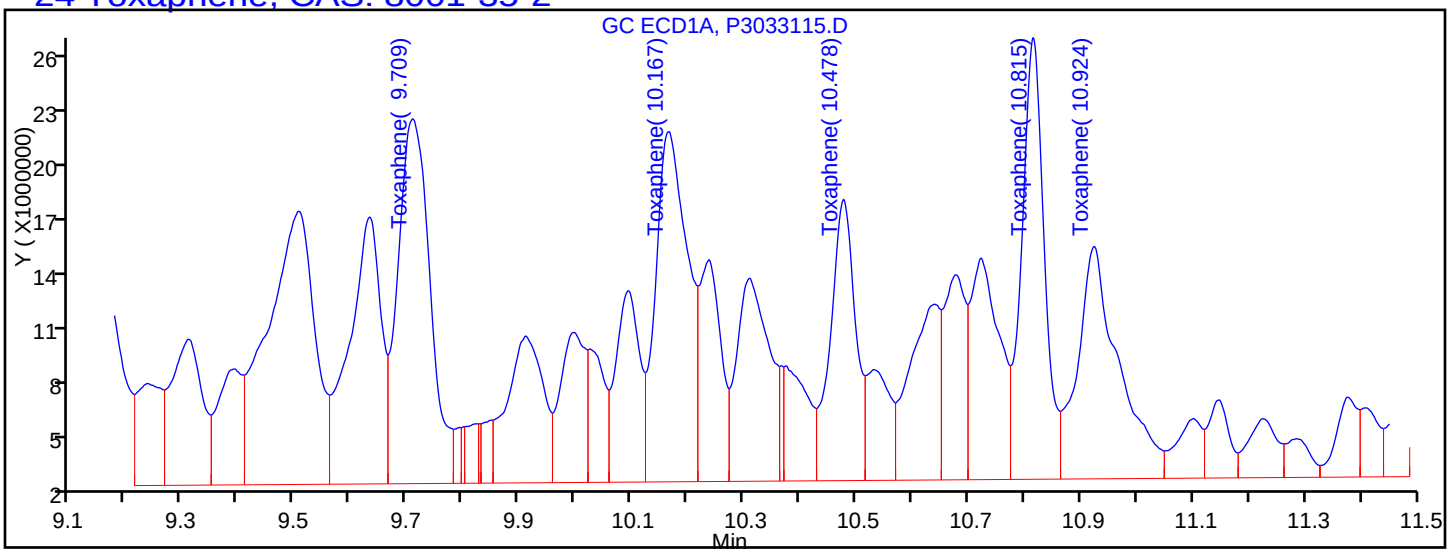
Operator ID: 430893 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

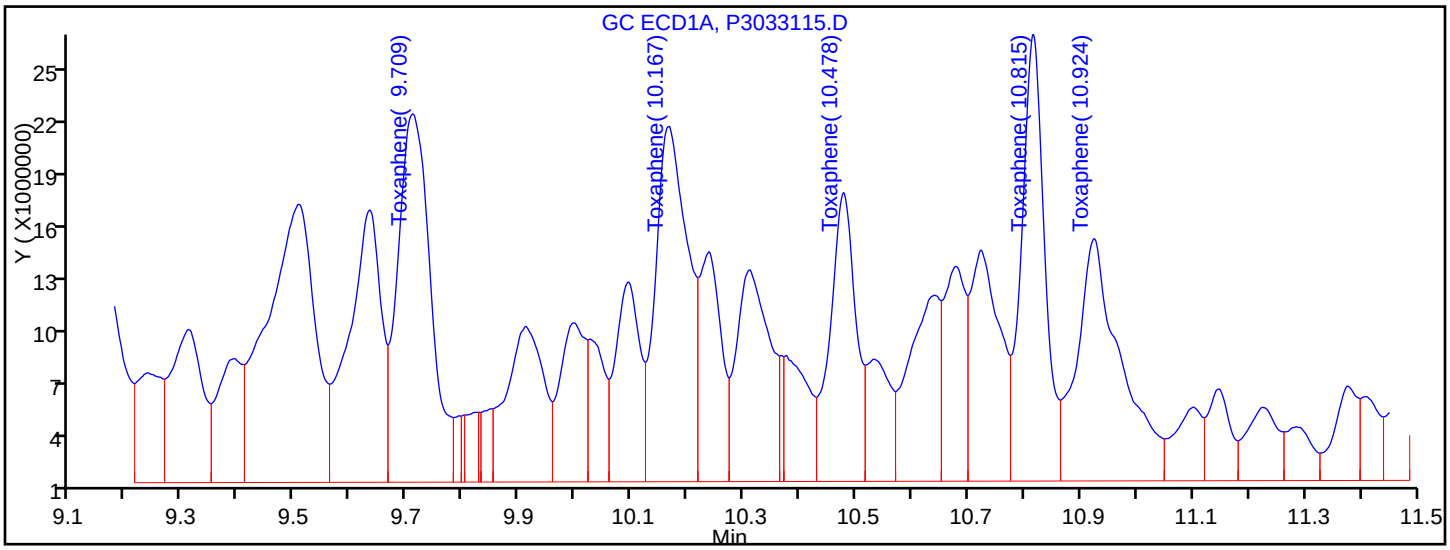
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.709	Response = 78032219	M
RT = 10.167	Response = 74215858	M
RT = 10.478	Response = 46827011	M
RT = 10.815	Response = 66448436	M
RT = 10.924	Response = 63858291	M



Manual Integration Results

RT = 9.709	Response = 82385228	M
RT = 10.167	Response = 78084498	M
RT = 10.478	Response = 50661085	M
RT = 10.815	Response = 70679302	M
RT = 10.924	Response = 72870864	M

Reviewer: matthewsb, 01-Apr-2015 08:32:22

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D
Lims ID: STD TOX5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 17:11:00 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-016
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.708	-0.001	201242128	5000.0	5319.3	M
1	10.165	10.167	-0.002	188116864	5000.0	5133.6	M
1	10.476	10.478	-0.002	132101364	5000.0	5656.3	M
1	10.814	10.814	0.000	172790007	5000.0	5208.3	M
1	10.923	10.922	0.001	187835772	5000.0	5809.9	M
		Average of Peak Amounts =				5425.5	
2	11.109	11.108	0.001	272057035	5000.0	5249.8	M
2	11.274	11.275	-0.001	263525388	5000.0	5170.8	M
2	11.699	11.698	0.001	188891703	5000.0	5299.8	M
2	12.433	12.433	0.000	240683474	5000.0	5274.8	M
2	12.524	12.523	0.001	84924334	5000.0	5454.4	M
		Average of Peak Amounts =				5289.9	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 500.00 Units: uL

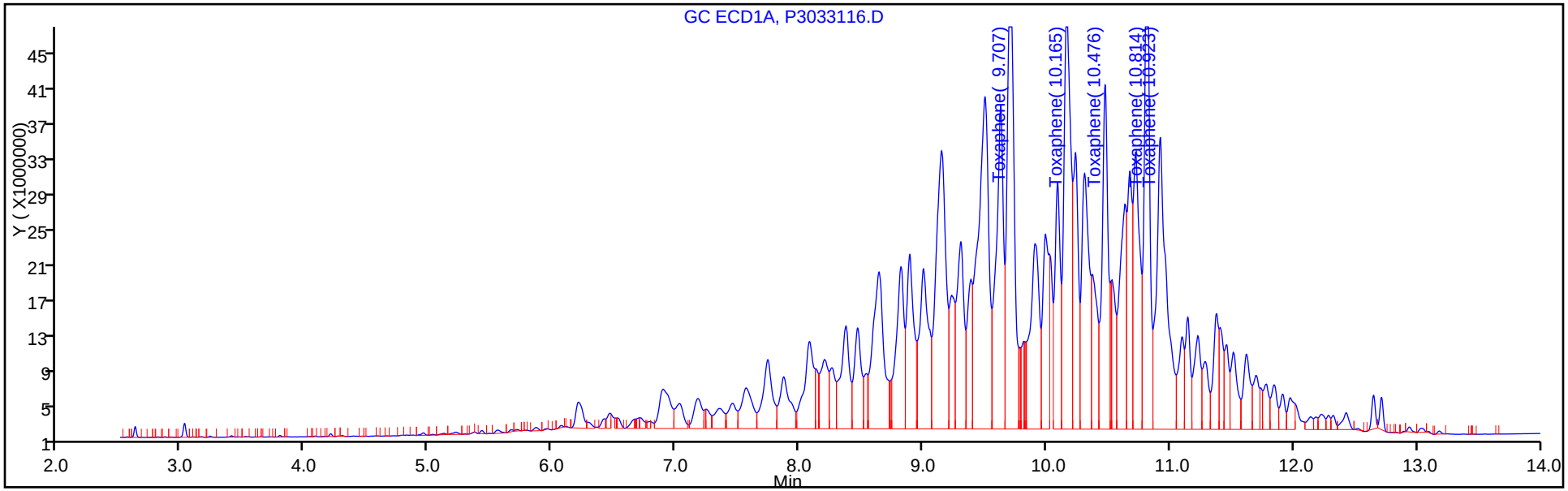
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

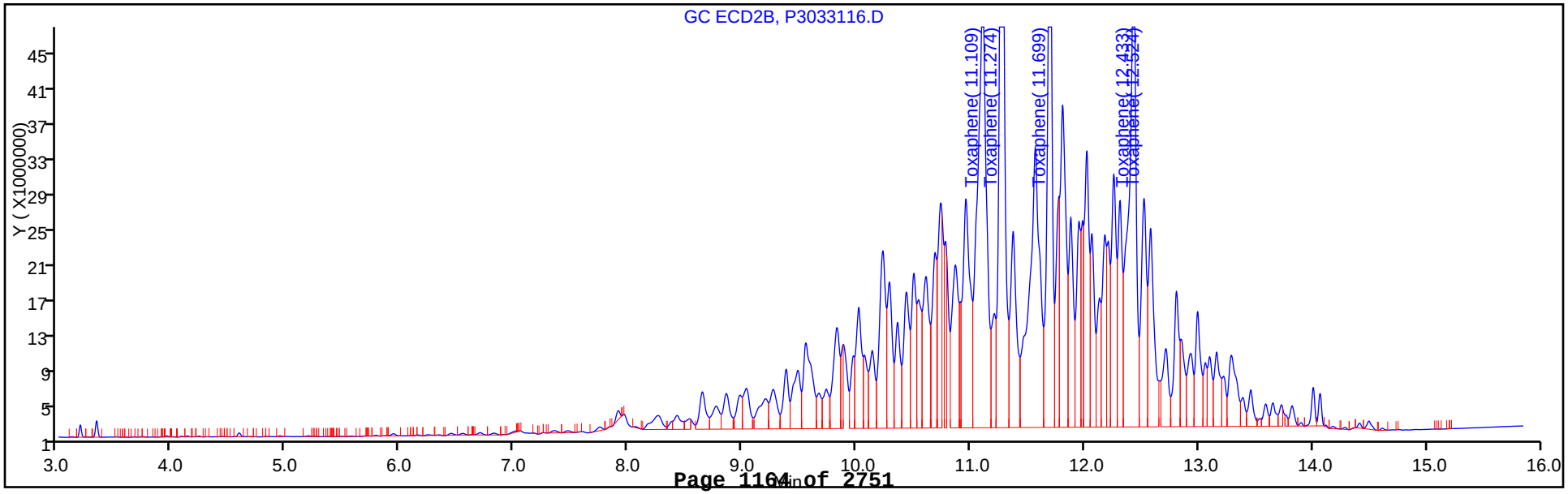
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX5			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



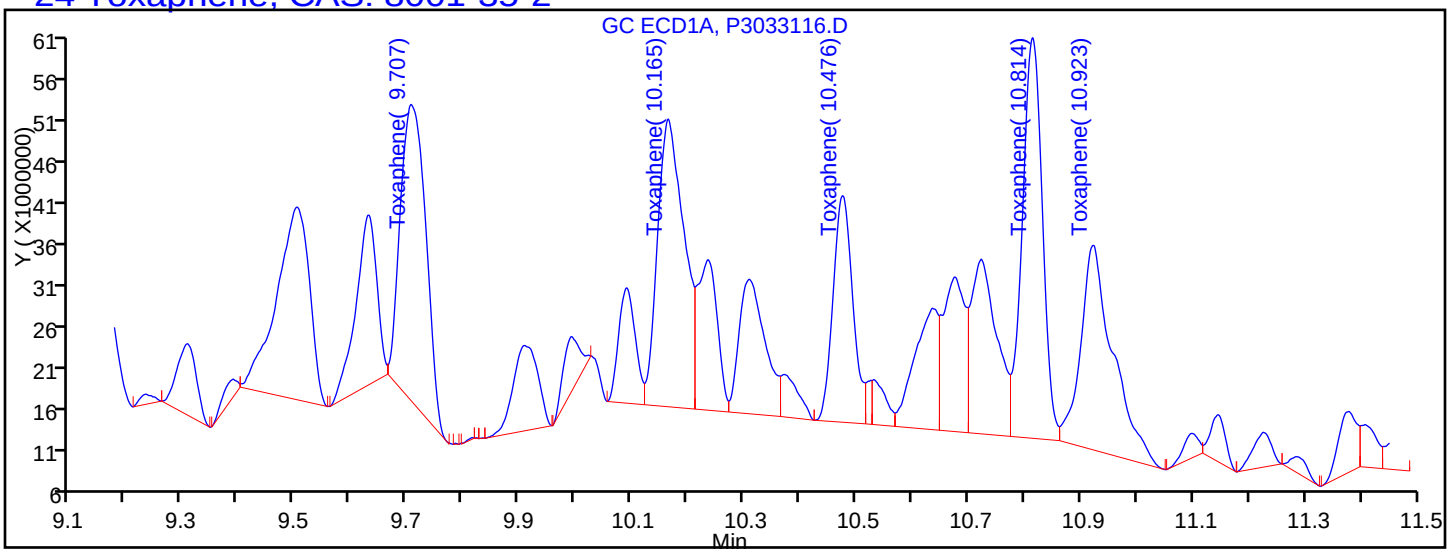
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

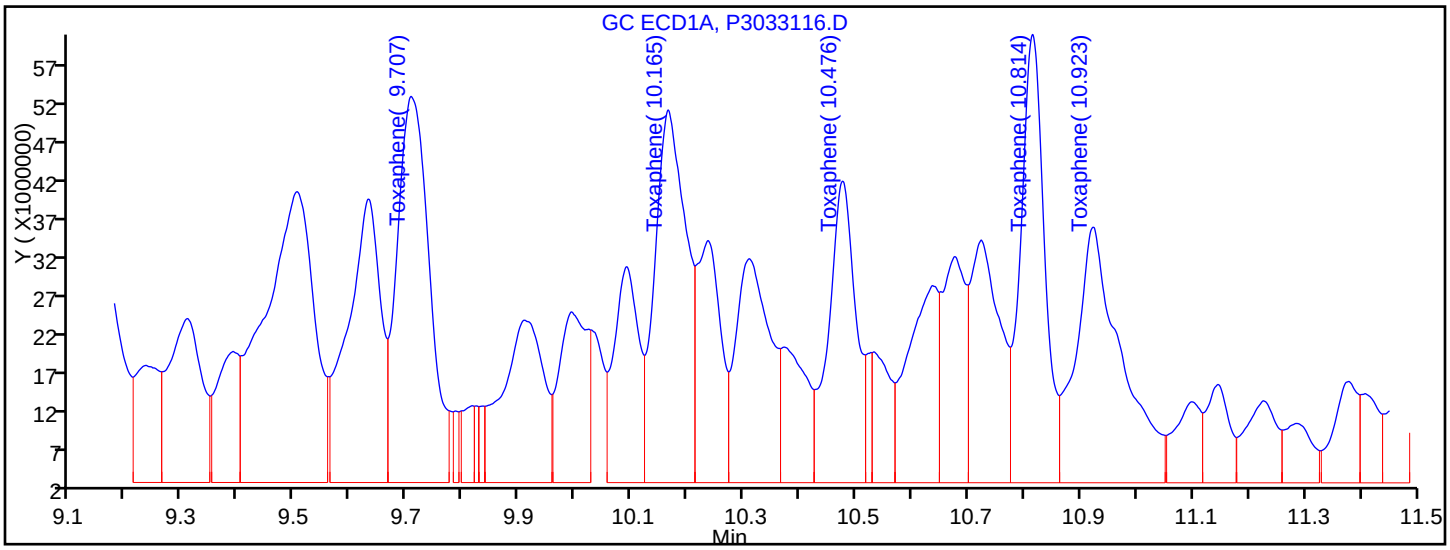
Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3
Lims ID:	STD TOX5		
Client ID:			
Operator ID:	430893	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.707	Response = 113589114	M
RT = 10.165	Response = 114318137	M
RT = 10.476	Response = 66929571	M
RT = 10.814	Response = 120945391	M
RT = 10.923	Response = 98831876	M



Manual Integration Results

RT = 9.707	Response = 201242128	M
RT = 10.165	Response = 188116864	M
RT = 10.476	Response = 132101364	M
RT = 10.814	Response = 172790007	M
RT = 10.923	Response = 187835772	M

Reviewer: matthewsb, 01-Apr-2015 08:41:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	11.109	11.109	11.108	11.108	11.109						11.080 - 11.140	11.109
Toxaphene Peak 2	11.275	11.275	11.275	11.275	11.274						11.247 - 11.307	11.275
Toxaphene Peak 3	11.698	11.697	11.698	11.698	11.699						11.670 - 11.730	11.698
Toxaphene Peak 4	12.434	12.433	12.433	12.431	12.433						12.404 - 12.464	12.433
Toxaphene Peak 5	12.523	12.520	12.523	12.524	12.524						12.493 - 12.553	12.523

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	49045 54411	49342	51234	55080	Ave		51822.5133				5.4		20.0			
Toxaphene Peak 2	47685 52705	49592	51077	53764	Ave		50964.6040				4.8		20.0			
Toxaphene Peak 3	32568 37778	34082	35703	38076	Ave		35641.4554				6.6		20.0			
Toxaphene Peak 4	42348 48137	43847	45292	48521	Ave		45629.0007				5.9		20.0			
Toxaphene Peak 5	13989 16985	14563	15291	17020	Ave		15569.7589				8.9		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 15:37 Calibration End Date: 03/31/2015 17:11 Calibration ID: 27631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/12	P3033112.D
Level 2	STD 240-174448/13	P3033113.D
Level 3	STD 240-174448/14	P3033114.D
Level 4	STD 240-174448/15	P3033115.D
Level 5	STD 240-174448/16	P3033116.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	9809075	24670801	51233967	110160431	272057035	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	9537081	24796029	51076818	107527323	263525388	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	6513590	17040990	35702538	76152937	188891703	200	500	1000	2000	5000
Toxaphene Peak 4	Ave	8469581	21923625	45291737	97042833	240683474	200	500	1000	2000	5000
Toxaphene Peak 5	Ave	2797896	7281721	15291056	34039899	84924334	200	500	1000	2000	5000

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D
Lims ID: STD TOX1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 15:37:59 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-012
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:20 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.709	-0.002	6680791	200.0	176.6	M
1	10.168	10.167	0.001	6788028	200.0	185.2	M
1	10.478	10.478	0.000	3941532	200.0	168.8	M
1	10.817	10.817	0.000	5983653	200.0	180.4	M
1	10.922	10.925	-0.003	5043128	200.0	156.0	M
		Average of Peak Amounts =				173.4	
2	11.109	11.110	-0.001	9809075	200.0	189.3	M
2	11.275	11.277	-0.002	9537081	200.0	187.1	M
2	11.698	11.700	-0.002	6513590	200.0	182.8	M
2	12.434	12.434	0.000	8469581	200.0	185.6	M
2	12.523	12.523	0.000	2797896	200.0	179.7	M
		Average of Peak Amounts =				184.9	
						RPD = 6.42	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

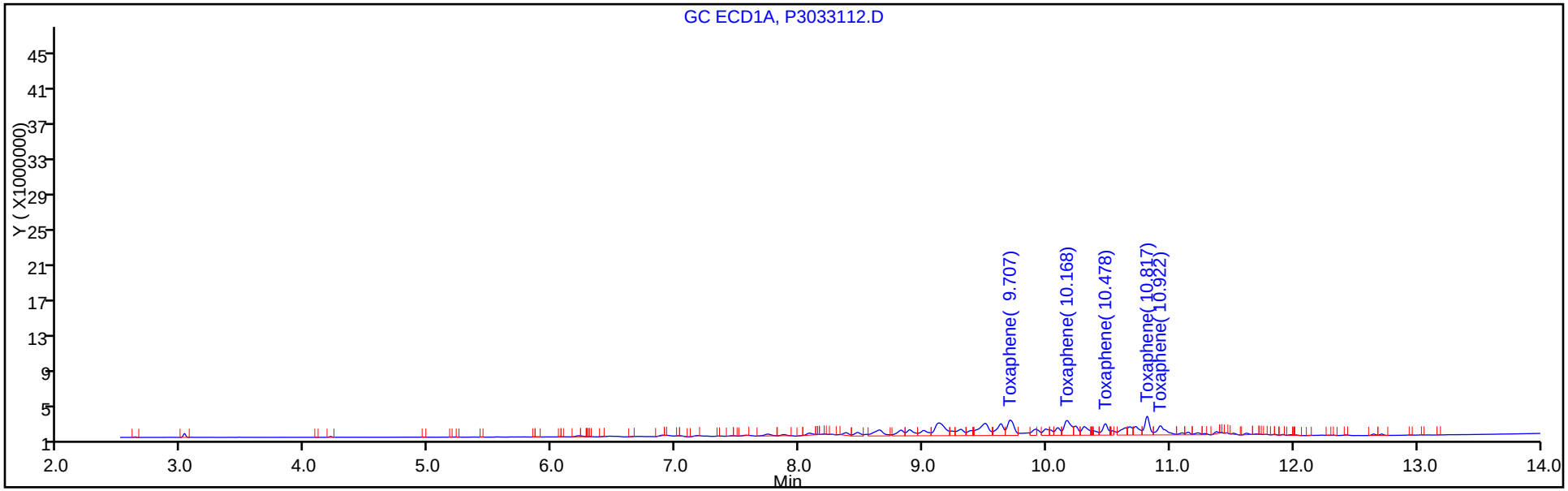
Report Date: 01-Apr-2015 08:57:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

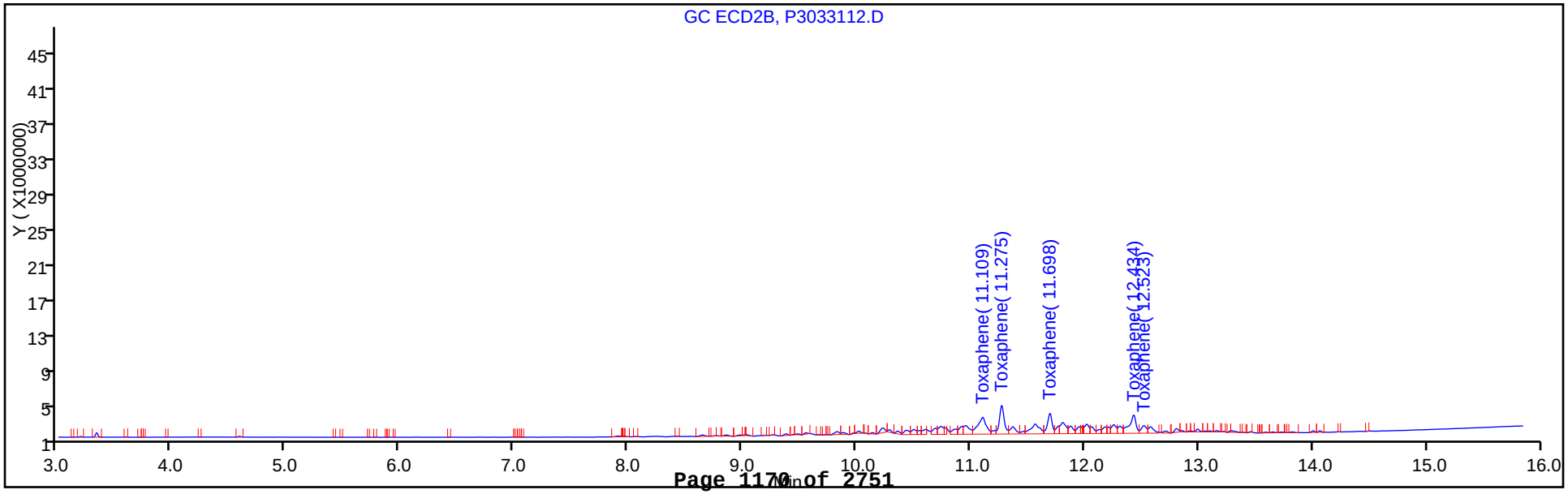
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date:	31-Mar-2015 15:37:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:22 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033112.D

Injection Date: 31-Mar-2015 15:37:59 Instrument ID: A2HP3

Lims ID: STD TOX1

Client ID:

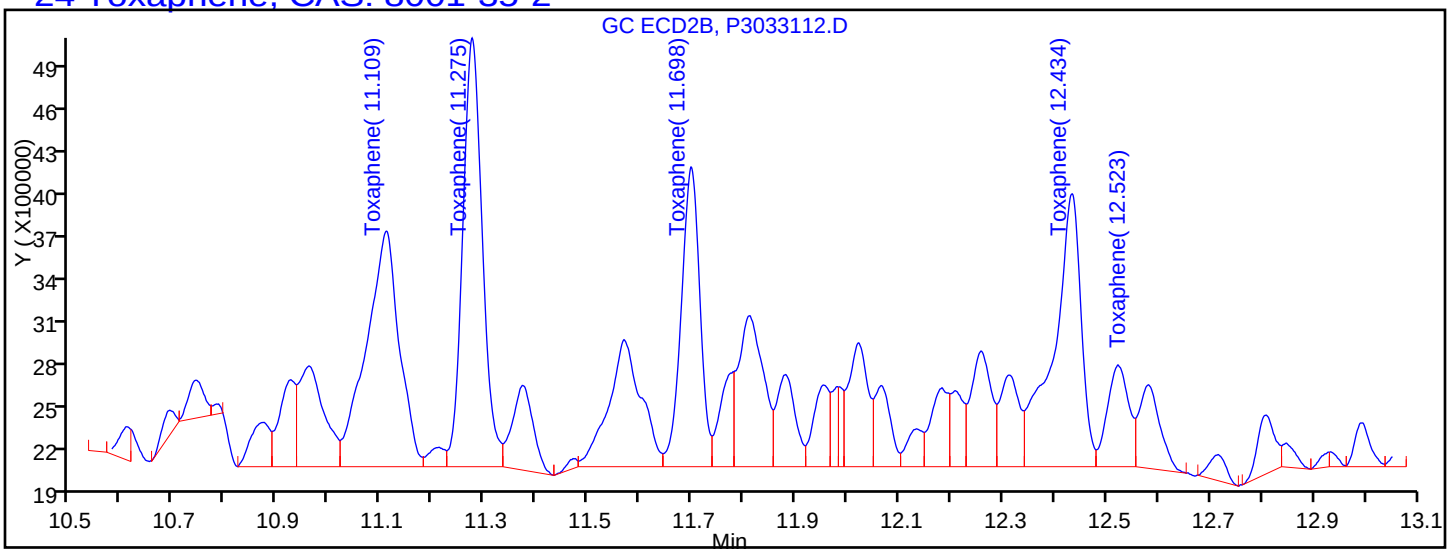
Operator ID: 430893 ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

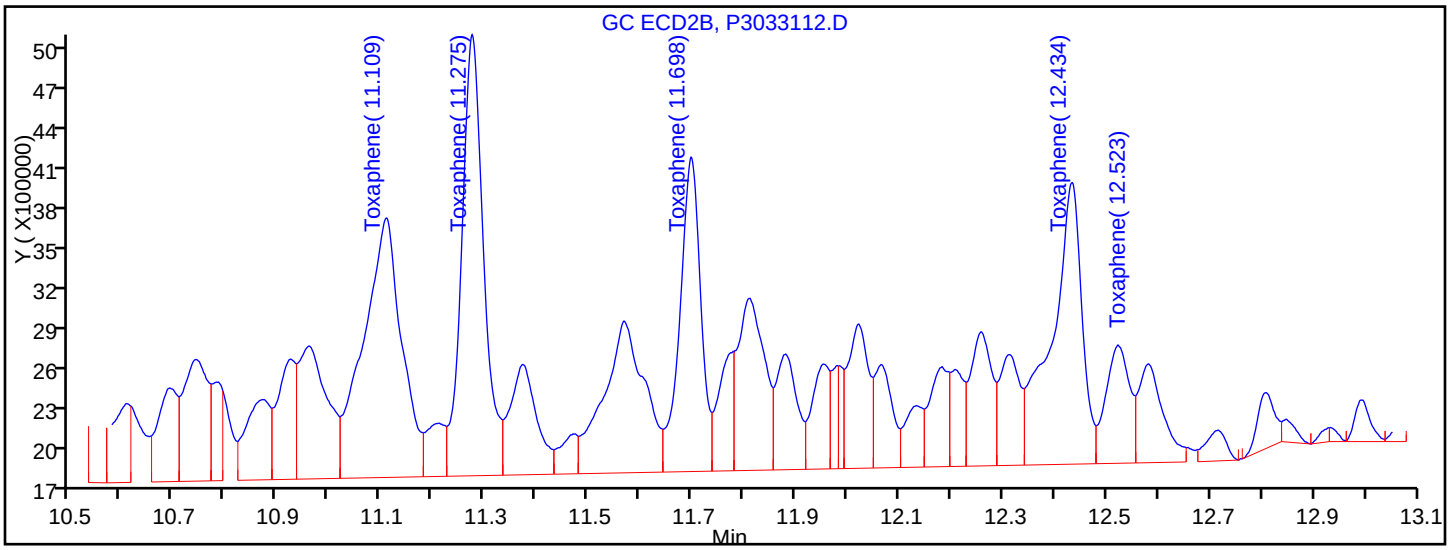
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.109	Response = 7268273	M
RT = 11.275	Response = 7911340	M
RT = 11.698	Response = 5259832	M
RT = 12.434	Response = 7082593	M
RT = 12.523	Response = 2065502	M



Manual Integration Results

RT = 11.109	Response = 9809075	M
RT = 11.275	Response = 9537081	M
RT = 11.698	Response = 6513590	M
RT = 12.434	Response = 8469581	M
RT = 12.523	Response = 2797896	M

Reviewer: matthewsb, 01-Apr-2015 08:31:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D
Lims ID: STD TOX2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 16:01:17 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-013
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:23 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:31:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.709	0.000	17643317	500.0	466.4	M
1	10.166	10.167	-0.001	17480003	500.0	477.0	M
1	10.478	10.478	0.000	10709959	500.0	458.6	M
1	10.817	10.817	0.000	15767196	500.0	475.3	M
1	10.923	10.925	-0.002	14521281	500.0	449.2	M
		Average of Peak Amounts =				465.3	
2	11.109	11.110	-0.001	24670801	500.0	476.1	M
2	11.275	11.277	-0.002	24796029	500.0	486.5	M
2	11.697	11.700	-0.003	17040990	500.0	478.1	M
2	12.433	12.434	-0.001	21923625	500.0	480.5	M
2	12.520	12.523	-0.003	7281721	500.0	467.7	M
		Average of Peak Amounts =				477.8	
						RPD = 2.65	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 50.00 Units: uL

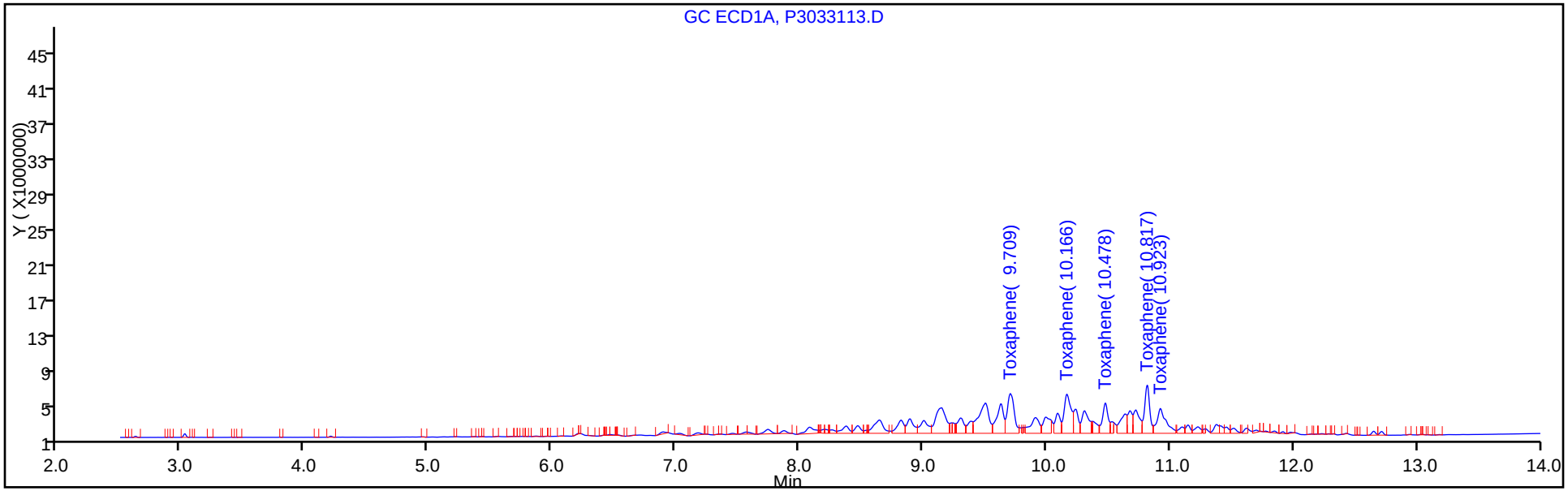
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

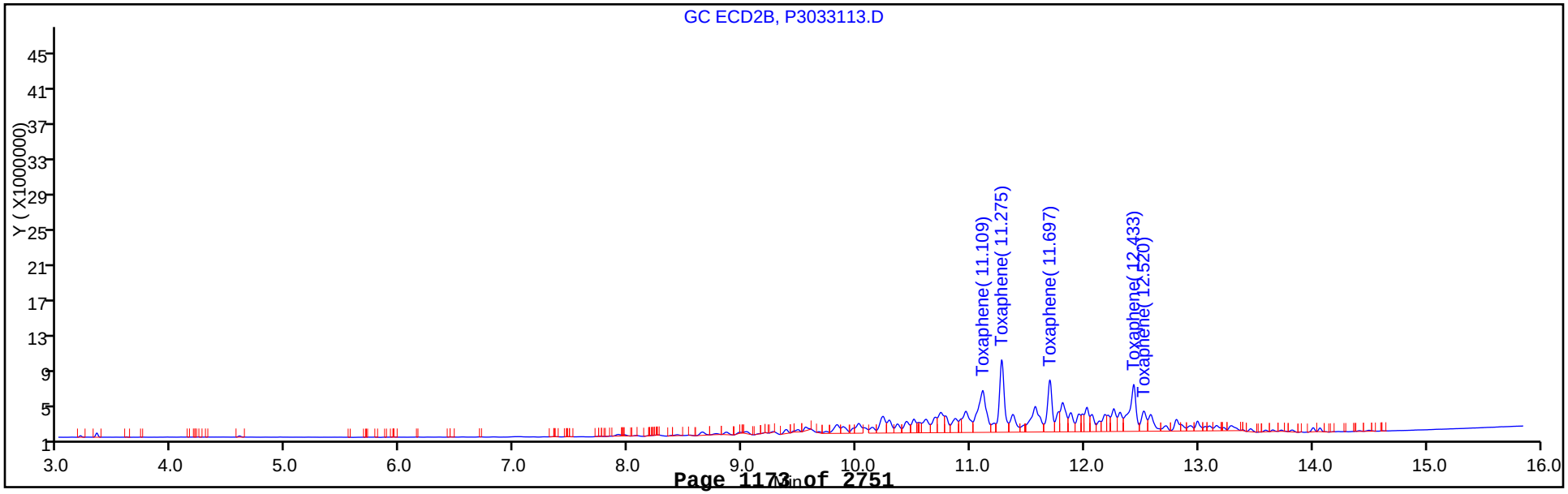
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX2			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



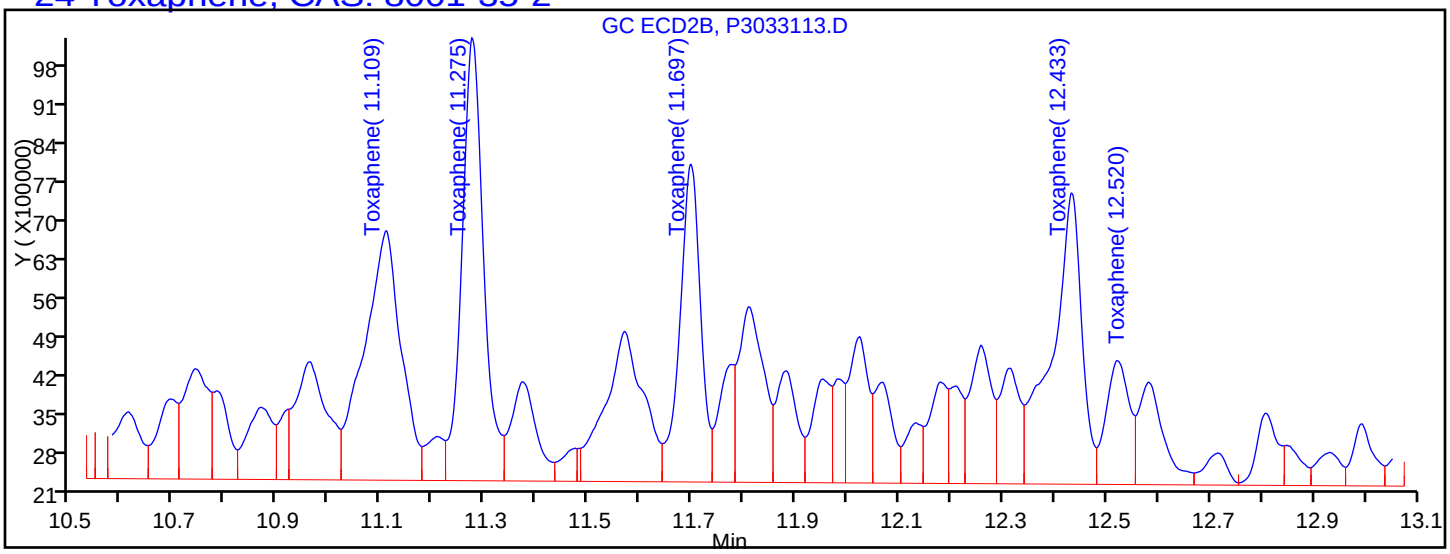
Report Date: 01-Apr-2015 08:57:24 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033113.D

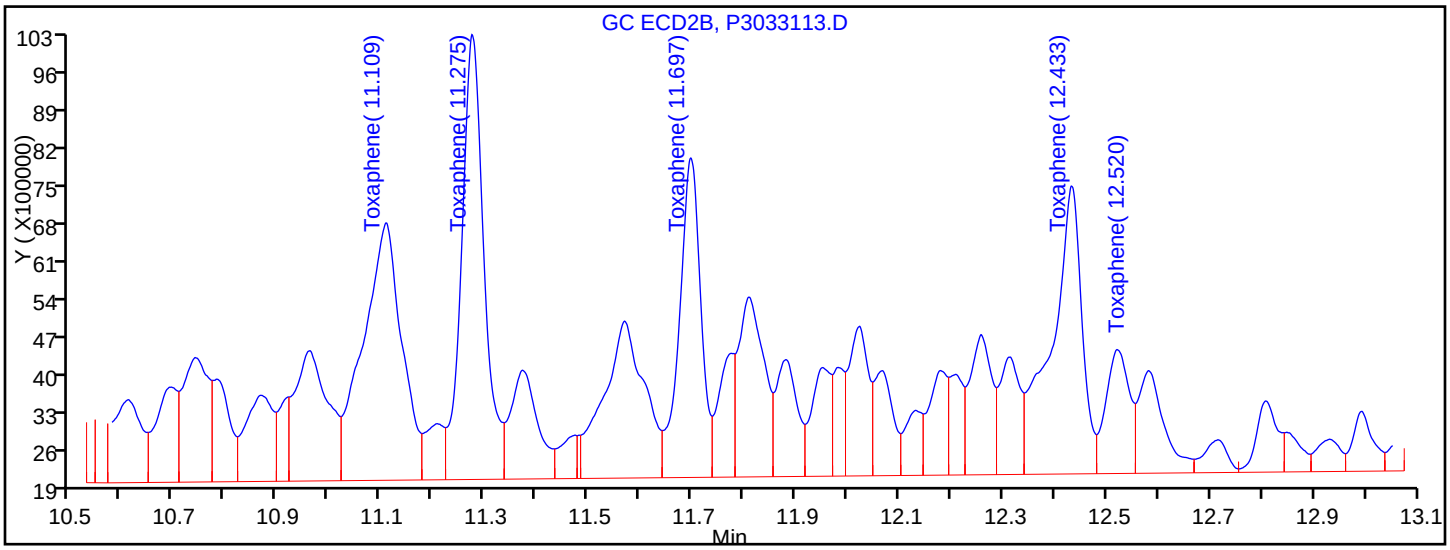
Injection Date:	31-Mar-2015 16:01:17	Instrument ID:	A2HP3		
Lims ID:	STD TOX2				
Client ID:					
Operator ID:	430893	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		
Column:		Detector	GC ecd2b		

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.109	Response = 22258333	M
RT = 11.275	Response = 23216556	M
RT = 11.697	Response = 16033086	M
RT = 12.433	Response = 21327843	M
RT = 12.520	Response = 7031573	M



Manual Integration Results

RT = 11.109	Response = 24670801	M
RT = 11.275	Response = 24796029	M
RT = 11.697	Response = 17040990	M
RT = 12.433	Response = 21923625	M
RT = 12.520	Response = 7281721	M

Reviewer: matthewsb, 01-Apr-2015 08:31:47

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D
Lims ID: STD TOX3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 16:24:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-014
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:26 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	39031109	1000.0	1031.7	M
1	10.167	10.167	0.000	37655028	1000.0	1027.6	M
1	10.478	10.478	0.000	23896272	1000.0	1023.2	M
1	10.814	10.814	0.000	34529098	1000.0	1040.8	M
1	10.922	10.922	0.000	33391038	1000.0	1032.8	M
		Average of Peak Amounts =				1031.2	
2	11.108	11.108	0.000	51233967	1000.0	988.6	M
2	11.275	11.275	0.000	51076818	1000.0	1002.2	M
2	11.698	11.698	0.000	35702538	1000.0	1001.7	M
2	12.433	12.433	0.000	45291737	1000.0	992.6	M
2	12.523	12.523	0.000	15291056	1000.0	982.1	M
		Average of Peak Amounts =				993.5	
						RPD = 3.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

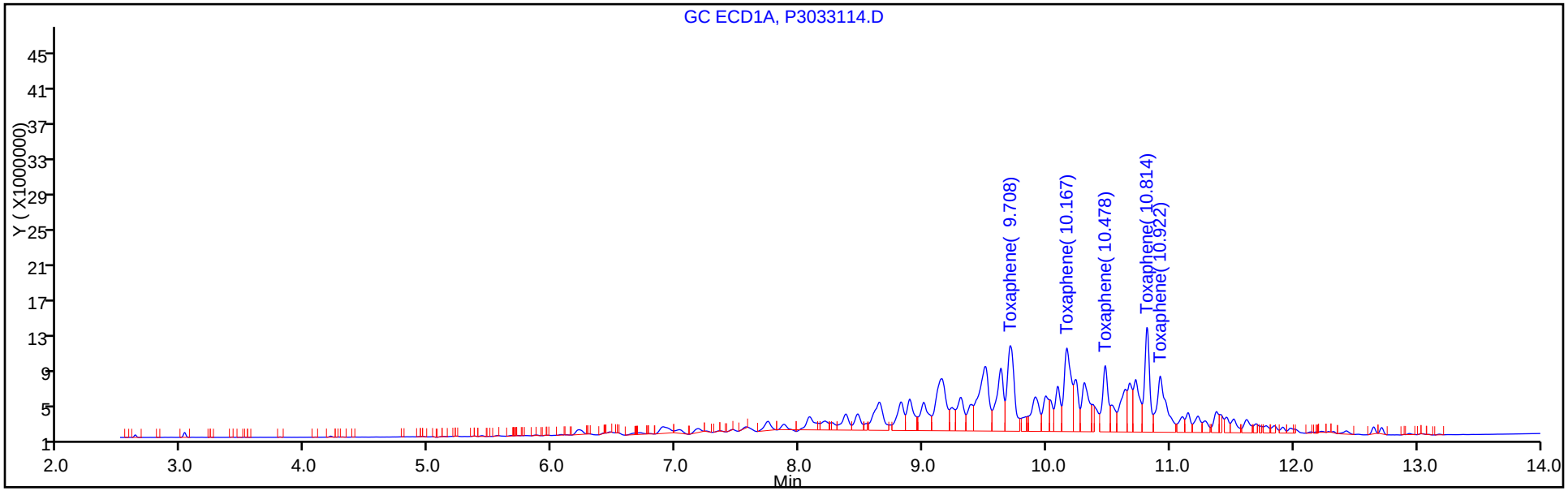
Report Date: 01-Apr-2015 08:57:27 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

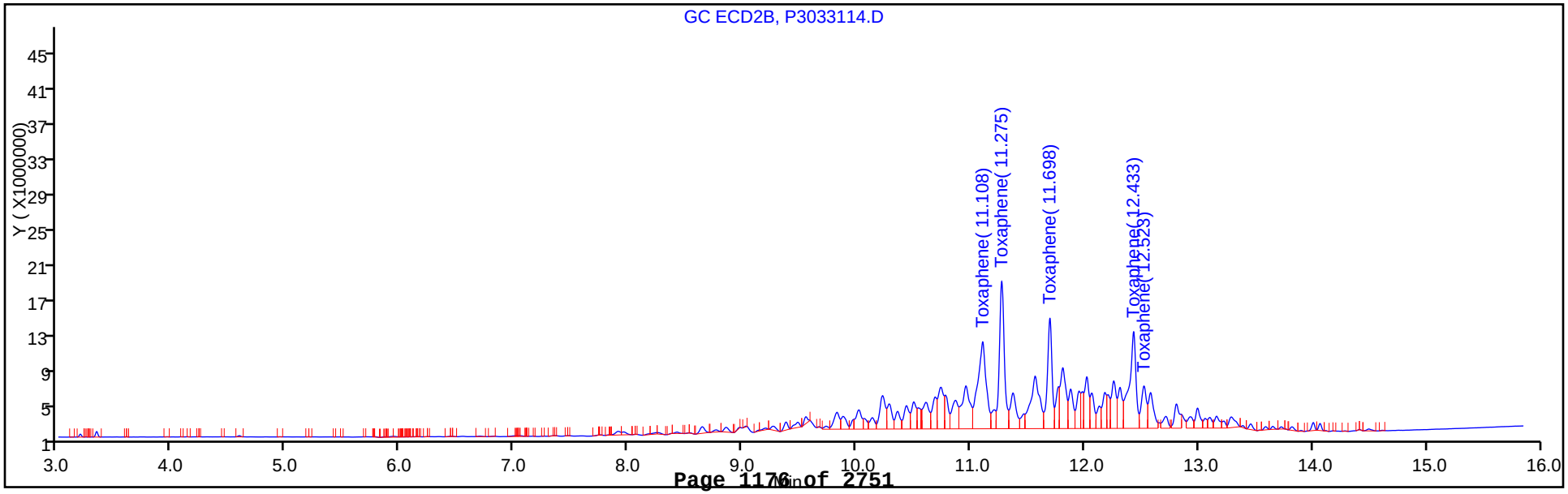
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date:	31-Mar-2015 16:24:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX3			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:28 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033114.D

Injection Date: 31-Mar-2015 16:24:32 Instrument ID: A2HP3

Lims ID: STD TOX3

Client ID:

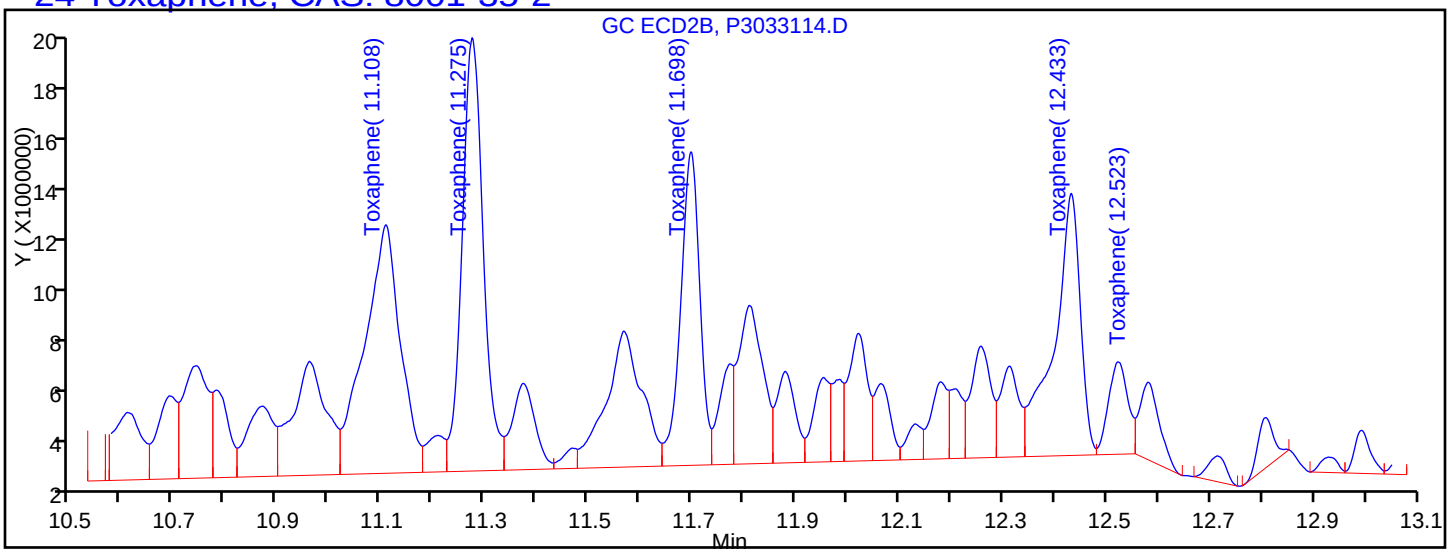
Operator ID: 430893 ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

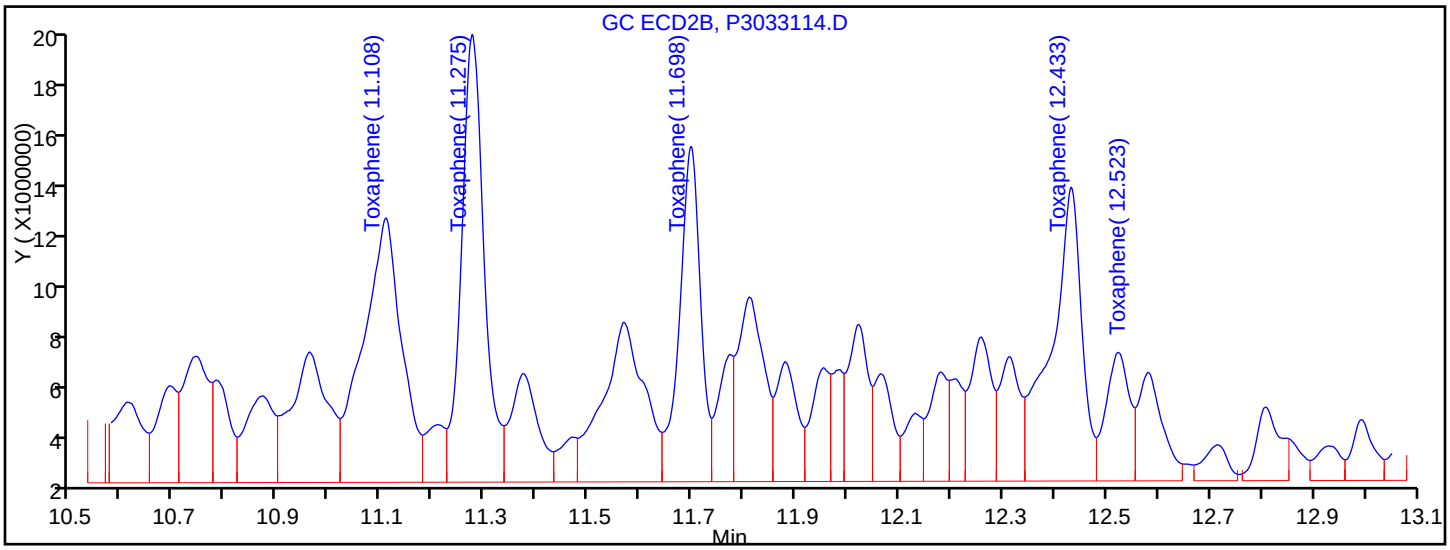
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.108	Response = 43949021	M
RT = 11.275	Response = 45453309	M
RT = 11.698	Response = 29769723	M
RT = 12.433	Response = 33995590	M
RT = 12.523	Response = 8947813	M



Manual Integration Results

RT = 11.108	Response = 51233967	M
RT = 11.275	Response = 51076818	M
RT = 11.698	Response = 35702538	M
RT = 12.433	Response = 45291737	M
RT = 12.523	Response = 15291056	M

Reviewer: matthewsb, 01-Apr-2015 08:32:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D
Lims ID: STD TOX4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 16:47:48 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-015
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:29 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.709	9.708	0.001	82385228	2000.0	2177.6	M
1	10.167	10.167	0.000	78084498	2000.0	2130.9	M
1	10.478	10.478	0.000	50661085	2000.0	2169.2	M
1	10.815	10.814	0.001	70679302	2000.0	2130.4	M
1	10.924	10.922	0.002	72870864	2000.0	2253.9	M
		Average of Peak Amounts =				2172.4	
2	11.108	11.108	0.000	110160431	2000.0	2125.7	M
2	11.275	11.275	0.000	107527323	2000.0	2109.8	M
2	11.698	11.698	0.000	76152937	2000.0	2136.6	M
2	12.431	12.433	-0.002	97042833	2000.0	2126.8	M
2	12.524	12.523	0.001	34039899	2000.0	2186.3	M
		Average of Peak Amounts =				2137.1	
						RPD = 1.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 200.00 Units: uL

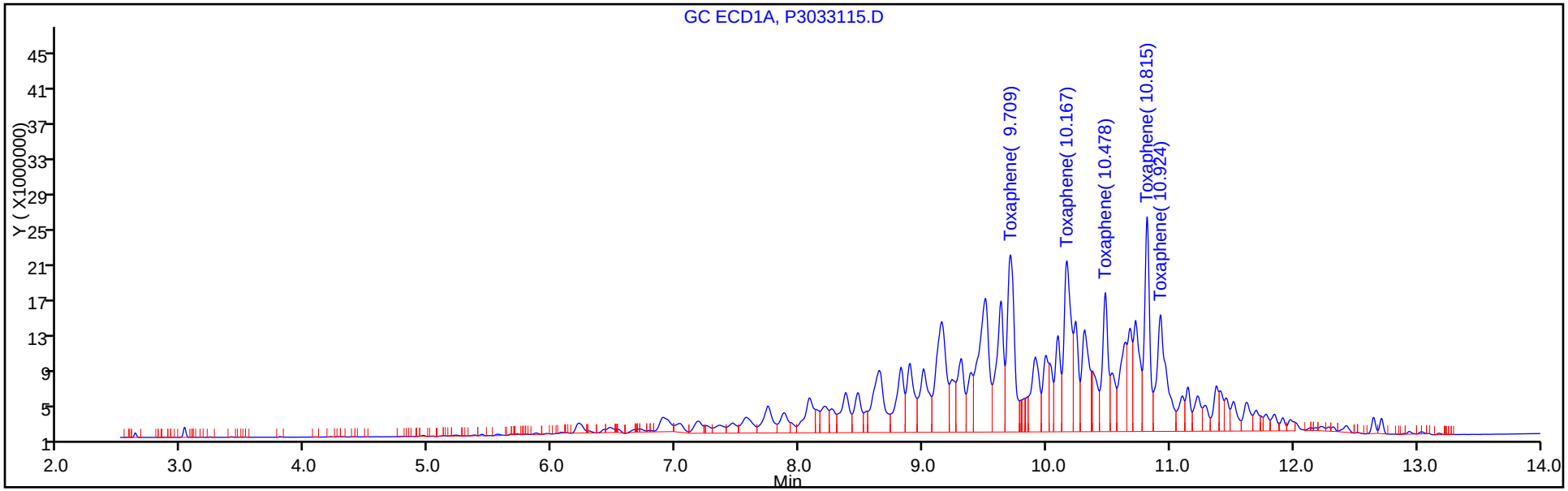
Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

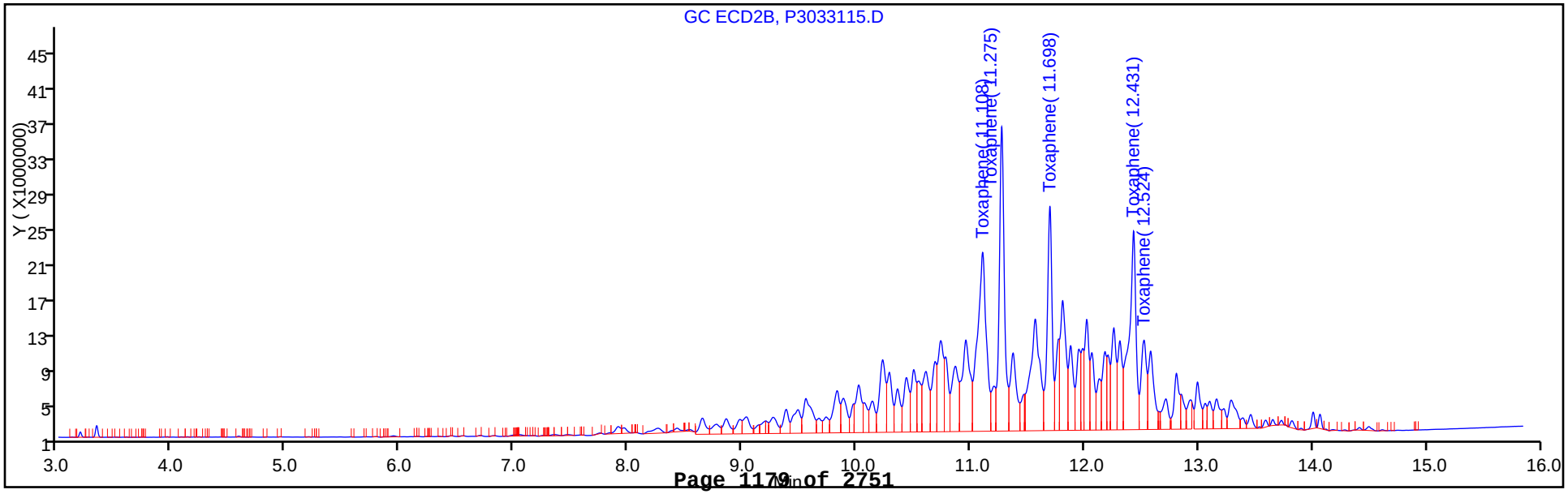
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

Injection Date:	31-Mar-2015 16:47:48	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX4			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:31 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033115.D

Injection Date: 31-Mar-2015 16:47:48 Instrument ID: A2HP3

Lims ID: STD TOX4

Client ID:

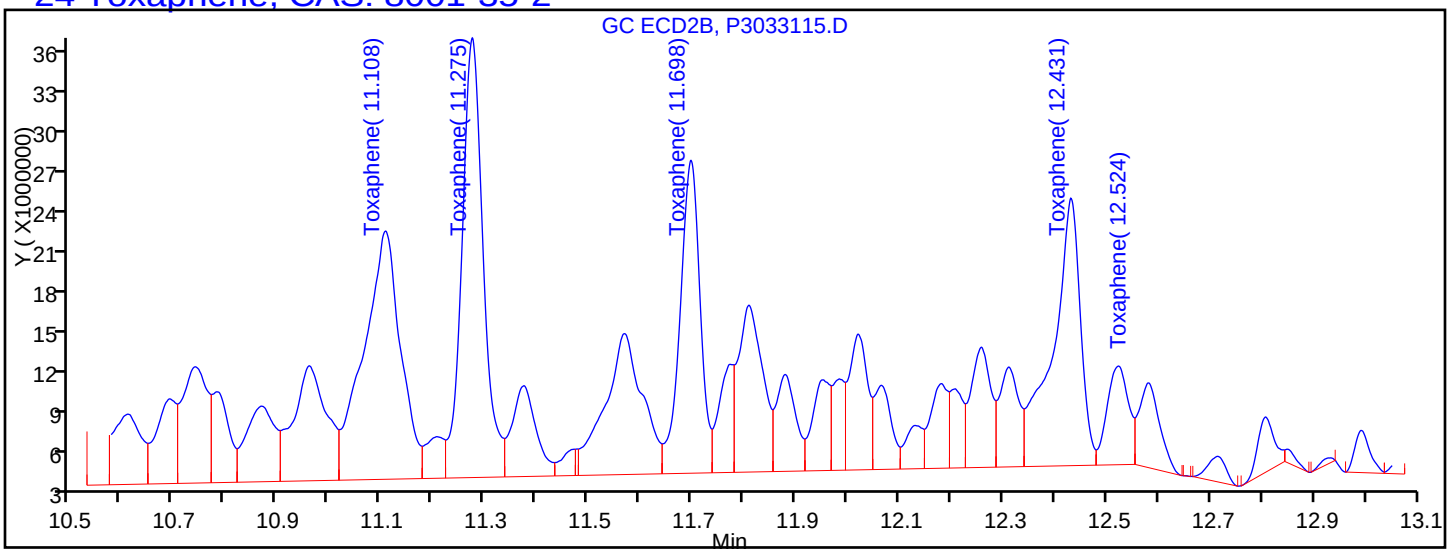
Operator ID: 430893 ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

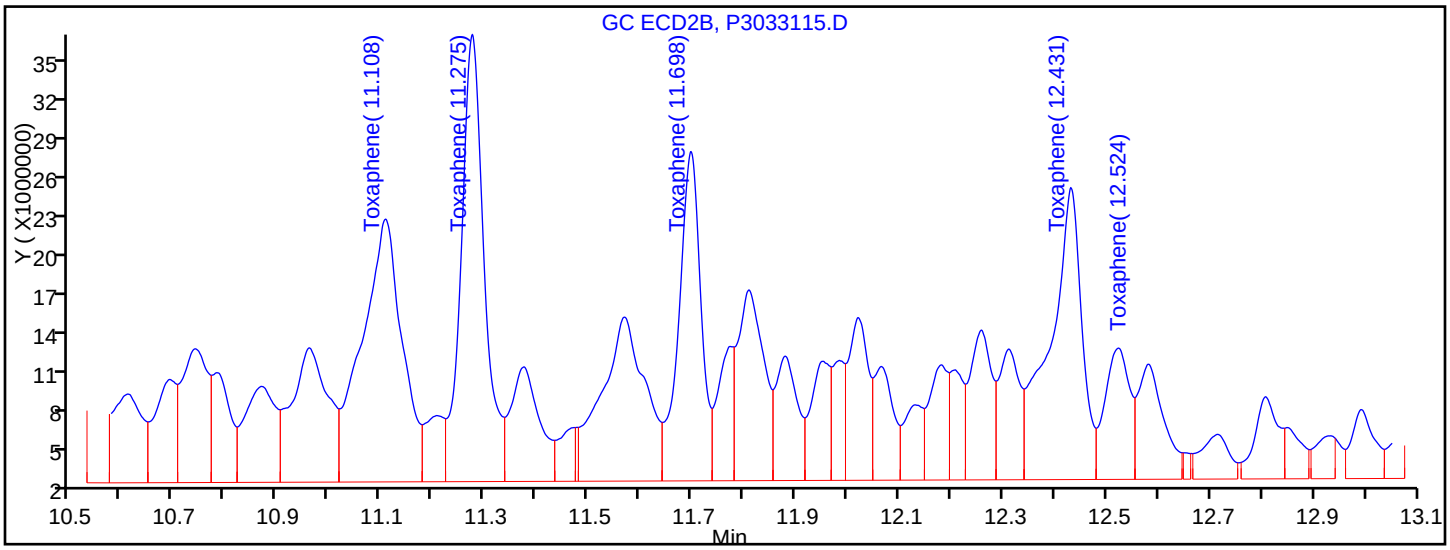
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.108	Response = 91132966	M
RT = 11.275	Response = 93243415	M
RT = 11.698	Response = 62581328	M
RT = 12.431	Response = 73763797	M
RT = 12.524	Response = 21194669	M



Manual Integration Results

RT = 11.108	Response = 110160431	M
RT = 11.275	Response = 107527323	M
RT = 11.698	Response = 76152937	M
RT = 12.431	Response = 97042833	M
RT = 12.524	Response = 34039899	M

Reviewer: matthewsb, 01-Apr-2015 08:32:22

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D
Lims ID: STD TOX5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 17:11:00 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-016
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:32:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.707	9.708	-0.001	201242128	5000.0	5319.3	M
1	10.165	10.167	-0.002	188116864	5000.0	5133.6	M
1	10.476	10.478	-0.002	132101364	5000.0	5656.3	M
1	10.814	10.814	0.000	172790007	5000.0	5208.3	M
1	10.923	10.922	0.001	187835772	5000.0	5809.9	M
		Average of Peak Amounts =				5425.5	
2	11.109	11.108	0.001	272057035	5000.0	5249.8	M
2	11.274	11.275	-0.001	263525388	5000.0	5170.8	M
2	11.699	11.698	0.001	188891703	5000.0	5299.8	M
2	12.433	12.433	0.000	240683474	5000.0	5274.8	M
2	12.524	12.523	0.001	84924334	5000.0	5454.4	M
		Average of Peak Amounts =				5289.9	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 500.00 Units: uL

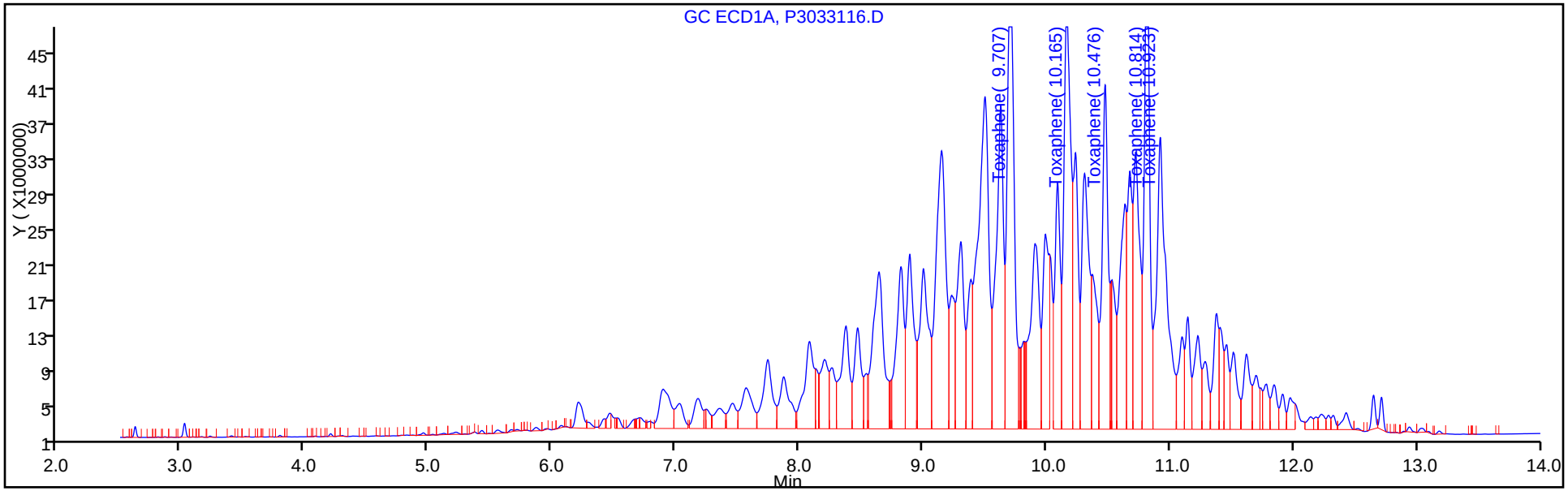
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

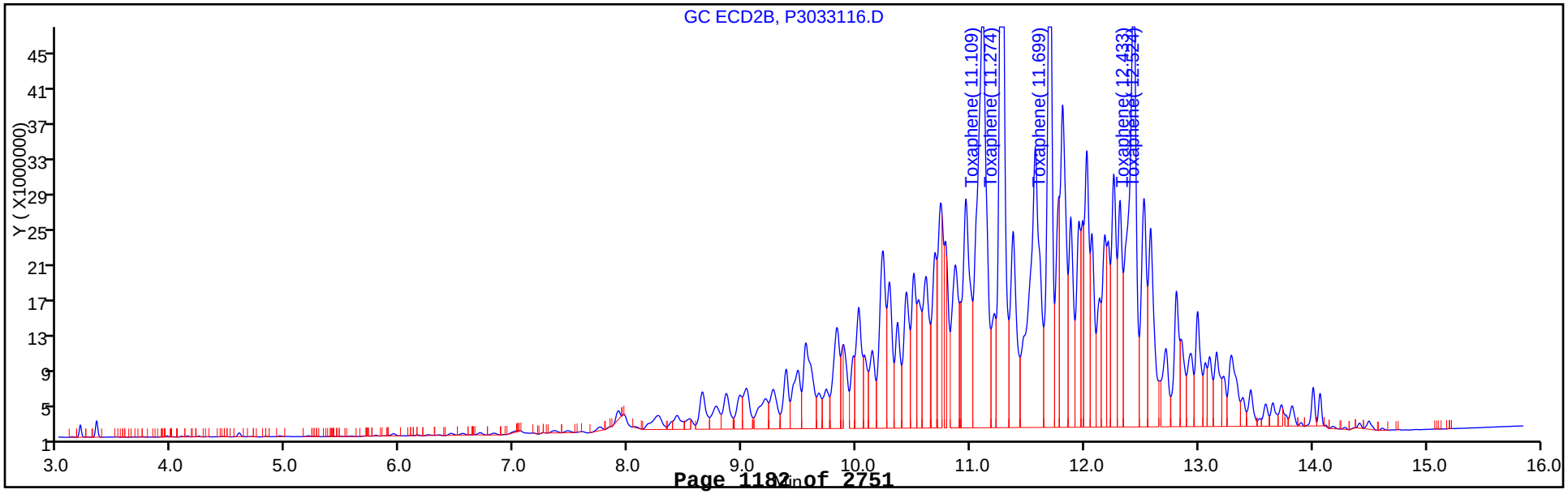
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD TOX5			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



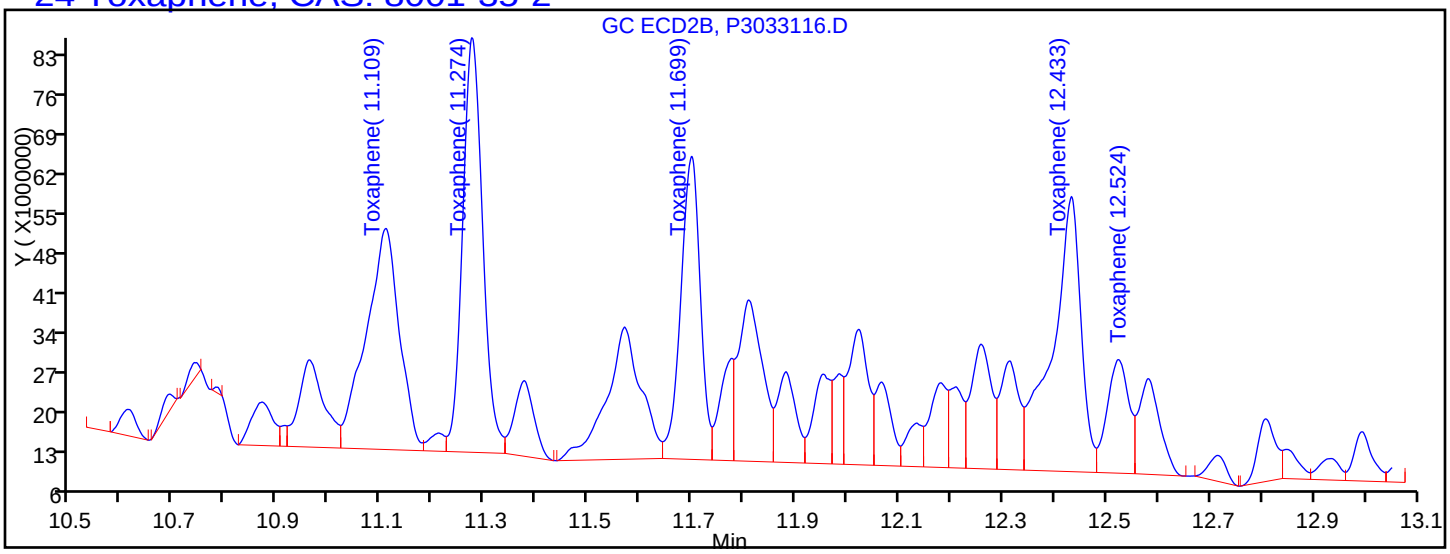
Report Date: 01-Apr-2015 08:57:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

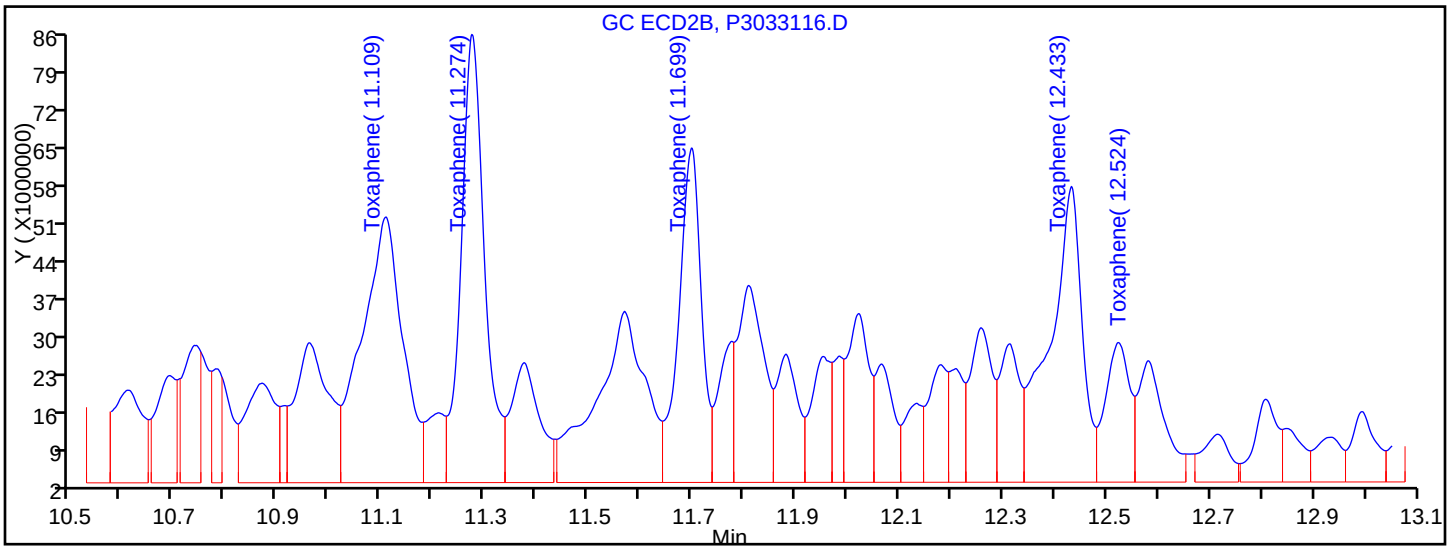
Injection Date:	31-Mar-2015 17:11:00	Instrument ID:	A2HP3
Lims ID:	STD TOX5		
Client ID:			
Operator ID:	430893	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.109	Response = 175653010	M
RT = 11.274	Response = 198970921	M
RT = 11.699	Response = 141437787	M
RT = 12.433	Response = 189724211	M
RT = 12.524	Response = 59374174	M



Manual Integration Results

RT = 11.109	Response = 272057035	M
RT = 11.274	Response = 263525388	M
RT = 11.699	Response = 188891703	M
RT = 12.433	Response = 240683474	M
RT = 12.524	Response = 84924334	M

Reviewer: matthewsb, 01-Apr-2015 08:32:36

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.301	4.300	4.301	4.302	4.301	4.300					4.270 - 4.330	4.301
gamma-BHC (Lindane)	4.695	4.694	4.695	4.696	4.695	4.693					4.663 - 4.723	4.695
beta-BHC	4.836	4.835	4.835	4.836	4.835	4.832					4.804 - 4.864	4.835
delta-BHC	5.063	5.062	5.062	5.063	5.062	5.059					5.030 - 5.090	5.062
Heptachlor	5.356	5.354	5.356	5.356	5.356	5.353					5.324 - 5.384	5.355
Aldrin	5.833	5.831	5.833	5.833	5.832	5.830					5.801 - 5.861	5.832
Heptachlor epoxide	7.141	7.140	7.141	7.142	7.141	7.138					7.107 - 7.167	7.141
gamma-Chlordane	7.461	7.460	7.462	7.462	7.461	7.458					7.429 - 7.489	7.461
alpha-Chlordane	7.801	7.798	7.799	7.802	7.801	7.798					7.768 - 7.828	7.800
Endosulfan I	8.070	8.070	8.068	8.071	8.071	8.067					8.039 - 8.099	8.070
4,4'-DDE	8.167	8.166	8.166	8.166	8.164	8.160					8.132 - 8.192	8.165
Dieldrin	8.614	8.615	8.614	8.614	8.613	8.612					8.582 - 8.642	8.614
Endrin	9.062	9.061	9.061	9.061	9.061	9.060					9.031 - 9.091	9.061
4,4'-DDD	9.421	9.416	9.415	9.415	9.412	9.411					9.383 - 9.443	9.415
Endosulfan II	9.507	9.508	9.507	9.506	9.507	9.505					9.475 - 9.535	9.507
4,4'-DDT	9.927	9.925	9.924	9.926	9.925	9.922					9.894 - 9.954	9.925
Endrin aldehyde	10.296	10.296	10.296	10.295	10.294	10.294					10.262 - 10.322	10.295
Methoxychlor	10.872	10.869	10.868	10.869	10.867	10.867					10.836 - 10.896	10.869
Endosulfan sulfate	11.016	11.015	11.015	11.015	11.015	11.013					10.984 - 11.044	11.015
Endrin ketone	11.415	11.414	11.414	11.415	11.414	11.412					11.382 - 11.442	11.414
Tetrachloro-m-xylene	3.605	3.603	3.604	3.605	3.604	3.602					3.572 - 3.632	3.604
DCB Decachlorobiphenyl	13.011	13.010	13.011	13.012	13.011	13.009					12.979 - 13.039	13.011

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1598656 1862732	1542762 1774126	1870799	1741949	Ave		1731837.37				7.8		20.0			
gamma-BHC (Lindane)	1444166 1650625	1392125 1572055	1662962	1540505	Ave		1543739.54				7.1		20.0			
beta-BHC	648919 643562	603406 611547	668316	603300	Ave		629841.700				4.4		20.0			
delta-BHC	1334934 1669255	1265888 1595962	1624558	1526385	Ave		1502830.39				11.0		20.0			
Heptachlor	1419255 1539307	1328852 1440456	1594667	1432800	Ave		1459222.83				6.5		20.0			
Aldrin	1422590 1535272	1341784 1459417	1569878	1442389	Ave		1461888.26				5.6		20.0			
Heptachlor epoxide	1323608 1355951	1218719 1258576	1395232	1271141	Ave		1303871.02				5.1		20.0			
gamma-Chlordane	1319278 1436042	1234866 1373343	1424400	1315843	Ave		1350628.70				5.6		20.0			
alpha-Chlordane	1332420 1404141	1240746 1333789	1416003	1298558	Ave		1337609.30				4.9		20.0			
Endosulfan I	1232567 1278830	1154240 1187073	1316408	1195997	Ave		1227519.14				5.0		20.0			
4,4'-DDE	1068121 1305682	1059026 1268379	1242053	1164800	Ave		1184676.67				8.8		20.0			
Dieldrin	1238410 1396445	1203470 1306375	1407123	1293746	Ave		1307594.88				6.3		20.0			
Endrin	1100841 1228102	1054284 1147312	1250839	1126938	Ave		1151385.84				6.5		20.0			
4,4'-DDD	732191 995346	726214 976133	920182	872433	Ave		870416.413				13.5		20.0			
Endosulfan II	1178838 1186137	1109442 1087940	1269603	1109416	Ave		1156895.92				5.9		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	838052 1074969	788232 1058253	1030418	941265	Ave		955198.054				12.6		20.0			
Endrin aldehyde	918886 907222	869334 826852	962795	859942	Ave		890838.566				5.4		20.0			
Methoxychlor	469411 464723	438857 447611	491144	437625	Ave		458228.437				4.5		20.0			
Endosulfan sulfate	1017060 1023414	960900 947644	1064806	963339	Ave		996193.806				4.6		20.0			
Endrin ketone	1245844 1236216	1189679 1140175	1328097	1191871	Ave		1221980.44				5.3		20.0			
Tetrachloro-m-xylene	999059 1009794	924285 948186	1057759	962085	Ave		983527.986				4.9		20.0			
DCB Decachlorobiphenyl	1052590 882664	961176 848559	991991	881758	Ave		936456.367				8.4		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	7993281 354825181	15427617	46769971	87097467	186273224	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Ave	7220829 314410933	13921250	41574049	77025264	165062455	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	3244596 122309456	6034059	16707890	30165006	64356210	5.00 200	10.0	25.0	50.0	100
delta-BHC	Ave	6674668 319192463	12658880	40613949	76319253	166925543	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	7096274 288091249	13288516	39866687	71639995	153930697	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	7112948 291883438	13417843	39246951	72119434	153527177	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	6618040 251715160	12187185	34880799	63557048	135595093	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	6596391 274668690	12348664	35610001	65792126	143604158	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	6662099 266757855	12407456	35400064	64927892	140414073	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	6162836 237414688	11542395	32910197	59799863	127882954	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Ave	5340605 253675814	10590255	31051315	58240006	130568170	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	6192051 261274932	12034701	35178081	64687313	139644483	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	5504203 229462332	10542835	31270972	56346911	122810215	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Ave	3660954 195226651	7262139	23004544	43621651	99534574	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	5894190 217587968	11094415	31740081	55470808	118613675	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Ave	4190259 211650515	7882323	25760449	47063249	107496871	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27642

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	4594432 165370411	8693339	24069870	42997118	90722188	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	2347056 89522192	4388568	12278595	21881225	46472336	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	5085300 189528753	9609001	26620156	48166927	102341419	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	6229218 228035065	11896793	33202430	59593571	123621579	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	4995293 189637291	9242851	26443978	48104246	100979372	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	5262952 169711774	9611764	24799770	44087885	88266403	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D
Lims ID: STD AB1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 20:34:34 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-025
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:02 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.602	0.003	4995293	5.00	5.08	
2	4.287	4.287	0.000	5976395	5.00	5.30	
						RPD = 4.31	
4 alpha-BHC							
1	4.301	4.300	0.001	7993281	5.00	4.62	
2	5.198	5.198	0.000	9195421	5.00	4.70	
						RPD = 1.76	
5 gamma-BHC (Lindane)							
1	4.695	4.693	0.002	7220829	5.00	4.68	
2	5.838	5.837	0.001	8544743	5.00	4.83	
						RPD = 3.18	
6 beta-BHC							
1	4.836	4.834	0.002	3244596	5.00	5.15	
2	6.040	6.039	0.001	4183054	5.00	5.44	
						RPD = 5.52	
7 delta-BHC							
1	5.063	5.060	0.003	6674668	5.00	4.44	
2	6.681	6.681	0.000	8260715	5.00	4.66	
						RPD = 4.72	
9 Heptachlor							
1	5.356	5.354	0.002	7096274	5.00	4.86	
2	6.766	6.765	0.001	8502776	5.00	5.03	
						RPD = 3.37	
10 Aldrin							
1	5.833	5.831	0.002	7112948	5.00	4.87	
2	7.586	7.583	0.003	8372425	5.00	5.01	
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.137	0.004	6618040	5.00	5.08	
2	8.992	8.991	0.001	7415262	5.00	5.17	
						RPD = 1.76	
13 gamma-Chlordane							
1	7.461	7.459	0.002	6596391	5.00	4.88	
2	9.381	9.381	0.000	7494937	5.00	5.09	
						RPD = 4.22	
14 alpha-Chlordane							
1	7.801	7.798	0.003	6662099	5.00	4.98	
2	9.676	9.675	0.001	7252296	5.00	5.11	
						RPD = 2.48	
15 Endosulfan I							
1	8.070	8.069	0.001	6162836	5.00	5.02	
2	9.746	9.746	0.000	6816292	5.00	5.16	
						RPD = 2.69	
16 4,4'-DDE							
1	8.167	8.162	0.005	5340605	5.00	4.51	
2	10.096	10.096	0.000	6355333	5.00	4.81	
						RPD = 6.55	
17 Dieldrin							
1	8.614	8.612	0.002	6192051	5.00	4.74	
2	10.257	10.256	0.001	6788945	5.00	4.96	
						RPD = 4.68	
18 Endrin							
1	9.062	9.061	0.001	5504203	5.00	4.78	
2	10.767	10.766	0.001	6014479	5.00	4.99	
						RPD = 4.27	
20 4,4'-DDD							
1	9.421	9.413	0.008	3660954	5.00	4.21	
2	11.084	11.083	0.001	4604106	5.00	4.70	
						RPD = 11.19	
21 Endosulfan II							
1	9.507	9.505	0.002	5894190	5.00	5.09	
2	11.136	11.134	0.002	6066579	5.00	5.19	
						RPD = 1.81	
23 4,4'-DDT							
1	9.927	9.924	0.003	4190259	5.00	4.39	
2	11.566	11.564	0.002	4776608	5.00	4.79	
						RPD = 8.71	
25 Endrin aldehyde							
1	10.296	10.292	0.004	4594432	5.00	5.16	
2	11.691	11.689	0.002	4945988	5.00	5.30	
						RPD = 2.66	
27 Methoxychlor							
1	10.872	10.866	0.006	2347056	5.00	5.12	
2	12.629	12.626	0.003	2562127	5.00	5.24	
						RPD = 2.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.016	11.014	0.002	5085300	5.00	5.10	
2	12.111	12.110	0.001	5442796	5.00	5.14	
						RPD = 0.67	
29 Endrin ketone							
1	11.415	11.412	0.003	6229218	5.00	5.10	
2	12.856	12.855	0.001	6223871	5.00	5.07	
						RPD = 0.57	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.009	0.002	5262952	5.00	5.62	
2	14.571	14.568	0.003	5624059	5.00	5.52	
						RPD = 1.71	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

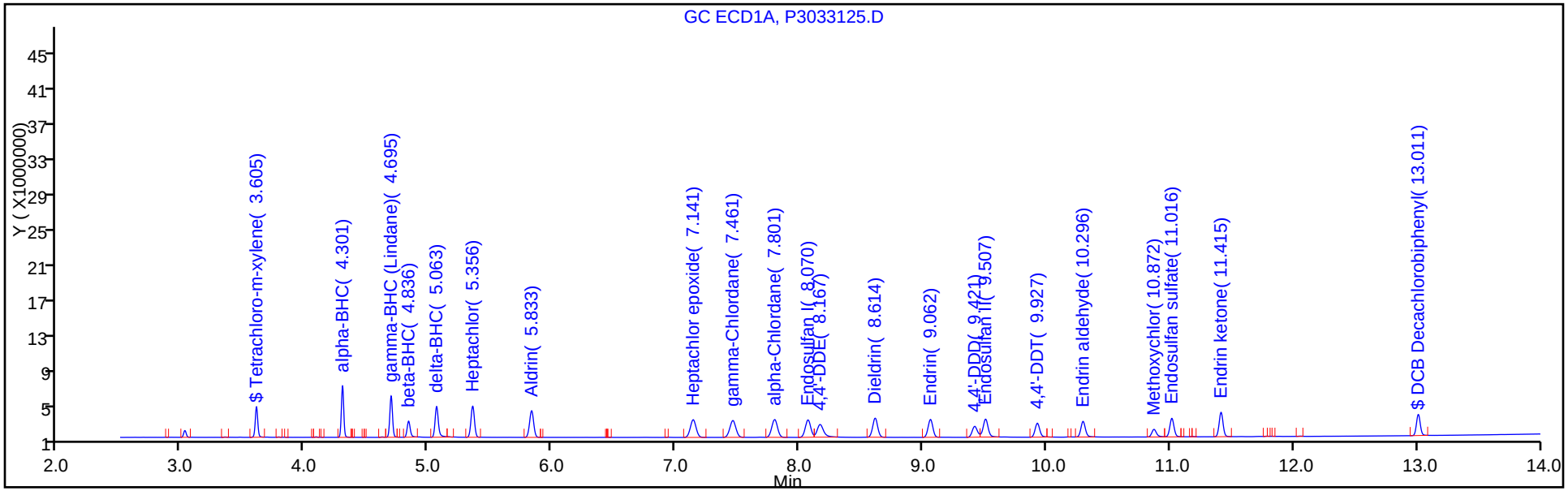
Report Date: 01-Apr-2015 08:58:04 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

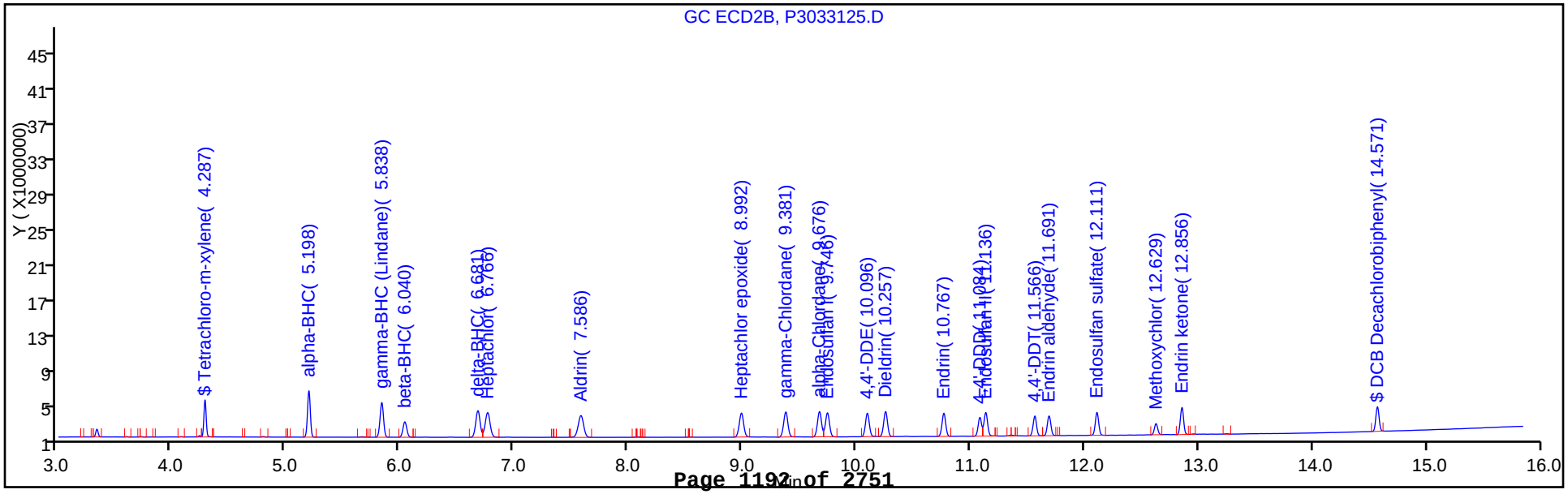
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D

Injection Date:	31-Mar-2015 20:34:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D
Lims ID: STD AB2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 20:57:32 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-026
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:06 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	9242851	10.0	9.40	
2	4.286	4.287	-0.001	10851740	10.0	9.63	
						RPD = 2.43	
4 alpha-BHC							
1	4.300	4.300	0.000	15427617	10.0	8.91	
2	5.199	5.198	0.001	17699620	10.0	9.04	
						RPD = 1.49	
5 gamma-BHC (Lindane)							
1	4.694	4.693	0.001	13921250	10.0	9.02	
2	5.837	5.837	0.000	16139715	10.0	9.12	
						RPD = 1.14	
6 beta-BHC							
1	4.835	4.834	0.001	6034059	10.0	9.58	
2	6.040	6.039	0.001	7525710	10.0	9.79	
						RPD = 2.21	
7 delta-BHC							
1	5.062	5.060	0.002	12658880	10.0	8.42	
2	6.680	6.681	-0.001	15792059	10.0	8.90	
						RPD = 5.52	
9 Heptachlor							
1	5.354	5.354	0.000	13288516	10.0	9.11	
2	6.765	6.765	0.000	15740575	10.0	9.31	
						RPD = 2.22	
10 Aldrin							
1	5.831	5.831	0.000	13417843	10.0	9.18	
2	7.586	7.583	0.003	15503993	10.0	9.27	
						RPD = 1.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.140	7.137	0.003	12187185	10.0	9.35	
2	8.992	8.991	0.001	13689871	10.0	9.54	
						RPD = 2.01	
13 gamma-Chlordane							
1	7.460	7.459	0.001	12348664	10.0	9.14	
2	9.382	9.381	0.001	13636997	10.0	9.27	
						RPD = 1.38	
14 alpha-Chlordane							
1	7.798	7.798	0.000	12407456	10.0	9.28	
2	9.676	9.675	0.001	13324673	10.0	9.38	
						RPD = 1.13	
15 Endosulfan I							
1	8.070	8.069	0.001	11542395	10.0	9.40	
2	9.746	9.746	0.000	12609879	10.0	9.54	
						RPD = 1.46	
16 4,4'-DDE							
1	8.166	8.162	0.004	10590255	10.0	8.94	
2	10.097	10.096	0.001	12110985	10.0	9.17	
						RPD = 2.57	
17 Dieldrin							
1	8.615	8.612	0.003	12034701	10.0	9.20	
2	10.257	10.256	0.001	12731838	10.0	9.31	
						RPD = 1.11	
18 Endrin							
1	9.061	9.061	0.000	10542835	10.0	9.16	
2	10.768	10.766	0.002	11147706	10.0	9.25	
						RPD = 0.98	
20 4,4'-DDD							
1	9.416	9.413	0.003	7262139	10.0	8.34	
2	11.084	11.083	0.001	8648786	10.0	8.84	
						RPD = 5.75	
21 Endosulfan II							
1	9.508	9.505	0.003	11094415	10.0	9.59	
2	11.135	11.134	0.001	11114726	10.0	9.50	
						RPD = 0.89	
23 4,4'-DDT							
1	9.925	9.924	0.001	7882323	10.0	8.25	
2	11.565	11.564	0.001	8959182	10.0	8.98	
						RPD = 8.42	
25 Endrin aldehyde							
1	10.296	10.292	0.004	8693339	10.0	9.76	
2	11.690	11.689	0.001	9270072	10.0	9.93	
						RPD = 1.71	
27 Methoxychlor							
1	10.869	10.866	0.003	4388568	10.0	9.58	
2	12.628	12.626	0.002	4828736	10.0	9.87	
						RPD = 3.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.014	0.001	9609001	10.0	9.65	
2	12.111	12.110	0.001	10245858	10.0	9.67	
						RPD = 0.29	
29 Endrin ketone							
1	11.414	11.412	0.002	11896793	10.0	9.74	
2	12.855	12.855	0.000	11801446	10.0	9.61	
						RPD = 1.29	
$ 30 DCB Decachlorobiphenyl							
1	13.010	13.009	0.001	9611764	10.0	10.3	
2	14.570	14.568	0.002	10514527	10.0	10.3	
						RPD = 0.63	

Reagents:

SGPestAB2_00009 Amount Added: 1.00 Units: mL

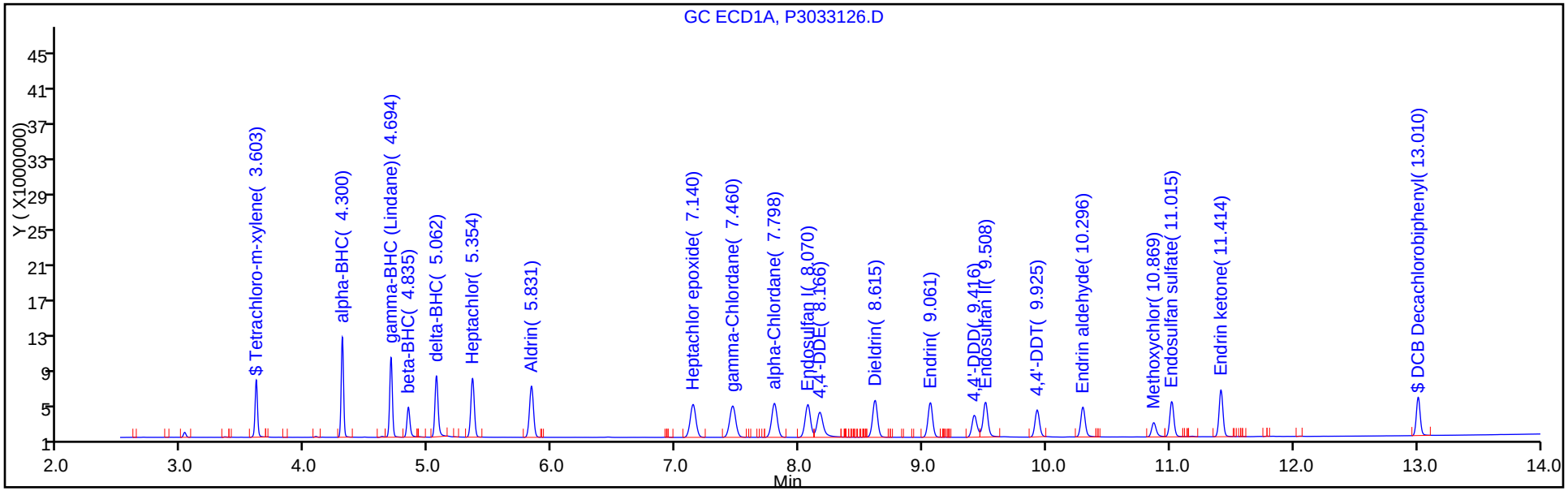
Report Date: 01-Apr-2015 08:58:07 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

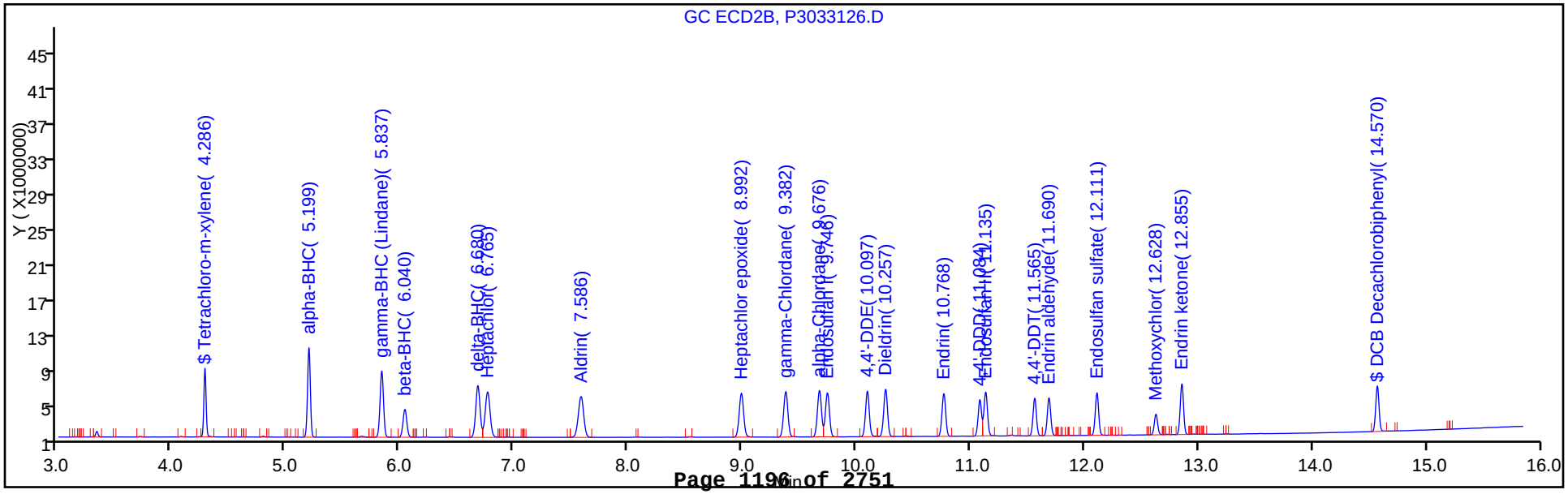
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D

Injection Date:	31-Mar-2015 20:57:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB2			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D
Lims ID: STD AB3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 21:20:40 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:08 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	26443978	25.0	26.9	
2	4.287	4.287	0.000	30167206	25.0	26.8	
						RPD = 0.45	
4 alpha-BHC							
1	4.301	4.301	0.000	46769971	25.0	27.0	
2	5.199	5.199	0.000	52950629	25.0	27.0	
						RPD = 0.16	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	41574049	25.0	26.9	
2	5.837	5.837	0.000	47599126	25.0	26.9	
						RPD = 0.12	
6 beta-BHC							
1	4.835	4.835	0.000	16707890	25.0	26.5	
2	6.040	6.040	0.000	20332064	25.0	26.5	
						RPD = 0.25	
7 delta-BHC							
1	5.062	5.062	0.000	40613949	25.0	27.0	
2	6.681	6.681	0.000	47690894	25.0	26.9	
						RPD = 0.53	
9 Heptachlor							
1	5.356	5.356	0.000	39866687	25.0	27.3	
2	6.765	6.765	0.000	45959059	25.0	27.2	
						RPD = 0.49	
10 Aldrin							
1	5.833	5.833	0.000	39246951	25.0	26.8	
2	7.585	7.585	0.000	44658266	25.0	26.7	
						RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	34880799	25.0	26.8	
2	8.992	8.992	0.000	38457347	25.0	26.8	
						RPD = 0.15	
13 gamma-Chlordane							
1	7.462	7.462	0.000	35610001	25.0	26.4	
2	9.381	9.381	0.000	38906572	25.0	26.4	
						RPD = 0.31	
14 alpha-Chlordane							
1	7.799	7.799	0.000	35400064	25.0	26.5	
2	9.676	9.676	0.000	37899355	25.0	26.7	
						RPD = 0.82	
15 Endosulfan I							
1	8.068	8.068	0.000	32910197	25.0	26.8	
2	9.746	9.746	0.000	35568057	25.0	26.9	
						RPD = 0.38	
16 4,4'-DDE							
1	8.166	8.166	0.000	31051315	25.0	26.2	
2	10.096	10.096	0.000	35268356	25.0	26.7	
						RPD = 1.89	
17 Dieldrin							
1	8.614	8.614	0.000	35178081	25.0	26.9	
2	10.256	10.256	0.000	36449407	25.0	26.6	
						RPD = 0.97	
18 Endrin							
1	9.061	9.061	0.000	31270972	25.0	27.2	
2	10.768	10.768	0.000	32475088	25.0	26.9	
						RPD = 0.82	
20 4,4'-DDD							
1	9.415	9.415	0.000	23004544	25.0	26.4	
2	11.083	11.083	0.000	26001941	25.0	26.6	
						RPD = 0.53	
21 Endosulfan II							
1	9.507	9.507	0.000	31740081	25.0	27.4	
2	11.134	11.134	0.000	31413336	25.0	26.9	
						RPD = 2.11	
23 4,4'-DDT							
1	9.924	9.924	0.000	25760449	25.0	27.0	
2	11.565	11.565	0.000	26675891	25.0	26.7	
						RPD = 0.89	
25 Endrin aldehyde							
1	10.296	10.296	0.000	24069870	25.0	27.0	
2	11.690	11.690	0.000	24740219	25.0	26.5	
						RPD = 1.97	
27 Methoxychlor							
1	10.868	10.868	0.000	12278595	25.0	26.8	
2	12.628	12.628	0.000	13011833	25.0	26.6	
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	26620156	25.0	26.7	
2	12.110	12.110	0.000	28332394	25.0	26.8	
						RPD = 0.11	
29 Endrin ketone							
1	11.414	11.414	0.000	33202430	25.0	27.2	
2	12.856	12.856	0.000	32833375	25.0	26.7	
						RPD = 1.60	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	24799770	25.0	26.5	
2	14.570	14.570	0.000	27167237	25.0	26.7	
						RPD = 0.77	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

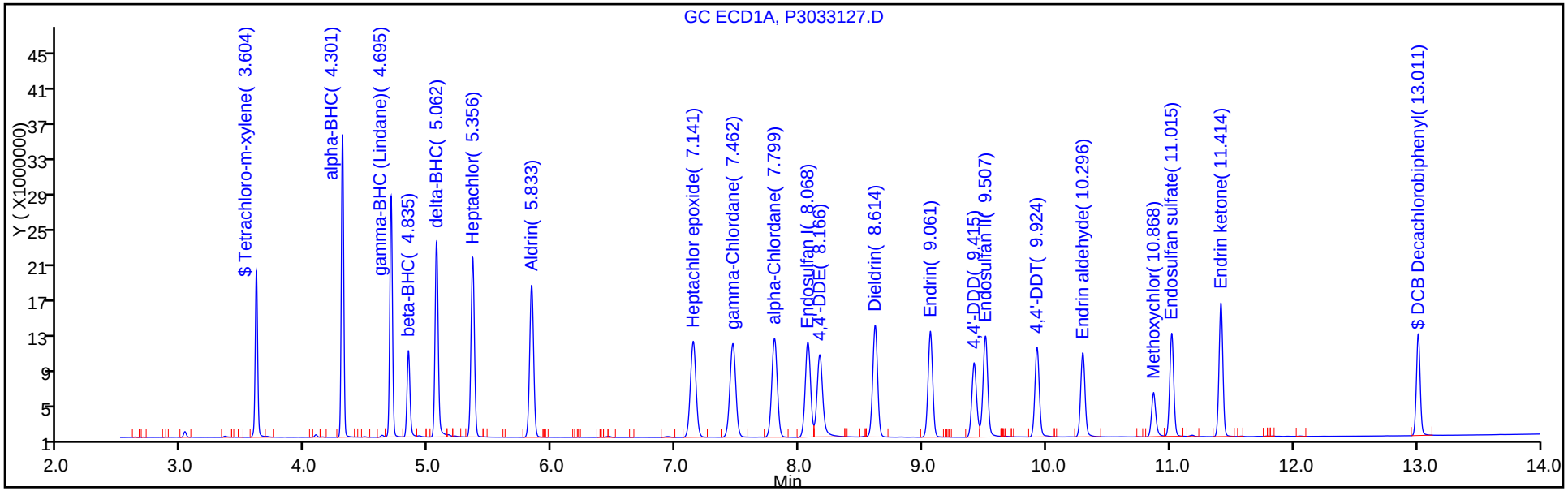
Report Date: 01-Apr-2015 08:58:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

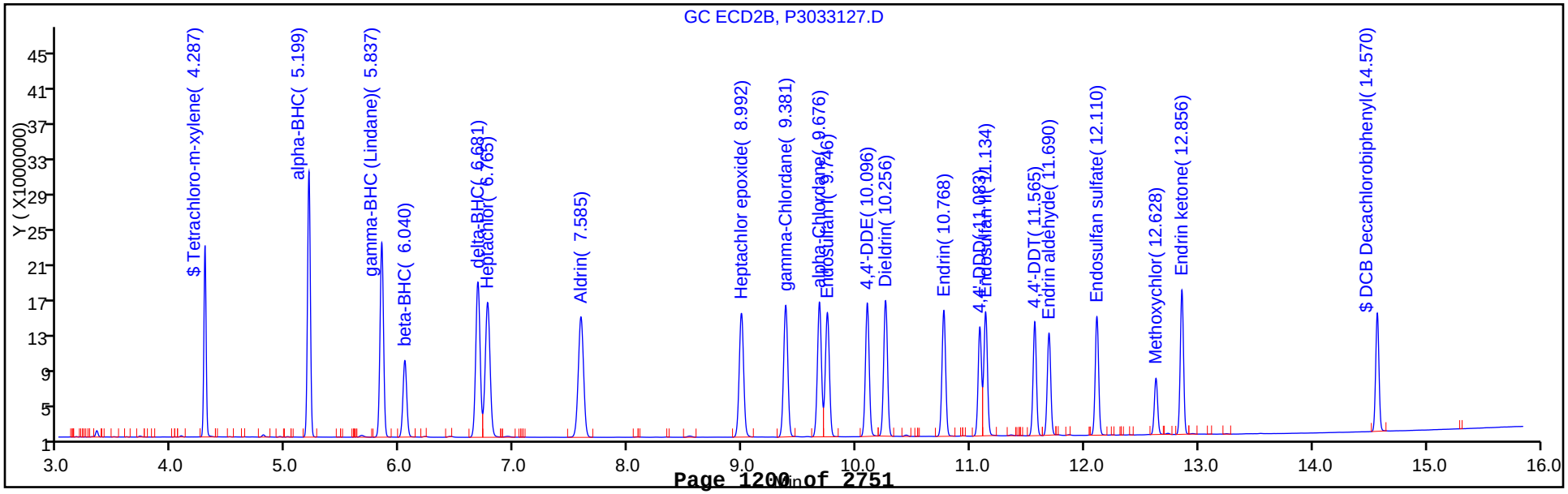
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D

Injection Date:	31-Mar-2015 21:20:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D
Lims ID: STD AB4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 21:44:03 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-028
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:11 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:49:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.604	0.001	48104246	50.0	48.9	
2	4.287	4.287	0.000	54305672	50.0	48.2	
						RPD = 1.49	
4 alpha-BHC							
1	4.302	4.301	0.001	87097467	50.0	50.3	
2	5.198	5.199	-0.001	98042560	50.0	50.1	
						RPD = 0.41	
5 gamma-BHC (Lindane)							
1	4.696	4.695	0.001	77025264	50.0	49.9	
2	5.837	5.837	0.000	87552352	50.0	49.5	
						RPD = 0.84	
6 beta-BHC							
1	4.836	4.835	0.001	30165006	50.0	47.9	
2	6.040	6.040	0.000	36397222	50.0	47.4	
						RPD = 1.10	
7 delta-BHC							
1	5.063	5.062	0.001	76319253	50.0	50.8	
2	6.681	6.681	0.000	88387997	50.0	49.8	
						RPD = 1.92	
9 Heptachlor							
1	5.356	5.356	0.000	71639995	50.0	49.1	
2	6.766	6.765	0.001	81257807	50.0	48.1	
						RPD = 2.12	
10 Aldrin							
1	5.833	5.833	0.000	72119434	50.0	49.3	
2	7.586	7.585	0.001	81365132	50.0	48.7	
						RPD = 1.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.142	7.141	0.001	63557048	50.0	48.7	
2	8.992	8.992	0.000	69475178	50.0	48.4	
						RPD = 0.71	
13 gamma-Chlordane							
1	7.462	7.462	0.000	65792126	50.0	48.7	
2	9.381	9.381	0.000	71367916	50.0	48.5	
						RPD = 0.41	
14 alpha-Chlordane							
1	7.802	7.799	0.003	64927892	50.0	48.5	
2	9.677	9.676	0.001	68733372	50.0	48.4	
						RPD = 0.31	
15 Endosulfan I							
1	8.071	8.068	0.003	59799863	50.0	48.7	
2	9.747	9.746	0.001	63881581	50.0	48.3	
						RPD = 0.78	
16 4,4'-DDE							
1	8.166	8.166	0.000	58240006	50.0	49.2	
2	10.097	10.096	0.001	64399402	50.0	48.8	
						RPD = 0.79	
17 Dieldrin							
1	8.614	8.614	0.000	64687313	50.0	49.5	
2	10.256	10.256	0.000	66586628	50.0	48.7	
						RPD = 1.63	
18 Endrin							
1	9.061	9.061	0.000	56346911	50.0	48.9	
2	10.768	10.768	0.000	58027543	50.0	48.1	
						RPD = 1.66	
20 4,4'-DDD							
1	9.415	9.415	0.000	43621651	50.0	50.1	
2	11.084	11.083	0.001	48125406	50.0	49.2	
						RPD = 1.89	
21 Endosulfan II							
1	9.506	9.507	-0.001	55470808	50.0	47.9	
2	11.135	11.134	0.001	56194228	50.0	48.1	
						RPD = 0.22	
23 4,4'-DDT							
1	9.926	9.924	0.002	47063249	50.0	49.3	
2	11.565	11.565	0.000	47803384	50.0	47.9	
						RPD = 2.82	
25 Endrin aldehyde							
1	10.295	10.296	-0.001	42997118	50.0	48.3	
2	11.690	11.690	0.000	44519851	50.0	47.7	
						RPD = 1.24	
27 Methoxychlor							
1	10.869	10.868	0.001	21881225	50.0	47.8	
2	12.628	12.628	0.000	22888462	50.0	46.8	
						RPD = 2.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	48166927	50.0	48.4	
2	12.110	12.110	0.000	50695672	50.0	47.9	
						RPD = 1.01	
29 Endrin ketone							
1	11.415	11.414	0.001	59593571	50.0	48.8	
2	12.856	12.856	0.000	59168122	50.0	48.2	
						RPD = 1.20	
$ 30 DCB Decachlorobiphenyl							
1	13.012	13.011	0.001	44087885	50.0	47.1	
2	14.570	14.570	0.000	48028681	50.0	47.2	
						RPD = 0.21	

Reagents:

SGPestAB4_00009 Amount Added: 1.00 Units: mL

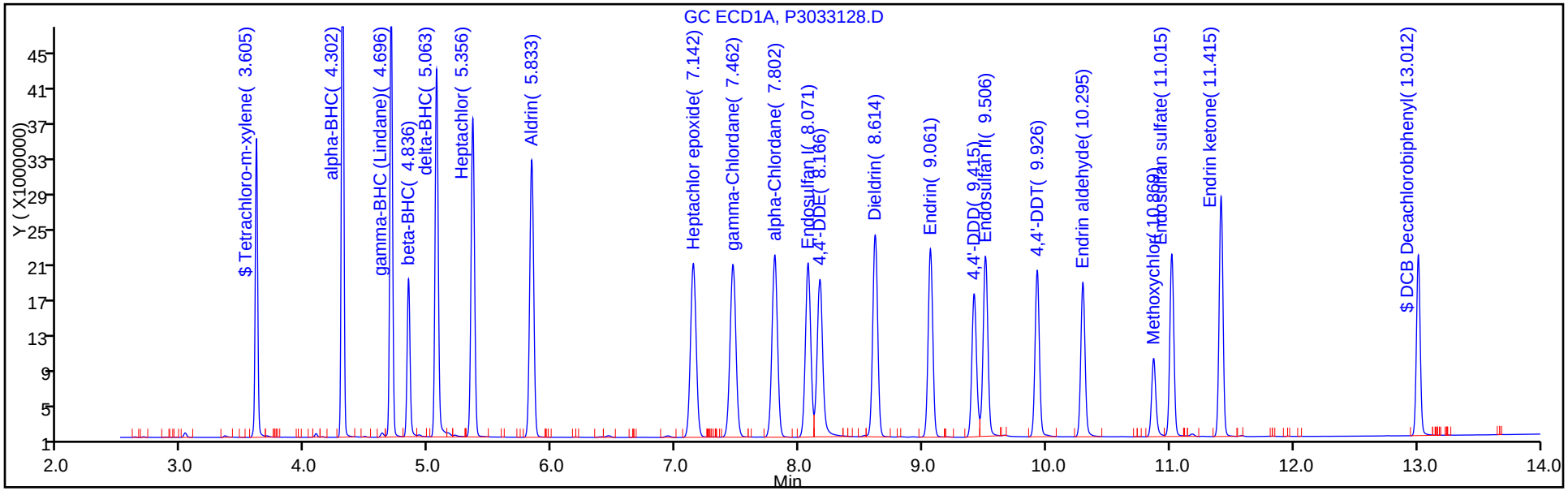
Report Date: 01-Apr-2015 08:58:13 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

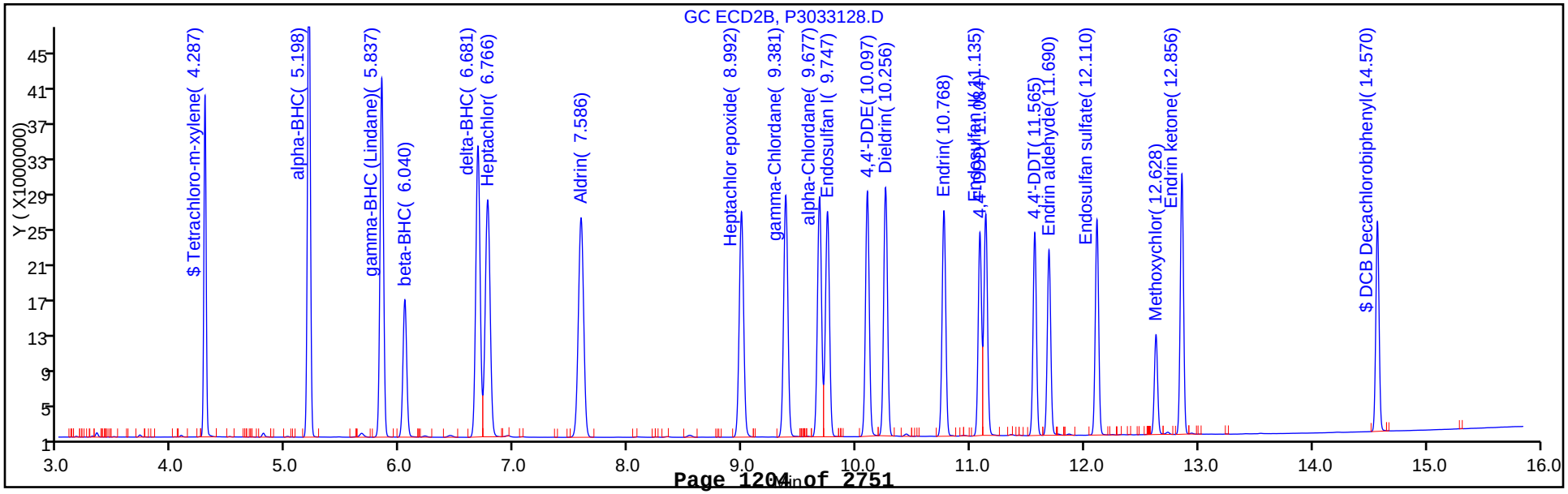
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D

Injection Date:	31-Mar-2015 21:44:03	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D
Lims ID: STD AB5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 22:07:14 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-029
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:14 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	100979372	100.0	102.7	
2	4.287	4.287	0.000	113034706	100.0	100.3	
						RPD = 2.34	
4 alpha-BHC							
1	4.301	4.301	0.000	186273224	100.0	107.6	
2	5.199	5.199	0.000	208465883	100.0	106.5	
						RPD = 0.99	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	165062455	100.0	106.9	
2	5.837	5.837	0.000	186977616	100.0	105.7	
						RPD = 1.18	
6 beta-BHC							
1	4.835	4.835	0.000	64356210	100.0	102.2	
2	6.040	6.040	0.000	76204305	100.0	99.2	
						RPD = 2.98	
7 delta-BHC							
1	5.062	5.062	0.000	166925543	100.0	111.1	
2	6.680	6.681	-0.001	191902373	100.0	108.2	
						RPD = 2.65	
9 Heptachlor							
1	5.356	5.356	0.000	153930697	100.0	105.5	
2	6.767	6.765	0.002	176072167	100.0	104.2	
						RPD = 1.27	
10 Aldrin							
1	5.832	5.833	-0.001	153527177	100.0	105.0	
2	7.584	7.585	-0.001	174114951	100.0	104.1	
						RPD = 0.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	135595093	100.0	104.0	
2	8.992	8.992	0.000	146595251	100.0	102.1	
						RPD = 1.81	
13 gamma-Chlordane							
1	7.461	7.462	-0.001	143604158	100.0	106.3	
2	9.382	9.381	0.001	152807674	100.0	103.9	
						RPD = 2.34	
14 alpha-Chlordane							
1	7.801	7.799	0.002	140414073	100.0	105.0	
2	9.677	9.676	0.001	146119135	100.0	102.9	
						RPD = 2.02	
15 Endosulfan I							
1	8.071	8.068	0.003	127882954	100.0	104.2	
2	9.747	9.746	0.001	134897952	100.0	102.1	
						RPD = 2.04	
16 4,4'-DDE							
1	8.164	8.166	-0.002	130568170	100.0	110.2	
2	10.097	10.096	0.001	140151362	100.0	106.1	
						RPD = 3.76	
17 Dieldrin							
1	8.613	8.614	-0.001	139644483	100.0	106.8	
2	10.257	10.256	0.001	143152571	100.0	104.6	
						RPD = 2.04	
18 Endrin							
1	9.061	9.061	0.000	122810215	100.0	106.7	
2	10.767	10.768	-0.001	126436870	100.0	104.9	
						RPD = 1.69	
20 4,4'-DDD							
1	9.412	9.415	-0.003	99534574	100.0	114.4	
2	11.083	11.083	0.000	106287930	100.0	108.6	
						RPD = 5.15	
21 Endosulfan II							
1	9.507	9.507	0.000	118613675	100.0	102.5	
2	11.134	11.134	0.000	119019734	100.0	101.8	
						RPD = 0.74	
23 4,4'-DDT							
1	9.925	9.924	0.001	107496871	100.0	112.5	
2	11.565	11.565	0.000	106648312	100.0	106.9	
						RPD = 5.17	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	90722188	100.0	101.8	
2	11.690	11.690	0.000	93913976	100.0	100.6	
						RPD = 1.26	
27 Methoxychlor							
1	10.867	10.868	-0.001	46472336	100.0	101.4	
2	12.627	12.628	-0.001	48177105	100.0	98.5	
						RPD = 2.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	102341419	100.0	102.7	
2	12.110	12.110	0.000	107630350	100.0	101.6	
						RPD = 1.09	
29 Endrin ketone							
1	11.414	11.414	0.000	123621579	100.0	101.2	
2	12.856	12.856	0.000	125541054	100.0	102.2	
						RPD = 1.06	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	88266403	100.0	94.3	
2	14.570	14.570	0.000	96538779	100.0	94.8	
						RPD = 0.61	

Reagents:

SGPestAB5_00009 Amount Added: 1.00 Units: mL

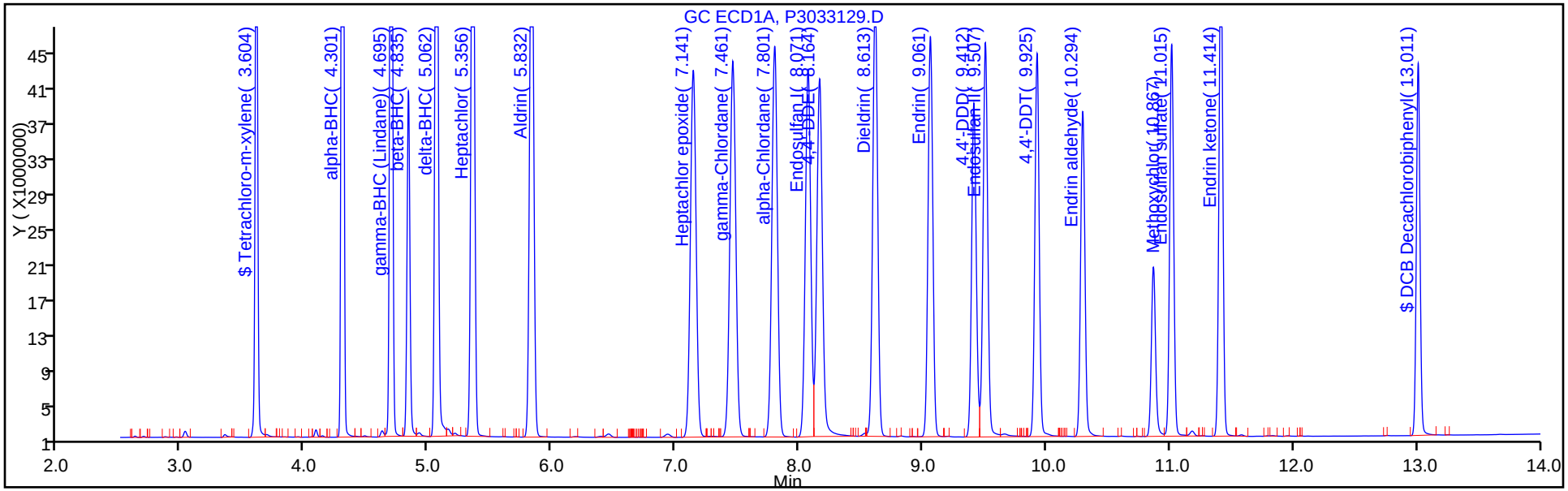
Report Date: 01-Apr-2015 08:58:16 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

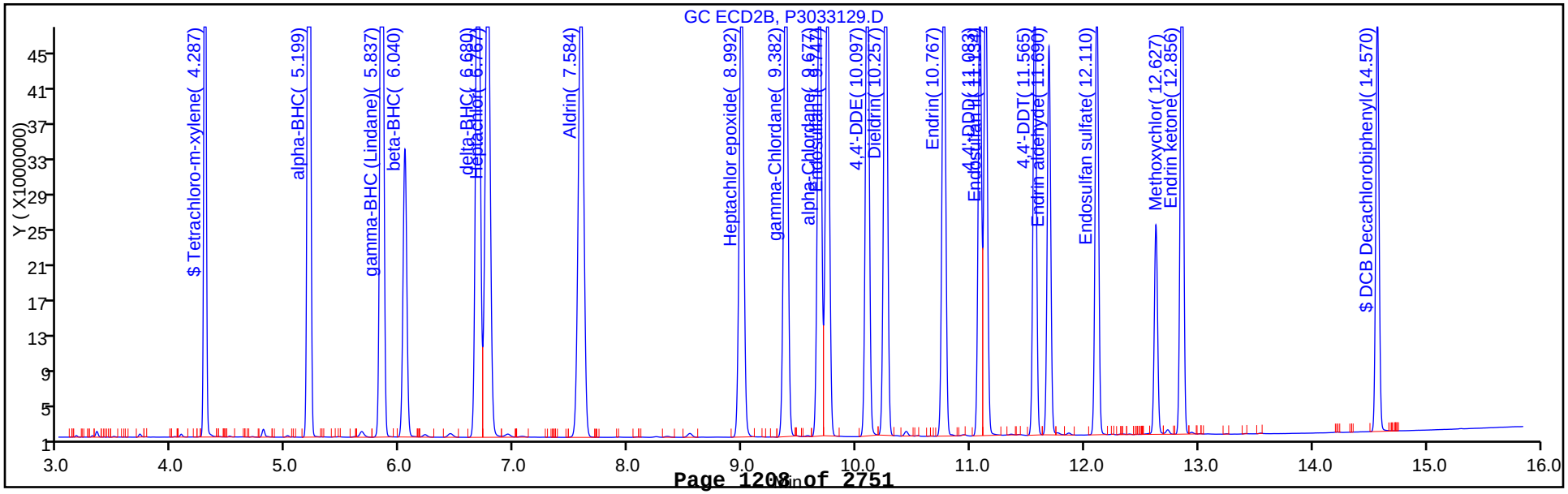
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D

Injection Date:	31-Mar-2015 22:07:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB5			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D
Lims ID: STD AB6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Mar-2015 22:29:58 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-030
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:17 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.602	3.604	-0.002	189637291	200.0	192.8	
2	4.287	4.287	0.000	211706263	200.0	187.8	
						RPD = 2.61	
4 alpha-BHC							
1	4.300	4.301	-0.001	354825181	200.0	204.9	
2	5.198	5.199	-0.001	394533340	200.0	201.5	
						RPD = 1.64	
5 gamma-BHC (Lindane)							
1	4.693	4.695	-0.002	314410933	200.0	203.7	
2	5.837	5.837	0.000	353874715	200.0	200.0	
						RPD = 1.83	
6 beta-BHC							
1	4.832	4.835	-0.003	122309456	200.0	194.2	
2	6.038	6.040	-0.002	143550510	200.0	186.8	
						RPD = 3.87	
7 delta-BHC							
1	5.059	5.062	-0.003	319192463	200.0	212.4	
2	6.680	6.681	-0.001	363835550	200.0	205.1	
						RPD = 3.51	
9 Heptachlor							
1	5.353	5.356	-0.003	288091249	200.0	197.4	
2	6.767	6.765	0.002	328861796	200.0	194.5	
						RPD = 1.48	
10 Aldrin							
1	5.830	5.833	-0.003	291883438	200.0	199.7	
2	7.585	7.585	0.000	330701385	200.0	197.8	
						RPD = 0.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.138	7.141	-0.003	251715160	200.0	193.1	
2	8.992	8.992	0.000	273352880	200.0	190.4	
						RPD = 1.37	
13 gamma-Chlordane							
1	7.458	7.462	-0.004	274668690	200.0	203.4	
2	9.381	9.381	0.000	290505462	200.0	197.5	
						RPD = 2.94	
14 alpha-Chlordane							
1	7.798	7.799	-0.001	266757855	200.0	199.4	
2	9.677	9.676	0.001	277491300	200.0	195.4	
						RPD = 2.06	
15 Endosulfan I							
1	8.067	8.068	-0.001	237414688	200.0	193.4	
2	9.747	9.746	0.001	251200604	200.0	190.1	
						RPD = 1.74	
16 4,4'-DDE							
1	8.160	8.166	-0.006	253675814	200.0	214.1	
2	10.097	10.096	0.001	268025917	200.0	203.0	
						RPD = 5.34	
17 Dieldrin							
1	8.612	8.614	-0.002	261274932	200.0	199.8	
2	10.257	10.256	0.001	271265368	200.0	198.3	
						RPD = 0.77	
18 Endrin							
1	9.060	9.061	-0.001	229462332	200.0	199.3	
2	10.767	10.768	-0.001	238375035	200.0	197.7	
						RPD = 0.79	
20 4,4'-DDD							
1	9.411	9.415	-0.004	195226651	200.0	224.3	
2	11.082	11.083	-0.001	204139326	200.0	208.6	
						RPD = 7.25	
21 Endosulfan II							
1	9.505	9.507	-0.002	217587968	200.0	188.1	
2	11.134	11.134	0.000	224229146	200.0	191.7	
						RPD = 1.93	
23 4,4'-DDT							
1	9.922	9.924	-0.002	211650515	200.0	221.6	
2	11.565	11.565	0.000	209429423	200.0	209.9	
						RPD = 5.44	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	165370411	200.0	185.6	
2	11.689	11.690	-0.001	173564845	200.0	185.9	
						RPD = 0.12	
27 Methoxychlor							
1	10.867	10.868	-0.001	89522192	200.0	195.4	
2	12.627	12.628	-0.001	95972640	200.0	196.2	
						RPD = 0.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.013	11.015	-0.002	189528753	200.0	190.3	
2	12.110	12.110	0.000	203625762	200.0	192.3	
						RPD = 1.05	
29 Endrin ketone							
1	11.412	11.414	-0.002	228035065	200.0	186.6	
2	12.856	12.856	0.000	238046316	200.0	193.9	
						RPD = 3.81	
$ 30 DCB Decachlorobiphenyl							
1	13.009	13.011	-0.002	169711774	200.0	181.2	
2	14.569	14.570	-0.001	183801612	200.0	180.6	
						RPD = 0.37	

Reagents:

SGPestAB6_00010 Amount Added: 1.00 Units: mL

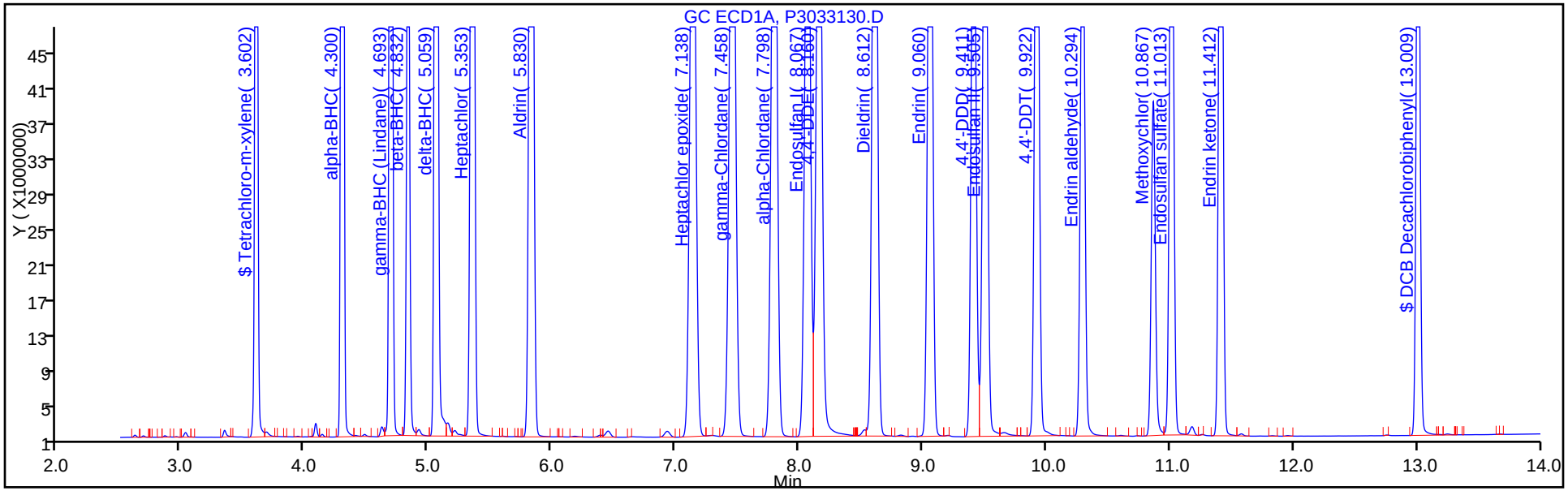
Report Date: 01-Apr-2015 08:58:18 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

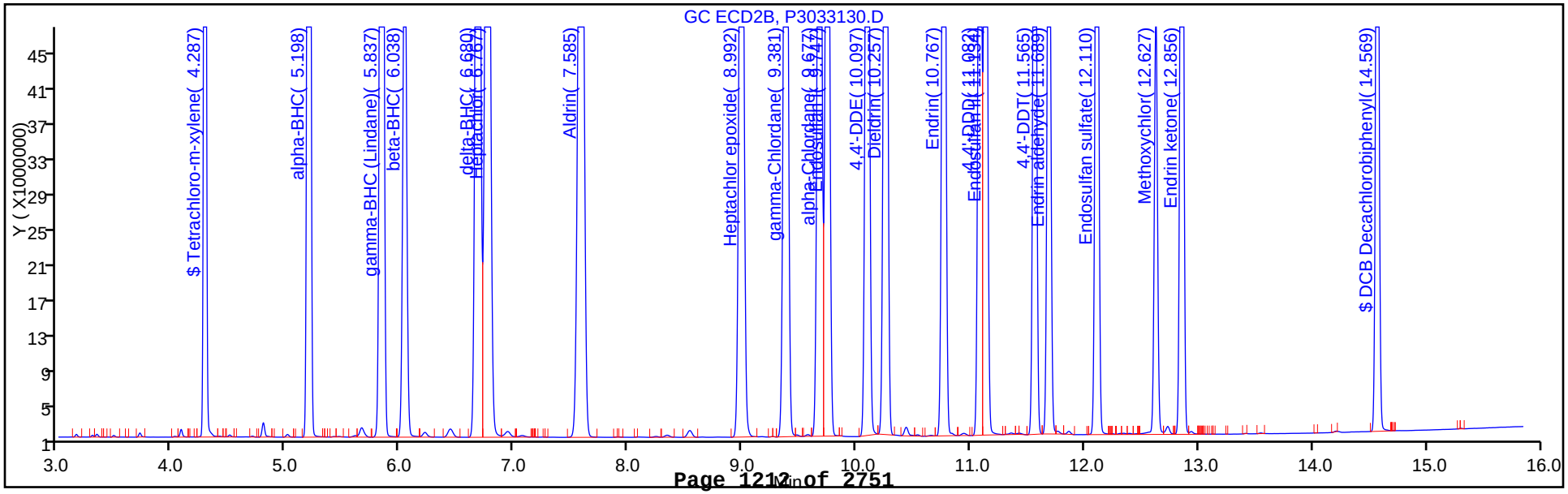
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Injection Date:	31-Mar-2015 22:29:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB6			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	5.198	5.199	5.199	5.198	5.199	5.198					5.168 - 5.228	5.199
gamma-BHC (Lindane)	5.838	5.837	5.837	5.837	5.837	5.837					5.807 - 5.867	5.837
beta-BHC	6.040	6.040	6.040	6.040	6.040	6.038					6.009 - 6.069	6.040
delta-BHC	6.681	6.680	6.681	6.681	6.680	6.680					6.651 - 6.711	6.681
Heptachlor	6.766	6.765	6.765	6.766	6.767	6.767					6.735 - 6.795	6.766
Aldrin	7.586	7.586	7.585	7.586	7.584	7.585					7.553 - 7.613	7.585
Heptachlor epoxide	8.992	8.992	8.992	8.992	8.992	8.992					8.961 - 9.021	8.992
gamma-Chlordane	9.381	9.382	9.381	9.381	9.382	9.381					9.351 - 9.411	9.381
alpha-Chlordane	9.676	9.676	9.676	9.677	9.677	9.677					9.645 - 9.705	9.677
Endosulfan I	9.746	9.746	9.746	9.747	9.747	9.747					9.716 - 9.776	9.747
4,4'-DDE	10.096	10.097	10.096	10.097	10.097	10.097					10.066 - 10.126	10.097
Dieldrin	10.257	10.257	10.256	10.256	10.257	10.257					10.226 - 10.286	10.257
Endrin	10.767	10.768	10.768	10.768	10.767	10.767					10.736 - 10.796	10.768
4,4'-DDD	11.084	11.084	11.083	11.084	11.083	11.082					11.053 - 11.113	11.083
Endosulfan II	11.136	11.135	11.134	11.135	11.134	11.134					11.104 - 11.164	11.135
4,4'-DDT	11.566	11.565	11.565	11.565	11.565	11.565					11.534 - 11.594	11.565
Endrin aldehyde	11.691	11.690	11.690	11.690	11.690	11.689					11.659 - 11.719	11.690
Endosulfan sulfate	12.111	12.111	12.110	12.110	12.110	12.110					12.080 - 12.140	12.110
Methoxychlor	12.629	12.628	12.628	12.628	12.627	12.627					12.596 - 12.656	12.628
Endrin ketone	12.856	12.855	12.856	12.856	12.856	12.856					12.825 - 12.885	12.856
Tetrachloro-m-xylene	4.287	4.286	4.287	4.287	4.287	4.287					4.257 - 4.317	4.287
DCB Decachlorobiphenyl	14.571	14.570	14.570	14.570	14.570	14.569					14.538 - 14.598	14.570

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1839084 2084659	1769962 1972667	2118025	1960851	Ave		1957541.35				6.9		20.0			
gamma-BHC (Lindane)	1708949 1869776	1613972 1769374	1903965	1751047	Ave		1769513.65				6.0		20.0			
beta-BHC	836611 762043	752571 717753	813283	727944	Ave		768367.400				6.1		20.0			
delta-BHC	1652143 1919024	1579206 1819178	1907636	1767760	Ave		1774157.68				7.7		20.0			
Heptachlor	1700555 1760722	1574058 1644309	1838362	1625156	Ave		1690526.98				5.7		20.0			
Aldrin	1674485 1741150	1550399 1653507	1786331	1627303	Ave		1672195.67				5.0		20.0			
Heptachlor epoxide	1483052 1465953	1368987 1366764	1538294	1389504	Ave		1435425.64				4.9		20.0			
gamma-Chlordane	1498987 1528077	1363700 1452527	1556263	1427358	Ave		1471152.06				4.8		20.0			
alpha-Chlordane	1450459 1461191	1332467 1387457	1515974	1374667	Ave		1420369.33				4.7		20.0			
Endosulfan I	1363258 1348980	1260988 1256003	1422722	1277632	Ave		1321597.12				5.1		20.0			
4,4'-DDE	1271067 1401514	1211099 1340130	1410734	1287988	Ave		1320421.76				5.9		20.0			
Dieldrin	1357789 1431526	1273184 1356327	1457976	1331733	Ave		1368089.03				4.9		20.0			
Endrin	1202896 1264369	1114771 1191875	1299004	1160551	Ave		1205577.44				5.6		20.0			
4,4'-DDD	920821 1062879	864879 1020697	1040078	962508	Ave		978643.582				7.8		20.0			
Endosulfan II	1213316 1190197	1111473 1121146	1256533	1123885	Ave		1169424.91				5.1		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	955322 1066483	895918 1047147	1067036	956068	Ave		997995.559				7.2		20.0			
Endrin aldehyde	989198 939140	927007 867824	989609	890397	Ave		933862.428				5.4		20.0			
Endosulfan sulfate	1088559 1076304	1024586 1018129	1133296	1013913	Ave		1059131.09				4.5		20.0			
Methoxychlor	512425 481771	482874 479863	520473	457769	Ave		489195.968				4.7		20.0			
Endrin ketone	1244774 1255411	1180145 1190232	1313335	1183362	Ave		1227876.39				4.3		20.0			
Tetrachloro-m-xylene	1195279 1130347	1085174 1058531	1206688	1086113	Ave		1127022.18				5.5		20.0			
DCB Decachlorobiphenyl	1124812 965388	1051453 919008	1086689	960574	Ave		1017987.24				8.0		20.0			

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-174448/25	P3033125.D
Level 2	STD 240-174448/26	P3033126.D
Level 3	STD 240-174448/27	P3033127.D
Level 4	STD 240-174448/28	P3033128.D
Level 5	STD 240-174448/29	P3033129.D
Level 6	STD 240-174448/30	P3033130.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	9195421 394533340	17699620	52950629	98042560	208465883	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Ave	8544743 353874715	16139715	47599126	87552352	186977616	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	4183054 143550510	7525710	20332064	36397222	76204305	5.00 200	10.0	25.0	50.0	100
delta-BHC	Ave	8260715 363835550	15792059	47690894	88387997	191902373	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	8502776 328861796	15740575	45959059	81257807	176072167	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	8372425 330701385	15503993	44658266	81365132	174114951	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	7415262 273352880	13689871	38457347	69475178	146595251	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	7494937 290505462	13636997	38906572	71367916	152807674	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	7252296 277491300	13324673	37899355	68733372	146119135	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	6816292 251200604	12609879	35568057	63881581	134897952	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Ave	6355333 268025917	12110985	35268356	64399402	140151362	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	6788945 271265368	12731838	36449407	66586628	143152571	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	6014479 238375035	11147706	32475088	58027543	126436870	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Ave	4604106 204139326	8648786	26001941	48125406	106287930	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	6066579 224229146	11114726	31413336	56194228	119019734	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Ave	4776608 209429423	8959182	26675891	47803384	106648312	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 174448

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2015 20:34 Calibration End Date: 03/31/2015 22:29 Calibration ID: 27643

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	4945988 173564845	9270072	24740219	44519851	93913976	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	5442796 203625762	10245858	28332394	50695672	107630350	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	2562127 95972640	4828736	13011833	22888462	48177105	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	6223871 238046316	11801446	32833375	59168122	125541054	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	5976395 211706263	10851740	30167206	54305672	113034706	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	5624059 183801612	10514527	27167237	48028681	96538779	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:
Ave = Average

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D
Lims ID: STD AB1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Mar-2015 20:34:34 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-025
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:02 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.602	0.003	4995293	5.00	5.08	
2	4.287	4.287	0.000	5976395	5.00	5.30	
						RPD = 4.31	
4 alpha-BHC							
1	4.301	4.300	0.001	7993281	5.00	4.62	
2	5.198	5.198	0.000	9195421	5.00	4.70	
						RPD = 1.76	
5 gamma-BHC (Lindane)							
1	4.695	4.693	0.002	7220829	5.00	4.68	
2	5.838	5.837	0.001	8544743	5.00	4.83	
						RPD = 3.18	
6 beta-BHC							
1	4.836	4.834	0.002	3244596	5.00	5.15	
2	6.040	6.039	0.001	4183054	5.00	5.44	
						RPD = 5.52	
7 delta-BHC							
1	5.063	5.060	0.003	6674668	5.00	4.44	
2	6.681	6.681	0.000	8260715	5.00	4.66	
						RPD = 4.72	
9 Heptachlor							
1	5.356	5.354	0.002	7096274	5.00	4.86	
2	6.766	6.765	0.001	8502776	5.00	5.03	
						RPD = 3.37	
10 Aldrin							
1	5.833	5.831	0.002	7112948	5.00	4.87	
2	7.586	7.583	0.003	8372425	5.00	5.01	
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.137	0.004	6618040	5.00	5.08	
2	8.992	8.991	0.001	7415262	5.00	5.17	
						RPD = 1.76	
13 gamma-Chlordane							
1	7.461	7.459	0.002	6596391	5.00	4.88	
2	9.381	9.381	0.000	7494937	5.00	5.09	
						RPD = 4.22	
14 alpha-Chlordane							
1	7.801	7.798	0.003	6662099	5.00	4.98	
2	9.676	9.675	0.001	7252296	5.00	5.11	
						RPD = 2.48	
15 Endosulfan I							
1	8.070	8.069	0.001	6162836	5.00	5.02	
2	9.746	9.746	0.000	6816292	5.00	5.16	
						RPD = 2.69	
16 4,4'-DDE							
1	8.167	8.162	0.005	5340605	5.00	4.51	
2	10.096	10.096	0.000	6355333	5.00	4.81	
						RPD = 6.55	
17 Dieldrin							
1	8.614	8.612	0.002	6192051	5.00	4.74	
2	10.257	10.256	0.001	6788945	5.00	4.96	
						RPD = 4.68	
18 Endrin							
1	9.062	9.061	0.001	5504203	5.00	4.78	
2	10.767	10.766	0.001	6014479	5.00	4.99	
						RPD = 4.27	
20 4,4'-DDD							
1	9.421	9.413	0.008	3660954	5.00	4.21	
2	11.084	11.083	0.001	4604106	5.00	4.70	
						RPD = 11.19	
21 Endosulfan II							
1	9.507	9.505	0.002	5894190	5.00	5.09	
2	11.136	11.134	0.002	6066579	5.00	5.19	
						RPD = 1.81	
23 4,4'-DDT							
1	9.927	9.924	0.003	4190259	5.00	4.39	
2	11.566	11.564	0.002	4776608	5.00	4.79	
						RPD = 8.71	
25 Endrin aldehyde							
1	10.296	10.292	0.004	4594432	5.00	5.16	
2	11.691	11.689	0.002	4945988	5.00	5.30	
						RPD = 2.66	
27 Methoxychlor							
1	10.872	10.866	0.006	2347056	5.00	5.12	
2	12.629	12.626	0.003	2562127	5.00	5.24	
						RPD = 2.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.016	11.014	0.002	5085300	5.00	5.10	
2	12.111	12.110	0.001	5442796	5.00	5.14	
						RPD = 0.67	
29 Endrin ketone							
1	11.415	11.412	0.003	6229218	5.00	5.10	
2	12.856	12.855	0.001	6223871	5.00	5.07	
						RPD = 0.57	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.009	0.002	5262952	5.00	5.62	
2	14.571	14.568	0.003	5624059	5.00	5.52	
						RPD = 1.71	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

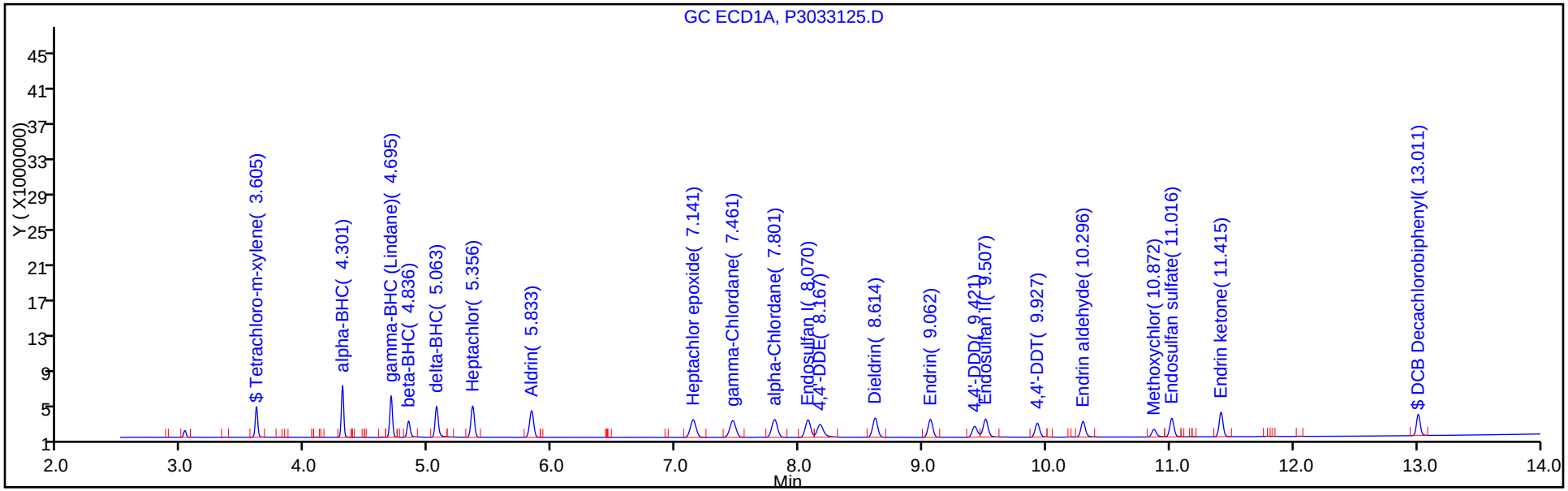
Report Date: 01-Apr-2015 08:58:04 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

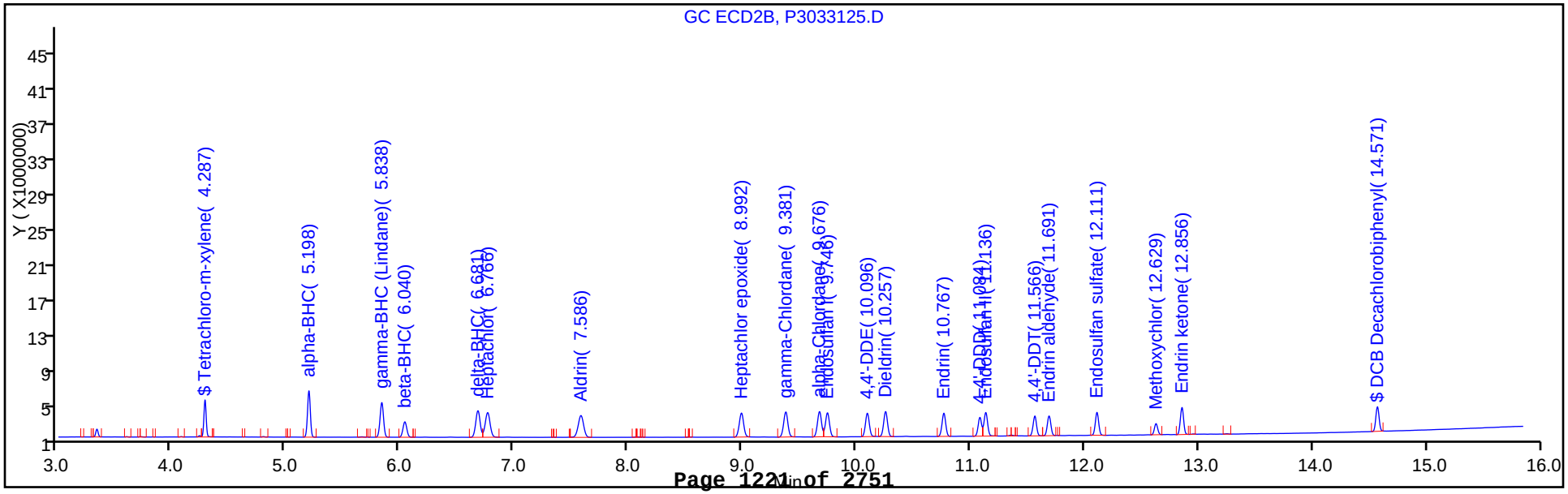
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033125.D

Injection Date:	31-Mar-2015 20:34:34	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D
Lims ID: STD AB2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Mar-2015 20:57:32 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-026
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:06 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	9242851	10.0	9.40	
2	4.286	4.287	-0.001	10851740	10.0	9.63	
						RPD = 2.43	
4 alpha-BHC							
1	4.300	4.300	0.000	15427617	10.0	8.91	
2	5.199	5.198	0.001	17699620	10.0	9.04	
						RPD = 1.49	
5 gamma-BHC (Lindane)							
1	4.694	4.693	0.001	13921250	10.0	9.02	
2	5.837	5.837	0.000	16139715	10.0	9.12	
						RPD = 1.14	
6 beta-BHC							
1	4.835	4.834	0.001	6034059	10.0	9.58	
2	6.040	6.039	0.001	7525710	10.0	9.79	
						RPD = 2.21	
7 delta-BHC							
1	5.062	5.060	0.002	12658880	10.0	8.42	
2	6.680	6.681	-0.001	15792059	10.0	8.90	
						RPD = 5.52	
9 Heptachlor							
1	5.354	5.354	0.000	13288516	10.0	9.11	
2	6.765	6.765	0.000	15740575	10.0	9.31	
						RPD = 2.22	
10 Aldrin							
1	5.831	5.831	0.000	13417843	10.0	9.18	
2	7.586	7.583	0.003	15503993	10.0	9.27	
						RPD = 1.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.140	7.137	0.003	12187185	10.0	9.35	
2	8.992	8.991	0.001	13689871	10.0	9.54	
						RPD = 2.01	
13 gamma-Chlordane							
1	7.460	7.459	0.001	12348664	10.0	9.14	
2	9.382	9.381	0.001	13636997	10.0	9.27	
						RPD = 1.38	
14 alpha-Chlordane							
1	7.798	7.798	0.000	12407456	10.0	9.28	
2	9.676	9.675	0.001	13324673	10.0	9.38	
						RPD = 1.13	
15 Endosulfan I							
1	8.070	8.069	0.001	11542395	10.0	9.40	
2	9.746	9.746	0.000	12609879	10.0	9.54	
						RPD = 1.46	
16 4,4'-DDE							
1	8.166	8.162	0.004	10590255	10.0	8.94	
2	10.097	10.096	0.001	12110985	10.0	9.17	
						RPD = 2.57	
17 Dieldrin							
1	8.615	8.612	0.003	12034701	10.0	9.20	
2	10.257	10.256	0.001	12731838	10.0	9.31	
						RPD = 1.11	
18 Endrin							
1	9.061	9.061	0.000	10542835	10.0	9.16	
2	10.768	10.766	0.002	11147706	10.0	9.25	
						RPD = 0.98	
20 4,4'-DDD							
1	9.416	9.413	0.003	7262139	10.0	8.34	
2	11.084	11.083	0.001	8648786	10.0	8.84	
						RPD = 5.75	
21 Endosulfan II							
1	9.508	9.505	0.003	11094415	10.0	9.59	
2	11.135	11.134	0.001	11114726	10.0	9.50	
						RPD = 0.89	
23 4,4'-DDT							
1	9.925	9.924	0.001	7882323	10.0	8.25	
2	11.565	11.564	0.001	8959182	10.0	8.98	
						RPD = 8.42	
25 Endrin aldehyde							
1	10.296	10.292	0.004	8693339	10.0	9.76	
2	11.690	11.689	0.001	9270072	10.0	9.93	
						RPD = 1.71	
27 Methoxychlor							
1	10.869	10.866	0.003	4388568	10.0	9.58	
2	12.628	12.626	0.002	4828736	10.0	9.87	
						RPD = 3.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.014	0.001	9609001	10.0	9.65	
2	12.111	12.110	0.001	10245858	10.0	9.67	
						RPD = 0.29	
29 Endrin ketone							
1	11.414	11.412	0.002	11896793	10.0	9.74	
2	12.855	12.855	0.000	11801446	10.0	9.61	
						RPD = 1.29	
$ 30 DCB Decachlorobiphenyl							
1	13.010	13.009	0.001	9611764	10.0	10.3	
2	14.570	14.568	0.002	10514527	10.0	10.3	
						RPD = 0.63	

Reagents:

SGPestAB2_00009 Amount Added: 1.00 Units: mL

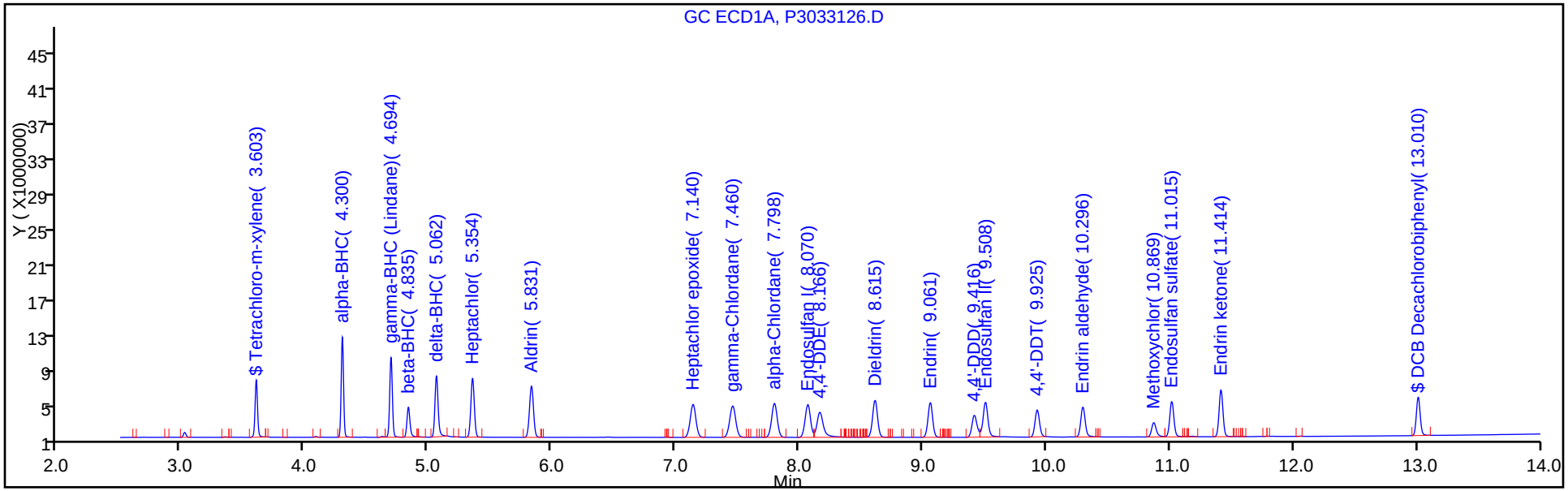
Report Date: 01-Apr-2015 08:58:07 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

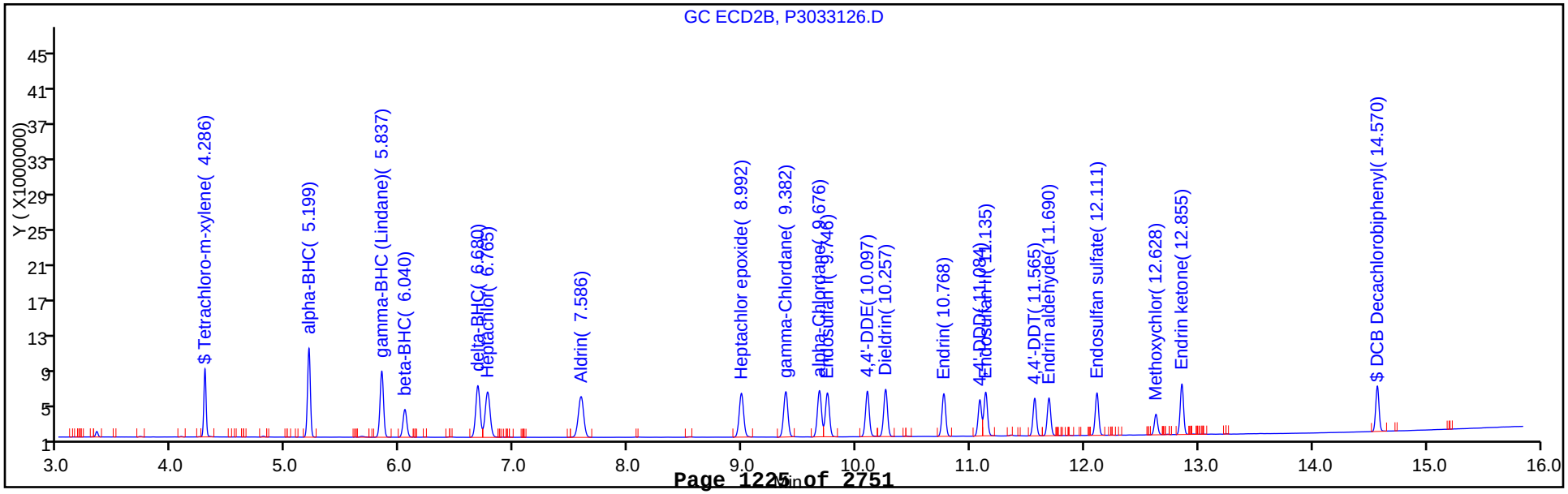
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033126.D

Injection Date:	31-Mar-2015 20:57:32	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB2			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D
Lims ID: STD AB3
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 31-Mar-2015 21:20:40 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:08 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	26443978	25.0	26.9	
2	4.287	4.287	0.000	30167206	25.0	26.8	
						RPD = 0.45	
4 alpha-BHC							
1	4.301	4.301	0.000	46769971	25.0	27.0	
2	5.199	5.199	0.000	52950629	25.0	27.0	
						RPD = 0.16	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	41574049	25.0	26.9	
2	5.837	5.837	0.000	47599126	25.0	26.9	
						RPD = 0.12	
6 beta-BHC							
1	4.835	4.835	0.000	16707890	25.0	26.5	
2	6.040	6.040	0.000	20332064	25.0	26.5	
						RPD = 0.25	
7 delta-BHC							
1	5.062	5.062	0.000	40613949	25.0	27.0	
2	6.681	6.681	0.000	47690894	25.0	26.9	
						RPD = 0.53	
9 Heptachlor							
1	5.356	5.356	0.000	39866687	25.0	27.3	
2	6.765	6.765	0.000	45959059	25.0	27.2	
						RPD = 0.49	
10 Aldrin							
1	5.833	5.833	0.000	39246951	25.0	26.8	
2	7.585	7.585	0.000	44658266	25.0	26.7	
						RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	34880799	25.0	26.8	
2	8.992	8.992	0.000	38457347	25.0	26.8	
						RPD = 0.15	
13 gamma-Chlordane							
1	7.462	7.462	0.000	35610001	25.0	26.4	
2	9.381	9.381	0.000	38906572	25.0	26.4	
						RPD = 0.31	
14 alpha-Chlordane							
1	7.799	7.799	0.000	35400064	25.0	26.5	
2	9.676	9.676	0.000	37899355	25.0	26.7	
						RPD = 0.82	
15 Endosulfan I							
1	8.068	8.068	0.000	32910197	25.0	26.8	
2	9.746	9.746	0.000	35568057	25.0	26.9	
						RPD = 0.38	
16 4,4'-DDE							
1	8.166	8.166	0.000	31051315	25.0	26.2	
2	10.096	10.096	0.000	35268356	25.0	26.7	
						RPD = 1.89	
17 Dieldrin							
1	8.614	8.614	0.000	35178081	25.0	26.9	
2	10.256	10.256	0.000	36449407	25.0	26.6	
						RPD = 0.97	
18 Endrin							
1	9.061	9.061	0.000	31270972	25.0	27.2	
2	10.768	10.768	0.000	32475088	25.0	26.9	
						RPD = 0.82	
20 4,4'-DDD							
1	9.415	9.415	0.000	23004544	25.0	26.4	
2	11.083	11.083	0.000	26001941	25.0	26.6	
						RPD = 0.53	
21 Endosulfan II							
1	9.507	9.507	0.000	31740081	25.0	27.4	
2	11.134	11.134	0.000	31413336	25.0	26.9	
						RPD = 2.11	
23 4,4'-DDT							
1	9.924	9.924	0.000	25760449	25.0	27.0	
2	11.565	11.565	0.000	26675891	25.0	26.7	
						RPD = 0.89	
25 Endrin aldehyde							
1	10.296	10.296	0.000	24069870	25.0	27.0	
2	11.690	11.690	0.000	24740219	25.0	26.5	
						RPD = 1.97	
27 Methoxychlor							
1	10.868	10.868	0.000	12278595	25.0	26.8	
2	12.628	12.628	0.000	13011833	25.0	26.6	
						RPD = 0.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	26620156	25.0	26.7	
2	12.110	12.110	0.000	28332394	25.0	26.8	
						RPD = 0.11	
29 Endrin ketone							
1	11.414	11.414	0.000	33202430	25.0	27.2	
2	12.856	12.856	0.000	32833375	25.0	26.7	
						RPD = 1.60	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	24799770	25.0	26.5	
2	14.570	14.570	0.000	27167237	25.0	26.7	
						RPD = 0.77	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

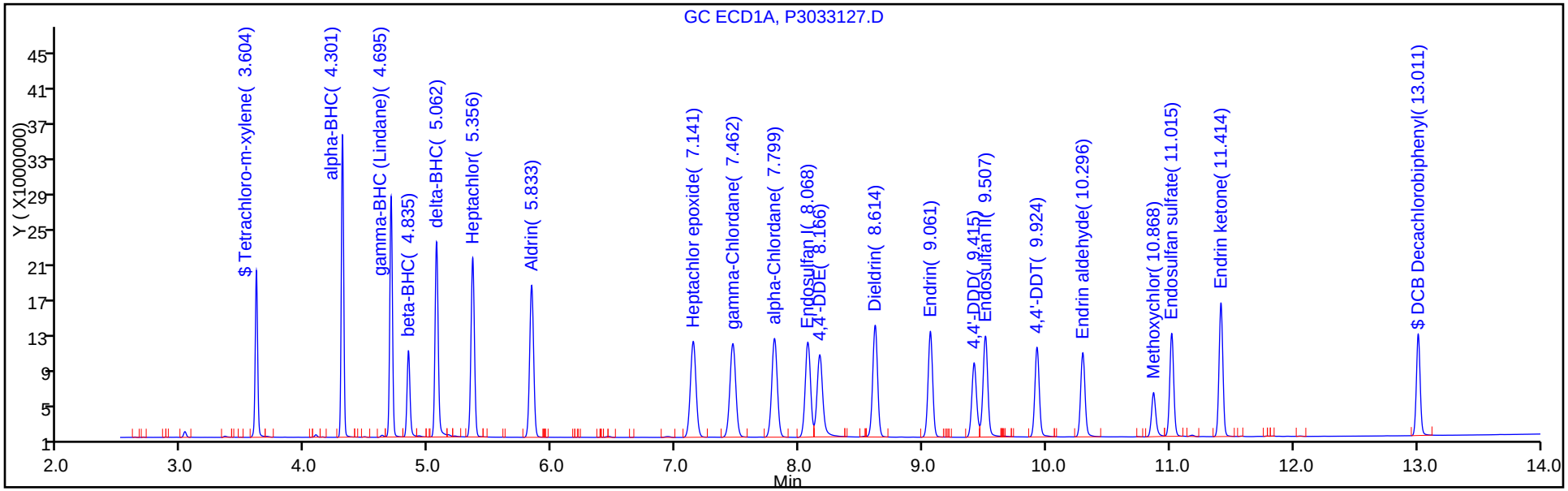
Report Date: 01-Apr-2015 08:58:10 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

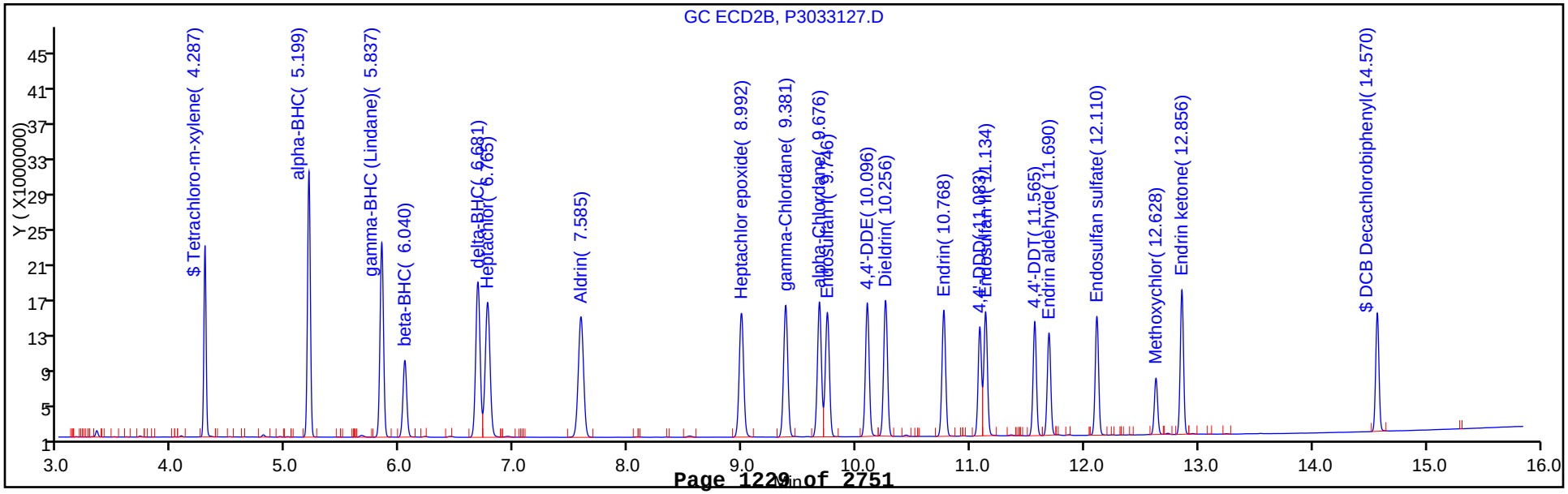
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033127.D

Injection Date:	31-Mar-2015 21:20:40	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D
Lims ID: STD AB4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Mar-2015 21:44:03 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-028
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:11 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:49:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.605	3.604	0.001	48104246	50.0	48.9	
2	4.287	4.287	0.000	54305672	50.0	48.2	
						RPD = 1.49	
4 alpha-BHC							
1	4.302	4.301	0.001	87097467	50.0	50.3	
2	5.198	5.199	-0.001	98042560	50.0	50.1	
						RPD = 0.41	
5 gamma-BHC (Lindane)							
1	4.696	4.695	0.001	77025264	50.0	49.9	
2	5.837	5.837	0.000	87552352	50.0	49.5	
						RPD = 0.84	
6 beta-BHC							
1	4.836	4.835	0.001	30165006	50.0	47.9	
2	6.040	6.040	0.000	36397222	50.0	47.4	
						RPD = 1.10	
7 delta-BHC							
1	5.063	5.062	0.001	76319253	50.0	50.8	
2	6.681	6.681	0.000	88387997	50.0	49.8	
						RPD = 1.92	
9 Heptachlor							
1	5.356	5.356	0.000	71639995	50.0	49.1	
2	6.766	6.765	0.001	81257807	50.0	48.1	
						RPD = 2.12	
10 Aldrin							
1	5.833	5.833	0.000	72119434	50.0	49.3	
2	7.586	7.585	0.001	81365132	50.0	48.7	
						RPD = 1.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.142	7.141	0.001	63557048	50.0	48.7	
2	8.992	8.992	0.000	69475178	50.0	48.4	
						RPD = 0.71	
13 gamma-Chlordane							
1	7.462	7.462	0.000	65792126	50.0	48.7	
2	9.381	9.381	0.000	71367916	50.0	48.5	
						RPD = 0.41	
14 alpha-Chlordane							
1	7.802	7.799	0.003	64927892	50.0	48.5	
2	9.677	9.676	0.001	68733372	50.0	48.4	
						RPD = 0.31	
15 Endosulfan I							
1	8.071	8.068	0.003	59799863	50.0	48.7	
2	9.747	9.746	0.001	63881581	50.0	48.3	
						RPD = 0.78	
16 4,4'-DDE							
1	8.166	8.166	0.000	58240006	50.0	49.2	
2	10.097	10.096	0.001	64399402	50.0	48.8	
						RPD = 0.79	
17 Dieldrin							
1	8.614	8.614	0.000	64687313	50.0	49.5	
2	10.256	10.256	0.000	66586628	50.0	48.7	
						RPD = 1.63	
18 Endrin							
1	9.061	9.061	0.000	56346911	50.0	48.9	
2	10.768	10.768	0.000	58027543	50.0	48.1	
						RPD = 1.66	
20 4,4'-DDD							
1	9.415	9.415	0.000	43621651	50.0	50.1	
2	11.084	11.083	0.001	48125406	50.0	49.2	
						RPD = 1.89	
21 Endosulfan II							
1	9.506	9.507	-0.001	55470808	50.0	47.9	
2	11.135	11.134	0.001	56194228	50.0	48.1	
						RPD = 0.22	
23 4,4'-DDT							
1	9.926	9.924	0.002	47063249	50.0	49.3	
2	11.565	11.565	0.000	47803384	50.0	47.9	
						RPD = 2.82	
25 Endrin aldehyde							
1	10.295	10.296	-0.001	42997118	50.0	48.3	
2	11.690	11.690	0.000	44519851	50.0	47.7	
						RPD = 1.24	
27 Methoxychlor							
1	10.869	10.868	0.001	21881225	50.0	47.8	
2	12.628	12.628	0.000	22888462	50.0	46.8	
						RPD = 2.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	48166927	50.0	48.4	
2	12.110	12.110	0.000	50695672	50.0	47.9	
						RPD = 1.01	
29 Endrin ketone							
1	11.415	11.414	0.001	59593571	50.0	48.8	
2	12.856	12.856	0.000	59168122	50.0	48.2	
						RPD = 1.20	
$ 30 DCB Decachlorobiphenyl							
1	13.012	13.011	0.001	44087885	50.0	47.1	
2	14.570	14.570	0.000	48028681	50.0	47.2	
						RPD = 0.21	

Reagents:

SGPestAB4_00009 Amount Added: 1.00 Units: mL

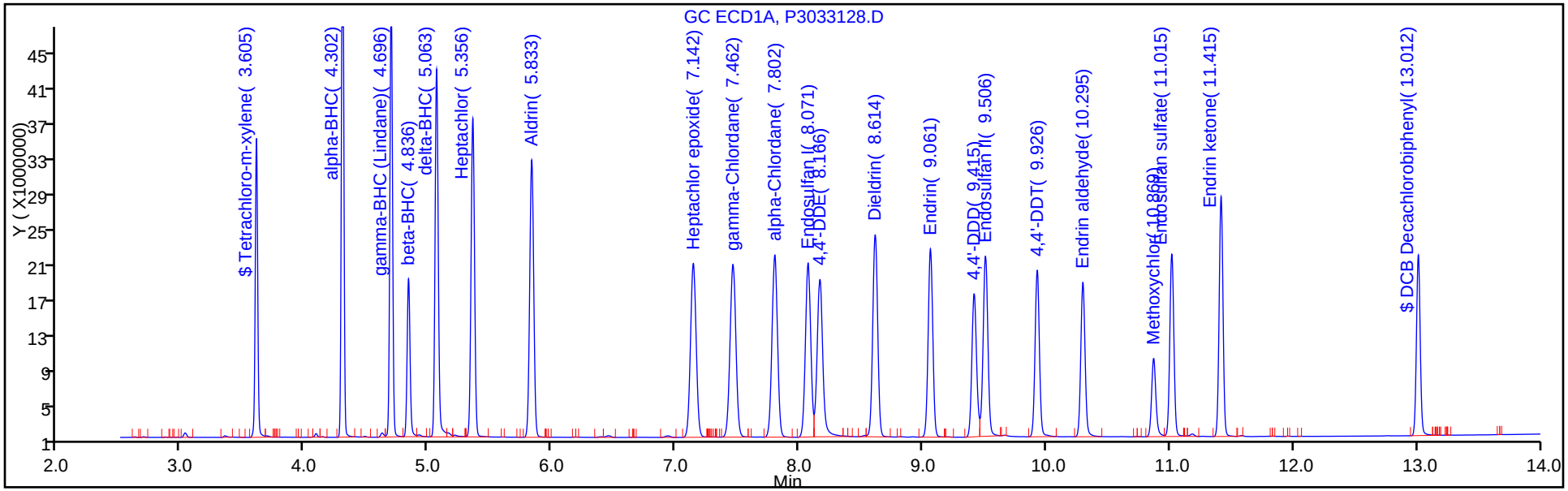
Report Date: 01-Apr-2015 08:58:13 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

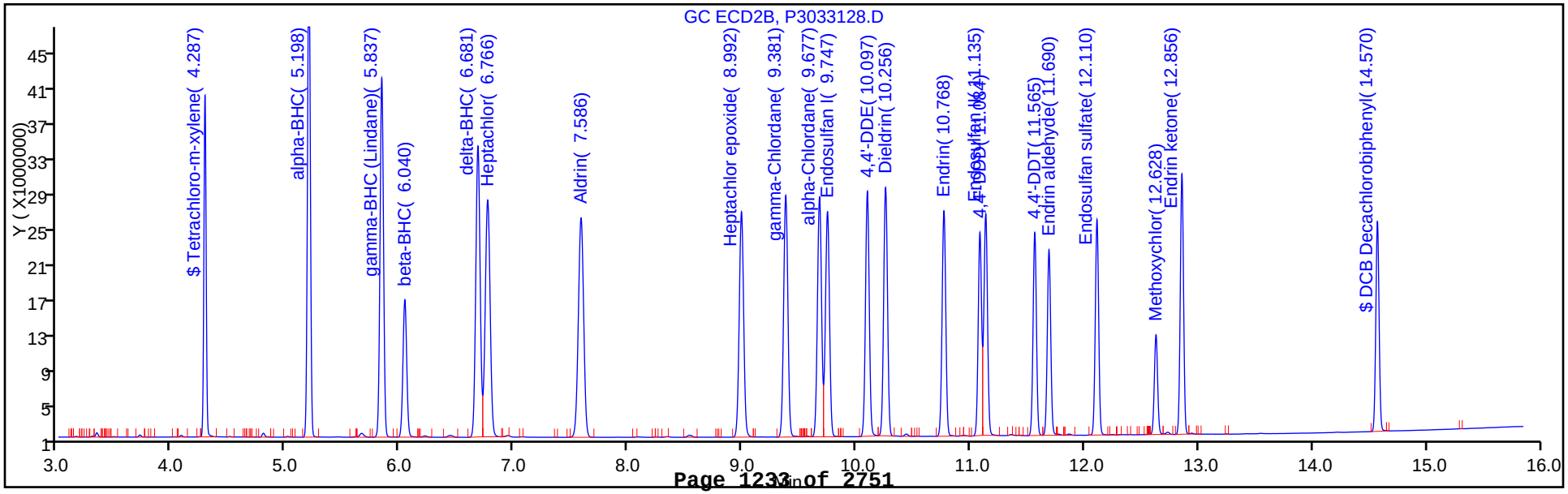
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033128.D

Injection Date:	31-Mar-2015 21:44:03	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D
Lims ID: STD AB5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Mar-2015 22:07:14 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-029
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:14 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.604	3.604	0.000	100979372	100.0	102.7	
2	4.287	4.287	0.000	113034706	100.0	100.3	
						RPD = 2.34	
4 alpha-BHC							
1	4.301	4.301	0.000	186273224	100.0	107.6	
2	5.199	5.199	0.000	208465883	100.0	106.5	
						RPD = 0.99	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	165062455	100.0	106.9	
2	5.837	5.837	0.000	186977616	100.0	105.7	
						RPD = 1.18	
6 beta-BHC							
1	4.835	4.835	0.000	64356210	100.0	102.2	
2	6.040	6.040	0.000	76204305	100.0	99.2	
						RPD = 2.98	
7 delta-BHC							
1	5.062	5.062	0.000	166925543	100.0	111.1	
2	6.680	6.681	-0.001	191902373	100.0	108.2	
						RPD = 2.65	
9 Heptachlor							
1	5.356	5.356	0.000	153930697	100.0	105.5	
2	6.767	6.765	0.002	176072167	100.0	104.2	
						RPD = 1.27	
10 Aldrin							
1	5.832	5.833	-0.001	153527177	100.0	105.0	
2	7.584	7.585	-0.001	174114951	100.0	104.1	
						RPD = 0.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.141	7.141	0.000	135595093	100.0	104.0	
2	8.992	8.992	0.000	146595251	100.0	102.1	
						RPD = 1.81	
13 gamma-Chlordane							
1	7.461	7.462	-0.001	143604158	100.0	106.3	
2	9.382	9.381	0.001	152807674	100.0	103.9	
						RPD = 2.34	
14 alpha-Chlordane							
1	7.801	7.799	0.002	140414073	100.0	105.0	
2	9.677	9.676	0.001	146119135	100.0	102.9	
						RPD = 2.02	
15 Endosulfan I							
1	8.071	8.068	0.003	127882954	100.0	104.2	
2	9.747	9.746	0.001	134897952	100.0	102.1	
						RPD = 2.04	
16 4,4'-DDE							
1	8.164	8.166	-0.002	130568170	100.0	110.2	
2	10.097	10.096	0.001	140151362	100.0	106.1	
						RPD = 3.76	
17 Dieldrin							
1	8.613	8.614	-0.001	139644483	100.0	106.8	
2	10.257	10.256	0.001	143152571	100.0	104.6	
						RPD = 2.04	
18 Endrin							
1	9.061	9.061	0.000	122810215	100.0	106.7	
2	10.767	10.768	-0.001	126436870	100.0	104.9	
						RPD = 1.69	
20 4,4'-DDD							
1	9.412	9.415	-0.003	99534574	100.0	114.4	
2	11.083	11.083	0.000	106287930	100.0	108.6	
						RPD = 5.15	
21 Endosulfan II							
1	9.507	9.507	0.000	118613675	100.0	102.5	
2	11.134	11.134	0.000	119019734	100.0	101.8	
						RPD = 0.74	
23 4,4'-DDT							
1	9.925	9.924	0.001	107496871	100.0	112.5	
2	11.565	11.565	0.000	106648312	100.0	106.9	
						RPD = 5.17	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	90722188	100.0	101.8	
2	11.690	11.690	0.000	93913976	100.0	100.6	
						RPD = 1.26	
27 Methoxychlor							
1	10.867	10.868	-0.001	46472336	100.0	101.4	
2	12.627	12.628	-0.001	48177105	100.0	98.5	
						RPD = 2.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.015	11.015	0.000	102341419	100.0	102.7	
2	12.110	12.110	0.000	107630350	100.0	101.6	
						RPD = 1.09	
29 Endrin ketone							
1	11.414	11.414	0.000	123621579	100.0	101.2	
2	12.856	12.856	0.000	125541054	100.0	102.2	
						RPD = 1.06	
$ 30 DCB Decachlorobiphenyl							
1	13.011	13.011	0.000	88266403	100.0	94.3	
2	14.570	14.570	0.000	96538779	100.0	94.8	
						RPD = 0.61	

Reagents:

SGPestAB5_00009 Amount Added: 1.00 Units: mL

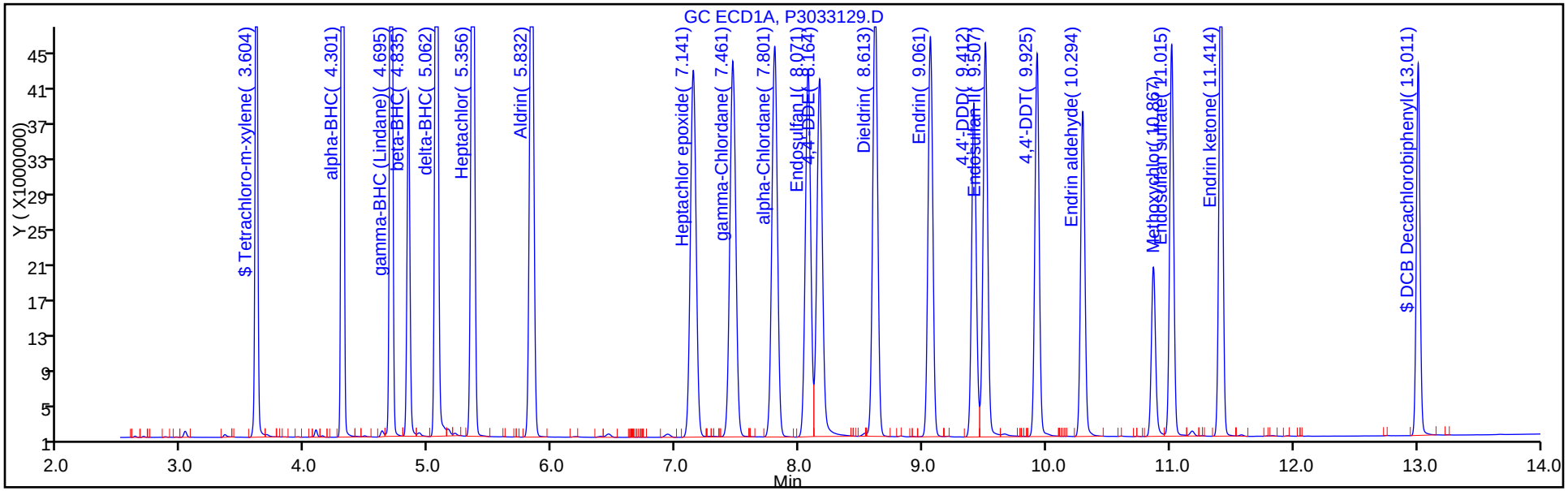
Report Date: 01-Apr-2015 08:58:16 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

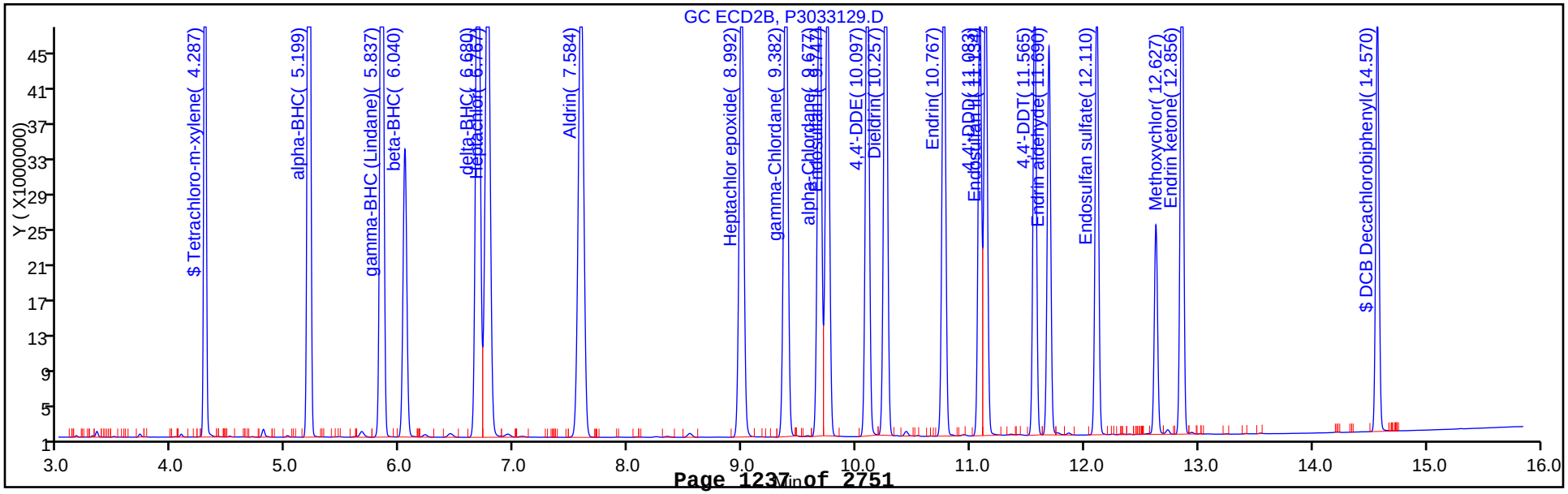
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033129.D

Injection Date:	31-Mar-2015 22:07:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB5			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D
Lims ID: STD AB6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Mar-2015 22:29:58 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-030
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:58:17 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.602	3.604	-0.002	189637291	200.0	192.8	
2	4.287	4.287	0.000	211706263	200.0	187.8	
						RPD = 2.61	
4 alpha-BHC							
1	4.300	4.301	-0.001	354825181	200.0	204.9	
2	5.198	5.199	-0.001	394533340	200.0	201.5	
						RPD = 1.64	
5 gamma-BHC (Lindane)							
1	4.693	4.695	-0.002	314410933	200.0	203.7	
2	5.837	5.837	0.000	353874715	200.0	200.0	
						RPD = 1.83	
6 beta-BHC							
1	4.832	4.835	-0.003	122309456	200.0	194.2	
2	6.038	6.040	-0.002	143550510	200.0	186.8	
						RPD = 3.87	
7 delta-BHC							
1	5.059	5.062	-0.003	319192463	200.0	212.4	
2	6.680	6.681	-0.001	363835550	200.0	205.1	
						RPD = 3.51	
9 Heptachlor							
1	5.353	5.356	-0.003	288091249	200.0	197.4	
2	6.767	6.765	0.002	328861796	200.0	194.5	
						RPD = 1.48	
10 Aldrin							
1	5.830	5.833	-0.003	291883438	200.0	199.7	
2	7.585	7.585	0.000	330701385	200.0	197.8	
						RPD = 0.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.138	7.141	-0.003	251715160	200.0	193.1	
2	8.992	8.992	0.000	273352880	200.0	190.4	
						RPD = 1.37	
13 gamma-Chlordane							
1	7.458	7.462	-0.004	274668690	200.0	203.4	
2	9.381	9.381	0.000	290505462	200.0	197.5	
						RPD = 2.94	
14 alpha-Chlordane							
1	7.798	7.799	-0.001	266757855	200.0	199.4	
2	9.677	9.676	0.001	277491300	200.0	195.4	
						RPD = 2.06	
15 Endosulfan I							
1	8.067	8.068	-0.001	237414688	200.0	193.4	
2	9.747	9.746	0.001	251200604	200.0	190.1	
						RPD = 1.74	
16 4,4'-DDE							
1	8.160	8.166	-0.006	253675814	200.0	214.1	
2	10.097	10.096	0.001	268025917	200.0	203.0	
						RPD = 5.34	
17 Dieldrin							
1	8.612	8.614	-0.002	261274932	200.0	199.8	
2	10.257	10.256	0.001	271265368	200.0	198.3	
						RPD = 0.77	
18 Endrin							
1	9.060	9.061	-0.001	229462332	200.0	199.3	
2	10.767	10.768	-0.001	238375035	200.0	197.7	
						RPD = 0.79	
20 4,4'-DDD							
1	9.411	9.415	-0.004	195226651	200.0	224.3	
2	11.082	11.083	-0.001	204139326	200.0	208.6	
						RPD = 7.25	
21 Endosulfan II							
1	9.505	9.507	-0.002	217587968	200.0	188.1	
2	11.134	11.134	0.000	224229146	200.0	191.7	
						RPD = 1.93	
23 4,4'-DDT							
1	9.922	9.924	-0.002	211650515	200.0	221.6	
2	11.565	11.565	0.000	209429423	200.0	209.9	
						RPD = 5.44	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	165370411	200.0	185.6	
2	11.689	11.690	-0.001	173564845	200.0	185.9	
						RPD = 0.12	
27 Methoxychlor							
1	10.867	10.868	-0.001	89522192	200.0	195.4	
2	12.627	12.628	-0.001	95972640	200.0	196.2	
						RPD = 0.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	11.013	11.015	-0.002	189528753	200.0	190.3	
2	12.110	12.110	0.000	203625762	200.0	192.3	
						RPD = 1.05	
29 Endrin ketone							
1	11.412	11.414	-0.002	228035065	200.0	186.6	
2	12.856	12.856	0.000	238046316	200.0	193.9	
						RPD = 3.81	
$ 30 DCB Decachlorobiphenyl							
1	13.009	13.011	-0.002	169711774	200.0	181.2	
2	14.569	14.570	-0.001	183801612	200.0	180.6	
						RPD = 0.37	

Reagents:

SGPestAB6_00010 Amount Added: 1.00 Units: mL

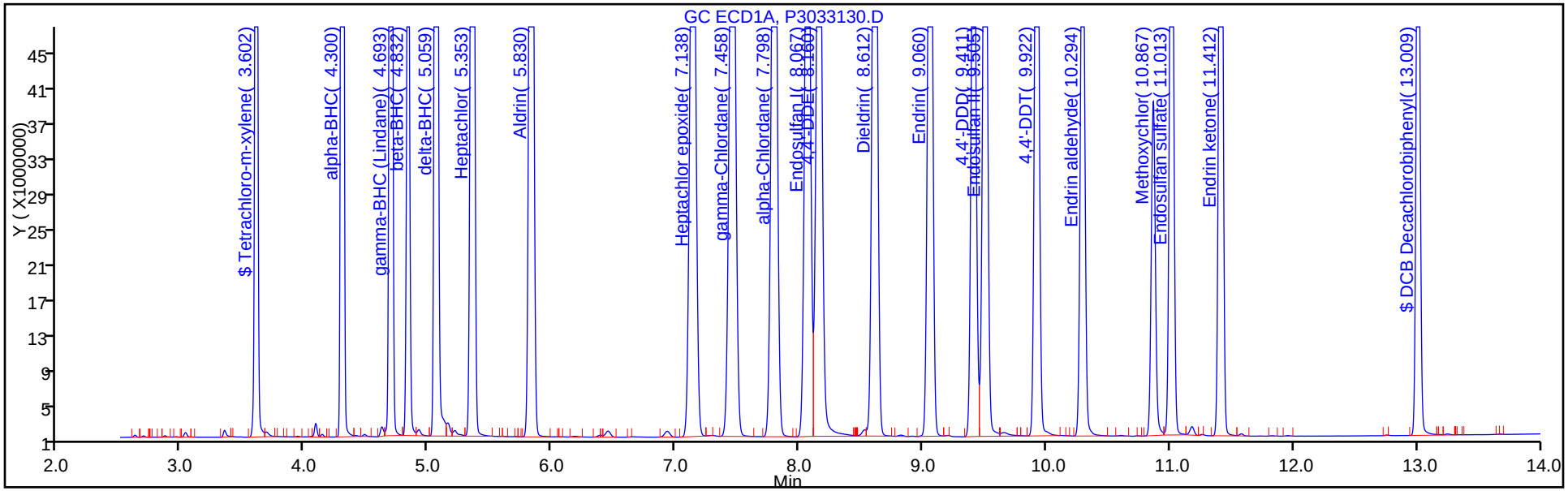
Report Date: 01-Apr-2015 08:58:19 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

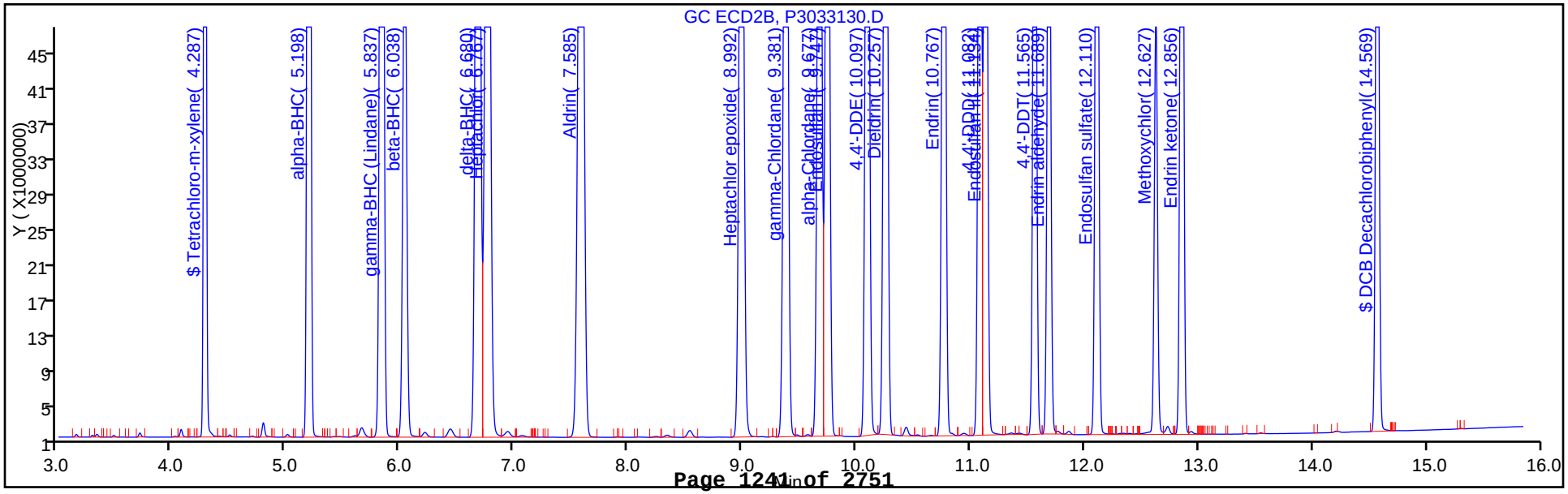
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Injection Date:	31-Mar-2015 22:29:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	STD AB6			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (2): PEM 240-174448/24 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 03/31/2015 20:11

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.60	100.0
alpha-BHC	4.30	100.0
gamma-BHC (Lindane)	4.69	100.0
beta-BHC	4.84	100.0
4,4'-DDE	8.18	100.0
Endrin	9.06	100.0
4,4'-DDD	9.42	100.0
4,4'-DDT	9.92	100.0
Endrin aldehyde	10.30	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): PEM 240-174448/24 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 03/31/2015 20:11

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.29	100.0
alpha-BHC	5.20	100.0
gamma-BHC (Lindane)	5.84	100.0
beta-BHC	6.04	100.0
4,4'-DDE	10.10	100.0
Endrin	10.77	100.0
4,4'-DDD	11.09	100.0
4,4'-DDT	11.57	100.0
Endrin aldehyde	11.69	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (2): PEM 240-177258/27 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/21/2015 22:49

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.55	100.0
alpha-BHC	4.25	100.0
gamma-BHC (Lindane)	4.63	100.0
beta-BHC	4.77	100.0
4,4'-DDE	8.05	100.0
Endrin	8.96	100.0
4,4'-DDD	9.32	100.0
4,4'-DDT	9.83	100.0
Endrin aldehyde	10.21	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): PEM 240-177258/27 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/21/2015 22:49

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.24	100.0
alpha-BHC	5.13	100.0
gamma-BHC (Lindane)	5.75	100.0
beta-BHC	5.95	100.0
4,4'-DDE	10.01	100.0
Endrin	10.68	100.0
4,4'-DDD	11.01	100.0
4,4'-DDT	11.49	100.0
Endrin aldehyde	11.61	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (2): PEM 240-177463/5 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/22/2015 16:07

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.56	100.0
alpha-BHC	4.26	100.0
gamma-BHC (Lindane)	4.64	100.0
beta-BHC	4.78	100.0
4,4'-DDE	8.09	100.0
Endrin	8.97	100.0
4,4'-DDD	9.35	100.0
4,4'-DDT	9.85	100.0
Endrin aldehyde	10.22	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): PEM 240-177463/5 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/22/2015 16:07

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.24	100.0
alpha-BHC	5.13	100.0
gamma-BHC (Lindane)	5.75	100.0
beta-BHC	5.95	100.0
4,4'-DDE	10.02	100.0
Endrin	10.68	100.0
4,4'-DDD	11.01	100.0
4,4'-DDT	11.49	100.0
Endrin aldehyde	11.61	100.0

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: PEM 240-174448/24 Calibration Date: 03/31/2015 20:11

Instrument ID: A2HP3 Calib Start Date: 03/19/2015 15:22

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/19/2015 17:18

Lab File ID: P3033124.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	9.06	52430236	6.07	15	
Endrin aldehyde	10.30	924740			
Endrin ketone	11.42	2465681			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.92	94164495	1.47	15	
4,4'-DDD	9.42	1197512			
4,4'-DDE	8.18	206271			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 31-Mar-2015 20:11:15 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-024
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	19128359	NC	NC	
2	4.287	4.287	0.000	21973617	NC	NC	
						RPD = 0.52	
4 alpha-BHC							
1	4.300	4.300	0.000	14578958	NC	NC	
2	5.199	5.198	0.001	16698316	NC	NC	
						RPD = 1.28	
5 gamma-BHC (Lindane)							
1	4.693	4.693	0.000	13271936	NC	NC	
2	5.838	5.837	0.001	15369190	NC	NC	
						RPD = 1.64	
6 beta-BHC							
1	4.835	4.834	0.001	5749980	NC	NC	
2	6.041	6.039	0.002	7166413	NC	NC	
						RPD = 3.80	
16 4,4'-DDE							
1	8.175	8.162	0.013	206271		NC	M
2	10.101	10.096	0.005	254471		NC	a
						RPD = 176.34	
18 Endrin							
1	9.060	9.061	-0.001	52430236	NC	NC	
2	10.768	10.766	0.002	54400764	NC	NC	
						RPD = 3.82	
20 4,4'-DDD							
1	9.424	9.413	0.011	1197512		NC	
2	11.085	11.083	0.002	931094		NC	
						RPD = 26.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.924	9.924	0.000	94164495	NC	NC	
2	11.565	11.564	0.001	95320083	NC	NC	
						RPD = 4.31	
25 Endrin aldehyde							
1	10.300	10.292	0.008	924740		NC	
2	11.690	11.689	0.001	798586		NC	
						RPD = 16.66	
27 Methoxychlor							
1		10.866			ND	ND	
2		12.626					
29 Endrin ketone							
1	11.415	11.412	0.003	2465681		NC	
2	12.854	12.855	-0.001	2132474		NC	
						RPD = 15.92	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

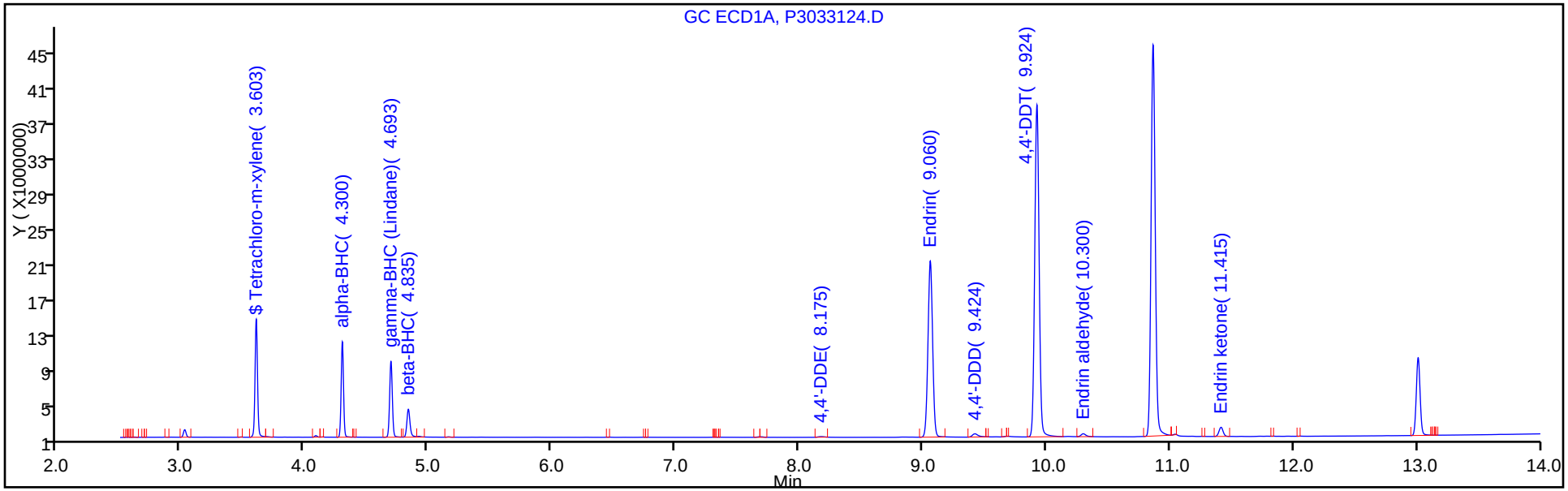
Report Date: 02-Apr-2015 15:27:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

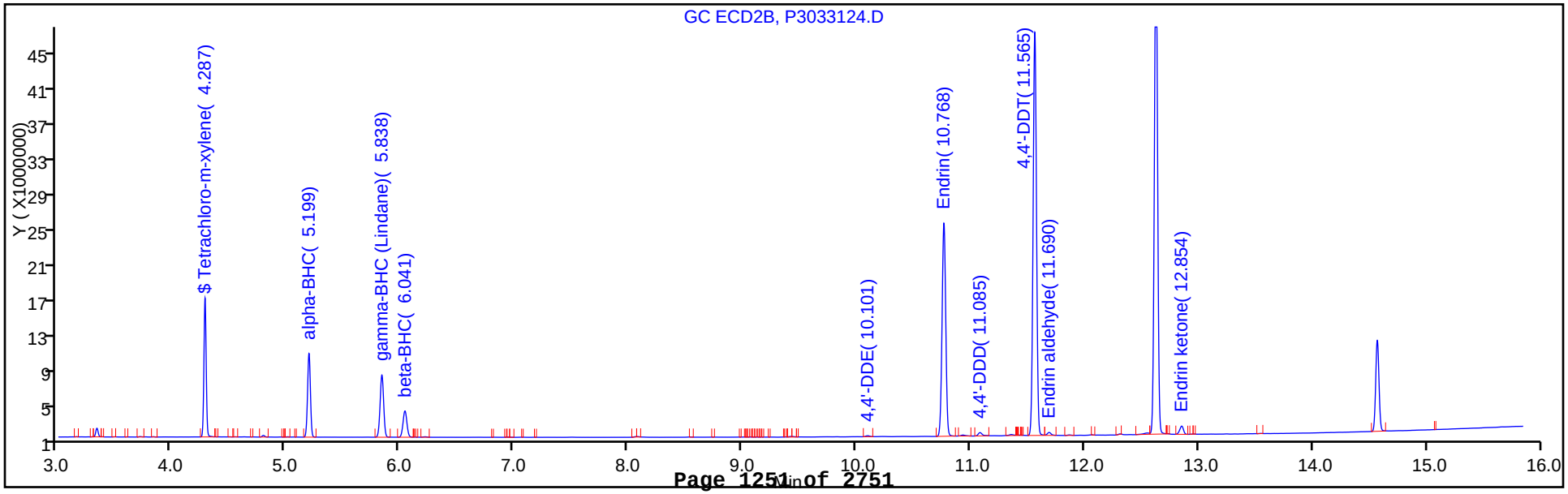
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D

Injection Date:	31-Mar-2015 20:11:15	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: PEM 240-174448/24 Calibration Date: 03/31/2015 20:11

Instrument ID: A2HP3 Calib Start Date: 03/19/2015 15:22

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/19/2015 17:18

Lab File ID: P3033124.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.77	54400764	5.11	15	
Endrin aldehyde	11.69	798586			
Endrin ketone	12.85	2132474			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.57	95320083	1.23	15	
4,4'-DDD	11.09	931094			
4,4'-DDE	10.10	254471			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 31-Mar-2015 20:11:15 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-024
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 19:26:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033122.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:46:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.603	3.602	0.001	19128359	NC	NC	
2	4.287	4.287	0.000	21973617	NC	NC	
						RPD = 0.52	
4 alpha-BHC							
1	4.300	4.300	0.000	14578958	NC	NC	
2	5.199	5.198	0.001	16698316	NC	NC	
						RPD = 1.28	
5 gamma-BHC (Lindane)							
1	4.693	4.693	0.000	13271936	NC	NC	
2	5.838	5.837	0.001	15369190	NC	NC	
						RPD = 1.64	
6 beta-BHC							
1	4.835	4.834	0.001	5749980	NC	NC	
2	6.041	6.039	0.002	7166413	NC	NC	
						RPD = 3.80	
16 4,4'-DDE							
1	8.175	8.162	0.013	206271		NC	M
2	10.101	10.096	0.005	254471		NC	a
						RPD = 176.34	
18 Endrin							
1	9.060	9.061	-0.001	52430236	NC	NC	
2	10.768	10.766	0.002	54400764	NC	NC	
						RPD = 3.82	
20 4,4'-DDD							
1	9.424	9.413	0.011	1197512		NC	
2	11.085	11.083	0.002	931094		NC	
						RPD = 26.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.924	9.924	0.000	94164495	NC	NC	
2	11.565	11.564	0.001	95320083	NC	NC	
						RPD = 4.31	
25 Endrin aldehyde							
1	10.300	10.292	0.008	924740		NC	
2	11.690	11.689	0.001	798586		NC	
						RPD = 16.66	
27 Methoxychlor							
1		10.866			ND	ND	
2		12.626					
29 Endrin ketone							
1	11.415	11.412	0.003	2465681		NC	
2	12.854	12.855	-0.001	2132474		NC	
						RPD = 15.92	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

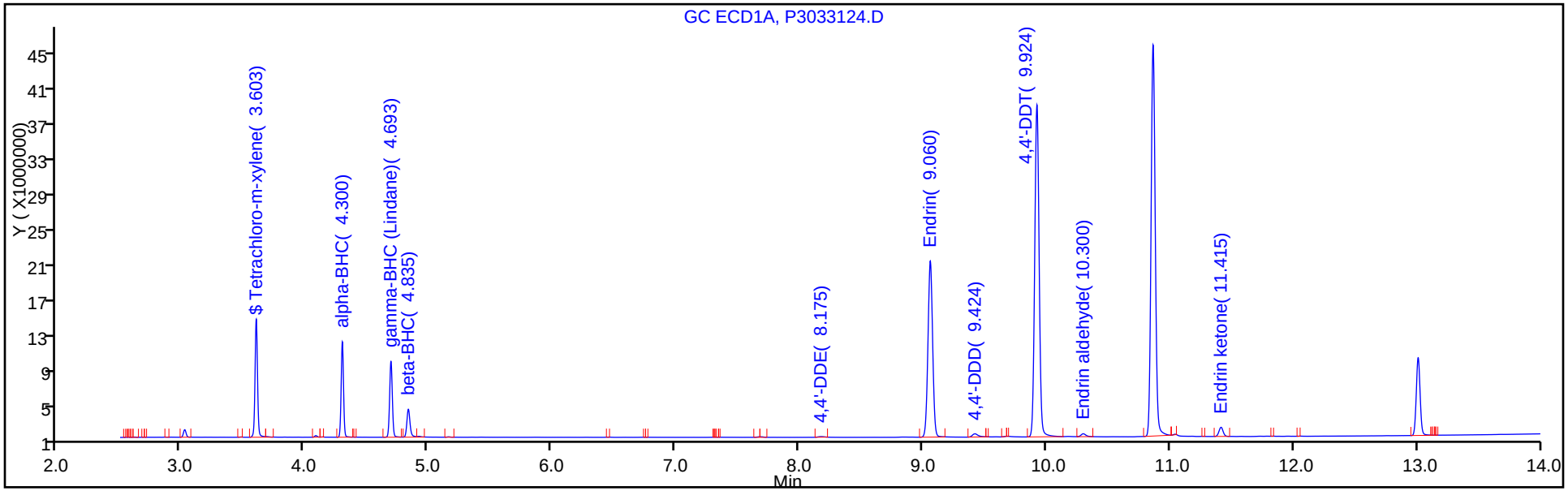
Report Date: 02-Apr-2015 15:27:46 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

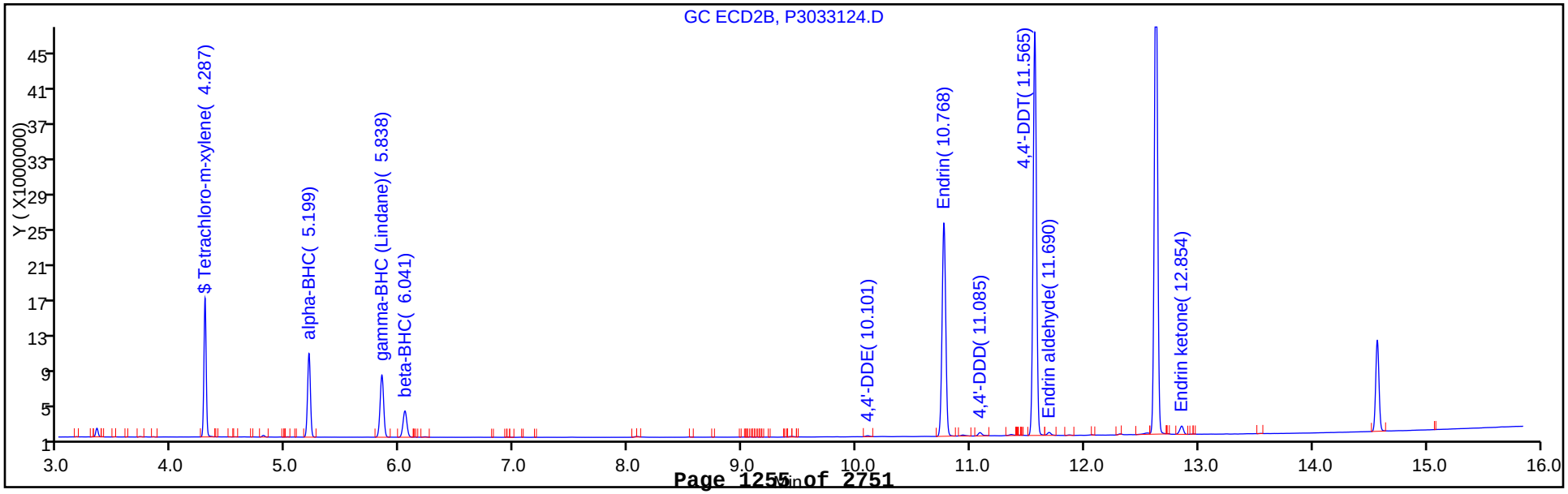
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033124.D

Injection Date:	31-Mar-2015 20:11:15	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: PEM 240-177258/27 Calibration Date: 04/21/2015 22:49

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042127.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.96	62852510	4.44	15	
Endrin aldehyde	10.21	704130			
Endrin ketone	11.33	2216617			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.83	101584019	4.17	15	
4,4'-DDD	9.32	4193343			
4,4'-DDE	8.05	224047			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 21-Apr-2015 22:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:49 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:28:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.554	-0.004	22114936	10.0	22.5	
2	4.235	4.235	0.000	25037271	10.0	22.2	
						RPD = 1.21	
4 alpha-BHC							
1	4.246	4.250	-0.004	17321003	10.0	10.0	
2	5.128	5.128	0.000	19632697	10.0	10.0	
						RPD = 0.28	
5 gamma-BHC (Lindane)							
1	4.632	4.638	-0.006	15791420	10.0	10.2	
2	5.751	5.751	0.000	18049275	10.0	10.2	
						RPD = 0.29	
6 beta-BHC							
1	4.771	4.776	-0.005	6736133	10.0	10.7	
2	5.951	5.949	0.002	8128987	10.0	10.6	
						RPD = 1.08	
16 4,4'-DDE							
1	8.054	8.059	-0.005	224047		0.1891	M
2	10.011	10.012	-0.001	314483		0.2382	a
						RPD = 22.96	
LOD = 0.5000							
18 Endrin							
1	8.958	8.962	-0.004	62852510	50.0	54.6	
2	10.681	10.681	0.000	62942171	50.0	52.2	
						RPD = 4.46	
20 4,4'-DDD							
1	9.321	9.327	-0.006	4193343		4.82	
2	11.005	11.006	-0.001	4392579		4.49	
						RPD = 7.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.833	9.841	-0.008	101584019	100.0	106.3	
2	11.486	11.487	-0.001	99820361	100.0	100.0	
						RPD = 6.13	
25 Endrin aldehyde							
1	10.208	10.209	-0.001	704130		0.7904	
2	11.609	11.609	0.000	637730		0.6829	
						RPD = 14.60	
27 Methoxychlor							
1		10.795			ND	ND	
2		12.554					
29 Endrin ketone							
1	11.331	11.334	-0.003	2216617		1.81	
2	12.772	12.776	-0.004	2297048		1.87	
						RPD = 3.08	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

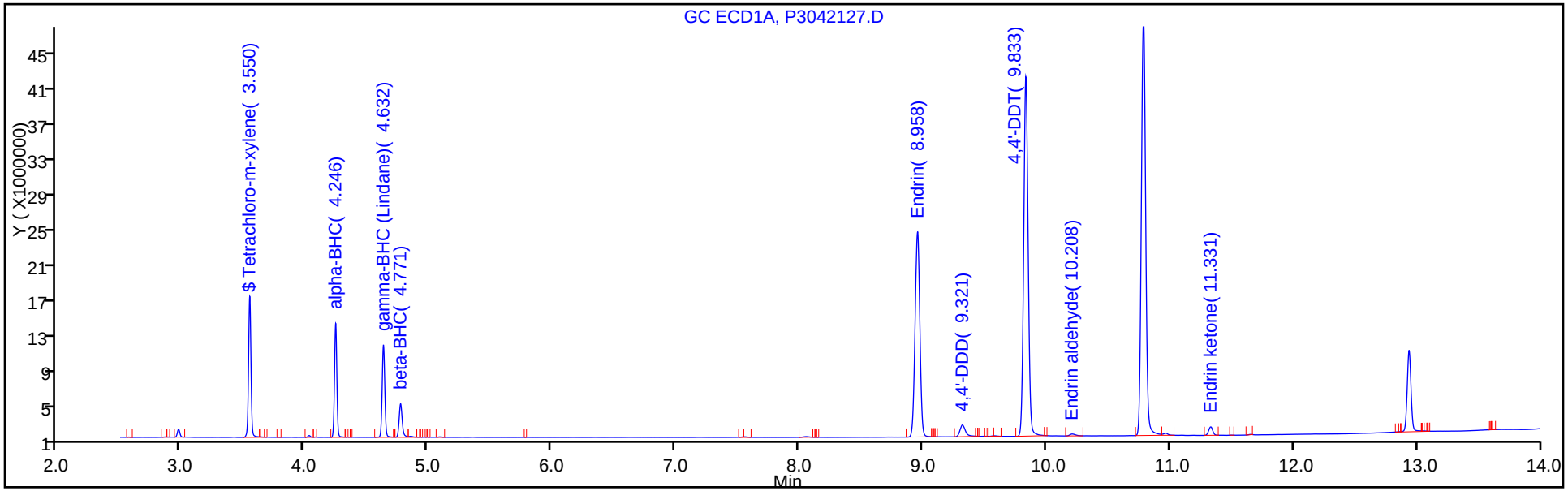
Report Date: 22-Apr-2015 08:57:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

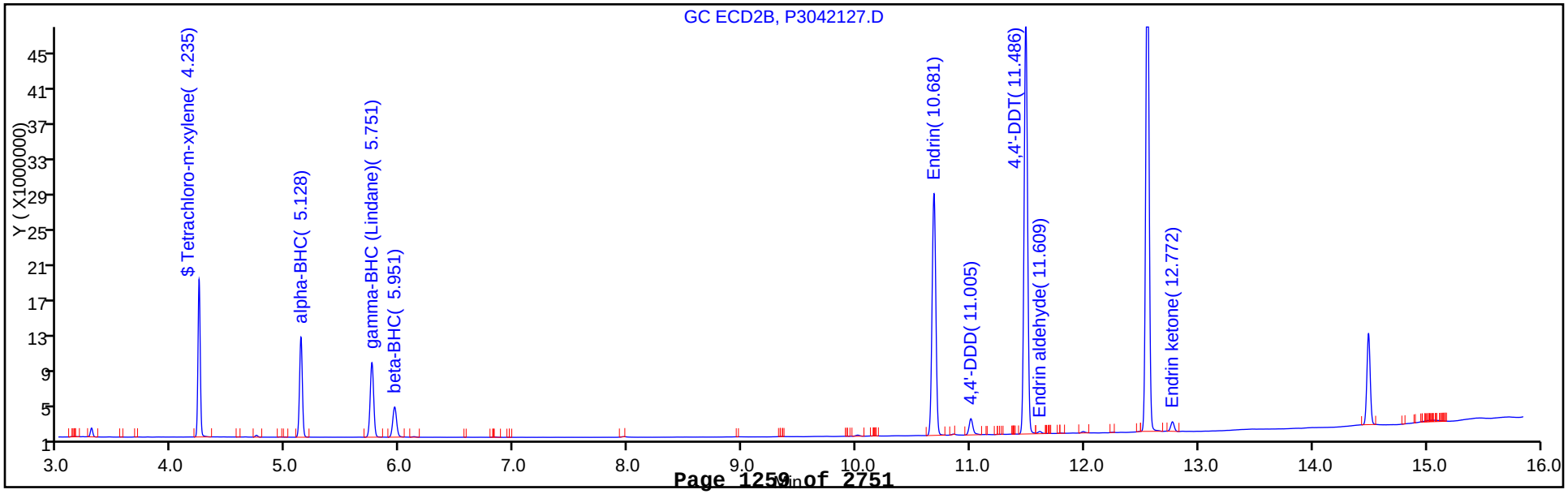
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D

Injection Date:	21-Apr-2015 22:49:30	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: PEM 240-177258/27 Calibration Date: 04/21/2015 22:49

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042127.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.68	62942171	4.45	15	
Endrin aldehyde	11.61	637730			
Endrin ketone	12.77	2297048			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.49	99820361	4.50	15	
4,4'-DDD	11.01	4392579			
4,4'-DDE	10.01	314483			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 21-Apr-2015 22:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-027
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:49 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:28:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.550	3.554	-0.004	22114936	10.0	22.5	
2	4.235	4.235	0.000	25037271	10.0	22.2	
						RPD = 1.21	
4 alpha-BHC							
1	4.246	4.250	-0.004	17321003	10.0	10.0	
2	5.128	5.128	0.000	19632697	10.0	10.0	
						RPD = 0.28	
5 gamma-BHC (Lindane)							
1	4.632	4.638	-0.006	15791420	10.0	10.2	
2	5.751	5.751	0.000	18049275	10.0	10.2	
						RPD = 0.29	
6 beta-BHC							
1	4.771	4.776	-0.005	6736133	10.0	10.7	
2	5.951	5.949	0.002	8128987	10.0	10.6	
						RPD = 1.08	
16 4,4'-DDE							
1	8.054	8.059	-0.005	224047		0.1891	M
2	10.011	10.012	-0.001	314483		0.2382	a
						RPD = 22.96	
LOD = 0.5000							
18 Endrin							
1	8.958	8.962	-0.004	62852510	50.0	54.6	
2	10.681	10.681	0.000	62942171	50.0	52.2	
						RPD = 4.46	
20 4,4'-DDD							
1	9.321	9.327	-0.006	4193343		4.82	
2	11.005	11.006	-0.001	4392579		4.49	
						RPD = 7.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.833	9.841	-0.008	101584019	100.0	106.3	
2	11.486	11.487	-0.001	99820361	100.0	100.0	
						RPD = 6.13	
25 Endrin aldehyde							
1	10.208	10.209	-0.001	704130		0.7904	
2	11.609	11.609	0.000	637730		0.6829	
						RPD = 14.60	
27 Methoxychlor							
1		10.795			ND	ND	
2		12.554					
29 Endrin ketone							
1	11.331	11.334	-0.003	2216617		1.81	
2	12.772	12.776	-0.004	2297048		1.87	
						RPD = 3.08	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

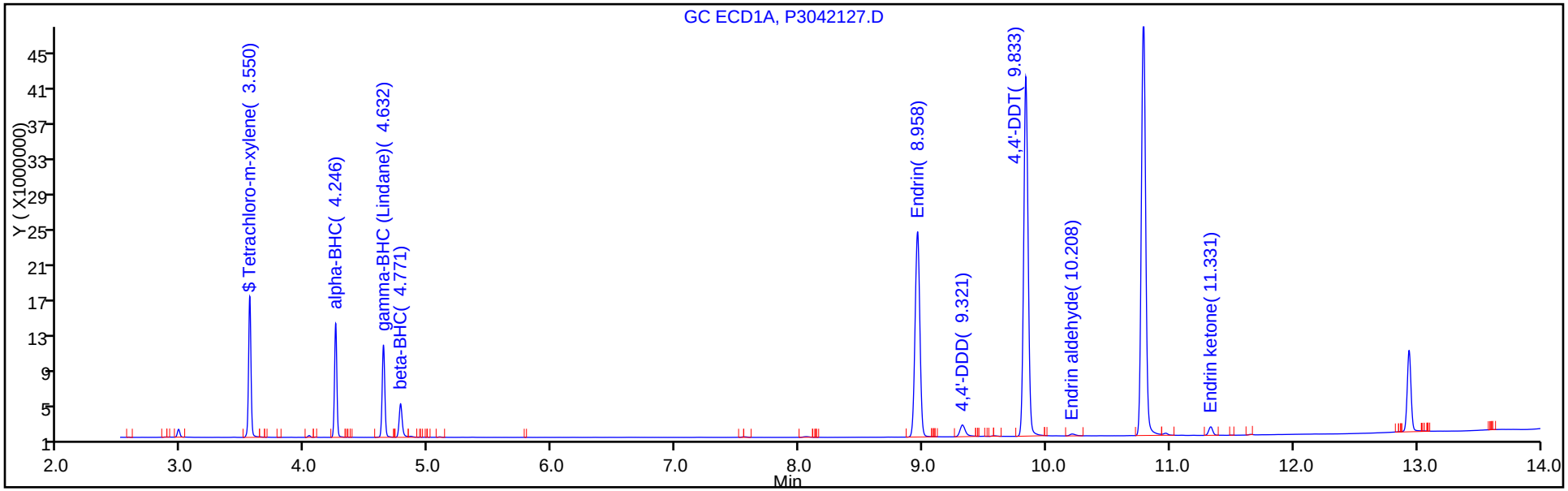
Report Date: 22-Apr-2015 08:57:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

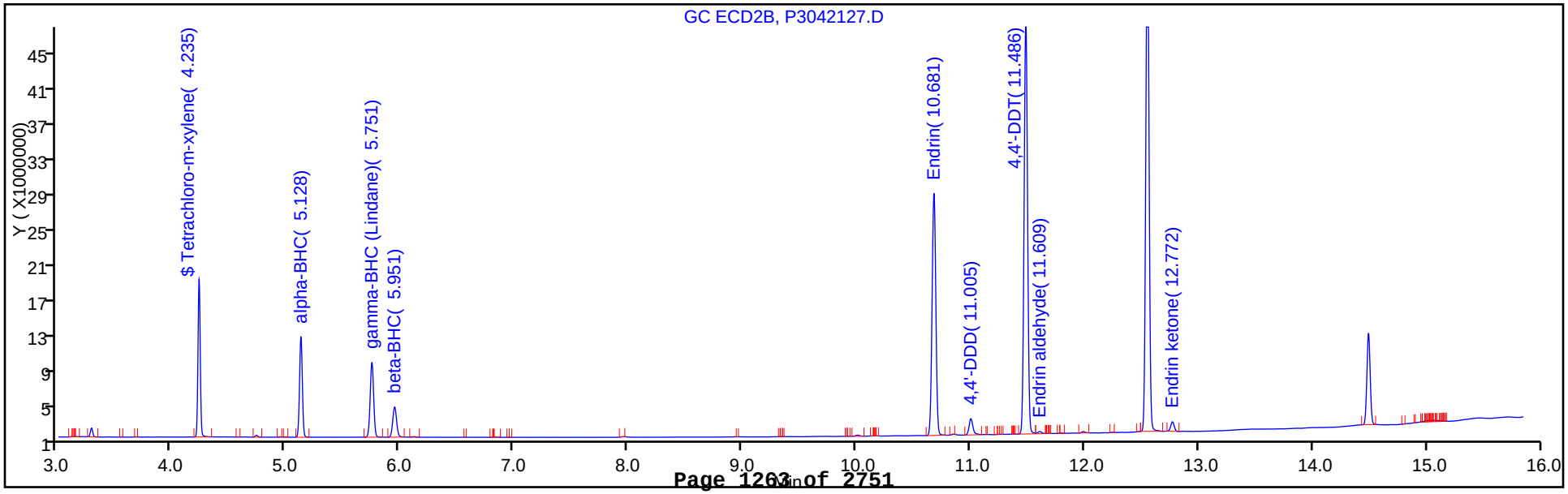
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042127.D

Injection Date:	21-Apr-2015 22:49:30	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: PEM 240-177463/5 Calibration Date: 04/22/2015 16:07

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042205.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.97	56189832	5.74	15	
Endrin aldehyde	10.22	787996			
Endrin ketone	11.34	2634356			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.85	83772532	5.00	15	
4,4'-DDD	9.35	4076784			
4,4'-DDE	8.09	328171			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042205.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 22-Apr-2015 16:07:03 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-005
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:54 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:21:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.558	3.555	0.003	20028747	10.0	20.4	
2	4.235	4.235	0.000	23851340	10.0	21.2	
						RPD = 3.85	
4 alpha-BHC							
1	4.255	4.251	0.004	15795492	10.0	9.12	
2	5.128	5.128	0.000	18413598	10.0	9.41	
						RPD = 3.09	
5 gamma-BHC (Lindane)							
1	4.643	4.638	0.005	14117499	10.0	9.15	
2	5.751	5.751	0.000	16554203	10.0	9.36	
						RPD = 2.27	
6 beta-BHC							
1	4.784	4.778	0.006	5303626	10.0	8.42	
2	5.950	5.951	-0.001	7285652	10.0	9.48	
						RPD = 11.86	
16 4,4'-DDE							
1	8.091	8.065	0.026	328171		0.2770	M
2	10.017	10.012	0.005	645109		0.4886	a
						RPD = 55.27	
LOD = 0.5000							
18 Endrin							
1	8.970	8.963	0.007	56189832	50.0	48.8	
2	10.680	10.681	-0.001	56733083	50.0	47.1	
						RPD = 3.64	
20 4,4'-DDD							
1	9.347	9.332	0.015	4076784		4.68	
2	11.009	11.006	0.003	5235778		5.35	
						RPD = 13.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.850	9.843	0.007	83772532	100.0	87.7	
2	11.487	11.486	0.001	84199352	100.0	84.4	
						RPD = 3.87	
25 Endrin aldehyde							
1	10.220	10.209	0.011	787996		0.8846	
2	11.605	11.609	-0.004	1166102		1.25	
						RPD = 34.14	
27 Methoxychlor							
1		10.797			ND	ND	
2		12.554					
29 Endrin ketone							
1	11.339	11.334	0.005	2634356		2.16	
2	12.772	12.774	-0.002	4041202		3.29	
						RPD = 41.69	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

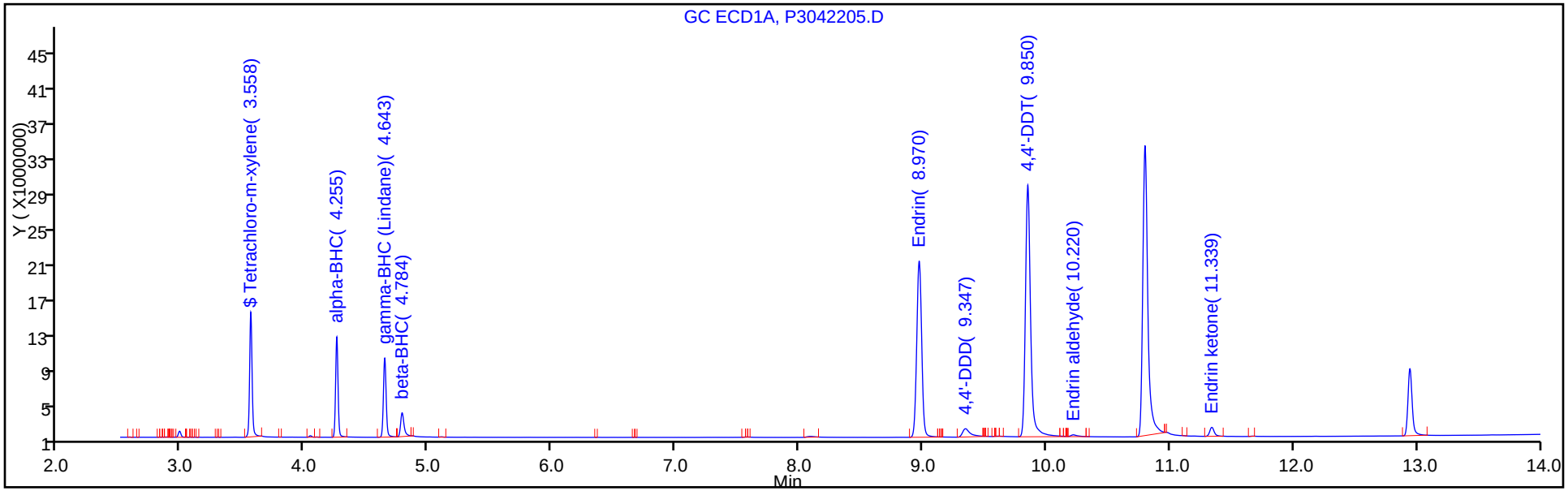
Report Date: 23-Apr-2015 07:42:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

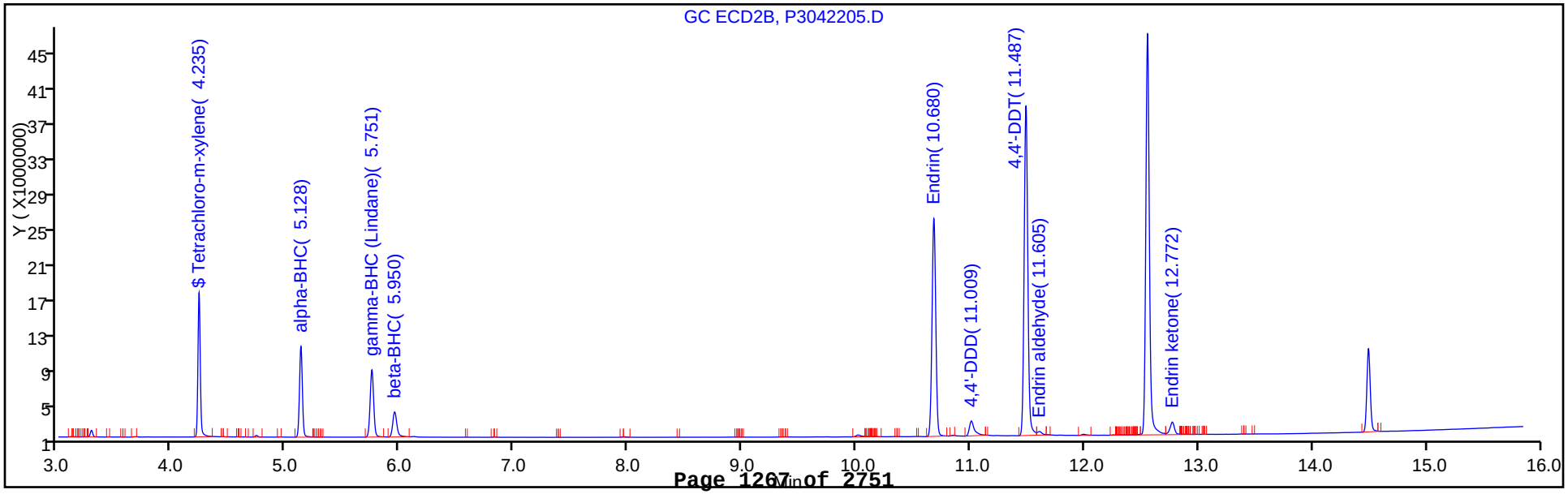
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042205.D

Injection Date:	22-Apr-2015 16:07:03	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: PEM 240-177463/5 Calibration Date: 04/22/2015 16:07

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042205.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.68	56733083	8.41	15	
Endrin aldehyde	11.61	1166102			
Endrin ketone	12.77	4041202			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.49	84199352	6.53	15	
4,4'-DDD	11.01	5235778			
4,4'-DDE	10.02	645109			

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042205.D
Lims ID: PEM
Client ID:
Sample Type: PEM
Inject. Date: 22-Apr-2015 16:07:03 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-005
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:54 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:21:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.558	3.555	0.003	20028747	10.0	20.4	
2	4.235	4.235	0.000	23851340	10.0	21.2	
						RPD = 3.85	
4 alpha-BHC							
1	4.255	4.251	0.004	15795492	10.0	9.12	
2	5.128	5.128	0.000	18413598	10.0	9.41	
						RPD = 3.09	
5 gamma-BHC (Lindane)							
1	4.643	4.638	0.005	14117499	10.0	9.15	
2	5.751	5.751	0.000	16554203	10.0	9.36	
						RPD = 2.27	
6 beta-BHC							
1	4.784	4.778	0.006	5303626	10.0	8.42	
2	5.950	5.951	-0.001	7285652	10.0	9.48	
						RPD = 11.86	
16 4,4'-DDE							
1	8.091	8.065	0.026	328171		0.2770	M
2	10.017	10.012	0.005	645109		0.4886	a
						RPD = 55.27	
LOD = 0.5000							
18 Endrin							
1	8.970	8.963	0.007	56189832	50.0	48.8	
2	10.680	10.681	-0.001	56733083	50.0	47.1	
						RPD = 3.64	
20 4,4'-DDD							
1	9.347	9.332	0.015	4076784		4.68	
2	11.009	11.006	0.003	5235778		5.35	
						RPD = 13.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
23 4,4'-DDT							
1	9.850	9.843	0.007	83772532	100.0	87.7	
2	11.487	11.486	0.001	84199352	100.0	84.4	
						RPD = 3.87	
25 Endrin aldehyde							
1	10.220	10.209	0.011	787996		0.8846	
2	11.605	11.609	-0.004	1166102		1.25	
						RPD = 34.14	
27 Methoxychlor							
1		10.797			ND	ND	
2		12.554					
29 Endrin ketone							
1	11.339	11.334	0.005	2634356		2.16	
2	12.772	12.774	-0.002	4041202		3.29	
						RPD = 41.69	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

SGPESTPEM_00014 Amount Added: 1.00 Units: mL

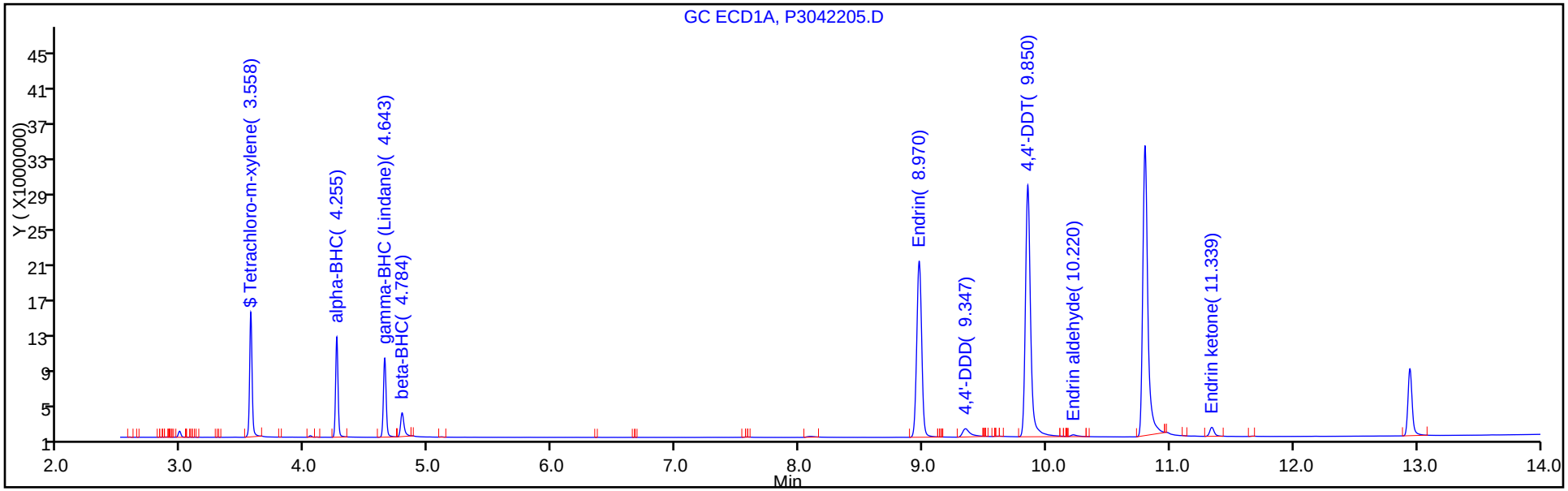
Report Date: 23-Apr-2015 07:42:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

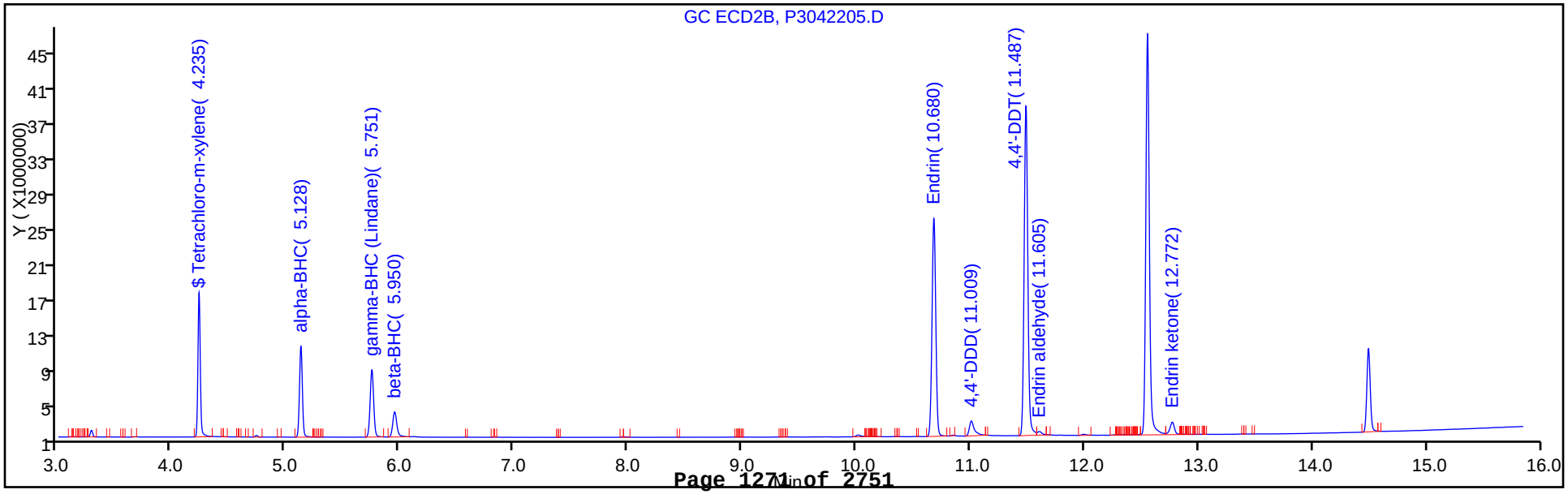
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042205.D

Injection Date:	22-Apr-2015 16:07:03	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	PEM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	42537		1120	1000	12.4	20.0
Toxaphene Peak 2	Ave	36644	38369		1050	1000	4.7	20.0
Toxaphene Peak 3	Ave	23355	26929		1150	1000	15.3	20.0
Toxaphene Peak 4	Ave	33176	37077		1120	1000	11.8	20.0
Toxaphene Peak 5	Ave	32330	36873		1140	1000	14.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.71	9.68	9.74
Toxaphene Peak 2	10.17	10.14	10.20
Toxaphene Peak 3	10.48	10.45	10.51
Toxaphene Peak 4	10.82	10.78	10.84
Toxaphene Peak 5	10.93	10.89	10.95

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D
Lims ID: ICV TOX
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 17:34:14 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-017
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:40:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	42537298	1000.0	1124.4	M
1	10.165	10.167	-0.002	38369101	1000.0	1047.1	M
1	10.476	10.478	-0.002	26928611	1000.0	1153.0	M
1	10.816	10.814	0.002	37077392	1000.0	1117.6	M
1	10.925	10.922	0.003	36872517	1000.0	1140.5	M
		Average of Peak Amounts =				1116.5	
2	11.110	11.108	0.002	56398273	1000.0	1088.3	M
2	11.275	11.275	0.000	54666334	1000.0	1072.6	M
2	11.698	11.698	0.000	38048417	1000.0	1067.5	M
2	12.433	12.433	0.000	48902236	1000.0	1071.7	M
2	12.523	12.523	0.000	16163268	1000.0	1038.1	M
		Average of Peak Amounts =				1067.7	
						RPD = 4.47	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX ChemS_00004 Amount Added: 100.00 Units: uL

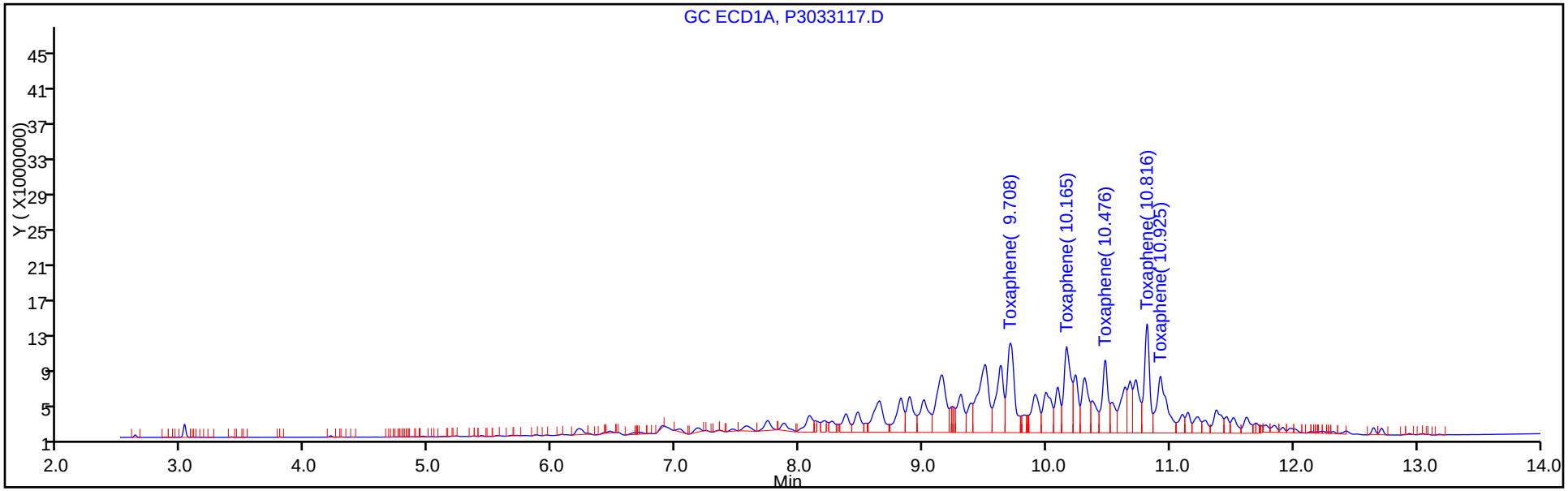
Report Date: 01-Apr-2015 08:57:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

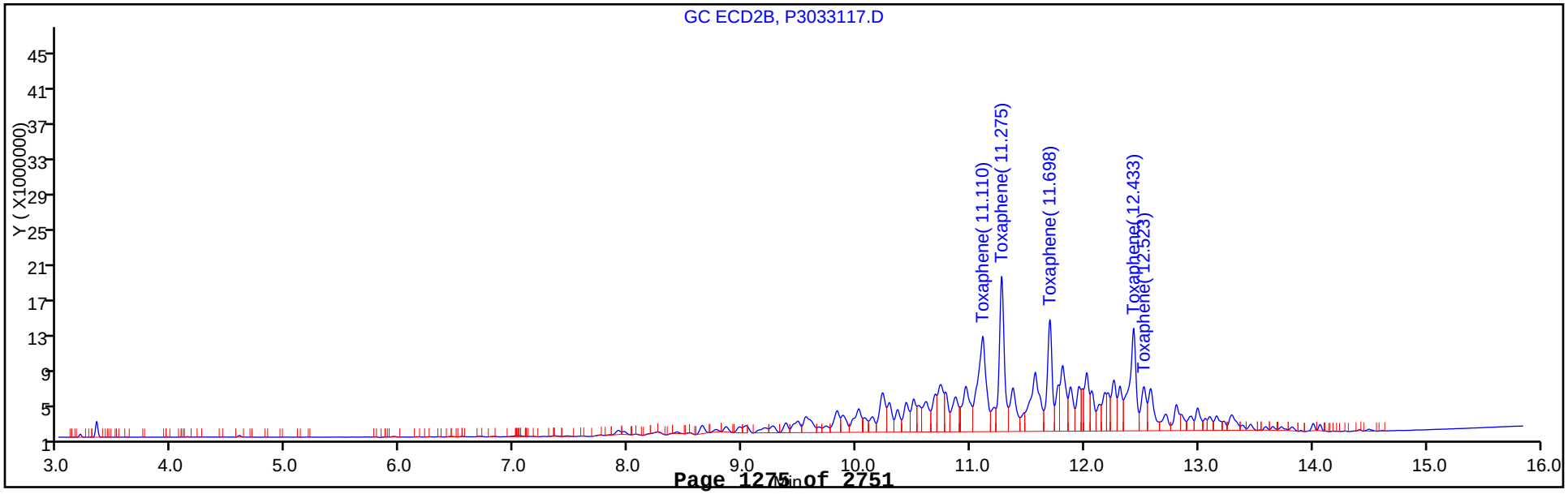
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date:	31-Mar-2015 17:34:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:37 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date: 31-Mar-2015 17:34:14 Instrument ID: A2HP3

Lims ID: ICV TOX

Client ID:

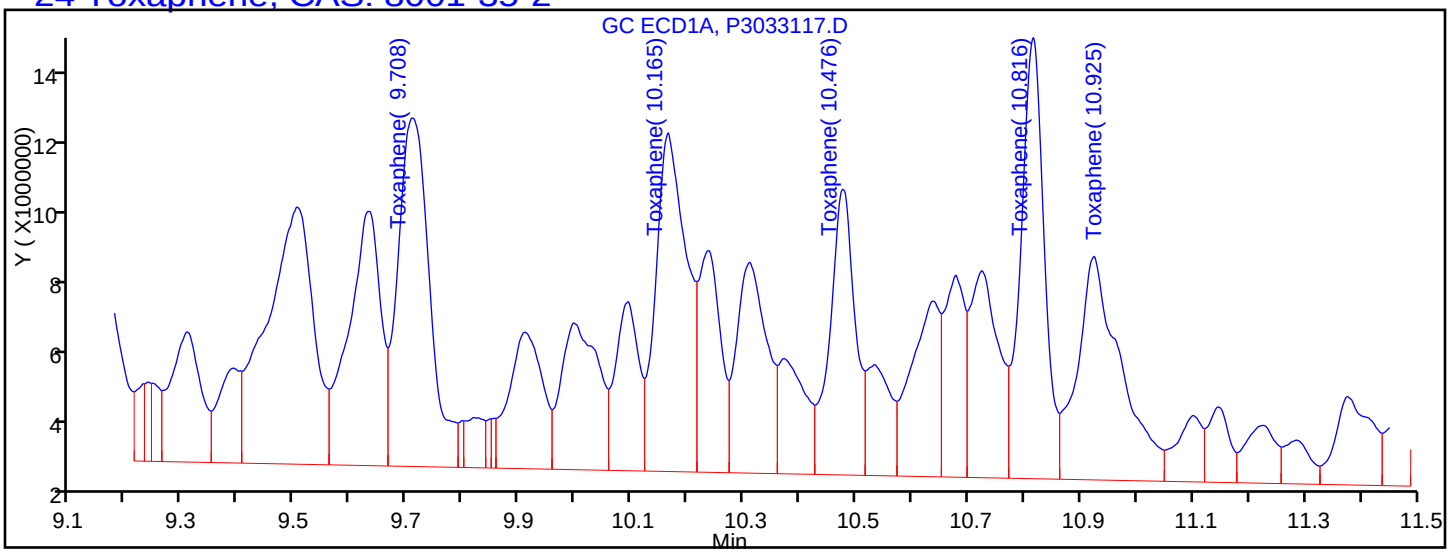
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

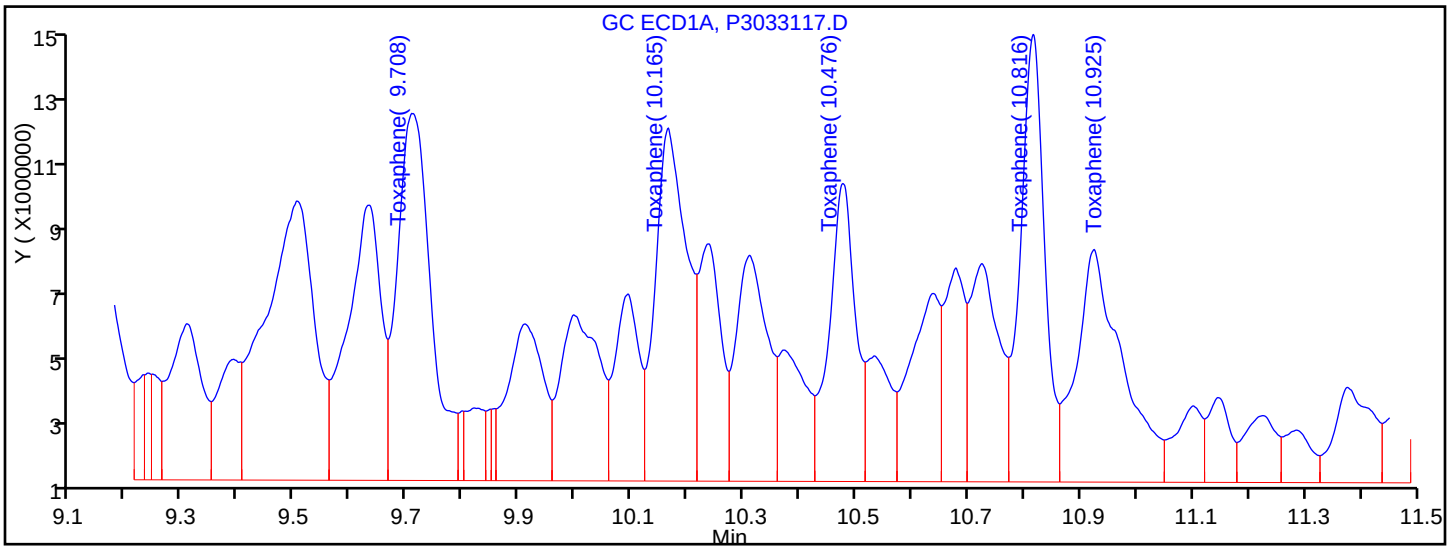
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.708	Response = 37512287	M
RT = 10.165	Response = 35267675	M
RT = 10.476	Response = 24366449	M
RT = 10.816	Response = 34987878	M
RT = 10.925	Response = 32987231	M



Manual Integration Results

RT = 9.708	Response = 42537298	M
RT = 10.165	Response = 38369101	M
RT = 10.476	Response = 26928611	M
RT = 10.816	Response = 37077392	M
RT = 10.925	Response = 36872517	M

Reviewer: matthewsb, 01-Apr-2015 08:40:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	56398		1090	1000	8.8	20.0
Toxaphene Peak 2	Ave	50965	54666		1070	1000	7.3	20.0
Toxaphene Peak 3	Ave	35641	38048		1070	1000	6.8	20.0
Toxaphene Peak 4	Ave	45629	48902		1070	1000	7.2	20.0
Toxaphene Peak 5	Ave	15570	16163		1040	1000	3.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/17 Calibration Date: 03/31/2015 17:34

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3033117.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.11	11.08	11.14
Toxaphene Peak 2	11.28	11.25	11.31
Toxaphene Peak 3	11.70	11.67	11.73
Toxaphene Peak 4	12.43	12.40	12.46
Toxaphene Peak 5	12.52	12.49	12.55

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D
Lims ID: ICV TOX
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 17:34:14 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-017
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 01-Apr-2015 08:57:33 Calib Date: 31-Mar-2015 17:11:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033116.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK034

First Level Reviewer: matthewsb Date: 01-Apr-2015 08:40:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.708	9.708	0.000	42537298	1000.0	1124.4	M
1	10.165	10.167	-0.002	38369101	1000.0	1047.1	M
1	10.476	10.478	-0.002	26928611	1000.0	1153.0	M
1	10.816	10.814	0.002	37077392	1000.0	1117.6	M
1	10.925	10.922	0.003	36872517	1000.0	1140.5	M
		Average of Peak Amounts =				1116.5	
2	11.110	11.108	0.002	56398273	1000.0	1088.3	M
2	11.275	11.275	0.000	54666334	1000.0	1072.6	M
2	11.698	11.698	0.000	38048417	1000.0	1067.5	M
2	12.433	12.433	0.000	48902236	1000.0	1071.7	M
2	12.523	12.523	0.000	16163268	1000.0	1038.1	M
		Average of Peak Amounts =				1067.7	
						RPD = 4.47	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX ChemS_00004 Amount Added: 100.00 Units: uL

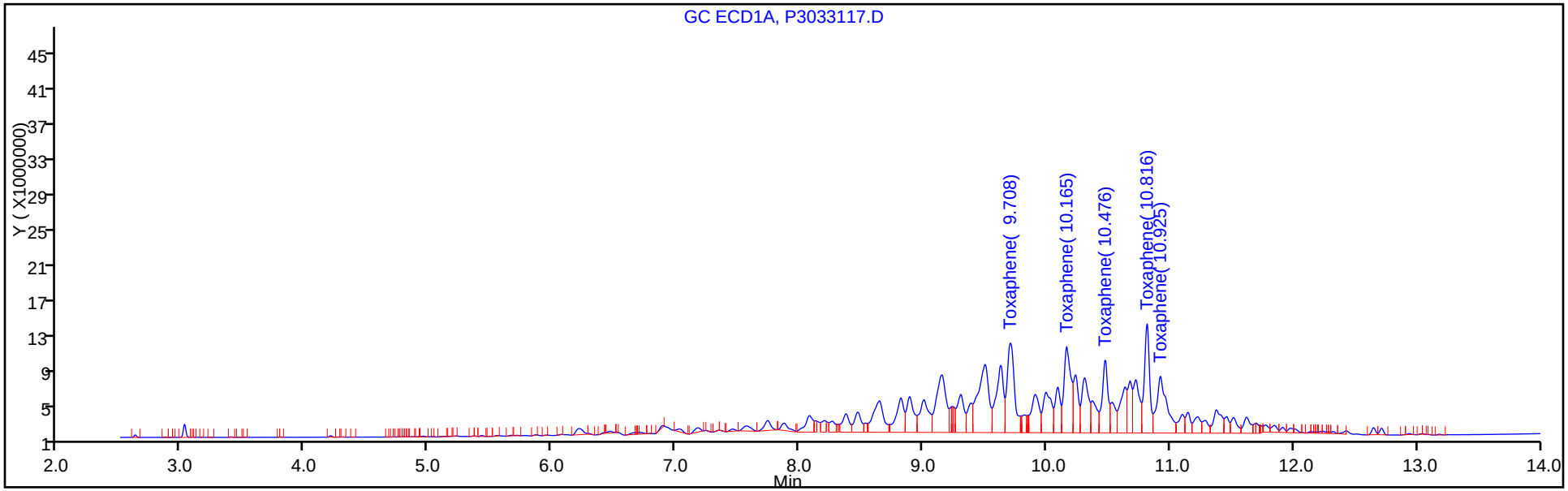
Report Date: 01-Apr-2015 08:57:38 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

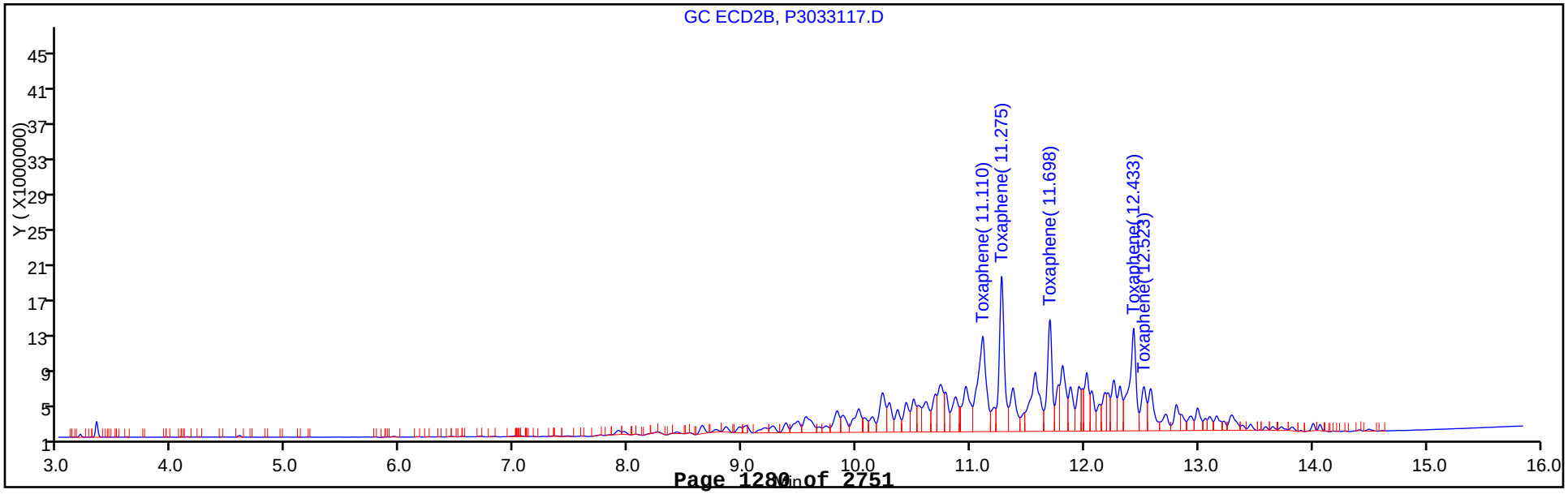
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date:	31-Mar-2015 17:34:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 01-Apr-2015 08:57:38 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033117.D

Injection Date: 31-Mar-2015 17:34:14 Instrument ID: A2HP3

Lims ID: ICV TOX

Client ID:

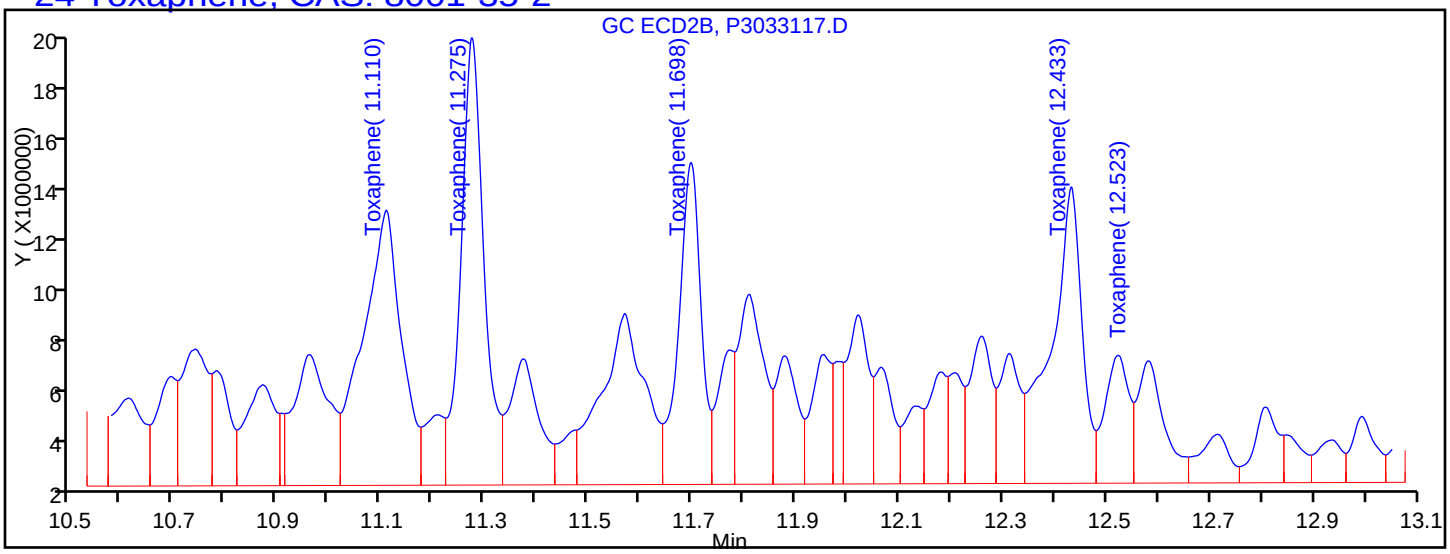
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

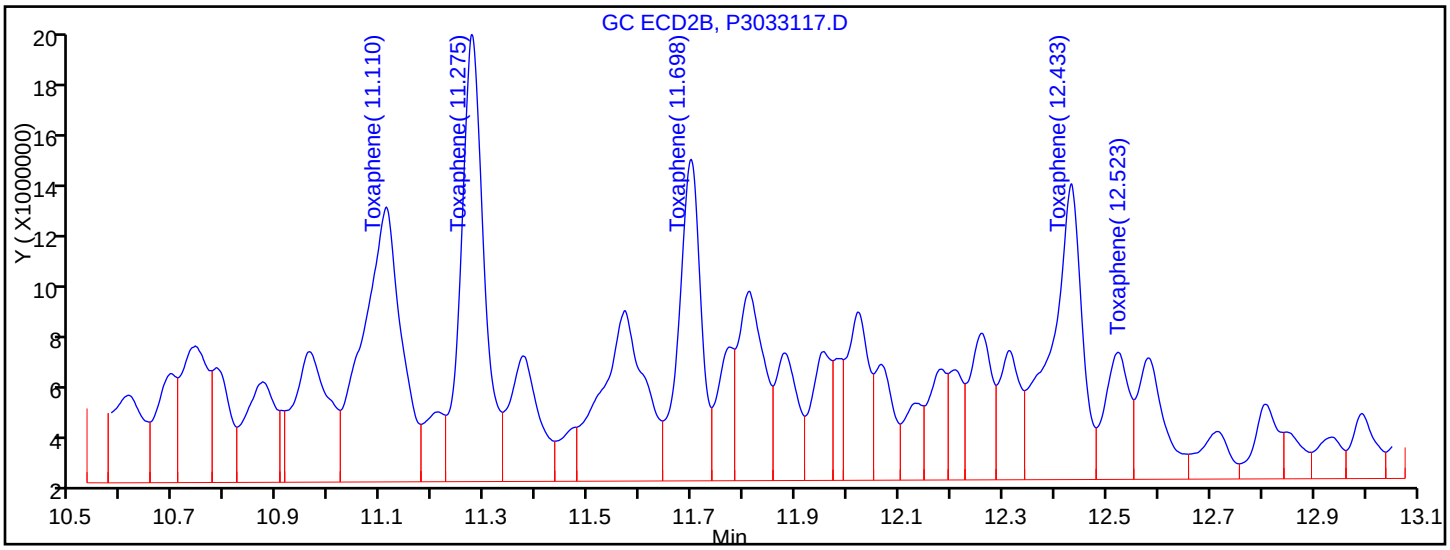
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.110	Response = 56628306	M
RT = 11.275	Response = 54840132	M
RT = 11.698	Response = 38221022	M
RT = 12.433	Response = 49210966	M
RT = 12.523	Response = 16329473	M



Manual Integration Results

RT = 11.110	Response = 56398273	M
RT = 11.275	Response = 54666334	M
RT = 11.698	Response = 38048417	M
RT = 12.433	Response = 48902236	M
RT = 12.523	Response = 16163268	M

Reviewer: matthewsb, 01-Apr-2015 08:42:05

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1795174		25.9	25.0	3.7	20.0
gamma-BHC (Lindane)	Ave	1543740	1577464		25.5	25.0	2.2	20.0
beta-BHC	Ave	629842	625485		24.8	25.0	-0.7	20.0
delta-BHC	Ave	1502830	1474905		24.5	25.0	-1.9	20.0
Heptachlor	Ave	1459223	1499048		25.7	25.0	2.7	20.0
Aldrin	Ave	1461888	1519074		26.0	25.0	3.9	20.0
Heptachlor epoxide	Ave	1303871	1316658		25.2	25.0	1.0	20.0
gamma-Chlordane	Ave	1350629	1357203		25.1	25.0	0.5	20.0
alpha-Chlordane	Ave	1337609	1348627		25.2	25.0	0.8	20.0
Endosulfan I	Ave	1227519	1204013		24.5	25.0	-1.9	20.0
4,4'-DDE	Ave	1184677	1161392		24.5	25.0	-2.0	20.0
Dieldrin	Ave	1307595	1338260		25.6	25.0	2.3	20.0
Endrin	Ave	1151386	1158992		25.2	25.0	0.7	20.0
4,4'-DDD	Ave	870416	819604		23.5	25.0	-5.8	20.0
Endosulfan II	Ave	1156896	1161400		25.1	25.0	0.4	20.0
4,4'-DDT	Ave	955198	945443		24.7	25.0	-1.0	20.0
Endrin aldehyde	Ave	890839	868728		24.4	25.0	-2.5	20.0
Methoxychlor	Ave	458228	455478		24.8	25.0	-0.6	20.0
Endosulfan sulfate	Ave	996194	1003154		25.2	25.0	0.7	20.0
Endrin ketone	Ave	1221980	1184636		24.2	25.0	-3.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.30	4.27	4.33
gamma-BHC (Lindane)	4.70	4.67	4.73
beta-BHC	4.84	4.81	4.87
delta-BHC	5.06	5.03	5.09
Heptachlor	5.36	5.33	5.39
Aldrin	5.83	5.80	5.86
Heptachlor epoxide	7.14	7.11	7.17
gamma-Chlordane	7.46	7.43	7.49
alpha-Chlordane	7.80	7.77	7.83
Endosulfan I	8.07	8.04	8.10
4,4'-DDE	8.17	8.14	8.20
Dieldrin	8.61	8.58	8.64
Endrin	9.06	9.03	9.09
4,4'-DDD	9.42	9.39	9.45
Endosulfan II	9.51	9.48	9.54
4,4'-DDT	9.92	9.89	9.95
Endrin aldehyde	10.29	10.27	10.33
Methoxychlor	10.87	10.84	10.90
Endosulfan sulfate	11.02	10.99	11.05
Endrin ketone	11.41	11.38	11.44

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D
Lims ID: ICV AB3
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 22:53:01 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-031
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: shockr Date: 02-Apr-2015 15:32:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 alpha-BHC							
1	4.301	4.301	0.000	44879358	25.0	25.9	
2	5.198	5.199	-0.001	50737027	25.0	25.9	
						RPD = 0.02	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	39436605	25.0	25.5	
2	5.837	5.837	0.000	45112830	25.0	25.5	
						RPD = 0.20	
6 beta-BHC							
1	4.835	4.835	0.000	15637116	25.0	24.8	
2	6.039	6.040	-0.001	19020835	25.0	24.8	
						RPD = 0.29	
7 delta-BHC							
1	5.063	5.062	0.001	36872618	25.0	24.5	
2	6.681	6.681	0.000	44536005	25.0	25.1	
						RPD = 2.29	
9 Heptachlor							
1	5.355	5.356	-0.001	37476200	25.0	25.7	
2	6.764	6.765	-0.001	43127307	25.0	25.5	
						RPD = 0.67	
10 Aldrin							
1	5.831	5.833	-0.002	37976852	25.0	26.0	
2	7.584	7.585	-0.001	43002022	25.0	25.7	
						RPD = 1.01	
12 Heptachlor epoxide							
1	7.139	7.141	-0.002	32916451	25.0	25.2	
2	8.992	8.992	0.000	36524385	25.0	25.4	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
13 gamma-Chlordane							
1	7.459	7.462	-0.003	33930076	25.0	25.1	
2	9.381	9.381	0.000	37272758	25.0	25.3	
						RPD = 0.85	
14 alpha-Chlordane							
1	7.799	7.799	0.000	33715682	25.0	25.2	
2	9.676	9.676	0.000	36113014	25.0	25.4	
						RPD = 0.87	
15 Endosulfan I							
1	8.069	8.068	0.001	30100325	25.0	24.5	
2	9.746	9.746	0.000	32598160	25.0	24.7	
						RPD = 0.59	
16 4,4'-DDE							
1	8.166	8.166	0.000	29034811	25.0	24.5	
2	10.097	10.096	0.001	33335661	25.0	25.2	
						RPD = 2.96	
17 Dieldrin							
1	8.613	8.614	-0.001	33456492	25.0	25.6	
2	10.256	10.256	0.000	35043674	25.0	25.6	
						RPD = 0.11	
18 Endrin							
1	9.060	9.061	-0.001	28974803	25.0	25.2	
2	10.768	10.768	0.000	30071663	25.0	24.9	
						RPD = 0.88	
20 4,4'-DDD							
1	9.417	9.415	0.002	20490111	25.0	23.5	
2	11.084	11.083	0.001	24146438	25.0	24.7	
						RPD = 4.70	
21 Endosulfan II							
1	9.507	9.507	0.000	29035012	25.0	25.1	
2	11.134	11.134	0.000	29251300	25.0	25.0	
						RPD = 0.34	
23 4,4'-DDT							
1	9.924	9.924	0.000	23636070	25.0	24.7	
2	11.564	11.565	-0.001	24551771	25.0	24.6	
						RPD = 0.58	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	21718197	25.0	24.4	
2	11.689	11.690	-0.001	22384198	25.0	24.0	
						RPD = 1.70	
27 Methoxychlor							
1	10.869	10.868	0.001	11386945	25.0	24.8	
2	12.628	12.628	0.000	12122347	25.0	24.8	
						RPD = 0.28	
28 Endosulfan sulfate							
1	11.015	11.015	0.000	25078855	25.0	25.2	
2	12.110	12.110	0.000	26415051	25.0	24.9	
						RPD = 0.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Endrin ketone							
1	11.414	11.414	0.000	29615910	25.0	24.2	
2	12.856	12.856	0.000	29229119	25.0	23.8	
						RPD =	1.80

Reagents:

SGPESTABCV_00017 Amount Added: 1.00 Units: mL

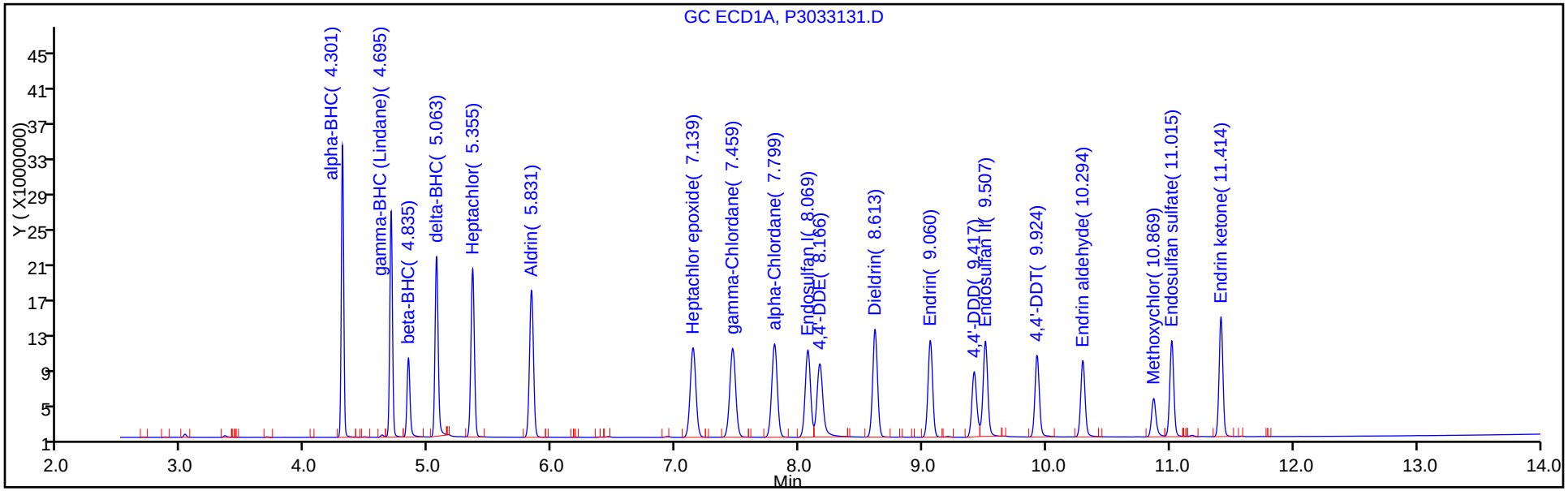
Report Date: 02-Apr-2015 15:32:11 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

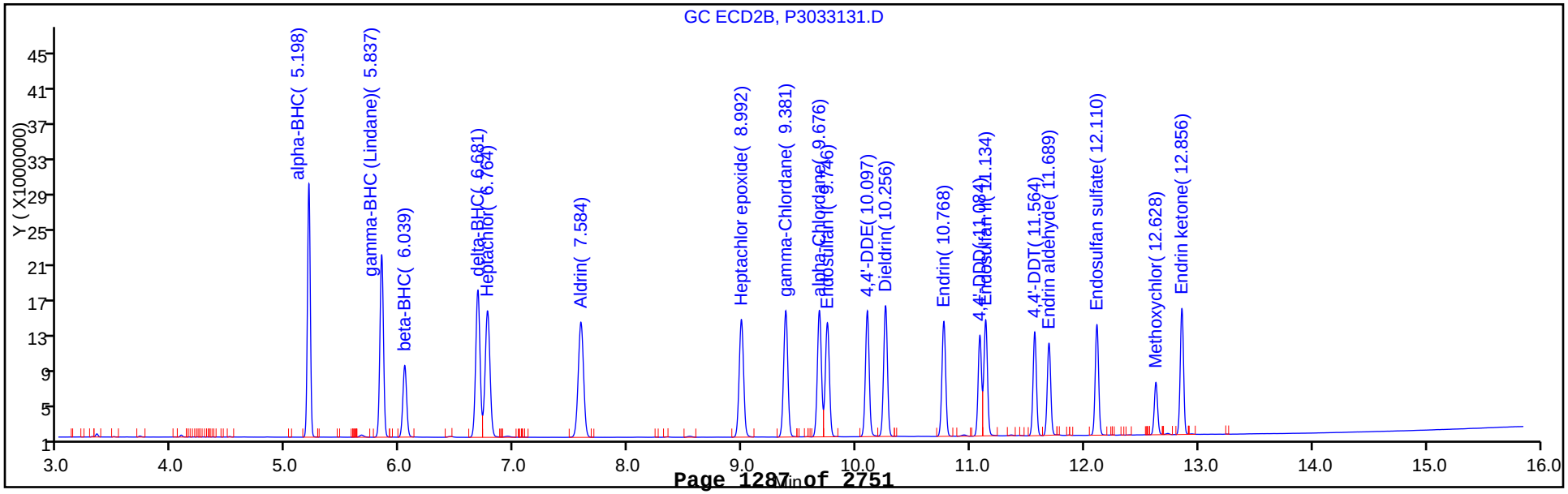
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D

Injection Date:	31-Mar-2015 22:53:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV AB3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2029481		25.9	25.0	3.7	20.0
gamma-BHC (Lindane)	Ave	1769514	1804513		25.5	25.0	2.0	20.0
beta-BHC	Ave	768367	760833		24.8	25.0	-1.0	20.0
delta-BHC	Ave	1774158	1781440		25.1	25.0	0.4	20.0
Heptachlor	Ave	1690527	1725092		25.5	25.0	2.0	20.0
Aldrin	Ave	1672196	1720081		25.7	25.0	2.9	20.0
Heptachlor epoxide	Ave	1435426	1460975		25.4	25.0	1.8	20.0
gamma-Chlordane	Ave	1471152	1490910		25.3	25.0	1.3	20.0
alpha-Chlordane	Ave	1420369	1444521		25.4	25.0	1.7	20.0
Endosulfan I	Ave	1321597	1303926		24.7	25.0	-1.3	20.0
4,4'-DDE	Ave	1320422	1333426		25.2	25.0	1.0	20.0
Dieldrin	Ave	1368089	1401747		25.6	25.0	2.5	20.0
Endrin	Ave	1205577	1202867		24.9	25.0	-0.2	20.0
4,4'-DDD	Ave	978644	965858		24.7	25.0	-1.3	20.0
Endosulfan II	Ave	1169425	1170052		25.0	25.0	0.0	20.0
4,4'-DDT	Ave	997996	982071		24.6	25.0	-1.6	20.0
Endrin aldehyde	Ave	933862	895368		24.0	25.0	-4.1	20.0
Endosulfan sulfate	Ave	1059131	1056602		24.9	25.0	-0.2	20.0
Methoxychlor	Ave	489196	484894		24.8	25.0	-0.9	20.0
Endrin ketone	Ave	1227876	1169165		23.8	25.0	-4.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-174448/31 Calibration Date: 03/31/2015 22:53

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3033131.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.20	5.17	5.23
gamma-BHC (Lindane)	5.84	5.81	5.87
beta-BHC	6.04	6.01	6.07
delta-BHC	6.68	6.65	6.71
Heptachlor	6.76	6.74	6.80
Aldrin	7.58	7.56	7.62
Heptachlor epoxide	8.99	8.96	9.02
gamma-Chlordane	9.38	9.35	9.41
alpha-Chlordane	9.68	9.65	9.71
Endosulfan I	9.75	9.72	9.78
4,4'-DDE	10.10	10.07	10.13
Dieldrin	10.26	10.23	10.29
Endrin	10.77	10.74	10.80
4,4'-DDD	11.08	11.05	11.11
Endosulfan II	11.13	11.10	11.16
4,4'-DDT	11.56	11.54	11.60
Endrin aldehyde	11.69	11.66	11.72
Endosulfan sulfate	12.11	12.08	12.14
Methoxychlor	12.63	12.60	12.66
Endrin ketone	12.86	12.83	12.89

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D
Lims ID: ICV AB3
Client ID:
Sample Type: ICV
Inject. Date: 31-Mar-2015 22:53:01 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042076-031
Operator ID: 430893 Instrument ID: A2HP3
Sublist:

Method: \\NCChrom\ChromData\A2HP3\20150331-42076.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 02-Apr-2015 08:54:24 Calib Date: 31-Mar-2015 22:29:58
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033130.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK054

First Level Reviewer: shockr Date: 02-Apr-2015 15:32:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 alpha-BHC							
1	4.301	4.301	0.000	44879358	25.0	25.9	
2	5.198	5.199	-0.001	50737027	25.0	25.9	
						RPD = 0.02	
5 gamma-BHC (Lindane)							
1	4.695	4.695	0.000	39436605	25.0	25.5	
2	5.837	5.837	0.000	45112830	25.0	25.5	
						RPD = 0.20	
6 beta-BHC							
1	4.835	4.835	0.000	15637116	25.0	24.8	
2	6.039	6.040	-0.001	19020835	25.0	24.8	
						RPD = 0.29	
7 delta-BHC							
1	5.063	5.062	0.001	36872618	25.0	24.5	
2	6.681	6.681	0.000	44536005	25.0	25.1	
						RPD = 2.29	
9 Heptachlor							
1	5.355	5.356	-0.001	37476200	25.0	25.7	
2	6.764	6.765	-0.001	43127307	25.0	25.5	
						RPD = 0.67	
10 Aldrin							
1	5.831	5.833	-0.002	37976852	25.0	26.0	
2	7.584	7.585	-0.001	43002022	25.0	25.7	
						RPD = 1.01	
12 Heptachlor epoxide							
1	7.139	7.141	-0.002	32916451	25.0	25.2	
2	8.992	8.992	0.000	36524385	25.0	25.4	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
13 gamma-Chlordane							
1	7.459	7.462	-0.003	33930076	25.0	25.1	
2	9.381	9.381	0.000	37272758	25.0	25.3	
						RPD = 0.85	
14 alpha-Chlordane							
1	7.799	7.799	0.000	33715682	25.0	25.2	
2	9.676	9.676	0.000	36113014	25.0	25.4	
						RPD = 0.87	
15 Endosulfan I							
1	8.069	8.068	0.001	30100325	25.0	24.5	
2	9.746	9.746	0.000	32598160	25.0	24.7	
						RPD = 0.59	
16 4,4'-DDE							
1	8.166	8.166	0.000	29034811	25.0	24.5	
2	10.097	10.096	0.001	33335661	25.0	25.2	
						RPD = 2.96	
17 Dieldrin							
1	8.613	8.614	-0.001	33456492	25.0	25.6	
2	10.256	10.256	0.000	35043674	25.0	25.6	
						RPD = 0.11	
18 Endrin							
1	9.060	9.061	-0.001	28974803	25.0	25.2	
2	10.768	10.768	0.000	30071663	25.0	24.9	
						RPD = 0.88	
20 4,4'-DDD							
1	9.417	9.415	0.002	20490111	25.0	23.5	
2	11.084	11.083	0.001	24146438	25.0	24.7	
						RPD = 4.70	
21 Endosulfan II							
1	9.507	9.507	0.000	29035012	25.0	25.1	
2	11.134	11.134	0.000	29251300	25.0	25.0	
						RPD = 0.34	
23 4,4'-DDT							
1	9.924	9.924	0.000	23636070	25.0	24.7	
2	11.564	11.565	-0.001	24551771	25.0	24.6	
						RPD = 0.58	
25 Endrin aldehyde							
1	10.294	10.296	-0.002	21718197	25.0	24.4	
2	11.689	11.690	-0.001	22384198	25.0	24.0	
						RPD = 1.70	
27 Methoxychlor							
1	10.869	10.868	0.001	11386945	25.0	24.8	
2	12.628	12.628	0.000	12122347	25.0	24.8	
						RPD = 0.28	
28 Endosulfan sulfate							
1	11.015	11.015	0.000	25078855	25.0	25.2	
2	12.110	12.110	0.000	26415051	25.0	24.9	
						RPD = 0.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Endrin ketone							
1	11.414	11.414	0.000	29615910	25.0	24.2	
2	12.856	12.856	0.000	29229119	25.0	23.8	
						RPD = 1.80	

Reagents:

SGPESTABCV_00017 Amount Added: 1.00 Units: mL

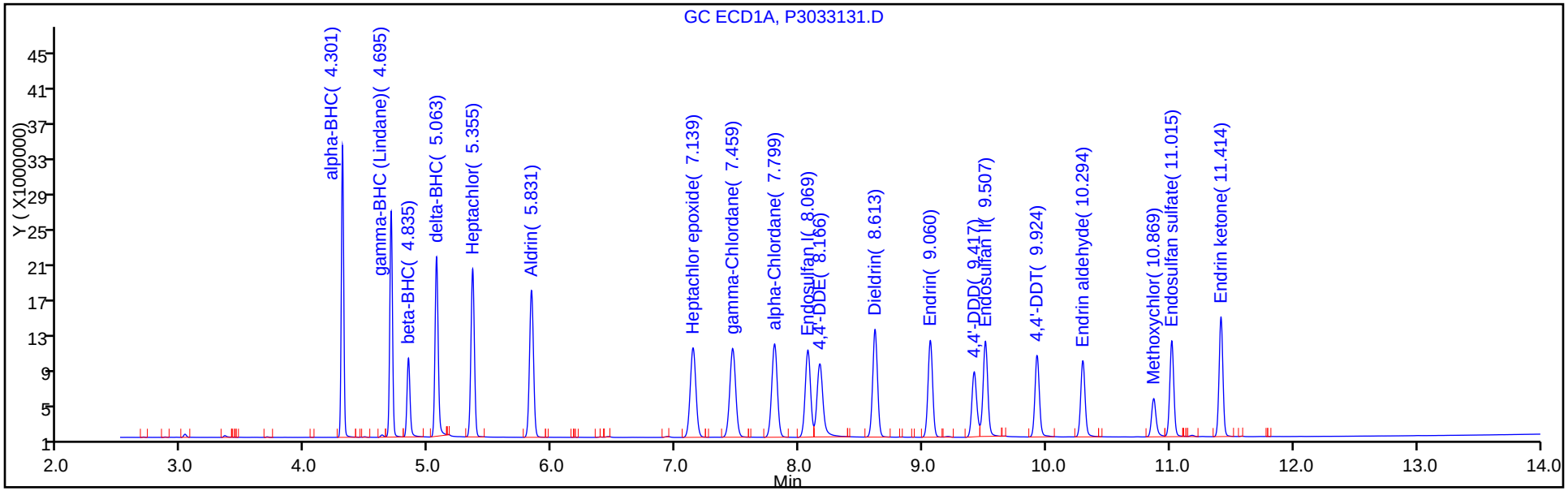
Report Date: 02-Apr-2015 15:32:12 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Canton

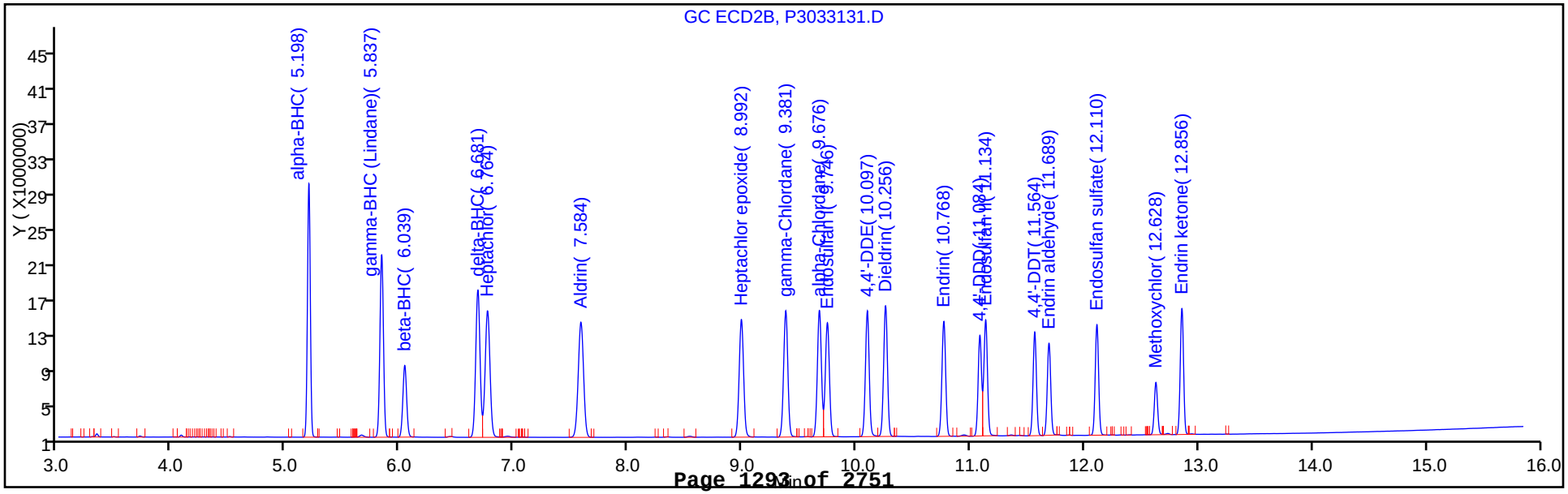
Data File: \\NCChrom\ChromData\A2HP3\20150331-42076.b\P3033131.D

Injection Date:	31-Mar-2015 22:53:01	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	ICV AB3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	41315		1090	1000	9.2	20.0
Toxaphene Peak 2	Ave	36644	38859		1060	1000	6.0	20.0
Toxaphene Peak 3	Ave	23355	24547		1050	1000	5.1	20.0
Toxaphene Peak 4	Ave	33176	35156		1060	1000	6.0	20.0
Toxaphene Peak 5	Ave	32330	33684		1040	1000	4.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.62	9.59	9.65
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.39	10.36	10.42
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.84	10.81	10.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 15:32:24 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:37 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:18:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.622	9.622	0.000	41314691	1000.0	1092.0	M
1	10.081	10.081	0.000	38859344	1000.0	1060.5	M
1	10.393	10.393	0.000	24547309	1000.0	1051.1	M
1	10.735	10.735	0.000	35155538	1000.0	1059.7	M
1	10.840	10.840	0.000	33684015	1000.0	1041.9	M
		Average of Peak Amounts =				1061.0	
2	11.025	11.025	0.000	53616903	1000.0	1034.6	M
2	11.195	11.195	0.000	53467893	1000.0	1049.1	M
2	11.618	11.618	0.000	36878172	1000.0	1034.7	M
2	12.353	12.353	0.000	46136479	1000.0	1011.1	M
2	12.444	12.444	0.000	15246591	1000.0	979.2	M
		Average of Peak Amounts =				1021.8	
						RPD = 3.77	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

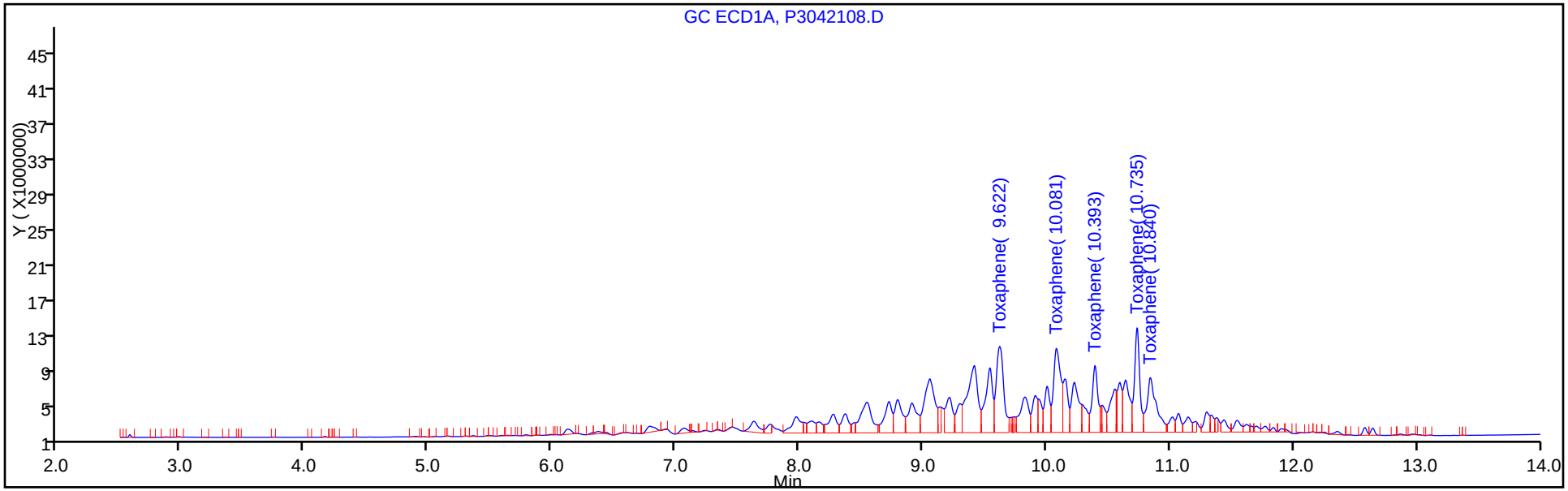
Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

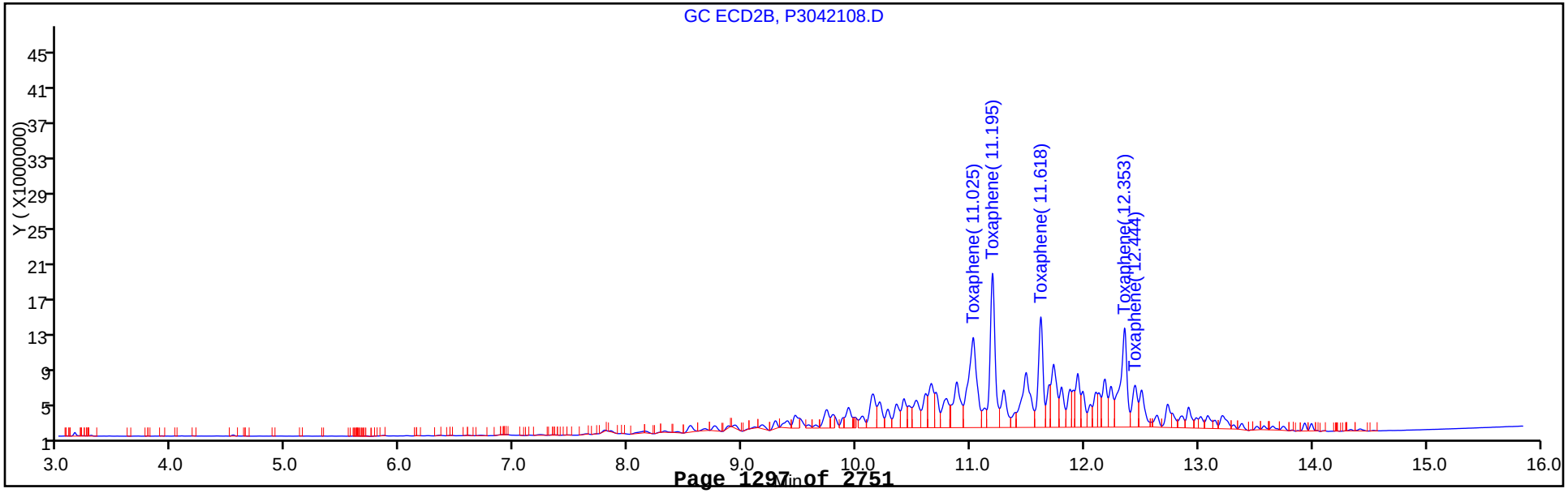
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date:	21-Apr-2015 15:32:24	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date: 21-Apr-2015 15:32:24 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

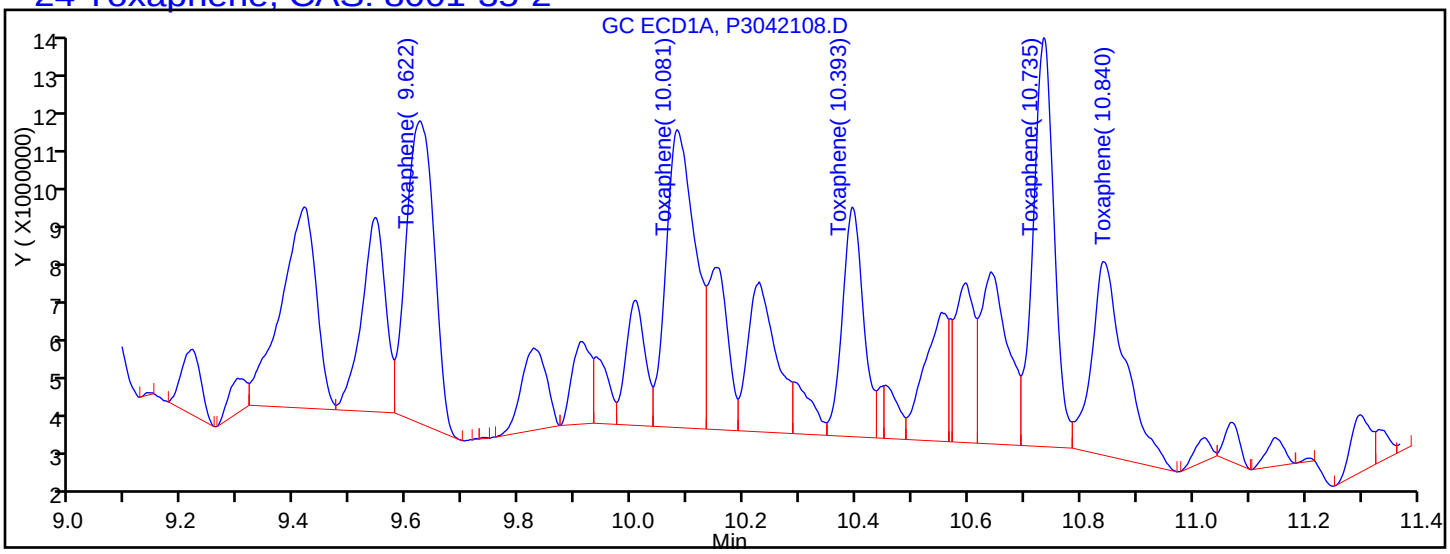
Operator ID: 430893 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

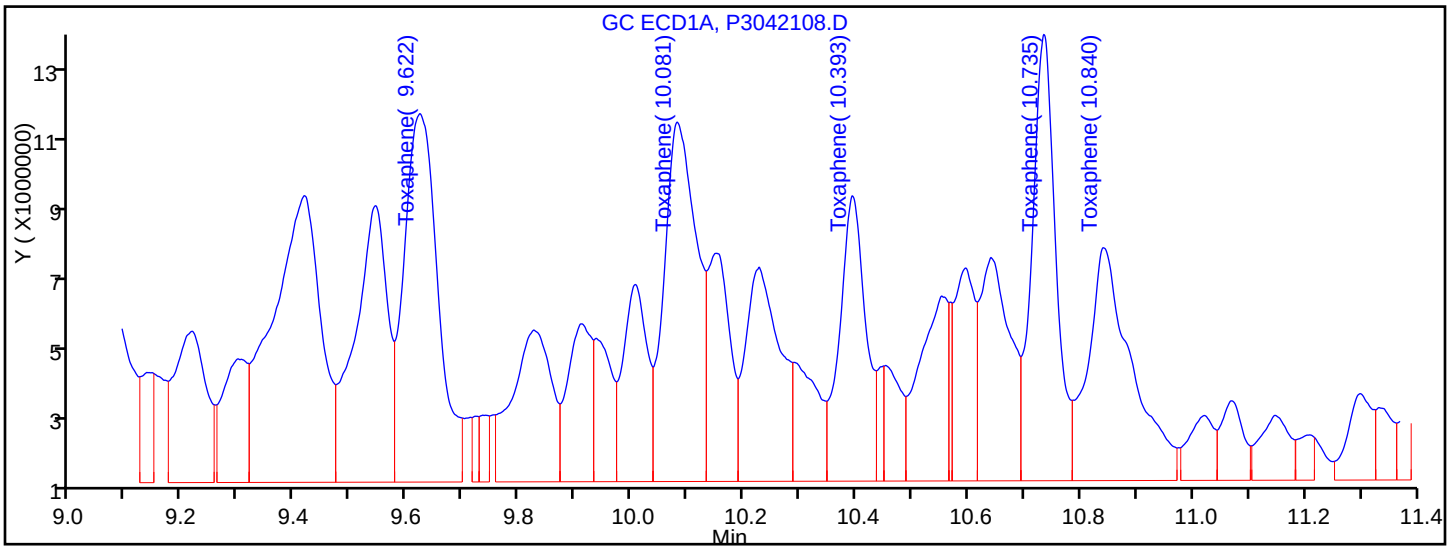
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.622	Response = 26531778	M
RT = 10.081	Response = 27431614	M
RT = 10.393	Response = 15173978	M
RT = 10.735	Response = 26901276	M
RT = 10.840	Response = 20666479	M



Manual Integration Results

RT = 9.622	Response = 41314691	M
RT = 10.081	Response = 38859344	M
RT = 10.393	Response = 24547309	M
RT = 10.735	Response = 35155538	M
RT = 10.840	Response = 33684015	M

Reviewer: matthewsb, 22-Apr-2015 07:18:40

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	53617		1030	1000	3.5	20.0
Toxaphene Peak 2	Ave	50965	53468		1050	1000	4.9	20.0
Toxaphene Peak 3	Ave	35641	36878		1030	1000	3.5	20.0
Toxaphene Peak 4	Ave	45629	46136		1010	1000	1.1	20.0
Toxaphene Peak 5	Ave	15570	15247		979	1000	-2.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/8 Calibration Date: 04/21/2015 15:32

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042108.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 15:32:24 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:37 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:18:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.622	9.622	0.000	41314691	1000.0	1092.0	M
1	10.081	10.081	0.000	38859344	1000.0	1060.5	M
1	10.393	10.393	0.000	24547309	1000.0	1051.1	M
1	10.735	10.735	0.000	35155538	1000.0	1059.7	M
1	10.840	10.840	0.000	33684015	1000.0	1041.9	M
		Average of Peak Amounts =				1061.0	
2	11.025	11.025	0.000	53616903	1000.0	1034.6	M
2	11.195	11.195	0.000	53467893	1000.0	1049.1	M
2	11.618	11.618	0.000	36878172	1000.0	1034.7	M
2	12.353	12.353	0.000	46136479	1000.0	1011.1	M
2	12.444	12.444	0.000	15246591	1000.0	979.2	M
		Average of Peak Amounts =				1021.8	
						RPD = 3.77	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

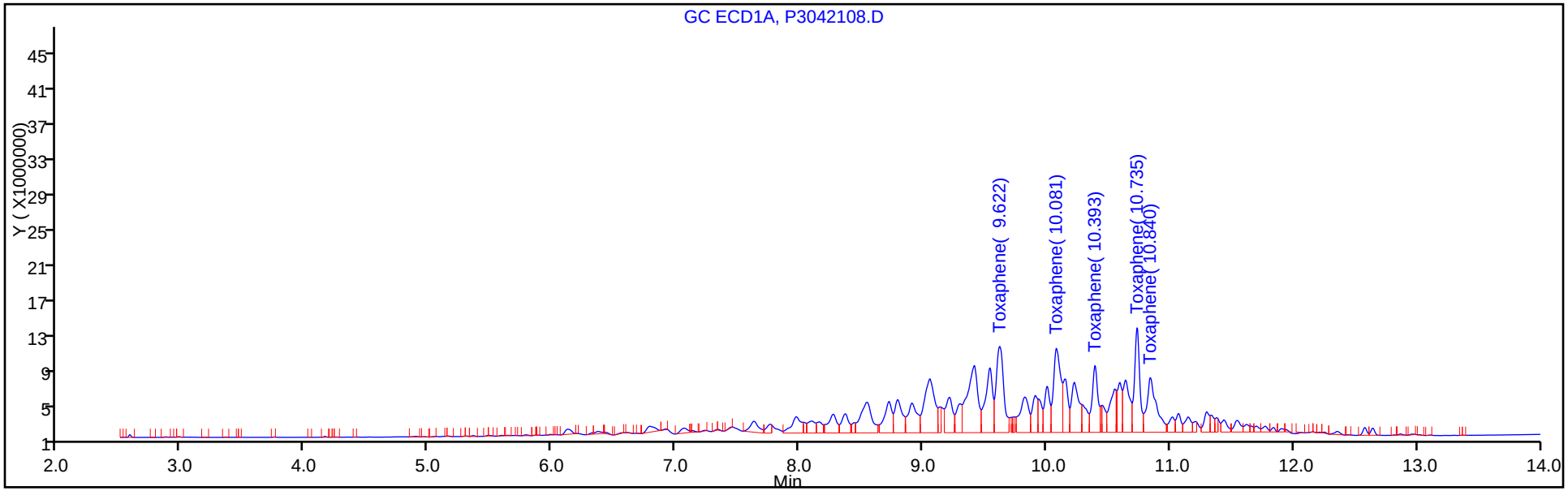
Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

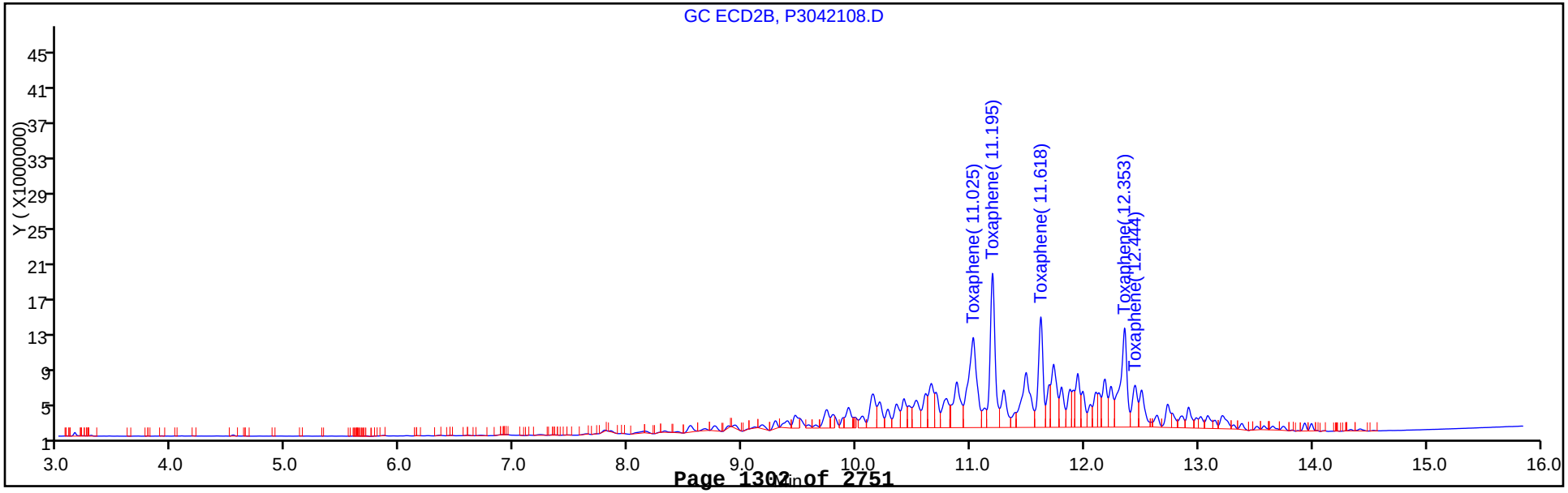
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date:	21-Apr-2015 15:32:24	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:38 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042108.D

Injection Date: 21-Apr-2015 15:32:24 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

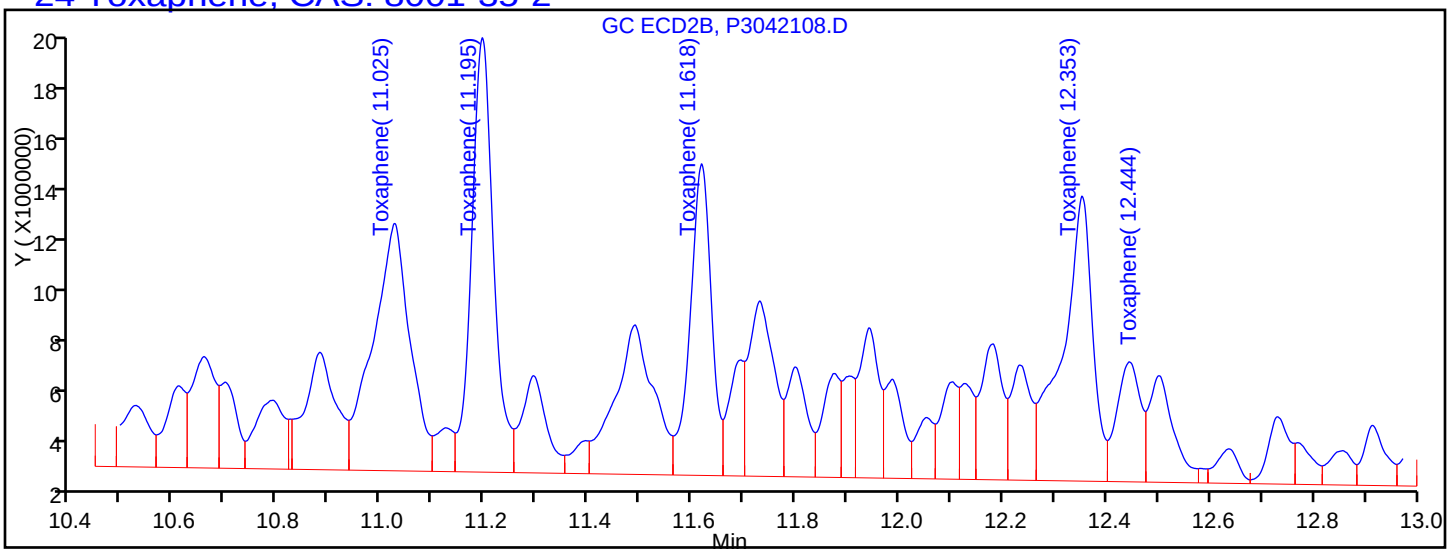
Operator ID: 430893 ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

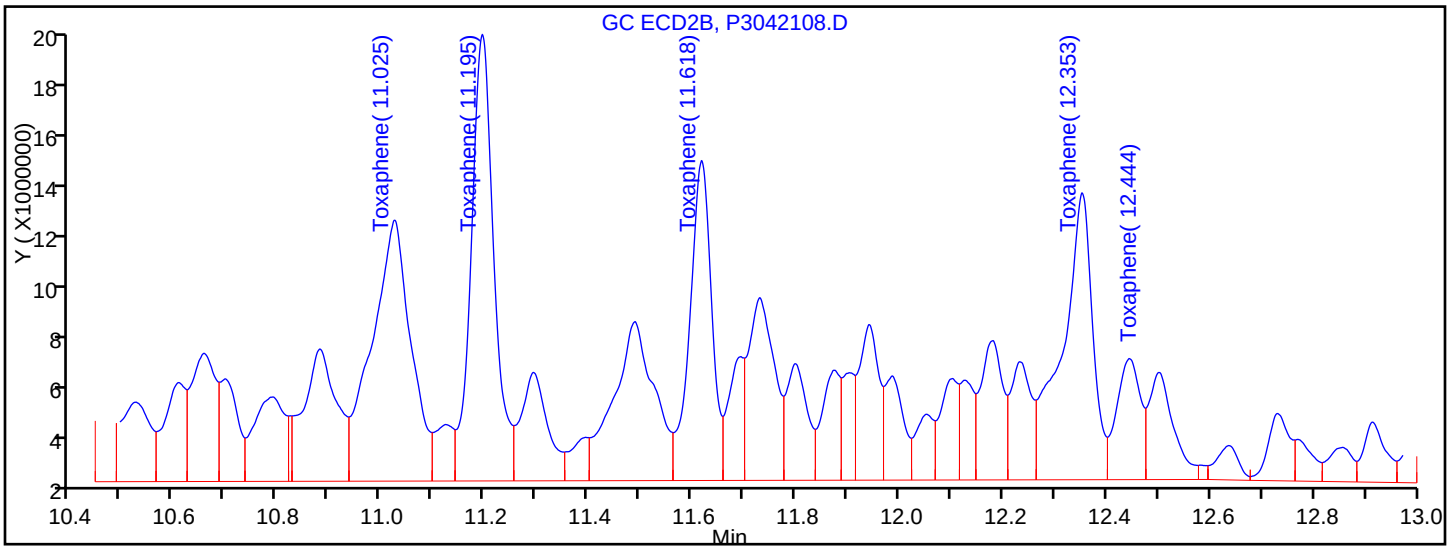
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.025	Response = 48466481	M
RT = 11.195	Response = 50262934	M
RT = 11.618	Response = 34968258	M
RT = 12.353	Response = 45470836	M
RT = 12.444	Response = 15049699	M



Manual Integration Results

RT = 11.025	Response = 53616903	M
RT = 11.195	Response = 53467893	M
RT = 11.618	Response = 36878172	M
RT = 12.353	Response = 46136479	M
RT = 12.444	Response = 15246591	M

Reviewer: matthewsb, 22-Apr-2015 07:18:40

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1808791		26.1	25.0	4.4	20.0
gamma-BHC (Lindane)	Ave	1543740	1564381		25.3	25.0	1.3	20.0
beta-BHC	Ave	629842	597873		23.7	25.0	-5.1	20.0
delta-BHC	Ave	1502830	1271193		21.1	25.0	-15.4	20.0
Heptachlor	Ave	1459223	1499733		25.7	25.0	2.8	20.0
Aldrin	Ave	1461888	1520551		26.0	25.0	4.0	20.0
Heptachlor epoxide	Ave	1303871	1271782		24.4	25.0	-2.5	20.0
gamma-Chlordane	Ave	1350629	1280427		23.7	25.0	-5.2	20.0
alpha-Chlordane	Ave	1337609	1283749		24.0	25.0	-4.0	20.0
Endosulfan I	Ave	1227519	1128400		23.0	25.0	-8.1	20.0
4,4'-DDE	Ave	1184677	928159		19.6	25.0	-21.7*	20.0
Dieldrin	Ave	1307595	1193810		22.8	25.0	-8.7	20.0
Endrin	Ave	1151386	984908		21.4	25.0	-14.5	20.0
4,4'-DDD	Ave	870416	527167		15.1	25.0	-39.4*	20.0
Endosulfan II	Ave	1156896	1063646		23.0	25.0	-8.1	20.0
4,4'-DDT	Ave	955198	696811		18.2	25.0	-27.1*	20.0
Endrin aldehyde	Ave	890839	721739		20.3	25.0	-19.0	20.0
Methoxychlor	Ave	458228	326836		17.8	25.0	-28.7*	20.0
Endosulfan sulfate	Ave	996194	861303		21.6	25.0	-13.5	20.0
Endrin ketone	Ave	1221980	1036944		21.2	25.0	-15.1	20.0
Tetrachloro-m-xylene	Ave	983528	1058121		26.9	25.0	7.6	20.0
DCB Decachlorobiphenyl	Ave	936456	736909		19.7	25.0	-21.3*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.07	8.04	8.10
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.34	9.31	9.37
Endosulfan II	9.42	9.39	9.45
4,4'-DDT	9.85	9.82	9.88
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.80	10.77	10.83
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.34	11.31	11.37
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 16:19:17 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-010
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:42 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.556	0.000	26453014	25.0	26.9	
2	4.234	4.234	0.000	30747869	25.0	27.3	
						RPD = 1.43	
4 alpha-BHC							
1	4.252	4.252	0.000	45219784	25.0	26.1	
2	5.127	5.127	0.000	52058366	25.0	26.6	
						RPD = 1.83	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	39109531	25.0	25.3	
2	5.750	5.750	0.000	45624379	25.0	25.8	
						RPD = 1.76	
6 beta-BHC							
1	4.779	4.779	0.000	14946815	25.0	23.7	
2	5.949	5.949	0.000	18864703	25.0	24.6	
						RPD = 3.40	
7 delta-BHC							
1	5.001	5.001	0.000	31779836	25.0	21.1	
2	6.572	6.572	0.000	40399794	25.0	22.8	
						RPD = 7.40	
9 Heptachlor							
1	5.285	5.285	0.000	37493329	25.0	25.7	
2	6.652	6.652	0.000	44442253	25.0	26.3	
						RPD = 2.29	
10 Aldrin							
1	5.751	5.751	0.000	38013765	25.0	26.0	
2	7.457	7.457	0.000	43800899	25.0	26.2	
						RPD = 0.73	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.026	7.026	0.000	31794557	25.0	24.4	
2	8.889	8.889	0.000	36139374	25.0	25.2	
						RPD = 3.20	
13 gamma-Chlordane							
1	7.341	7.341	0.000	32010675	25.0	23.7	
2	9.284	9.284	0.000	36311278	25.0	24.7	
						RPD = 4.06	
14 alpha-Chlordane							
1	7.688	7.688	0.000	32093726	25.0	24.0	
2	9.583	9.583	0.000	35269381	25.0	24.8	
						RPD = 3.43	
15 Endosulfan I							
1	7.960	7.960	0.000	28210000	25.0	23.0	
2	9.652	9.652	0.000	31721257	25.0	24.0	
						RPD = 4.35	
16 4,4'-DDE							
1	8.067	8.067	0.000	23203976	25.0	19.6	
2	10.011	10.011	0.000	27828661	25.0	21.1	
						RPD = 7.32	
17 Dieldrin							
1	8.512	8.512	0.000	29845262	25.0	22.8	
2	10.166	10.166	0.000	32363640	25.0	23.7	
						RPD = 3.58	
18 Endrin							
1	8.964	8.964	0.000	24622711	25.0	21.4	
2	10.679	10.679	0.000	25668396	25.0	21.3	
						RPD = 0.44	
20 4,4'-DDD							
1	9.335	9.335	0.000	13179172	25.0	15.1	
2	11.006	11.006	0.000	16261445	25.0	16.6	
						RPD = 9.29	
21 Endosulfan II							
1	9.415	9.415	0.000	26591144	25.0	23.0	
2	11.049	11.049	0.000	29180565	25.0	25.0	
						RPD = 8.21	
23 4,4'-DDT							
1	9.845	9.845	0.000	17420270	25.0	18.2	
2	11.487	11.487	0.000	18378524	25.0	18.4	
						RPD = 0.97	
25 Endrin aldehyde							
1	10.212	10.212	0.000	18043484	25.0	20.3	
2	11.609	11.609	0.000	18771669	25.0	20.1	
						RPD = 0.76	
27 Methoxychlor							
1	10.798	10.798	0.000	8170907	25.0	17.8	
2	12.555	12.555	0.000	8932806	25.0	18.3	
						RPD = 2.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.934	10.934	0.000	21532581	25.0	21.6	
2	12.030	12.030	0.000	22397188	25.0	21.1	
						RPD = 2.19	
29 Endrin ketone							
1	11.336	11.336	0.000	25923610	25.0	21.2	
2	12.775	12.775	0.000	25860007	25.0	21.1	
						RPD = 0.73	
$ 30 DCB Decachlorobiphenyl							
1	12.942	12.942	0.000	18422726	25.0	19.7	
2	14.494	14.494	0.000	19918645	25.0	19.6	
						RPD = 0.54	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

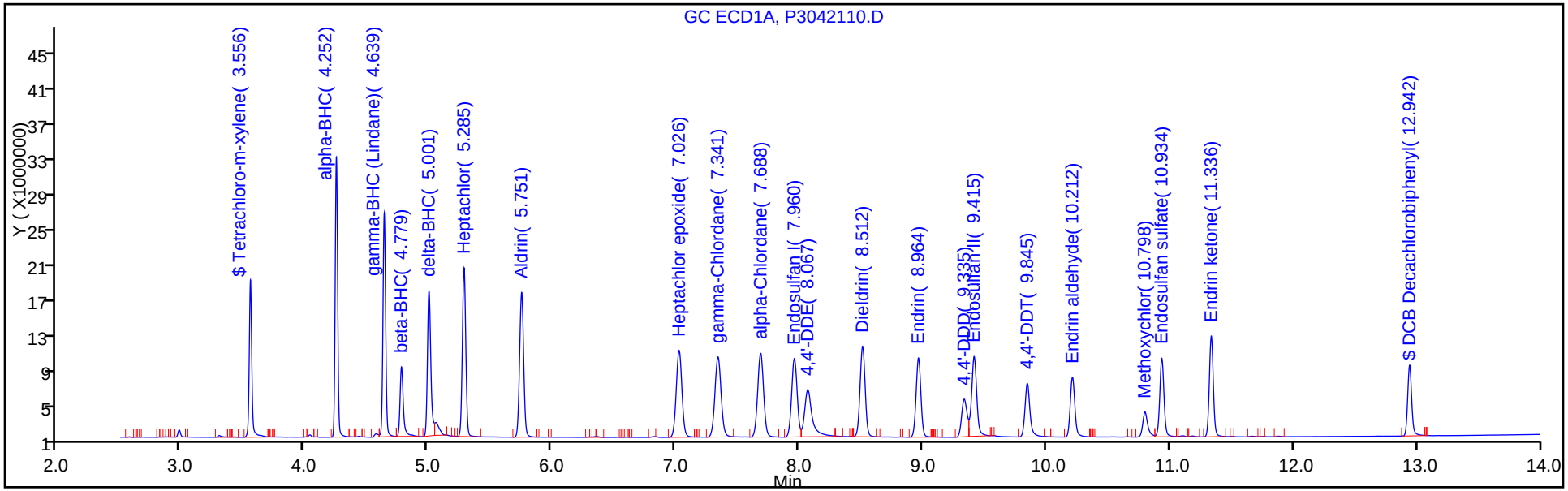
Report Date: 22-Apr-2015 08:58:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

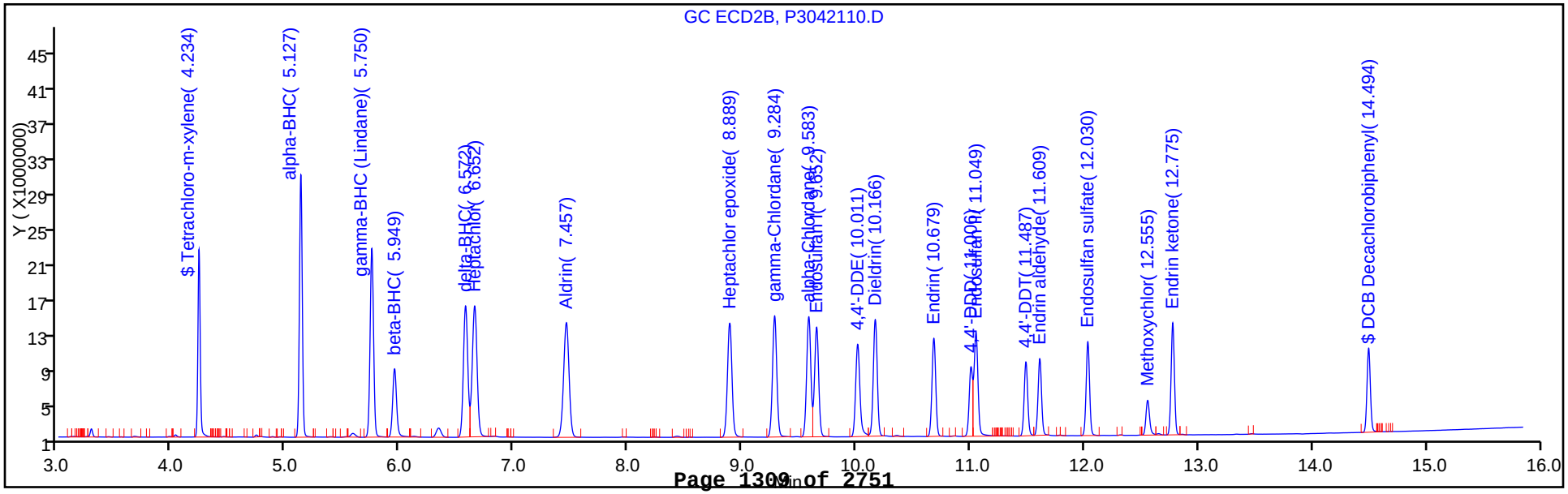
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D

Injection Date:	21-Apr-2015 16:19:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2082335		26.6	25.0	6.4	20.0
gamma-BHC (Lindane)	Ave	1769514	1824975		25.8	25.0	3.1	20.0
beta-BHC	Ave	768367	754588		24.6	25.0	-1.8	20.0
delta-BHC	Ave	1774158	1615992		22.8	25.0	-8.9	20.0
Heptachlor	Ave	1690527	1777690		26.3	25.0	5.2	20.0
Aldrin	Ave	1672196	1752036		26.2	25.0	4.8	20.0
Heptachlor epoxide	Ave	1435426	1445575		25.2	25.0	0.7	20.0
gamma-Chlordane	Ave	1471152	1452451		24.7	25.0	-1.3	20.0
alpha-Chlordane	Ave	1420369	1410775		24.8	25.0	-0.7	20.0
Endosulfan I	Ave	1321597	1268850		24.0	25.0	-4.0	20.0
4,4'-DDE	Ave	1320422	1113146		21.1	25.0	-15.7	20.0
Dieldrin	Ave	1368089	1294546		23.7	25.0	-5.4	20.0
Endrin	Ave	1205577	1026736		21.3	25.0	-14.8	20.0
4,4'-DDD	Ave	978644	650458		16.6	25.0	-33.5*	20.0
Endosulfan II	Ave	1169425	1167223		25.0	25.0	-0.2	20.0
4,4'-DDT	Ave	997996	735141		18.4	25.0	-26.3*	20.0
Endrin aldehyde	Ave	933862	750867		20.1	25.0	-19.6	20.0
Endosulfan sulfate	Ave	1059131	895888		21.1	25.0	-15.4	20.0
Methoxychlor	Ave	489196	357312		18.3	25.0	-27.0*	20.0
Endrin ketone	Ave	1227876	1034400		21.1	25.0	-15.8	20.0
Tetrachloro-m-xylene	Ave	1127022	1229915		27.3	25.0	9.1	20.0
DCB Decachlorobiphenyl	Ave	1017987	796746		19.6	25.0	-21.7*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/10 Calibration Date: 04/21/2015 16:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042110.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.28	9.25	9.31
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.56	12.53	12.59
Endrin ketone	12.78	12.75	12.81
Tetrachloro-m-xylene	4.23	4.20	4.26
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Apr-2015 16:19:17 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-010
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:42 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.556	0.000	26453014	25.0	26.9	
2	4.234	4.234	0.000	30747869	25.0	27.3	
						RPD = 1.43	
4 alpha-BHC							
1	4.252	4.252	0.000	45219784	25.0	26.1	
2	5.127	5.127	0.000	52058366	25.0	26.6	
						RPD = 1.83	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	39109531	25.0	25.3	
2	5.750	5.750	0.000	45624379	25.0	25.8	
						RPD = 1.76	
6 beta-BHC							
1	4.779	4.779	0.000	14946815	25.0	23.7	
2	5.949	5.949	0.000	18864703	25.0	24.6	
						RPD = 3.40	
7 delta-BHC							
1	5.001	5.001	0.000	31779836	25.0	21.1	
2	6.572	6.572	0.000	40399794	25.0	22.8	
						RPD = 7.40	
9 Heptachlor							
1	5.285	5.285	0.000	37493329	25.0	25.7	
2	6.652	6.652	0.000	44442253	25.0	26.3	
						RPD = 2.29	
10 Aldrin							
1	5.751	5.751	0.000	38013765	25.0	26.0	
2	7.457	7.457	0.000	43800899	25.0	26.2	
						RPD = 0.73	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.026	7.026	0.000	31794557	25.0	24.4	
2	8.889	8.889	0.000	36139374	25.0	25.2	
						RPD = 3.20	
13 gamma-Chlordane							
1	7.341	7.341	0.000	32010675	25.0	23.7	
2	9.284	9.284	0.000	36311278	25.0	24.7	
						RPD = 4.06	
14 alpha-Chlordane							
1	7.688	7.688	0.000	32093726	25.0	24.0	
2	9.583	9.583	0.000	35269381	25.0	24.8	
						RPD = 3.43	
15 Endosulfan I							
1	7.960	7.960	0.000	28210000	25.0	23.0	
2	9.652	9.652	0.000	31721257	25.0	24.0	
						RPD = 4.35	
16 4,4'-DDE							
1	8.067	8.067	0.000	23203976	25.0	19.6	
2	10.011	10.011	0.000	27828661	25.0	21.1	
						RPD = 7.32	
17 Dieldrin							
1	8.512	8.512	0.000	29845262	25.0	22.8	
2	10.166	10.166	0.000	32363640	25.0	23.7	
						RPD = 3.58	
18 Endrin							
1	8.964	8.964	0.000	24622711	25.0	21.4	
2	10.679	10.679	0.000	25668396	25.0	21.3	
						RPD = 0.44	
20 4,4'-DDD							
1	9.335	9.335	0.000	13179172	25.0	15.1	
2	11.006	11.006	0.000	16261445	25.0	16.6	
						RPD = 9.29	
21 Endosulfan II							
1	9.415	9.415	0.000	26591144	25.0	23.0	
2	11.049	11.049	0.000	29180565	25.0	25.0	
						RPD = 8.21	
23 4,4'-DDT							
1	9.845	9.845	0.000	17420270	25.0	18.2	
2	11.487	11.487	0.000	18378524	25.0	18.4	
						RPD = 0.97	
25 Endrin aldehyde							
1	10.212	10.212	0.000	18043484	25.0	20.3	
2	11.609	11.609	0.000	18771669	25.0	20.1	
						RPD = 0.76	
27 Methoxychlor							
1	10.798	10.798	0.000	8170907	25.0	17.8	
2	12.555	12.555	0.000	8932806	25.0	18.3	
						RPD = 2.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.934	10.934	0.000	21532581	25.0	21.6	
2	12.030	12.030	0.000	22397188	25.0	21.1	
						RPD = 2.19	
29 Endrin ketone							
1	11.336	11.336	0.000	25923610	25.0	21.2	
2	12.775	12.775	0.000	25860007	25.0	21.1	
						RPD = 0.73	
$ 30 DCB Decachlorobiphenyl							
1	12.942	12.942	0.000	18422726	25.0	19.7	
2	14.494	14.494	0.000	19918645	25.0	19.6	
						RPD = 0.54	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

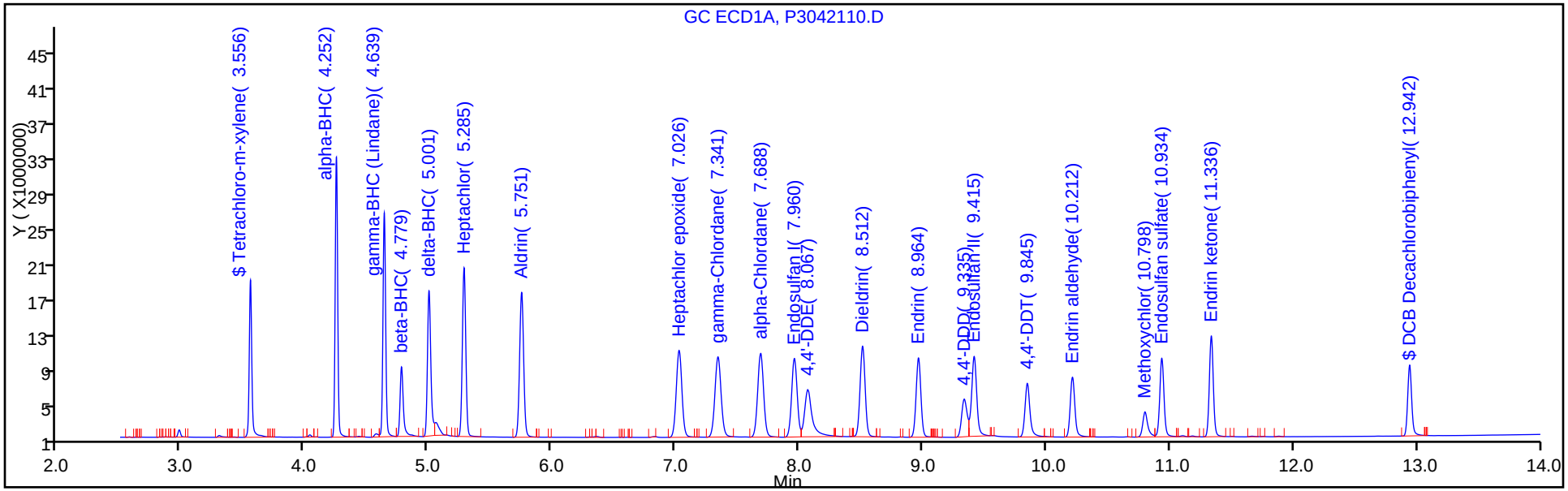
Report Date: 22-Apr-2015 08:58:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

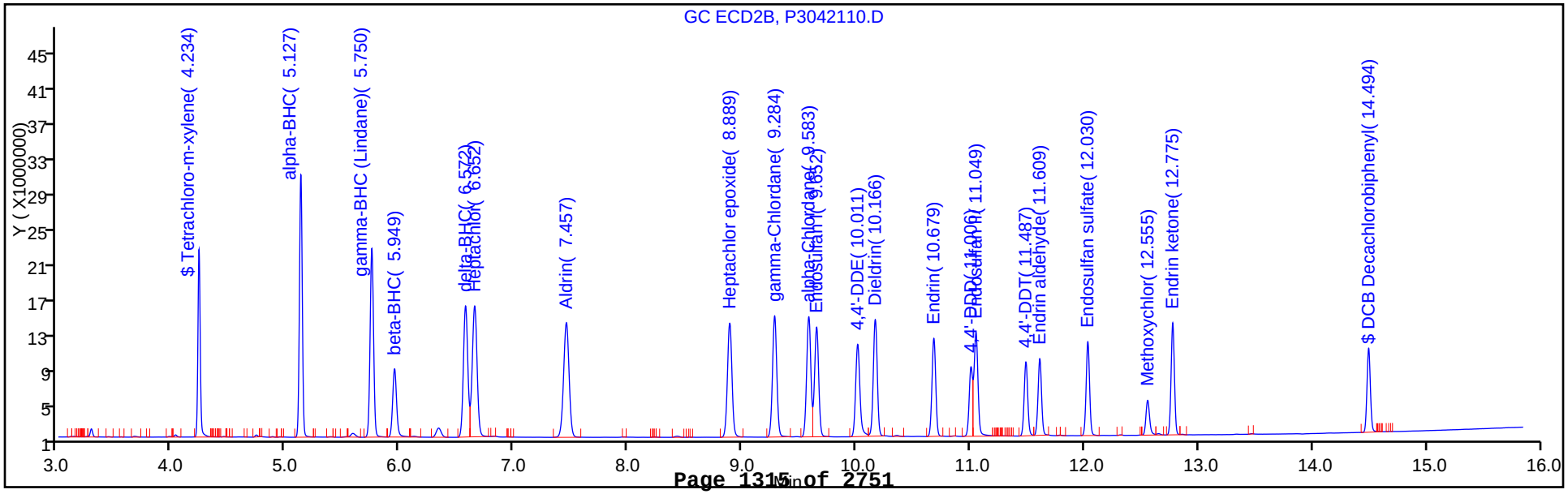
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042110.D

Injection Date:	21-Apr-2015 16:19:17	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/28 Calibration Date: 04/21/2015 23:12

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042128.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	2094656		30.2	25.0	20.9*	20.0
gamma-BHC (Lindane)	Ave	1543740	1855916		30.1	25.0	20.2*	20.0
beta-BHC	Ave	629842	728496		28.9	25.0	15.7	20.0
delta-BHC	Ave	1502830	1723183		28.7	25.0	14.7	20.0
Heptachlor	Ave	1459223	1830635		31.4	25.0	25.5*	20.0
Aldrin	Ave	1461888	1715145		29.3	25.0	17.3	20.0
Heptachlor epoxide	Ave	1303871	1542541		29.6	25.0	18.3	20.0
gamma-Chlordane	Ave	1350629	1542295		28.5	25.0	14.2	20.0
alpha-Chlordane	Ave	1337609	1534091		28.7	25.0	14.7	20.0
Endosulfan I	Ave	1227519	1441110		29.4	25.0	17.4	20.0
4,4'-DDE	Ave	1184677	1384857		29.2	25.0	16.9	20.0
Dieldrin	Ave	1307595	1540397		29.5	25.0	17.8	20.0
Endrin	Ave	1151386	1371088		29.8	25.0	19.1	20.0
4,4'-DDD	Ave	870416	1059121		30.4	25.0	21.7*	20.0
Endosulfan II	Ave	1156896	1371355		29.6	25.0	18.5	20.0
4,4'-DDT	Ave	955198	976904		25.6	25.0	2.3	20.0
Endrin aldehyde	Ave	890839	1001073		28.1	25.0	12.4	20.0
Methoxychlor	Ave	458228	505155		27.6	25.0	10.2	20.0
Endosulfan sulfate	Ave	996194	1133016		28.4	25.0	13.7	20.0
Endrin ketone	Ave	1221980	1379122		28.2	25.0	12.9	20.0
Tetrachloro-m-xylene	Ave	983528	1174902		29.9	25.0	19.5	20.0
DCB Decachlorobiphenyl	Ave	936456	1013076		27.0	25.0	8.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/28 Calibration Date: 04/21/2015 23:12

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042128.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.28	5.25	5.31
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.02	6.99	7.05
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.68	7.65	7.71
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.06	8.03	8.09
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.33	9.30	9.36
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.79	10.76	10.82
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.33	11.30	11.36
Tetrachloro-m-xylene	3.55	3.52	3.58
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042128.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 21-Apr-2015 23:12:33 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-028
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	29372540	25.0	29.9	
2	4.235	4.235	0.000	33307438	25.0	29.6	
						RPD = 1.05	
4 alpha-BHC							
1	4.250	4.250	0.000	52366403	25.0	30.2	
2	5.129	5.129	0.000	59088560	25.0	30.2	
						RPD = 0.17	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	46397906	25.0	30.1	
2	5.752	5.752	0.000	53072803	25.0	30.0	
						RPD = 0.21	
6 beta-BHC							
1	4.776	4.776	0.000	18212393	25.0	28.9	
2	5.951	5.951	0.000	22349437	25.0	29.1	
						RPD = 0.59	
7 delta-BHC							
1	4.999	4.999	0.000	43079586	25.0	28.7	
2	6.574	6.574	0.000	50531970	25.0	28.5	
						RPD = 0.64	
9 Heptachlor							
1	5.284	5.284	0.000	45765884	25.0	31.4	
2	6.654	6.654	0.000	52672698	25.0	31.2	
						RPD = 0.66	
10 Aldrin							
1	5.750	5.750	0.000	42878620	25.0	29.3	
2	7.460	7.460	0.000	48903315	25.0	29.2	
						RPD = 0.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.023	7.023	0.000	38563522	25.0	29.6	
2	8.891	8.891	0.000	42603409	25.0	29.7	
						RPD = 0.35	
13 gamma-Chlordane							
1	7.339	7.339	0.000	38557386	25.0	28.5	
2	9.285	9.285	0.000	41811373	25.0	28.4	
						RPD = 0.45	
14 alpha-Chlordane							
1	7.684	7.684	0.000	38352273	25.0	28.7	
2	9.584	9.584	0.000	40761131	25.0	28.7	
						RPD = 0.09	
15 Endosulfan I							
1	7.959	7.959	0.000	36027749	25.0	29.4	
2	9.653	9.653	0.000	38862369	25.0	29.4	
						RPD = 0.19	
16 4,4'-DDE							
1	8.057	8.057	0.000	34621414	25.0	29.2	
2	10.012	10.012	0.000	37989414	25.0	28.8	
						RPD = 1.56	
17 Dieldrin							
1	8.510	8.510	0.000	38509918	25.0	29.5	
2	10.168	10.168	0.000	39888194	25.0	29.2	
						RPD = 1.01	
18 Endrin							
1	8.963	8.963	0.000	34277193	25.0	29.8	
2	10.681	10.681	0.000	34635643	25.0	28.7	
						RPD = 3.56	
20 4,4'-DDD							
1	9.326	9.326	0.000	26478036	25.0	30.4	
2	11.006	11.006	0.000	28052306	25.0	28.7	
						RPD = 5.94	
21 Endosulfan II							
1	9.413	9.413	0.000	34283886	25.0	29.6	
2	11.051	11.051	0.000	34921959	25.0	29.9	
						RPD = 0.77	
23 4,4'-DDT							
1	9.840	9.840	0.000	24422608	25.0	25.6	
2	11.488	11.488	0.000	24371070	25.0	24.4	
						RPD = 4.59	
25 Endrin aldehyde							
1	10.209	10.209	0.000	25026829	25.0	28.1	
2	11.609	11.609	0.000	25393619	25.0	27.2	
						RPD = 3.26	
27 Methoxychlor							
1	10.792	10.792	0.000	12628865	25.0	27.6	
2	12.555	12.555	0.000	12398063	25.0	25.3	
						RPD = 8.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	28325390	25.0	28.4	
2	12.032	12.032	0.000	29169881	25.0	27.5	
						RPD = 3.19	
29 Endrin ketone							
1	11.334	11.334	0.000	34478041	25.0	28.2	
2	12.776	12.776	0.000	33703661	25.0	27.4	
						RPD = 2.75	
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.940	0.000	25326899	25.0	27.0	
2	14.493	14.493	0.000	27239369	25.0	26.8	
						RPD = 1.07	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

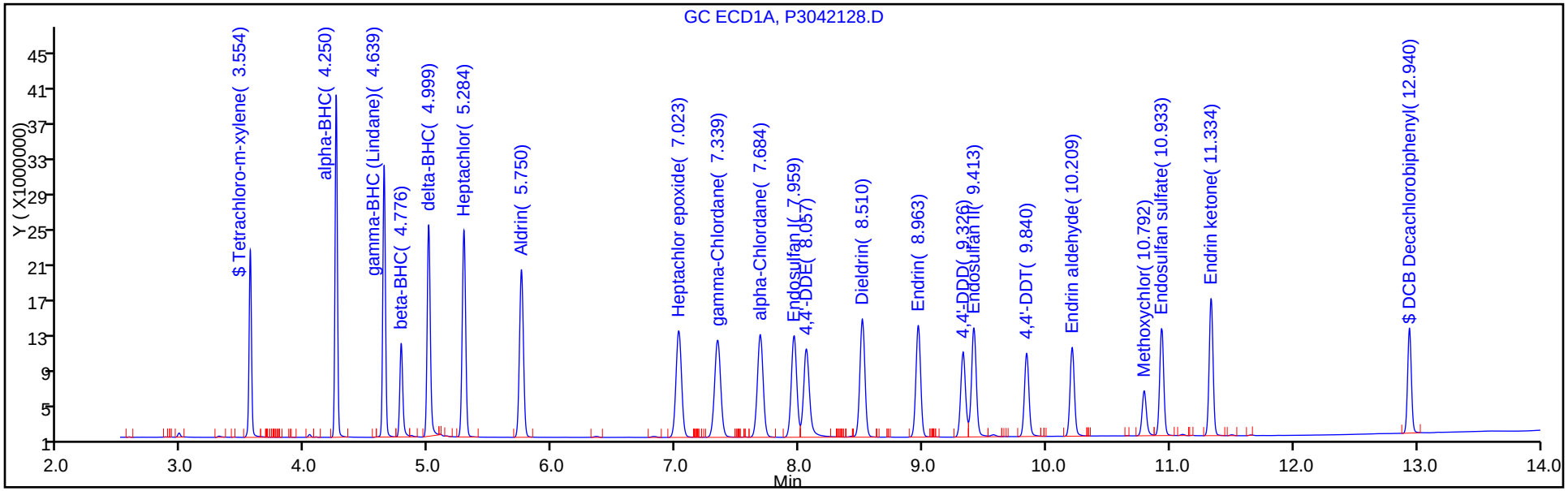
Report Date: 22-Apr-2015 08:57:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

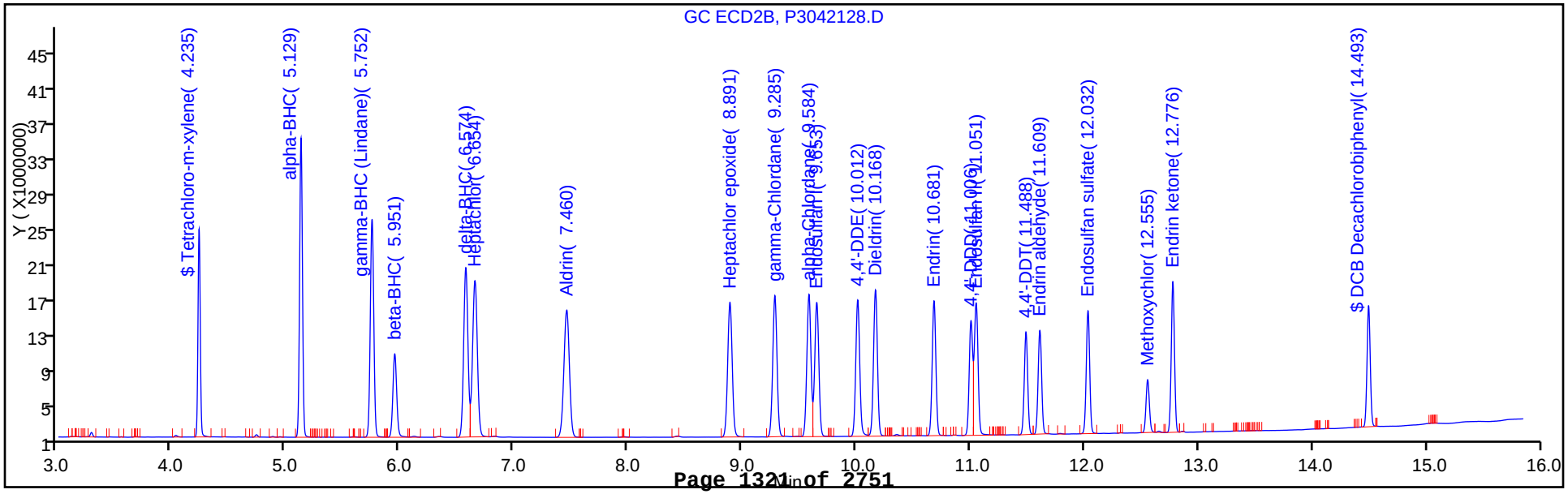
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042128.D

Injection Date:	21-Apr-2015 23:12:33	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/28 Calibration Date: 04/21/2015 23:12

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042128.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2363542		30.2	25.0	20.7*	20.0
gamma-BHC (Lindane)	Ave	1769514	2122912		30.0	25.0	20.0	20.0
beta-BHC	Ave	768367	893977		29.1	25.0	16.3	20.0
delta-BHC	Ave	1774158	2021279		28.5	25.0	13.9	20.0
Heptachlor	Ave	1690527	2106908		31.2	25.0	24.6*	20.0
Aldrin	Ave	1672196	1956133		29.2	25.0	17.0	20.0
Heptachlor epoxide	Ave	1435426	1704136		29.7	25.0	18.7	20.0
gamma-Chlordane	Ave	1471152	1672455		28.4	25.0	13.7	20.0
alpha-Chlordane	Ave	1420369	1630445		28.7	25.0	14.8	20.0
Endosulfan I	Ave	1321597	1554495		29.4	25.0	17.6	20.0
4,4'-DDE	Ave	1320422	1519577		28.8	25.0	15.1	20.0
Dieldrin	Ave	1368089	1595528		29.2	25.0	16.6	20.0
Endrin	Ave	1205577	1385426		28.7	25.0	14.9	20.0
4,4'-DDD	Ave	978644	1122092		28.7	25.0	14.7	20.0
Endosulfan II	Ave	1169425	1396878		29.9	25.0	19.5	20.0
4,4'-DDT	Ave	997996	974843		24.4	25.0	-2.3	20.0
Endrin aldehyde	Ave	933862	1015745		27.2	25.0	8.8	20.0
Endosulfan sulfate	Ave	1059131	1166795		27.5	25.0	10.2	20.0
Methoxychlor	Ave	489196	495923		25.3	25.0	1.4	20.0
Endrin ketone	Ave	1227876	1348146		27.4	25.0	9.8	20.0
Tetrachloro-m-xylene	Ave	1127022	1332298		29.6	25.0	18.2	20.0
DCB Decachlorobiphenyl	Ave	1017987	1089575		26.8	25.0	7.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/28 Calibration Date: 04/21/2015 23:12

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042128.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.29	9.26	9.32
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.56	12.53	12.59
Endrin ketone	12.78	12.75	12.81
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042128.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 21-Apr-2015 23:12:33 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-028
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	29372540	25.0	29.9	
2	4.235	4.235	0.000	33307438	25.0	29.6	
						RPD = 1.05	
4 alpha-BHC							
1	4.250	4.250	0.000	52366403	25.0	30.2	
2	5.129	5.129	0.000	59088560	25.0	30.2	
						RPD = 0.17	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	46397906	25.0	30.1	
2	5.752	5.752	0.000	53072803	25.0	30.0	
						RPD = 0.21	
6 beta-BHC							
1	4.776	4.776	0.000	18212393	25.0	28.9	
2	5.951	5.951	0.000	22349437	25.0	29.1	
						RPD = 0.59	
7 delta-BHC							
1	4.999	4.999	0.000	43079586	25.0	28.7	
2	6.574	6.574	0.000	50531970	25.0	28.5	
						RPD = 0.64	
9 Heptachlor							
1	5.284	5.284	0.000	45765884	25.0	31.4	
2	6.654	6.654	0.000	52672698	25.0	31.2	
						RPD = 0.66	
10 Aldrin							
1	5.750	5.750	0.000	42878620	25.0	29.3	
2	7.460	7.460	0.000	48903315	25.0	29.2	
						RPD = 0.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.023	7.023	0.000	38563522	25.0	29.6	
2	8.891	8.891	0.000	42603409	25.0	29.7	
						RPD = 0.35	
13 gamma-Chlordane							
1	7.339	7.339	0.000	38557386	25.0	28.5	
2	9.285	9.285	0.000	41811373	25.0	28.4	
						RPD = 0.45	
14 alpha-Chlordane							
1	7.684	7.684	0.000	38352273	25.0	28.7	
2	9.584	9.584	0.000	40761131	25.0	28.7	
						RPD = 0.09	
15 Endosulfan I							
1	7.959	7.959	0.000	36027749	25.0	29.4	
2	9.653	9.653	0.000	38862369	25.0	29.4	
						RPD = 0.19	
16 4,4'-DDE							
1	8.057	8.057	0.000	34621414	25.0	29.2	
2	10.012	10.012	0.000	37989414	25.0	28.8	
						RPD = 1.56	
17 Dieldrin							
1	8.510	8.510	0.000	38509918	25.0	29.5	
2	10.168	10.168	0.000	39888194	25.0	29.2	
						RPD = 1.01	
18 Endrin							
1	8.963	8.963	0.000	34277193	25.0	29.8	
2	10.681	10.681	0.000	34635643	25.0	28.7	
						RPD = 3.56	
20 4,4'-DDD							
1	9.326	9.326	0.000	26478036	25.0	30.4	
2	11.006	11.006	0.000	28052306	25.0	28.7	
						RPD = 5.94	
21 Endosulfan II							
1	9.413	9.413	0.000	34283886	25.0	29.6	
2	11.051	11.051	0.000	34921959	25.0	29.9	
						RPD = 0.77	
23 4,4'-DDT							
1	9.840	9.840	0.000	24422608	25.0	25.6	
2	11.488	11.488	0.000	24371070	25.0	24.4	
						RPD = 4.59	
25 Endrin aldehyde							
1	10.209	10.209	0.000	25026829	25.0	28.1	
2	11.609	11.609	0.000	25393619	25.0	27.2	
						RPD = 3.26	
27 Methoxychlor							
1	10.792	10.792	0.000	12628865	25.0	27.6	
2	12.555	12.555	0.000	12398063	25.0	25.3	
						RPD = 8.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	28325390	25.0	28.4	
2	12.032	12.032	0.000	29169881	25.0	27.5	
						RPD = 3.19	
29 Endrin ketone							
1	11.334	11.334	0.000	34478041	25.0	28.2	
2	12.776	12.776	0.000	33703661	25.0	27.4	
						RPD = 2.75	
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.940	0.000	25326899	25.0	27.0	
2	14.493	14.493	0.000	27239369	25.0	26.8	
						RPD = 1.07	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

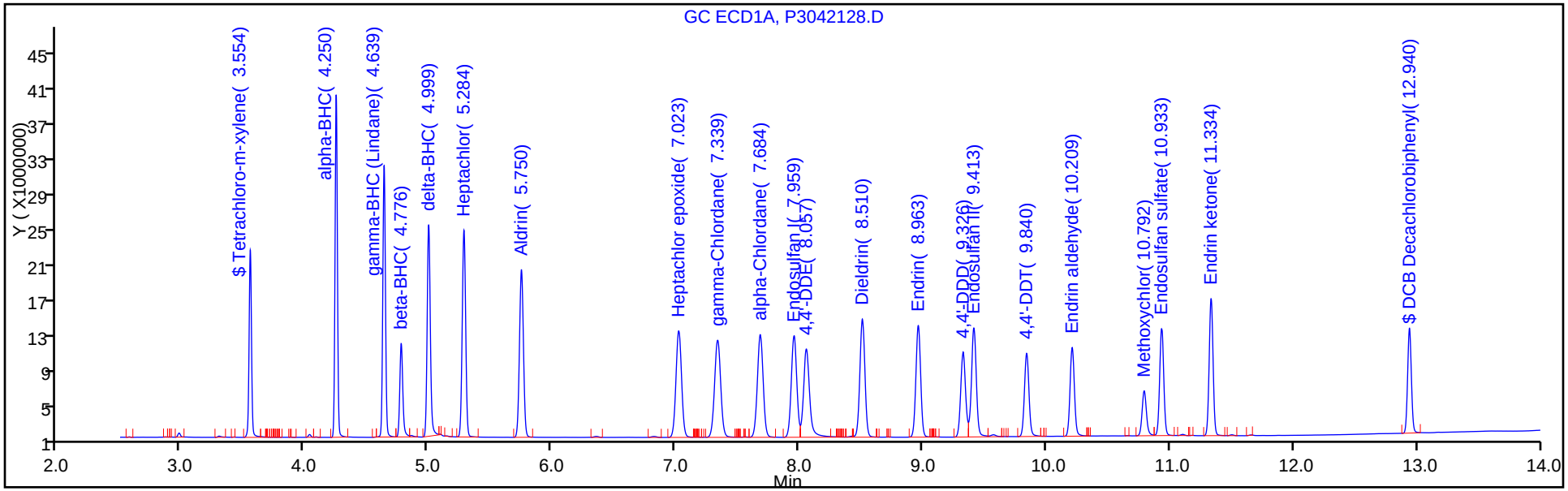
Report Date: 22-Apr-2015 08:57:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

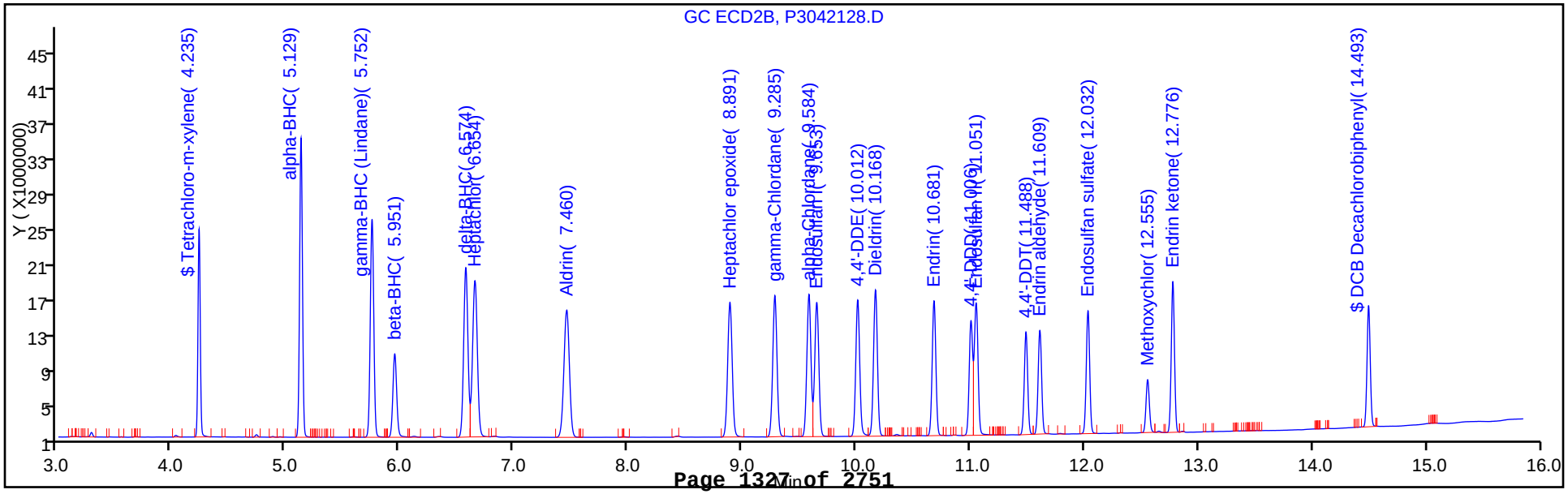
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042128.D

Injection Date:	21-Apr-2015 23:12:33	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	2116480		30.6	25.0	22.2*	20.0
gamma-BHC (Lindane)	Ave	1543740	1870261		30.3	25.0	21.2*	20.0
beta-BHC	Ave	629842	728275		28.9	25.0	15.6	20.0
delta-BHC	Ave	1502830	1788197		29.7	25.0	19.0	20.0
Heptachlor	Ave	1459223	1838231		31.5	25.0	26.0*	20.0
Aldrin	Ave	1461888	1737847		29.7	25.0	18.9	20.0
Heptachlor epoxide	Ave	1303871	1570022		30.1	25.0	20.4*	20.0
gamma-Chlordane	Ave	1350629	1574471		29.1	25.0	16.6	20.0
alpha-Chlordane	Ave	1337609	1565501		29.3	25.0	17.0	20.0
Endosulfan I	Ave	1227519	1473268		30.0	25.0	20.0	20.0
4,4'-DDE	Ave	1184677	1437458		30.3	25.0	21.3*	20.0
Dieldrin	Ave	1307595	1570280		30.0	25.0	20.1*	20.0
Endrin	Ave	1151386	1426849		31.0	25.0	23.9*	20.0
4,4'-DDD	Ave	870416	1182765		34.0	25.0	35.9*	20.0
Endosulfan II	Ave	1156896	1413060		30.5	25.0	22.1*	20.0
4,4'-DDT	Ave	955198	963556		25.2	25.0	0.9	20.0
Endrin aldehyde	Ave	890839	1053546		29.6	25.0	18.3	20.0
Methoxychlor	Ave	458228	515307		28.1	25.0	12.5	20.0
Endosulfan sulfate	Ave	996194	1201579		30.2	25.0	20.6*	20.0
Endrin ketone	Ave	1221980	1434137		29.3	25.0	17.4	20.0
Tetrachloro-m-xylene	Ave	983528	1182203		30.1	25.0	20.2*	20.0
DCB Decachlorobiphenyl	Ave	936456	1081895		28.9	25.0	15.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.28	5.25	5.31
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.02	6.99	7.05
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.68	7.65	7.71
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.06	8.03	8.09
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.32	9.29	9.35
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.79	10.76	10.82
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.33	11.30	11.36
Tetrachloro-m-xylene	3.55	3.52	3.58
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 03:48:08 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-040
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:35:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	29555063	25.0	30.1	
2	4.235	4.235	0.000	32939364	25.0	29.2	
						RPD = 2.78	
4 alpha-BHC							
1	4.250	4.250	0.000	52911988	25.0	30.6	
2	5.128	5.128	0.000	58897626	25.0	30.1	
						RPD = 1.53	
5 gamma-BHC (Lindane)							
1	4.637	4.637	0.000	46756527	25.0	30.3	
2	5.751	5.751	0.000	52691645	25.0	29.8	
						RPD = 1.70	
6 beta-BHC							M
1	4.775	4.775	0.000	18206886	25.0	28.9	M
2	5.950	5.950	0.000	22238624	25.0	28.9	
						RPD = 0.12	
7 delta-BHC							
1	4.998	4.998	0.000	44704926	25.0	29.7	
2	6.573	6.573	0.000	51700857	25.0	29.1	
						RPD = 2.06	
9 Heptachlor							
1	5.283	5.283	0.000	45955772	25.0	31.5	
2	6.653	6.653	0.000	51905425	25.0	30.7	
						RPD = 2.54	
10 Aldrin							
1	5.748	5.748	0.000	43446167	25.0	29.7	
2	7.458	7.458	0.000	48979415	25.0	29.3	
						RPD = 1.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.021	7.021	0.000	39250553	25.0	30.1	
2	8.889	8.889	0.000	42490686	25.0	29.6	
						RPD = 1.68	
13 gamma-Chlordane							
1	7.337	7.337	0.000	39361766	25.0	29.1	
2	9.285	9.285	0.000	41937267	25.0	28.5	
						RPD = 2.21	
14 alpha-Chlordane							
1	7.682	7.682	0.000	39137523	25.0	29.3	
2	9.583	9.583	0.000	40649142	25.0	28.6	
						RPD = 2.21	
15 Endosulfan I							
1	7.957	7.957	0.000	36831688	25.0	30.0	
2	9.651	9.651	0.000	38575115	25.0	29.2	
						RPD = 2.76	
16 4,4'-DDE							
1	8.056	8.056	0.000	35936444	25.0	30.3	
2	10.009	10.009	0.000	38637884	25.0	29.3	
						RPD = 3.60	
17 Dieldrin							
1	8.508	8.508	0.000	39256989	25.0	30.0	
2	10.167	10.167	0.000	39661860	25.0	29.0	
						RPD = 3.50	
18 Endrin							
1	8.962	8.962	0.000	35671222	25.0	31.0	
2	10.680	10.680	0.000	34363335	25.0	28.5	
						RPD = 8.33	
20 4,4'-DDD							
1	9.322	9.322	0.000	29569121	25.0	34.0	
2	11.004	11.004	0.000	30178584	25.0	30.8	
						RPD = 9.67	
21 Endosulfan II							
1	9.411	9.411	0.000	35326493	25.0	30.5	
2	11.050	11.050	0.000	35384417	25.0	30.3	
						RPD = 0.91	
23 4,4'-DDT							
1	9.838	9.838	0.000	24088909	25.0	25.2	
2	11.487	11.487	0.000	22587477	25.0	22.6	
						RPD = 10.81	
25 Endrin aldehyde							
1	10.206	10.206	0.000	26338638	25.0	29.6	
2	11.609	11.609	0.000	26098630	25.0	27.9	
						RPD = 5.63	
27 Methoxychlor							
1	10.789	10.789	0.000	12882686	25.0	28.1	
2	12.553	12.553	0.000	12237895	25.0	25.0	
						RPD = 11.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	30039475	25.0	30.2	
2	12.030	12.030	0.000	30288870	25.0	28.6	
						RPD = 5.30	
29 Endrin ketone							
1	11.333	11.333	0.000	35853430	25.0	29.3	
2	12.773	12.773	0.000	35206578	25.0	28.7	
						RPD = 2.30	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	27047381	25.0	28.9	
2	14.493	14.493	0.000	28316814	25.0	27.8	
						RPD = 3.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

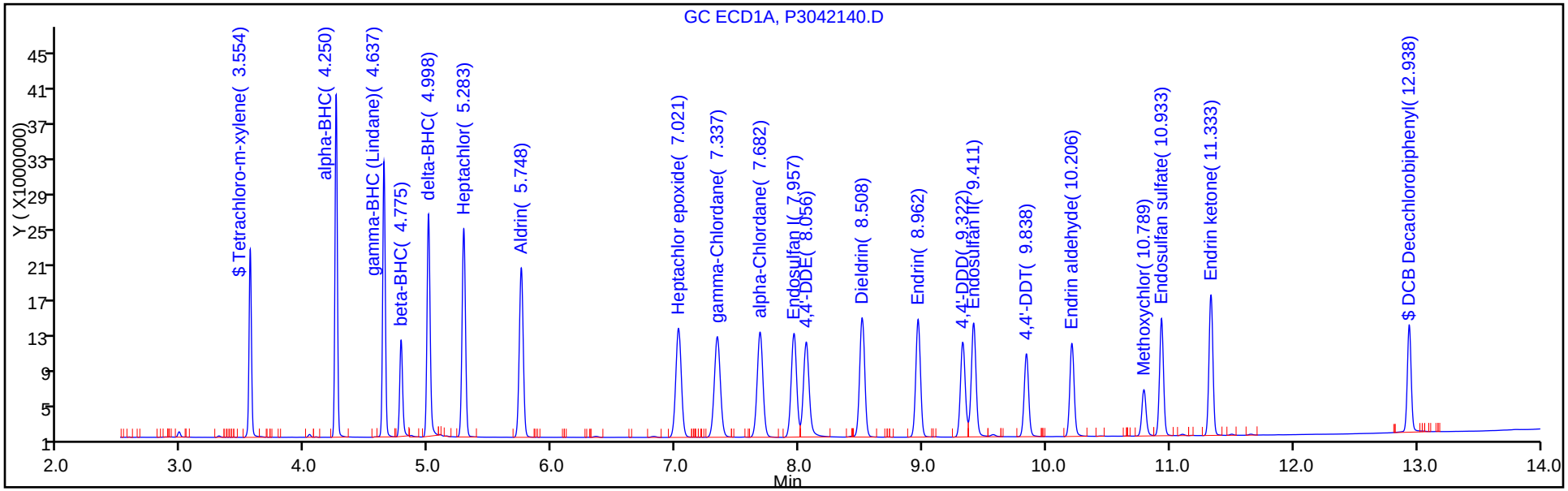
Report Date: 22-Apr-2015 08:58:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

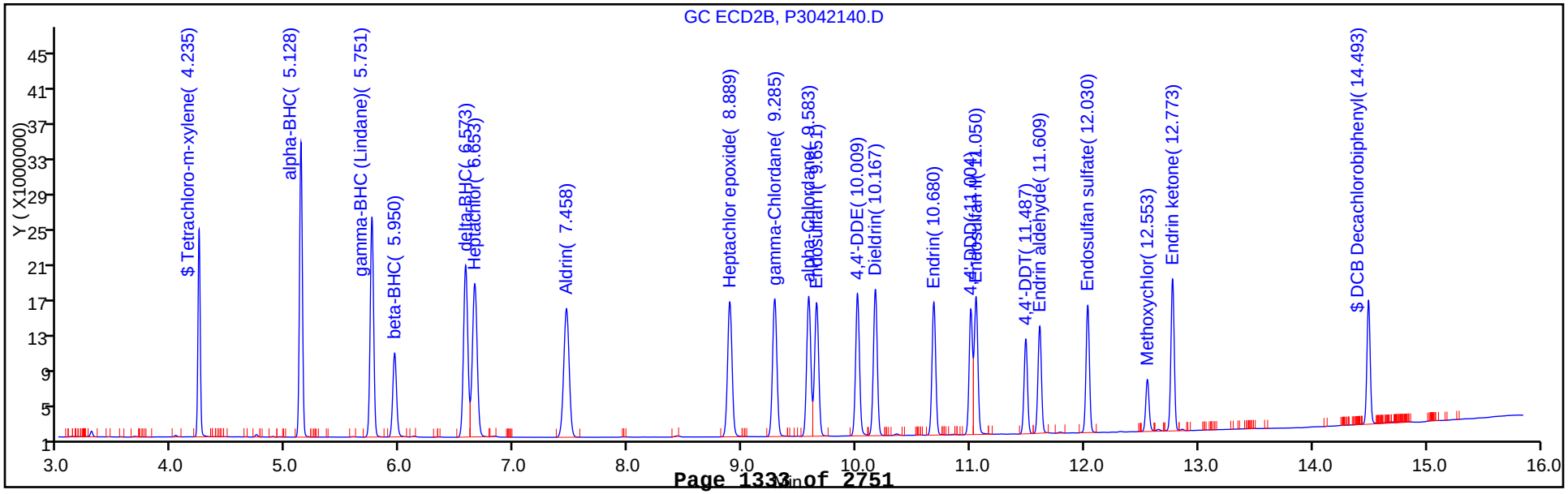
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D

Injection Date:	22-Apr-2015 03:48:08	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

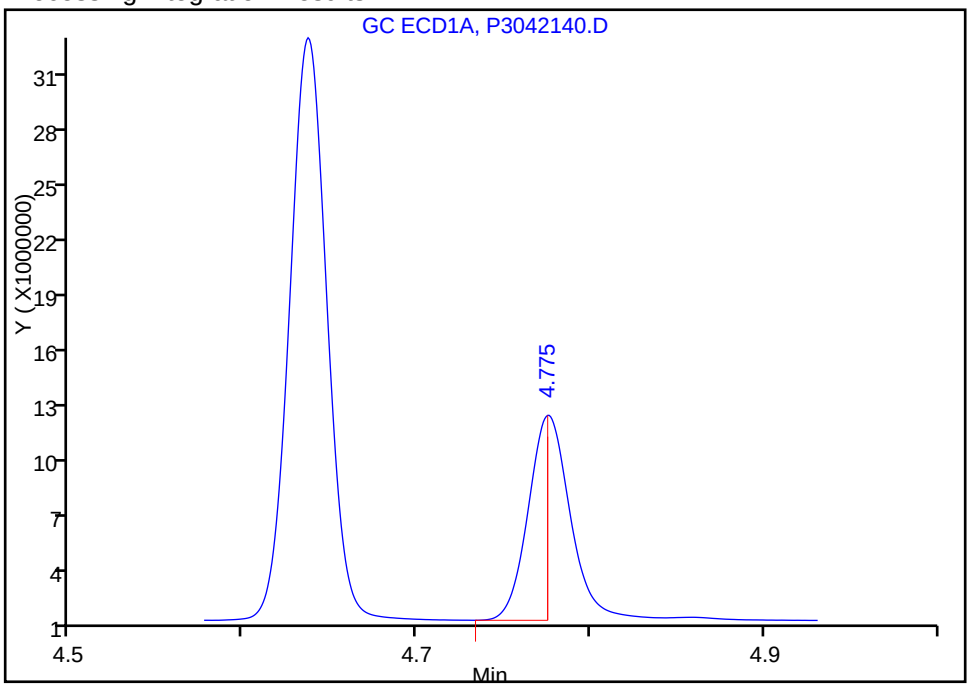
TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D
Injection Date: 22-Apr-2015 03:48:08 Instrument ID: A2HP3
Lims ID: CCV AB3
Client ID:
Operator ID: 430893 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PEST3 Limit Group: GC 8081 D0D ICAL
Column: Detector GC ECD1A

6 beta-BHC, CAS: 319-85-7

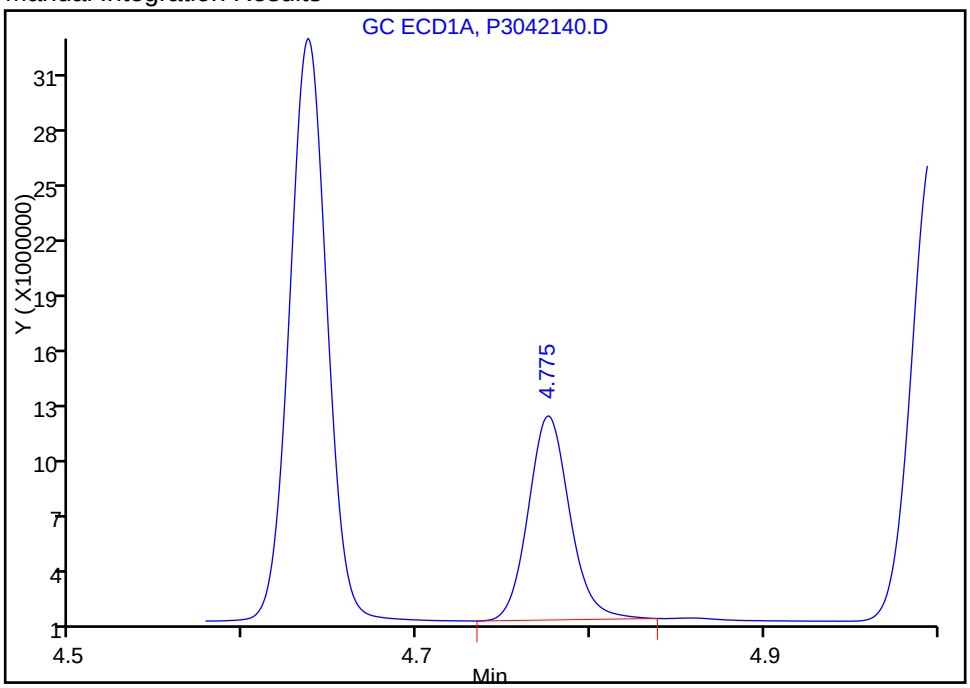
Processing Integration Results

RT: 4.78
Area: 8441079
Amount: 13.401906
Amount Units: ug/l



Manual Integration Results

RT: 4.78
Area: 18206886
Amount: 28.907083
Amount Units: ug/l



Reviewer: matthewsb, 22-Apr-2015 07:35:09
Audit Action: Manually Integrated
Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2355905		30.1	25.0	20.4*	20.0
gamma-BHC (Lindane)	Ave	1769514	2107666		29.8	25.0	19.1	20.0
beta-BHC	Ave	768367	889545		28.9	25.0	15.8	20.0
delta-BHC	Ave	1774158	2068034		29.1	25.0	16.6	20.0
Heptachlor	Ave	1690527	2076217		30.7	25.0	22.8*	20.0
Aldrin	Ave	1672196	1959177		29.3	25.0	17.2	20.0
Heptachlor epoxide	Ave	1435426	1699627		29.6	25.0	18.4	20.0
gamma-Chlordane	Ave	1471152	1677491		28.5	25.0	14.0	20.0
alpha-Chlordane	Ave	1420369	1625966		28.6	25.0	14.5	20.0
Endosulfan I	Ave	1321597	1543005		29.2	25.0	16.8	20.0
4,4'-DDE	Ave	1320422	1545515		29.3	25.0	17.0	20.0
Dieldrin	Ave	1368089	1586474		29.0	25.0	16.0	20.0
Endrin	Ave	1205577	1374533		28.5	25.0	14.0	20.0
4,4'-DDD	Ave	978644	1207143		30.8	25.0	23.3*	20.0
Endosulfan II	Ave	1169425	1415377		30.3	25.0	21.0*	20.0
4,4'-DDT	Ave	997996	903499		22.6	25.0	-9.5	20.0
Endrin aldehyde	Ave	933862	1043945		27.9	25.0	11.8	20.0
Endosulfan sulfate	Ave	1059131	1211555		28.6	25.0	14.4	20.0
Methoxychlor	Ave	489196	489516		25.0	25.0	0.0	20.0
Endrin ketone	Ave	1227876	1408263		28.7	25.0	14.7	20.0
Tetrachloro-m-xylene	Ave	1127022	1317575		29.2	25.0	16.9	20.0
DCB Decachlorobiphenyl	Ave	1017987	1132673		27.8	25.0	11.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/40 Calibration Date: 04/22/2015 03:48

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042140.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.29	9.26	9.32
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.00	10.97	11.03
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 03:48:08 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-040
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:35:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	29555063	25.0	30.1	
2	4.235	4.235	0.000	32939364	25.0	29.2	
						RPD = 2.78	
4 alpha-BHC							
1	4.250	4.250	0.000	52911988	25.0	30.6	
2	5.128	5.128	0.000	58897626	25.0	30.1	
						RPD = 1.53	
5 gamma-BHC (Lindane)							
1	4.637	4.637	0.000	46756527	25.0	30.3	
2	5.751	5.751	0.000	52691645	25.0	29.8	
						RPD = 1.70	
6 beta-BHC							M
1	4.775	4.775	0.000	18206886	25.0	28.9	M
2	5.950	5.950	0.000	22238624	25.0	28.9	
						RPD = 0.12	
7 delta-BHC							
1	4.998	4.998	0.000	44704926	25.0	29.7	
2	6.573	6.573	0.000	51700857	25.0	29.1	
						RPD = 2.06	
9 Heptachlor							
1	5.283	5.283	0.000	45955772	25.0	31.5	
2	6.653	6.653	0.000	51905425	25.0	30.7	
						RPD = 2.54	
10 Aldrin							
1	5.748	5.748	0.000	43446167	25.0	29.7	
2	7.458	7.458	0.000	48979415	25.0	29.3	
						RPD = 1.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.021	7.021	0.000	39250553	25.0	30.1	
2	8.889	8.889	0.000	42490686	25.0	29.6	
						RPD = 1.68	
13 gamma-Chlordane							
1	7.337	7.337	0.000	39361766	25.0	29.1	
2	9.285	9.285	0.000	41937267	25.0	28.5	
						RPD = 2.21	
14 alpha-Chlordane							
1	7.682	7.682	0.000	39137523	25.0	29.3	
2	9.583	9.583	0.000	40649142	25.0	28.6	
						RPD = 2.21	
15 Endosulfan I							
1	7.957	7.957	0.000	36831688	25.0	30.0	
2	9.651	9.651	0.000	38575115	25.0	29.2	
						RPD = 2.76	
16 4,4'-DDE							
1	8.056	8.056	0.000	35936444	25.0	30.3	
2	10.009	10.009	0.000	38637884	25.0	29.3	
						RPD = 3.60	
17 Dieldrin							
1	8.508	8.508	0.000	39256989	25.0	30.0	
2	10.167	10.167	0.000	39661860	25.0	29.0	
						RPD = 3.50	
18 Endrin							
1	8.962	8.962	0.000	35671222	25.0	31.0	
2	10.680	10.680	0.000	34363335	25.0	28.5	
						RPD = 8.33	
20 4,4'-DDD							
1	9.322	9.322	0.000	29569121	25.0	34.0	
2	11.004	11.004	0.000	30178584	25.0	30.8	
						RPD = 9.67	
21 Endosulfan II							
1	9.411	9.411	0.000	35326493	25.0	30.5	
2	11.050	11.050	0.000	35384417	25.0	30.3	
						RPD = 0.91	
23 4,4'-DDT							
1	9.838	9.838	0.000	24088909	25.0	25.2	
2	11.487	11.487	0.000	22587477	25.0	22.6	
						RPD = 10.81	
25 Endrin aldehyde							
1	10.206	10.206	0.000	26338638	25.0	29.6	
2	11.609	11.609	0.000	26098630	25.0	27.9	
						RPD = 5.63	
27 Methoxychlor							
1	10.789	10.789	0.000	12882686	25.0	28.1	
2	12.553	12.553	0.000	12237895	25.0	25.0	
						RPD = 11.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.933	10.933	0.000	30039475	25.0	30.2	
2	12.030	12.030	0.000	30288870	25.0	28.6	
						RPD = 5.30	
29 Endrin ketone							
1	11.333	11.333	0.000	35853430	25.0	29.3	
2	12.773	12.773	0.000	35206578	25.0	28.7	
						RPD = 2.30	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.938	0.000	27047381	25.0	28.9	
2	14.493	14.493	0.000	28316814	25.0	27.8	
						RPD = 3.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

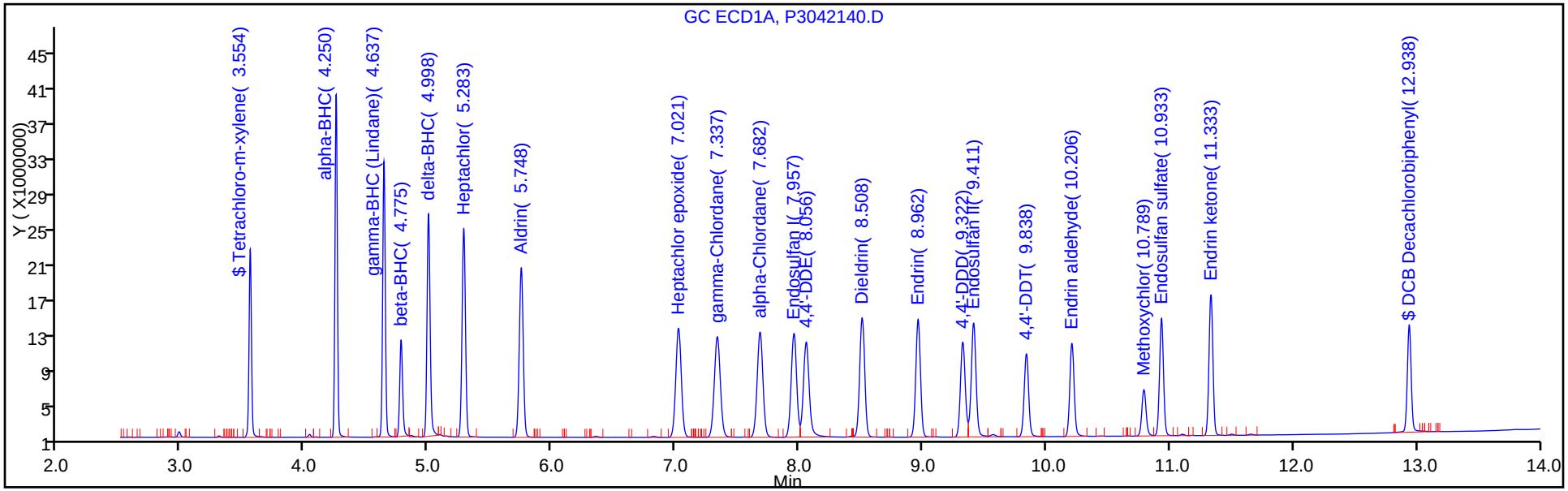
Report Date: 22-Apr-2015 08:58:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

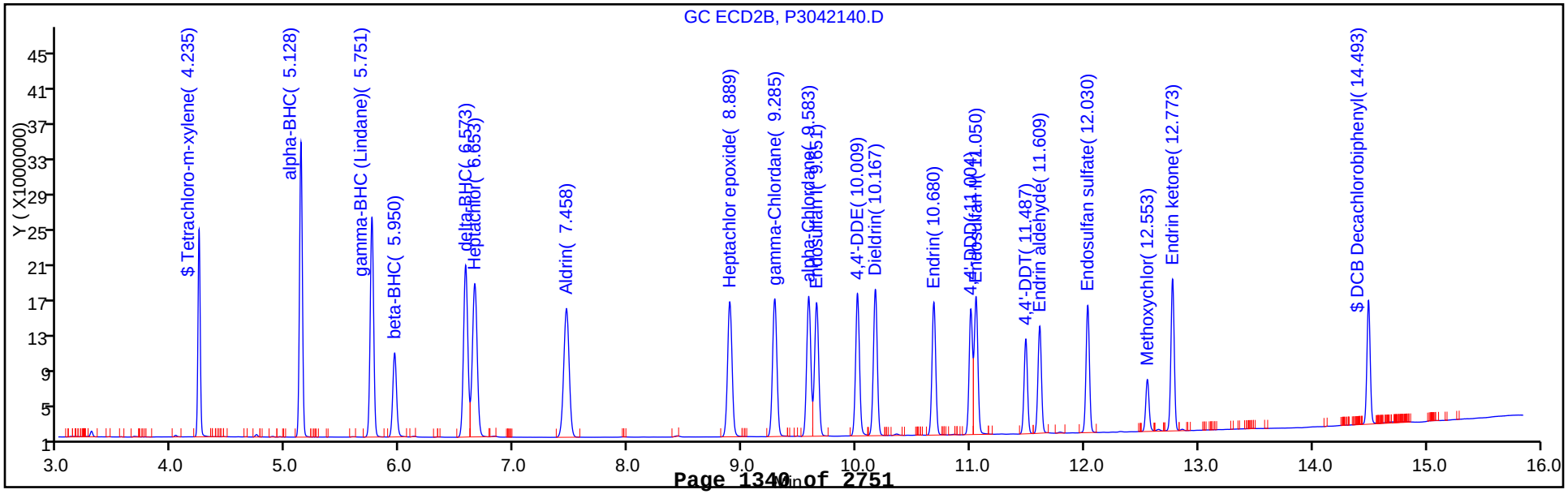
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042140.D

Injection Date:	22-Apr-2015 03:48:08	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	38595		1020	1000	2.0	20.0
Toxaphene Peak 2	Ave	36644	35137		959	1000	-4.1	20.0
Toxaphene Peak 3	Ave	23355	20327		870	1000	-13.0	20.0
Toxaphene Peak 4	Ave	33176	29991		904	1000	-9.6	20.0
Toxaphene Peak 5	Ave	32330	24173		748	1000	-25.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.62	9.59	9.65
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.40	10.37	10.43
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.84	10.81	10.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 08:22:45 ALS Bottle#: 52 Worklist Smp#: 52
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-052
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:31 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:56:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.619	9.619	0.000	38595148	1000.0	1020.2	M
1	10.083	10.083	0.000	35136800	1000.0	958.9	M
1	10.396	10.396	0.000	20327024	1000.0	870.4	M
1	10.738	10.738	0.000	29991346	1000.0	904.0	M
1	10.844	10.844	0.000	24173211	1000.0	747.7	M
		Average of Peak Amounts =				900.2	
2	11.027	11.027	0.000	52524589	1000.0	1013.5	M
2	11.196	11.196	0.000	51261832	1000.0	1005.8	M
2	11.620	11.620	0.000	33747227	1000.0	946.9	M
2	12.354	12.354	0.000	40530943	1000.0	888.3	M
2	12.444	12.444	0.000	12401680	1000.0	796.5	M
		Average of Peak Amounts =				930.2	
						RPD = 3.28	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

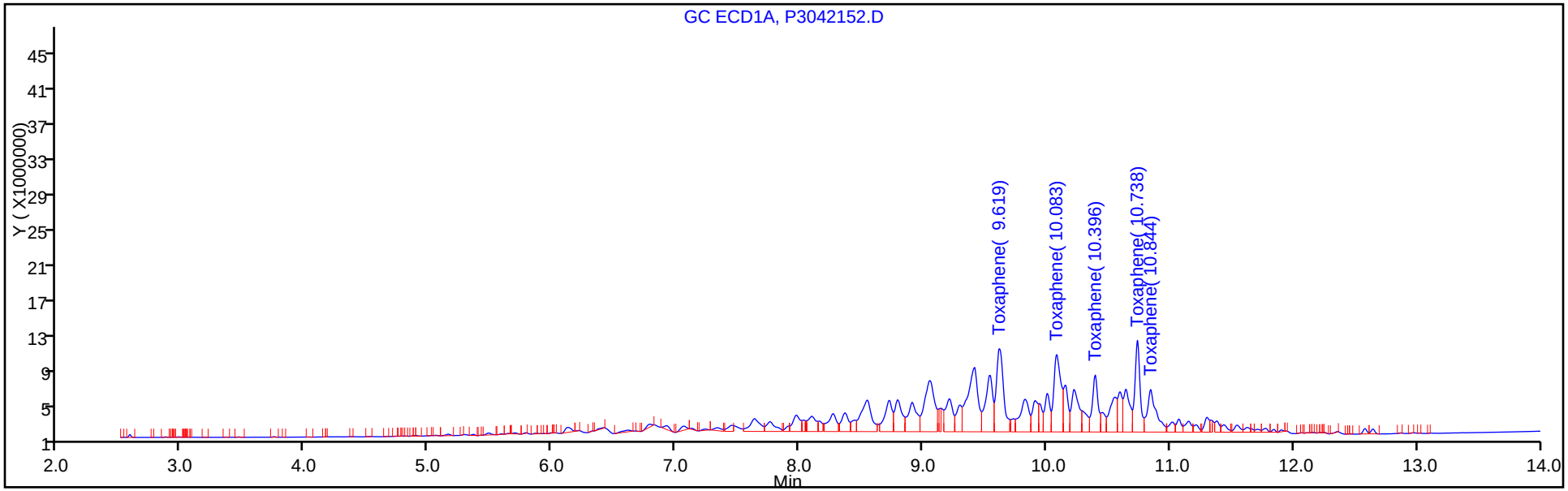
Report Date: 22-Apr-2015 08:58:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

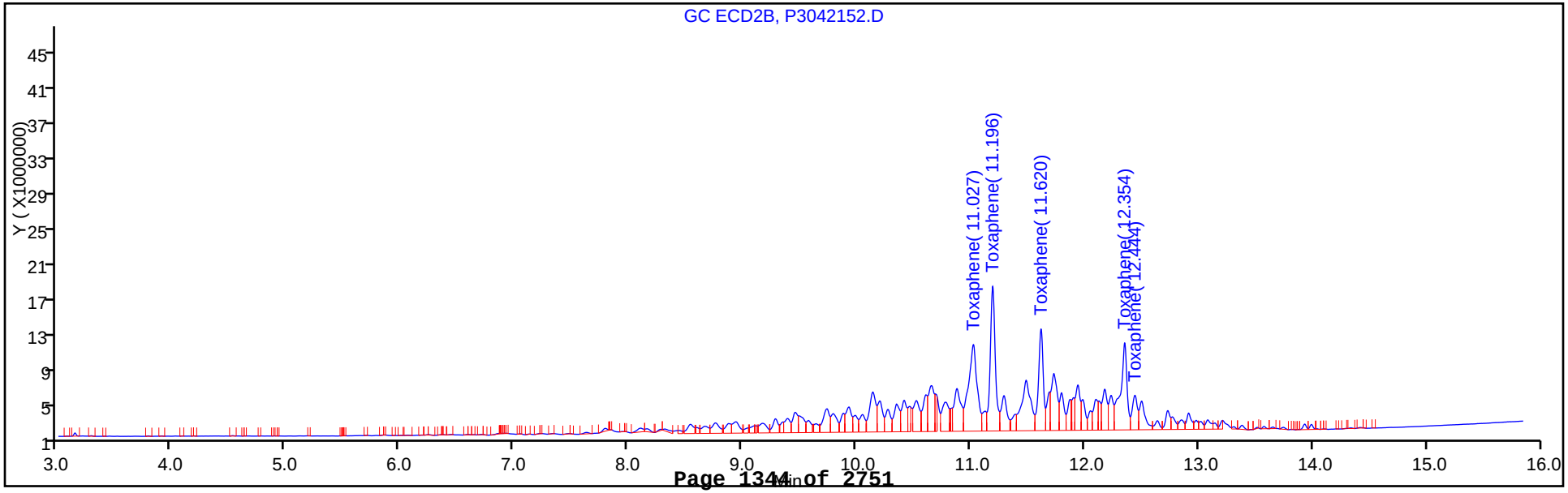
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date:	22-Apr-2015 08:22:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	52
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date: 22-Apr-2015 08:22:45 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

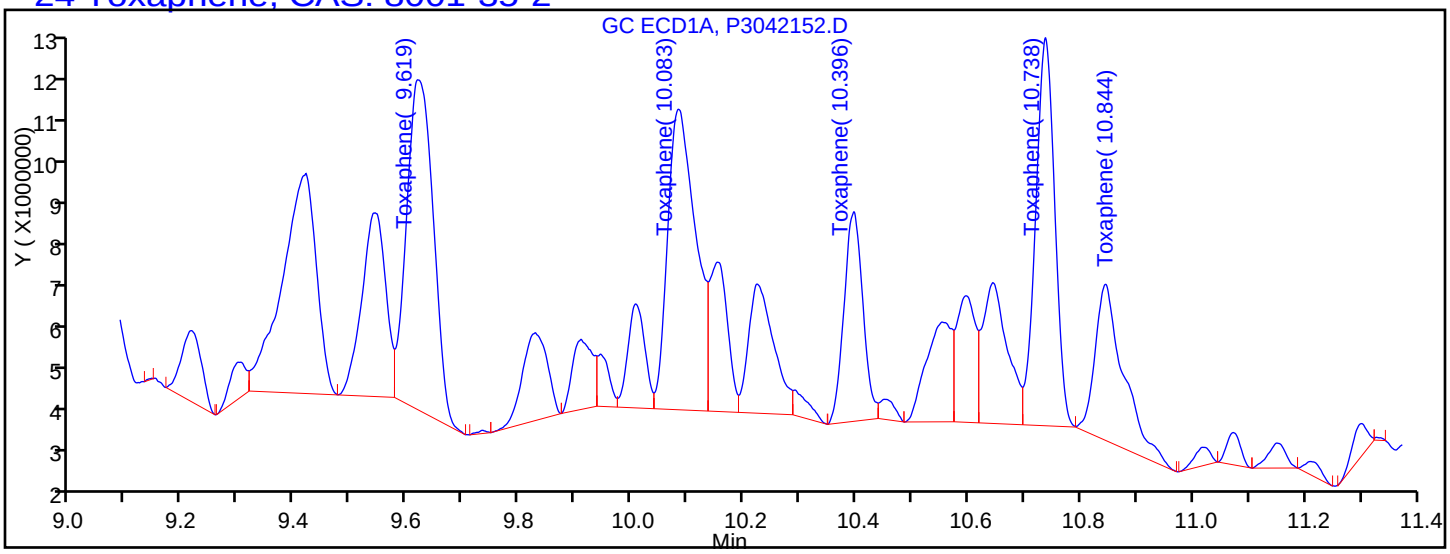
Operator ID: 430893 ALS Bottle#: 52 Worklist Smp#: 52

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

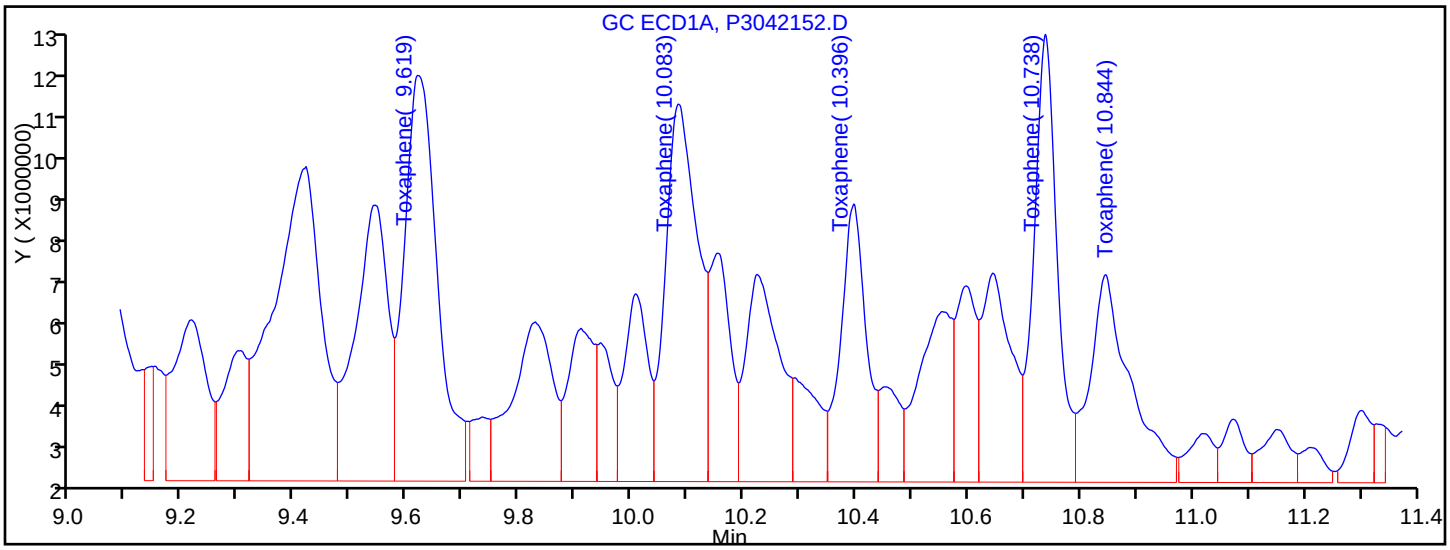
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.619	Response = 24875806	M
RT = 10.083	Response = 23788166	M
RT = 10.396	Response = 11132663	M
RT = 10.738	Response = 20901098	M
RT = 10.844	Response = 12507731	M



Manual Integration Results

RT = 9.619	Response = 38595148	M
RT = 10.083	Response = 35136800	M
RT = 10.396	Response = 20327024	M
RT = 10.738	Response = 29991346	M
RT = 10.844	Response = 24173211	M

Reviewer: matthewsb, 22-Apr-2015 08:57:25

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	52525		1010	1000	1.4	20.0
Toxaphene Peak 2	Ave	50965	51262		1010	1000	0.6	20.0
Toxaphene Peak 3	Ave	35641	33747		947	1000	-5.3	20.0
Toxaphene Peak 4	Ave	45629	40531		888	1000	-11.2	20.0
Toxaphene Peak 5	Ave	15570	12402		797	1000	-20.3*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177258/52 Calibration Date: 04/22/2015 08:22

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042152.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 08:22:45 ALS Bottle#: 52 Worklist Smp#: 52
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-052
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:31 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:56:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.619	9.619	0.000	38595148	1000.0	1020.2	M
1	10.083	10.083	0.000	35136800	1000.0	958.9	M
1	10.396	10.396	0.000	20327024	1000.0	870.4	M
1	10.738	10.738	0.000	29991346	1000.0	904.0	M
1	10.844	10.844	0.000	24173211	1000.0	747.7	M
		Average of Peak Amounts =				900.2	
2	11.027	11.027	0.000	52524589	1000.0	1013.5	M
2	11.196	11.196	0.000	51261832	1000.0	1005.8	M
2	11.620	11.620	0.000	33747227	1000.0	946.9	M
2	12.354	12.354	0.000	40530943	1000.0	888.3	M
2	12.444	12.444	0.000	12401680	1000.0	796.5	M
		Average of Peak Amounts =				930.2	
						RPD = 3.28	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

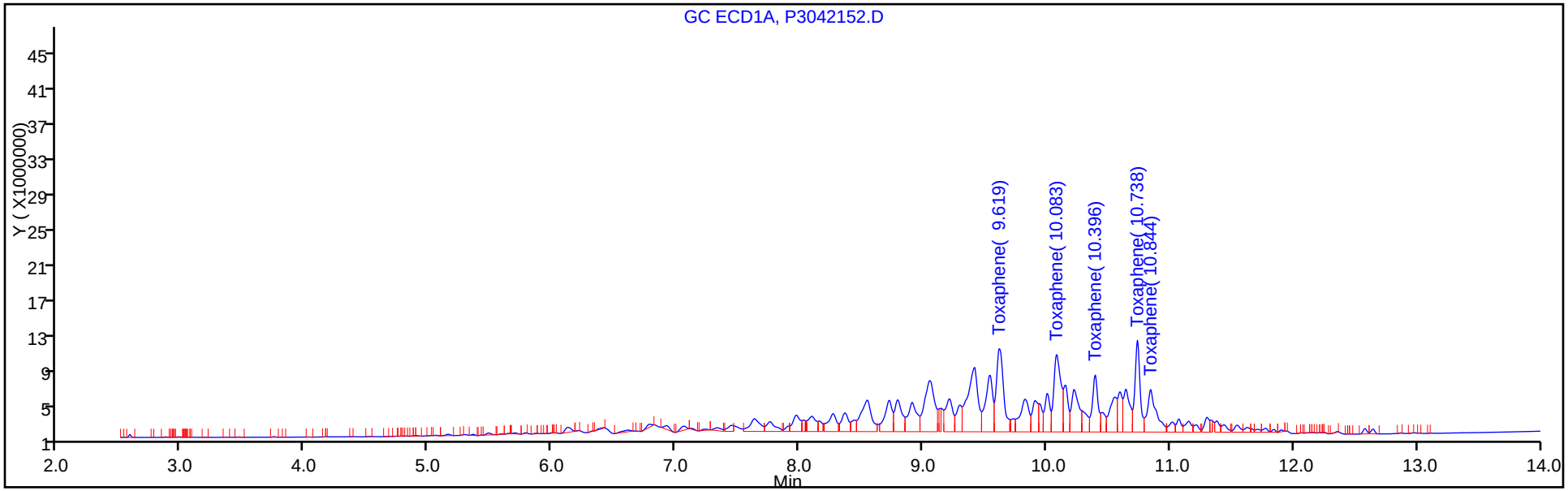
Report Date: 22-Apr-2015 08:58:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

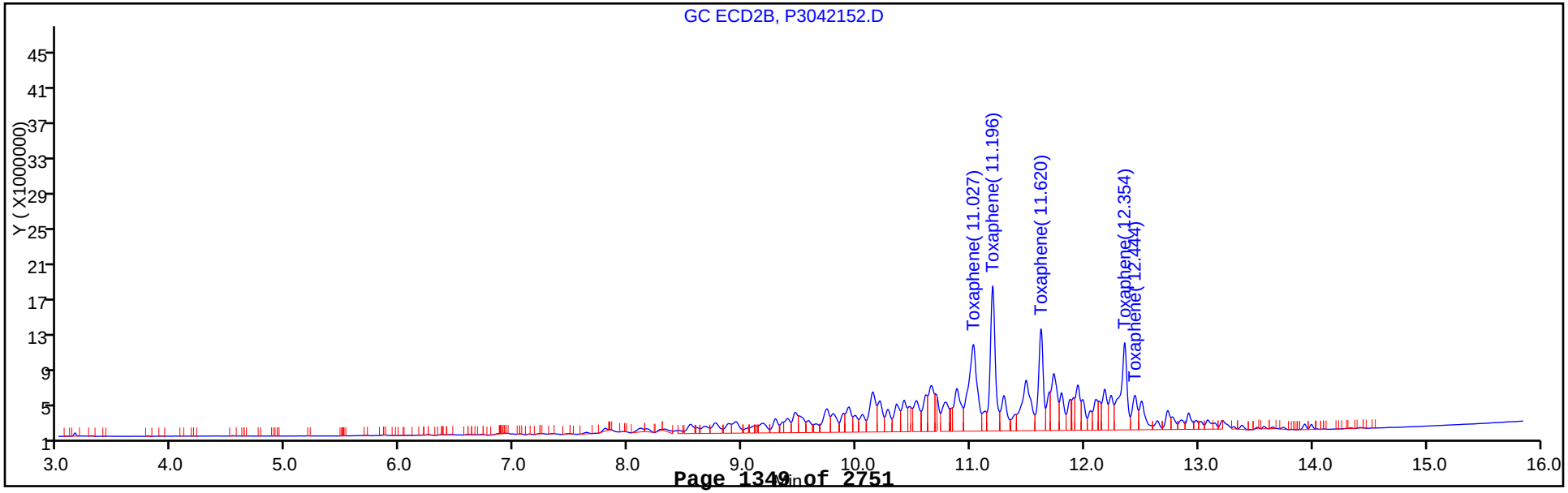
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date:	22-Apr-2015 08:22:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	52
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042152.D

Injection Date: 22-Apr-2015 08:22:45 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

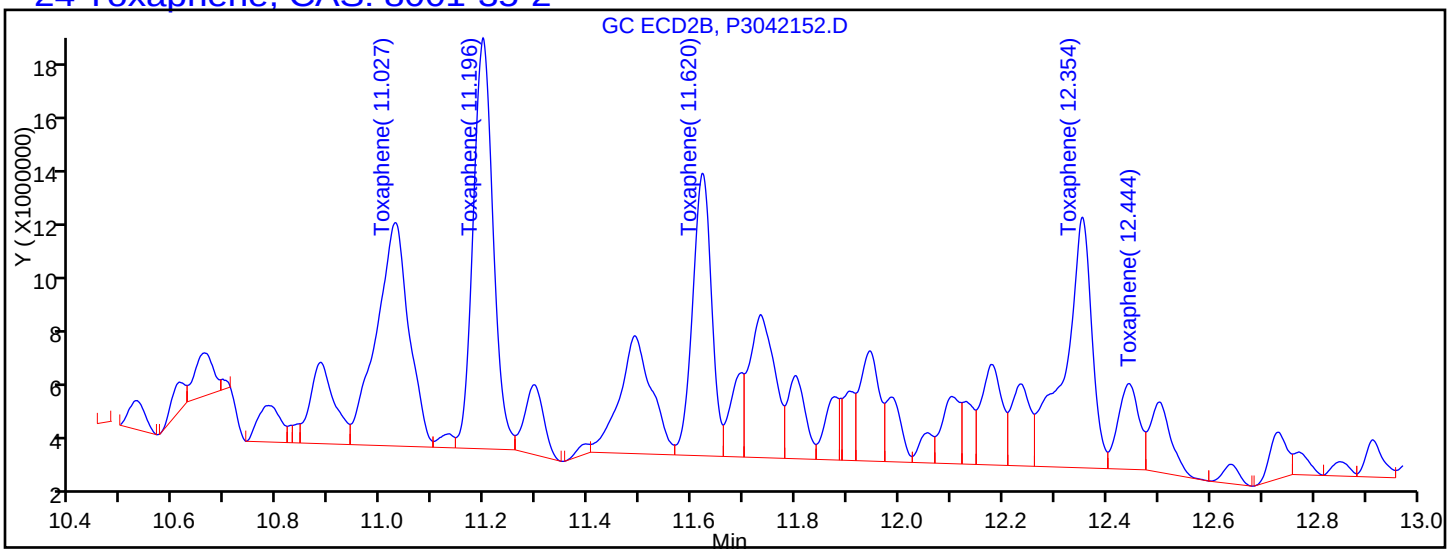
Operator ID: 430893 ALS Bottle#: 52 Worklist Smp#: 52

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

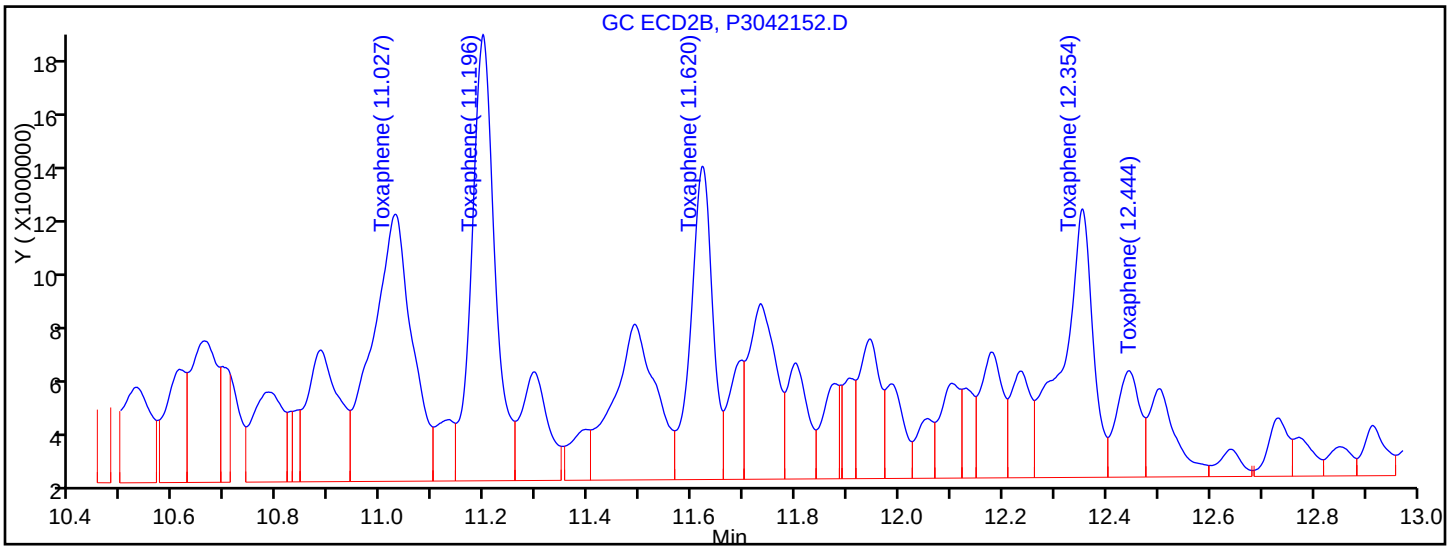
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.027	Response = 34934835	M
RT = 11.196	Response = 39485626	M
RT = 11.620	Response = 25724400	M
RT = 12.354	Response = 32703518	M
RT = 12.444	Response = 8678285	M



Manual Integration Results

RT = 11.027	Response = 52524589	M
RT = 11.196	Response = 51261832	M
RT = 11.620	Response = 33747227	M
RT = 12.354	Response = 40530943	M
RT = 12.444	Response = 12401680	M

Reviewer: matthewsb, 22-Apr-2015 08:56:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/6 Calibration Date: 04/22/2015 16:30

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	43417		1150	1000	14.8	20.0
Toxaphene Peak 2	Ave	36644	39505		1080	1000	7.8	20.0
Toxaphene Peak 3	Ave	23355	24063		1030	1000	3.0	20.0
Toxaphene Peak 4	Ave	33176	34953		1050	1000	5.4	20.0
Toxaphene Peak 5	Ave	32330	32049		991	1000	-0.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/6 Calibration Date: 04/22/2015 16:30

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042206.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.63	9.60	9.66
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.40	10.37	10.43
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.85	10.82	10.88

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042206.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 22-Apr-2015 16:30:36 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-006
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:56 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:22:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.625	9.625	0.000	43416869	1000.0	1147.6	M
1	10.083	10.083	0.000	39505301	1000.0	1078.1	M
1	10.397	10.397	0.000	24062500	1000.0	1030.3	M
1	10.738	10.738	0.000	34953101	1000.0	1053.6	M
1	10.846	10.846	0.000	32049344	1000.0	991.3	M
		Average of Peak Amounts =				1060.2	
2	11.024	11.024	0.000	55567636	1000.0	1072.3	
2	11.195	11.195	0.000	54179293	1000.0	1063.1	
2	11.618	11.618	0.000	36742791	1000.0	1030.9	
2	12.353	12.353	0.000	45739889	1000.0	1002.4	
2	12.443	12.443	0.000	14949387	1000.0	960.2	
		Average of Peak Amounts =				1025.8	
						RPD = 3.30	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

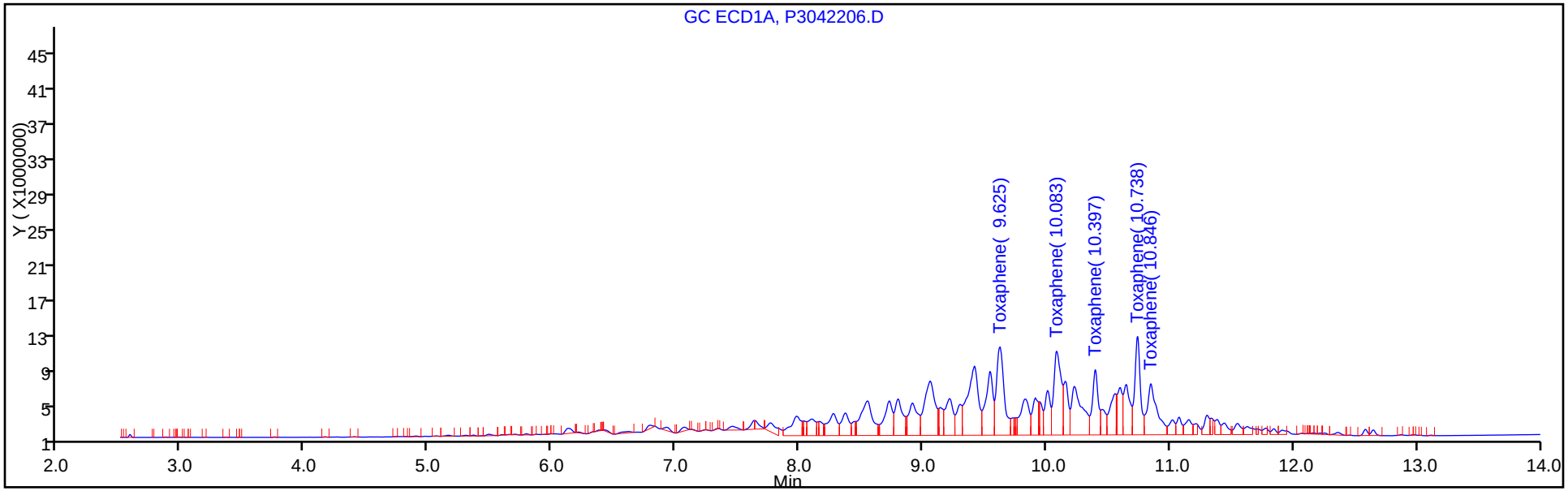
Report Date: 23-Apr-2015 07:42:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

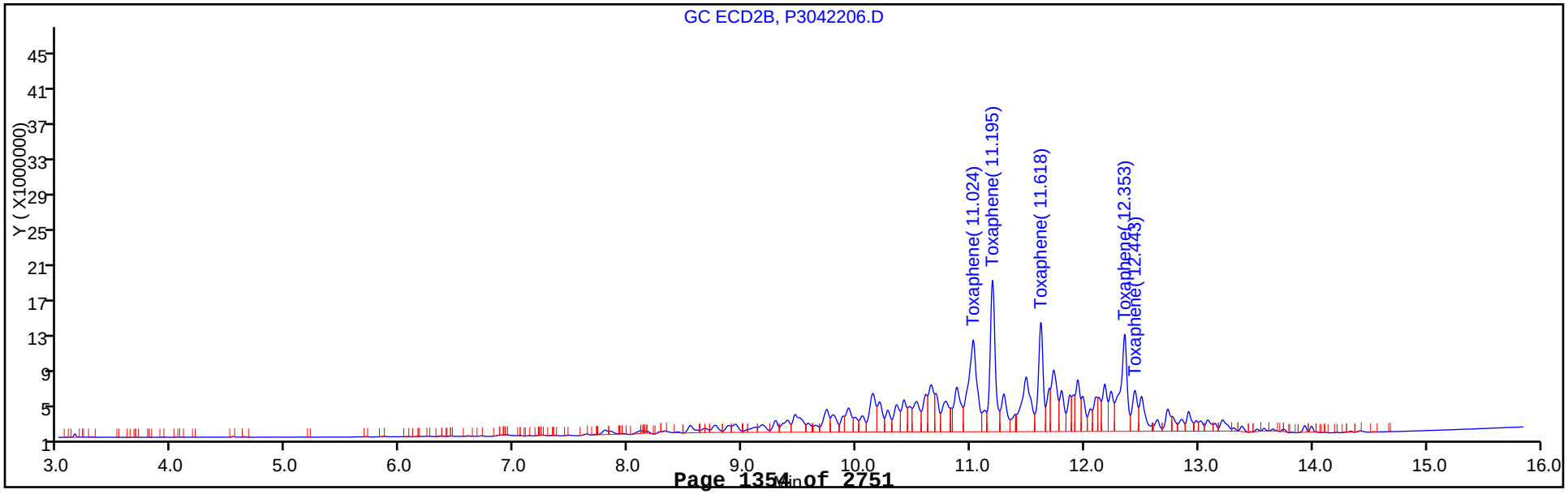
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042206.D

Injection Date:	22-Apr-2015 16:30:36	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 07:42:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042206.D

Injection Date: 22-Apr-2015 16:30:36 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

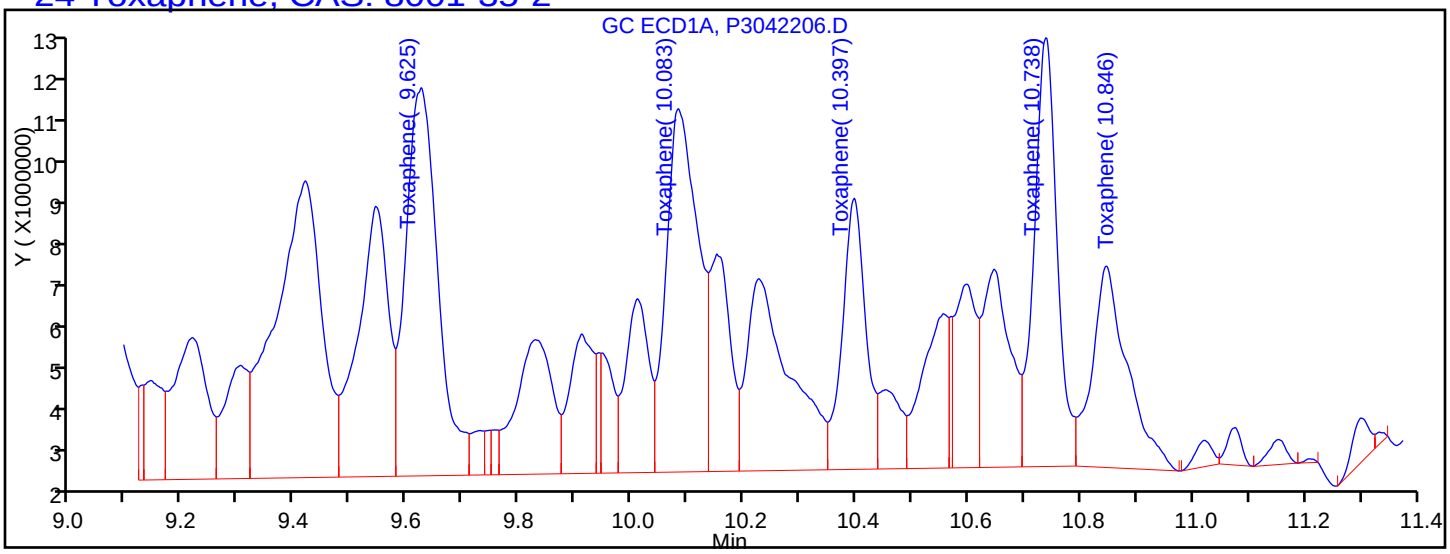
Operator ID: 430893 ALS Bottle#: 6 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

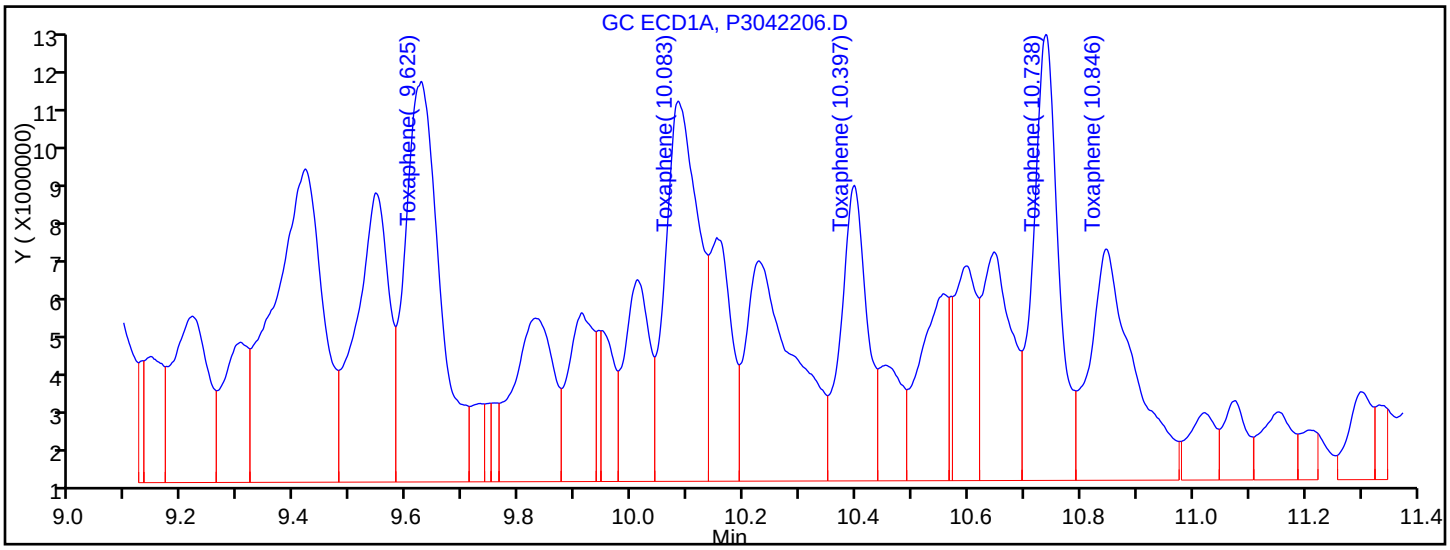
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.625	Response = 36355221	M
RT = 10.083	Response = 33917296	M
RT = 10.397	Response = 18597783	M
RT = 10.738	Response = 28752430	M
RT = 10.846	Response = 20716917	M



Manual Integration Results

RT = 9.625	Response = 43416869	M
RT = 10.083	Response = 39505301	M
RT = 10.397	Response = 24062500	M
RT = 10.738	Response = 34953101	M
RT = 10.846	Response = 32049344	M

Reviewer: matthewsb, 23-Apr-2015 07:22:18

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/6 Calibration Date: 04/22/2015 16:30

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	55568		1070	1000	7.2	20.0
Toxaphene Peak 2	Ave	50965	54179		1060	1000	6.3	20.0
Toxaphene Peak 3	Ave	35641	36743		1030	1000	3.1	20.0
Toxaphene Peak 4	Ave	45629	45740		1000	1000	0.2	20.0
Toxaphene Peak 5	Ave	15570	14949		960	1000	-4.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/6 Calibration Date: 04/22/2015 16:30

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042206.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.02	10.99	11.05
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042206.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCVRT
Inject. Date: 22-Apr-2015 16:30:36 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-006
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:56 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:22:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.625	9.625	0.000	43416869	1000.0	1147.6	M
1	10.083	10.083	0.000	39505301	1000.0	1078.1	M
1	10.397	10.397	0.000	24062500	1000.0	1030.3	M
1	10.738	10.738	0.000	34953101	1000.0	1053.6	M
1	10.846	10.846	0.000	32049344	1000.0	991.3	M
		Average of Peak Amounts =				1060.2	
2	11.024	11.024	0.000	55567636	1000.0	1072.3	
2	11.195	11.195	0.000	54179293	1000.0	1063.1	
2	11.618	11.618	0.000	36742791	1000.0	1030.9	
2	12.353	12.353	0.000	45739889	1000.0	1002.4	
2	12.443	12.443	0.000	14949387	1000.0	960.2	
		Average of Peak Amounts =				1025.8	
						RPD = 3.30	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

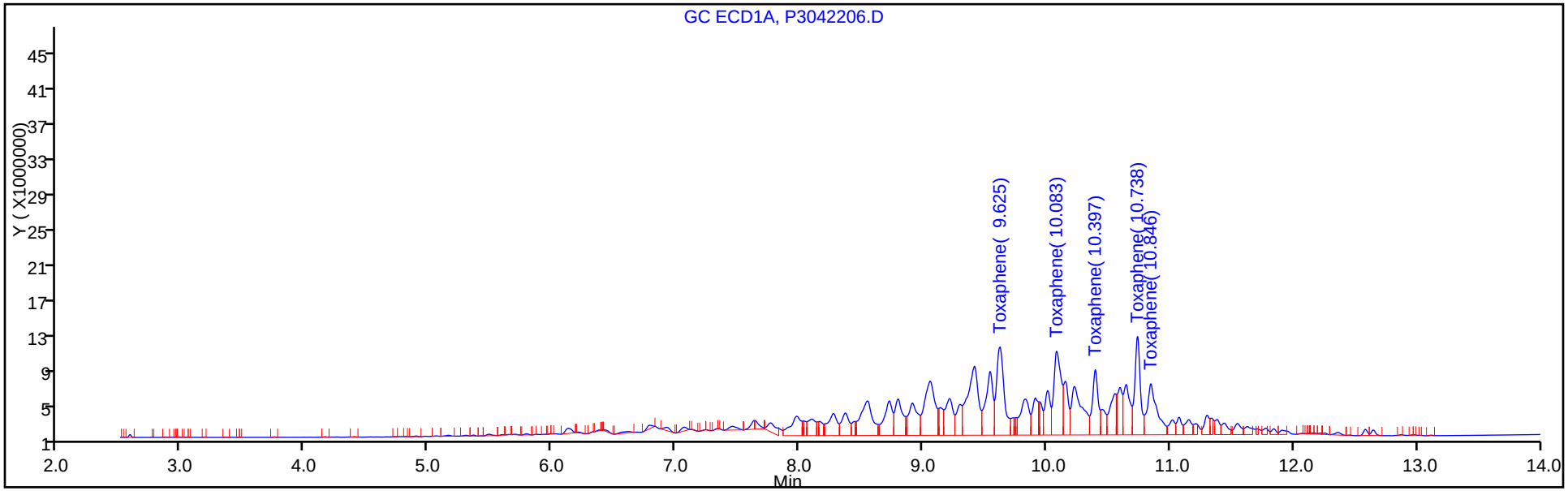
Report Date: 23-Apr-2015 07:42:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

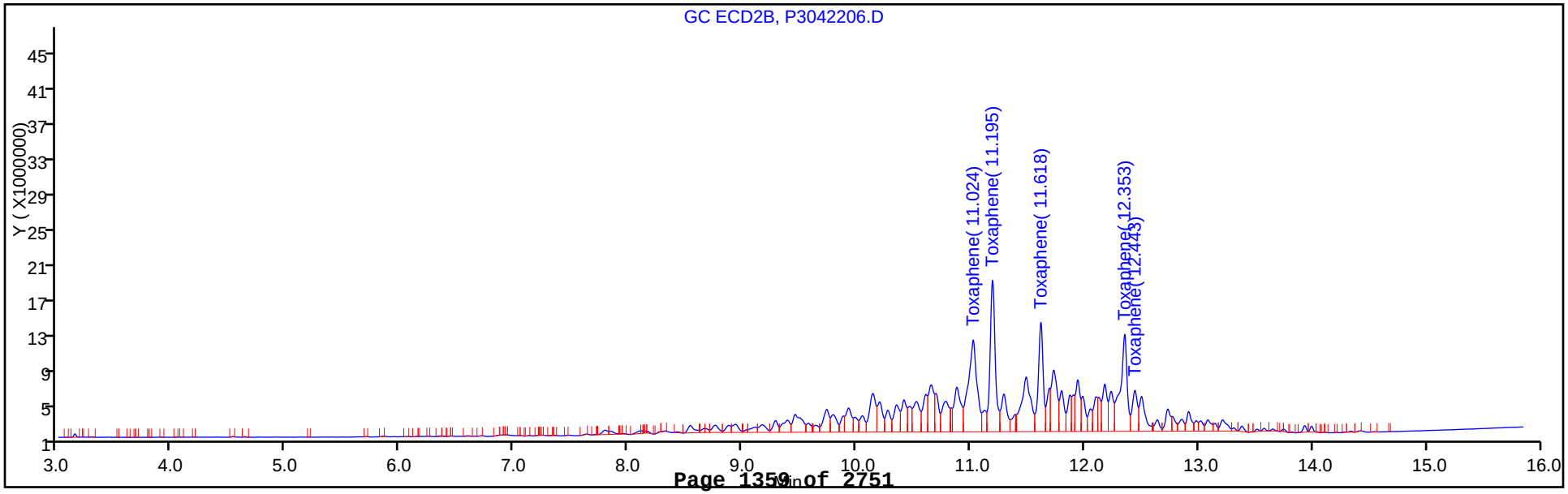
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042206.D

Injection Date:	22-Apr-2015 16:30:36	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/8 Calibration Date: 04/22/2015 17:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042208.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	1913807		27.6	25.0	10.5	20.0
gamma-BHC (Lindane)	Ave	1543740	1678176		27.2	25.0	8.7	20.0
beta-BHC	Ave	629842	683023		27.1	25.0	8.4	20.0
delta-BHC	Ave	1502830	1518791		25.3	25.0	1.1	20.0
Heptachlor	Ave	1459223	1676777		28.7	25.0	14.9	20.0
Aldrin	Ave	1461888	1590259		27.2	25.0	8.8	20.0
Heptachlor epoxide	Ave	1303871	1396782		26.8	25.0	7.1	20.0
gamma-Chlordane	Ave	1350629	1382827		25.6	25.0	2.4	20.0
alpha-Chlordane	Ave	1337609	1388205		25.9	25.0	3.8	20.0
Endosulfan I	Ave	1227519	1257669		25.6	25.0	2.5	20.0
4,4'-DDE	Ave	1184677	962570		20.3	25.0	-18.7	20.0
Dieldrin	Ave	1307595	1352969		25.9	25.0	3.5	20.0
Endrin	Ave	1151386	1201949		26.1	25.0	4.4	20.0
4,4'-DDD	Ave	870416	556124		16.0	25.0	-36.1*	20.0
Endosulfan II	Ave	1156896	1283988		27.7	25.0	11.0	20.0
4,4'-DDT	Ave	955198	716365		18.7	25.0	-25.0*	20.0
Endrin aldehyde	Ave	890839	803095		22.5	25.0	-9.8	20.0
Methoxychlor	Ave	458228	367525		20.1	25.0	-19.8	20.0
Endosulfan sulfate	Ave	996194	1018299		25.6	25.0	2.2	20.0
Endrin ketone	Ave	1221980	1224126		25.0	25.0	0.2	20.0
Tetrachloro-m-xylene	Ave	983528	1066099		27.1	25.0	8.4	20.0
DCB Decachlorobiphenyl	Ave	936456	864209		23.1	25.0	-7.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/8 Calibration Date: 04/22/2015 17:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042208.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.29	5.26	5.32
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.07	8.04	8.10
Dieldrin	8.51	8.48	8.54
Endrin	8.97	8.94	9.00
4,4'-DDD	9.34	9.31	9.37
Endosulfan II	9.42	9.39	9.45
4,4'-DDT	9.85	9.82	9.88
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.80	10.77	10.83
Endosulfan sulfate	10.94	10.91	10.97
Endrin ketone	11.34	11.31	11.37
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042208.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 22-Apr-2015 17:19:18 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:58 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:23:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.556	0.000	26652485	25.0	27.1	
2	4.235	4.235	0.000	30984891	25.0	27.5	
						RPD = 1.44	
4 alpha-BHC							
1	4.252	4.252	0.000	47845176	25.0	27.6	
2	5.128	5.128	0.000	54666381	25.0	27.9	
						RPD = 1.08	
5 gamma-BHC (Lindane)							
1	4.640	4.640	0.000	41954400	25.0	27.2	
2	5.750	5.750	0.000	48257067	25.0	27.3	
						RPD = 0.35	
6 beta-BHC							
1	4.780	4.780	0.000	17075580	25.0	27.1	
2	5.950	5.950	0.000	19545567	25.0	25.4	
						RPD = 6.37	
7 delta-BHC							
1	5.003	5.003	0.000	37969767	25.0	25.3	
2	6.574	6.574	0.000	41232714	25.0	23.2	
						RPD = 8.35	
9 Heptachlor							
1	5.286	5.286	0.000	41919432	25.0	28.7	
2	6.652	6.652	0.000	50423607	25.0	29.8	
						RPD = 3.76	
10 Aldrin							
1	5.751	5.751	0.000	39756475	25.0	27.2	
2	7.458	7.458	0.000	45894313	25.0	27.4	
						RPD = 0.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.027	7.027	0.000	34919543	25.0	26.8	
2	8.890	8.890	0.000	39546846	25.0	27.6	
						RPD = 2.83	
13 gamma-Chlordane							
1	7.341	7.341	0.000	34570675	25.0	25.6	
2	9.284	9.284	0.000	39252706	25.0	26.7	
						RPD = 4.15	
14 alpha-Chlordane							
1	7.686	7.686	0.000	34705134	25.0	25.9	
2	9.583	9.583	0.000	37860570	25.0	26.7	
						RPD = 2.70	
15 Endosulfan I							
1	7.961	7.961	0.000	31441718	25.0	25.6	
2	9.652	9.652	0.000	35895888	25.0	27.2	
						RPD = 5.86	
16 4,4'-DDE							
1	8.071	8.071	0.000	24064243	25.0	20.3	
2	10.014	10.014	0.000	30358125	25.0	23.0	
						RPD = 12.37	
17 Dieldrin							
1	8.513	8.513	0.000	33824220	25.0	25.9	
2	10.167	10.167	0.000	37809602	25.0	27.6	
						RPD = 6.61	
18 Endrin							
1	8.965	8.965	0.000	30048724	25.0	26.1	
2	10.680	10.680	0.000	30843682	25.0	25.6	
						RPD = 1.99	
20 4,4'-DDD							
1	9.338	9.338	0.000	13903090	25.0	16.0	
2	11.010	11.010	0.000	17451498	25.0	17.8	
						RPD = 11.00	
21 Endosulfan II							
1	9.417	9.417	0.000	32099696	25.0	27.7	
2	11.050	11.050	0.000	36819727	25.0	31.5	
						RPD = 12.62	
23 4,4'-DDT							
1	9.847	9.847	0.000	17909123	25.0	18.7	
2	11.488	11.488	0.000	18624916	25.0	18.7	
						RPD = 0.46	
25 Endrin aldehyde							
1	10.212	10.212	0.000	20077364	25.0	22.5	
2	11.609	11.609	0.000	21554917	25.0	23.1	
						RPD = 2.38	
27 Methoxychlor							
1	10.802	10.802	0.000	9188118	25.0	20.1	
2	12.556	12.556	0.000	9559063	25.0	19.5	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.936	10.936	0.000	25457486	25.0	25.6	
2	12.031	12.031	0.000	26294877	25.0	24.8	
						RPD = 2.89	
29 Endrin ketone							
1	11.336	11.336	0.000	30603151	25.0	25.0	
2	12.774	12.774	0.000	30893633	25.0	25.2	
						RPD = 0.46	
$ 30 DCB Decachlorobiphenyl							
1	12.943	12.943	0.000	21605232	25.0	23.1	
2	14.492	14.492	0.000	23553800	25.0	23.1	
						RPD = 0.29	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

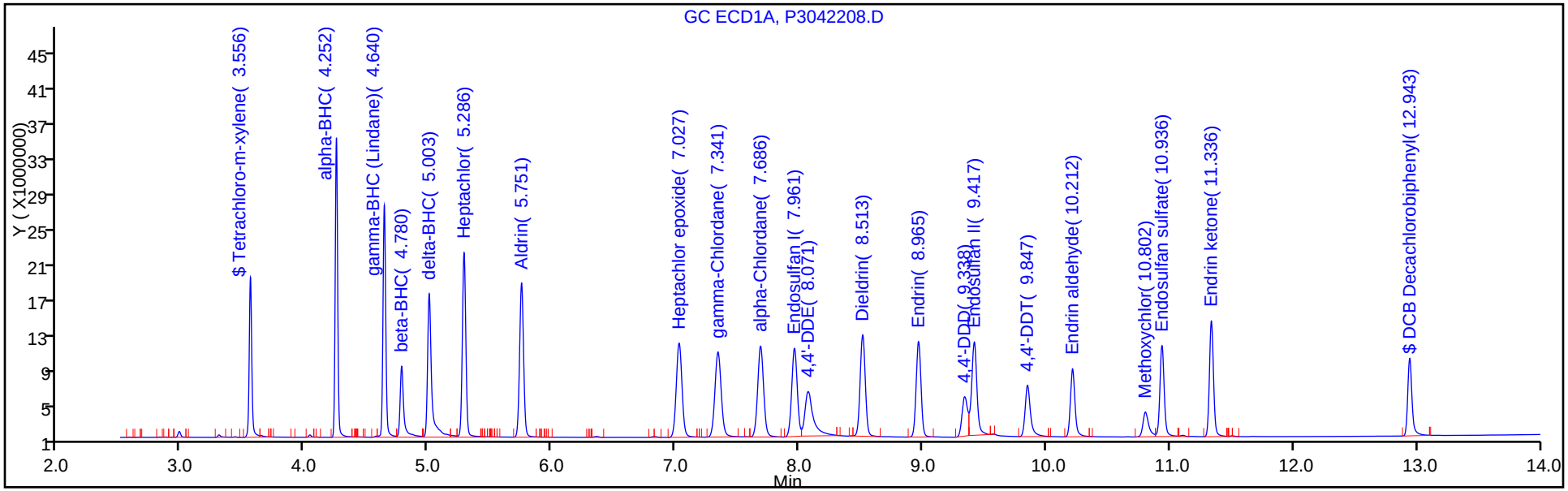
Report Date: 23-Apr-2015 07:42:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

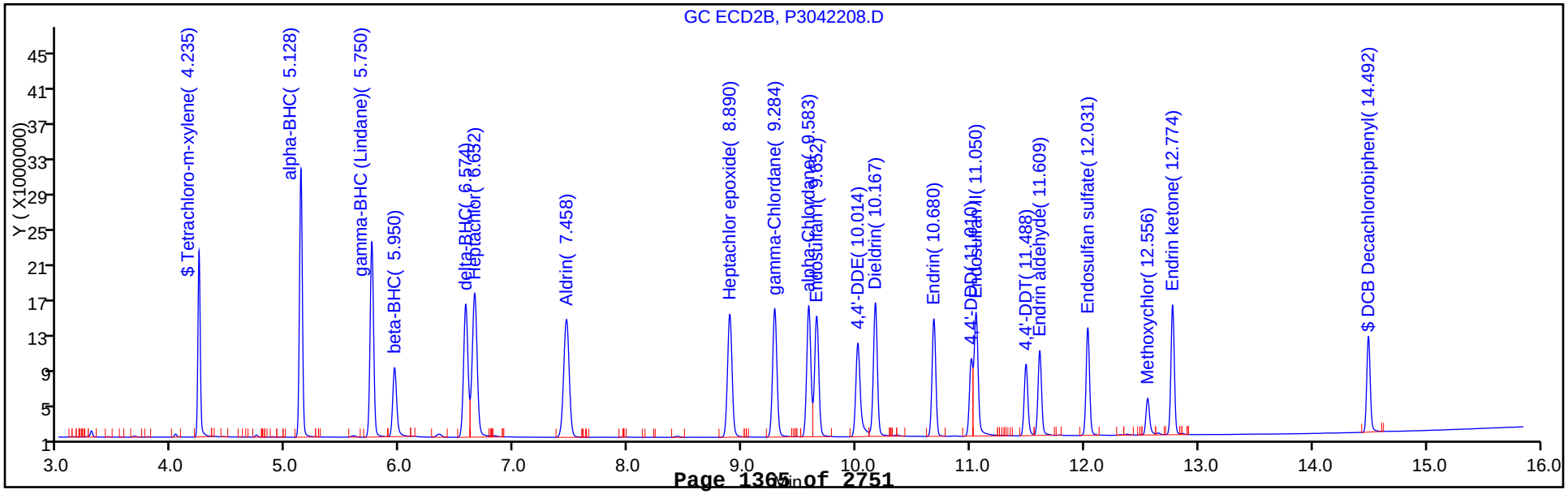
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042208.D

Injection Date:	22-Apr-2015 17:19:18	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/8 Calibration Date: 04/22/2015 17:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042208.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2186655		27.9	25.0	11.7	20.0
gamma-BHC (Lindane)	Ave	1769514	1930283		27.3	25.0	9.1	20.0
beta-BHC	Ave	768367	781823		25.4	25.0	1.8	20.0
delta-BHC	Ave	1774158	1649309		23.2	25.0	-7.0	20.0
Heptachlor	Ave	1690527	2016944		29.8	25.0	19.3	20.0
Aldrin	Ave	1672196	1835773		27.4	25.0	9.8	20.0
Heptachlor epoxide	Ave	1435426	1581874		27.6	25.0	10.2	20.0
gamma-Chlordane	Ave	1471152	1570108		26.7	25.0	6.7	20.0
alpha-Chlordane	Ave	1420369	1514423		26.7	25.0	6.6	20.0
Endosulfan I	Ave	1321597	1435836		27.2	25.0	8.6	20.0
4,4'-DDE	Ave	1320422	1214325		23.0	25.0	-8.0	20.0
Dieldrin	Ave	1368089	1512384		27.6	25.0	10.5	20.0
Endrin	Ave	1205577	1233747		25.6	25.0	2.3	20.0
4,4'-DDD	Ave	978644	698060		17.8	25.0	-28.7*	20.0
Endosulfan II	Ave	1169425	1472789		31.5	25.0	25.9*	20.0
4,4'-DDT	Ave	997996	744997		18.7	25.0	-25.4*	20.0
Endrin aldehyde	Ave	933862	862197		23.1	25.0	-7.7	20.0
Endosulfan sulfate	Ave	1059131	1051795		24.8	25.0	-0.7	20.0
Methoxychlor	Ave	489196	382363		19.5	25.0	-21.8*	20.0
Endrin ketone	Ave	1227876	1235745		25.2	25.0	0.6	20.0
Tetrachloro-m-xylene	Ave	1127022	1239396		27.5	25.0	10.0	20.0
DCB Decachlorobiphenyl	Ave	1017987	942152		23.1	25.0	-7.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/8 Calibration Date: 04/22/2015 17:19

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042208.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.28	9.25	9.31
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.56	12.53	12.59
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042208.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCVRT
Inject. Date: 22-Apr-2015 17:19:18 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-008
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:58 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:23:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.556	0.000	26652485	25.0	27.1	
2	4.235	4.235	0.000	30984891	25.0	27.5	
						RPD = 1.44	
4 alpha-BHC							
1	4.252	4.252	0.000	47845176	25.0	27.6	
2	5.128	5.128	0.000	54666381	25.0	27.9	
						RPD = 1.08	
5 gamma-BHC (Lindane)							
1	4.640	4.640	0.000	41954400	25.0	27.2	
2	5.750	5.750	0.000	48257067	25.0	27.3	
						RPD = 0.35	
6 beta-BHC							
1	4.780	4.780	0.000	17075580	25.0	27.1	
2	5.950	5.950	0.000	19545567	25.0	25.4	
						RPD = 6.37	
7 delta-BHC							
1	5.003	5.003	0.000	37969767	25.0	25.3	
2	6.574	6.574	0.000	41232714	25.0	23.2	
						RPD = 8.35	
9 Heptachlor							
1	5.286	5.286	0.000	41919432	25.0	28.7	
2	6.652	6.652	0.000	50423607	25.0	29.8	
						RPD = 3.76	
10 Aldrin							
1	5.751	5.751	0.000	39756475	25.0	27.2	
2	7.458	7.458	0.000	45894313	25.0	27.4	
						RPD = 0.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.027	7.027	0.000	34919543	25.0	26.8	
2	8.890	8.890	0.000	39546846	25.0	27.6	
						RPD = 2.83	
13 gamma-Chlordane							
1	7.341	7.341	0.000	34570675	25.0	25.6	
2	9.284	9.284	0.000	39252706	25.0	26.7	
						RPD = 4.15	
14 alpha-Chlordane							
1	7.686	7.686	0.000	34705134	25.0	25.9	
2	9.583	9.583	0.000	37860570	25.0	26.7	
						RPD = 2.70	
15 Endosulfan I							
1	7.961	7.961	0.000	31441718	25.0	25.6	
2	9.652	9.652	0.000	35895888	25.0	27.2	
						RPD = 5.86	
16 4,4'-DDE							
1	8.071	8.071	0.000	24064243	25.0	20.3	
2	10.014	10.014	0.000	30358125	25.0	23.0	
						RPD = 12.37	
17 Dieldrin							
1	8.513	8.513	0.000	33824220	25.0	25.9	
2	10.167	10.167	0.000	37809602	25.0	27.6	
						RPD = 6.61	
18 Endrin							
1	8.965	8.965	0.000	30048724	25.0	26.1	
2	10.680	10.680	0.000	30843682	25.0	25.6	
						RPD = 1.99	
20 4,4'-DDD							
1	9.338	9.338	0.000	13903090	25.0	16.0	
2	11.010	11.010	0.000	17451498	25.0	17.8	
						RPD = 11.00	
21 Endosulfan II							
1	9.417	9.417	0.000	32099696	25.0	27.7	
2	11.050	11.050	0.000	36819727	25.0	31.5	
						RPD = 12.62	
23 4,4'-DDT							
1	9.847	9.847	0.000	17909123	25.0	18.7	
2	11.488	11.488	0.000	18624916	25.0	18.7	
						RPD = 0.46	
25 Endrin aldehyde							
1	10.212	10.212	0.000	20077364	25.0	22.5	
2	11.609	11.609	0.000	21554917	25.0	23.1	
						RPD = 2.38	
27 Methoxychlor							
1	10.802	10.802	0.000	9188118	25.0	20.1	
2	12.556	12.556	0.000	9559063	25.0	19.5	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.936	10.936	0.000	25457486	25.0	25.6	
2	12.031	12.031	0.000	26294877	25.0	24.8	
						RPD = 2.89	
29 Endrin ketone							
1	11.336	11.336	0.000	30603151	25.0	25.0	
2	12.774	12.774	0.000	30893633	25.0	25.2	
						RPD = 0.46	
$ 30 DCB Decachlorobiphenyl							
1	12.943	12.943	0.000	21605232	25.0	23.1	
2	14.492	14.492	0.000	23553800	25.0	23.1	
						RPD = 0.29	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

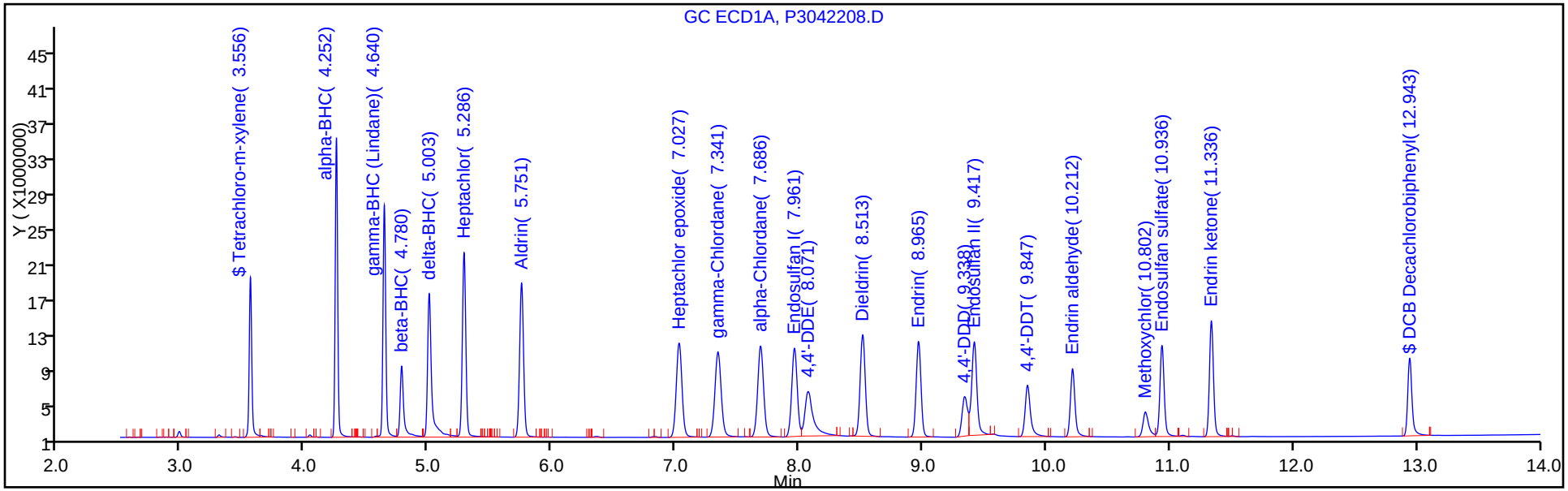
Report Date: 23-Apr-2015 07:42:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

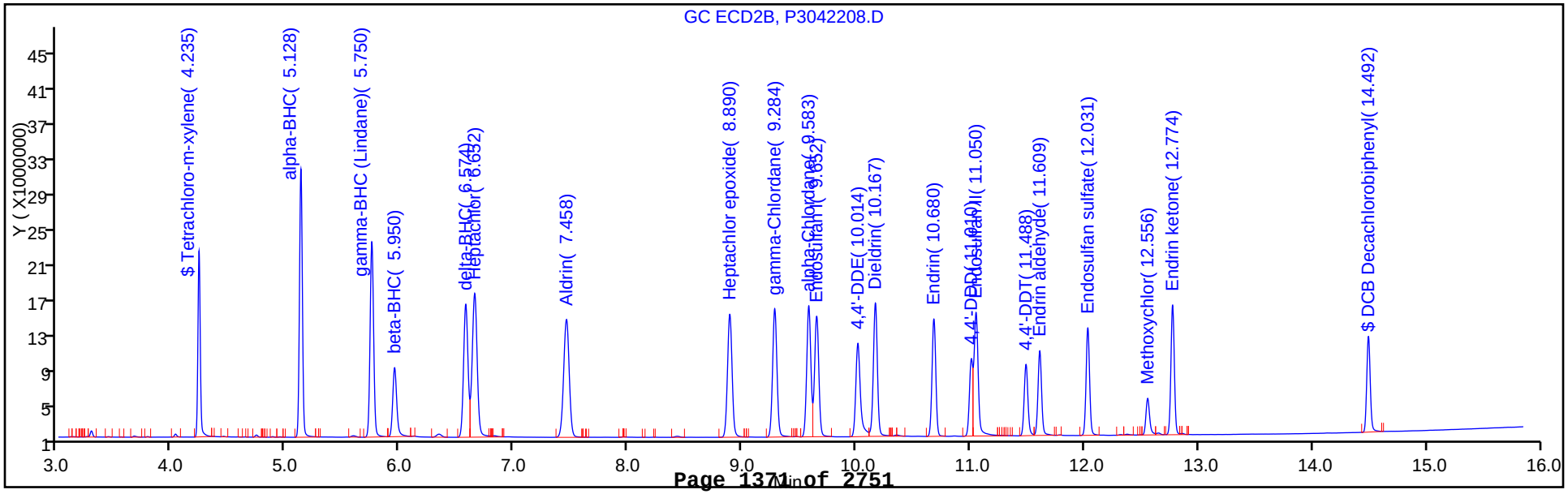
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042208.D

Injection Date:	22-Apr-2015 17:19:18	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/16 Calibration Date: 04/22/2015 20:29

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042216.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	2004636		28.9	25.0	15.8	20.0
gamma-BHC (Lindane)	Ave	1543740	1766817		28.6	25.0	14.5	20.0
beta-BHC	Ave	629842	717713		28.5	25.0	14.0	20.0
delta-BHC	Ave	1502830	1668242		27.8	25.0	11.0	20.0
Heptachlor	Ave	1459223	1756264		30.1	25.0	20.4*	20.0
Aldrin	Ave	1461888	1660526		28.4	25.0	13.6	20.0
Heptachlor epoxide	Ave	1303871	1500199		28.8	25.0	15.1	20.0
gamma-Chlordane	Ave	1350629	1506236		27.9	25.0	11.5	20.0
alpha-Chlordane	Ave	1337609	1496562		28.0	25.0	11.9	20.0
Endosulfan I	Ave	1227519	1392578		28.4	25.0	13.4	20.0
4,4'-DDE	Ave	1184677	1292192		27.3	25.0	9.1	20.0
Dieldrin	Ave	1307595	1497520		28.6	25.0	14.5	20.0
Endrin	Ave	1151386	1354419		29.4	25.0	17.6	20.0
4,4'-DDD	Ave	870416	927257		26.6	25.0	6.5	20.0
Endosulfan II	Ave	1156896	1393732		30.1	25.0	20.5*	20.0
4,4'-DDT	Ave	955198	954184		25.0	25.0	-0.1	20.0
Endrin aldehyde	Ave	890839	948870		26.6	25.0	6.5	20.0
Methoxychlor	Ave	458228	495660		27.0	25.0	8.2	20.0
Endosulfan sulfate	Ave	996194	1116898		28.0	25.0	12.1	20.0
Endrin ketone	Ave	1221980	1345974		27.5	25.0	10.1	20.0
Tetrachloro-m-xylene	Ave	983528	1122433		28.5	25.0	14.1	20.0
DCB Decachlorobiphenyl	Ave	936456	984067		26.3	25.0	5.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/16 Calibration Date: 04/22/2015 20:29

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042216.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.28	5.25	5.31
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.03	7.00	7.06
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.68	7.65	7.71
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.07	8.04	8.10
Dieldrin	8.51	8.48	8.54
Endrin	8.97	8.94	9.00
4,4'-DDD	9.33	9.30	9.36
Endosulfan II	9.42	9.39	9.45
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.80	10.77	10.83
Endosulfan sulfate	10.94	10.91	10.97
Endrin ketone	11.34	11.31	11.37
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042216.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 20:29:11 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-016
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	28060814	25.0	28.5	
2	4.234	4.234	0.000	31917060	25.0	28.3	
						RPD = 0.74	
4 alpha-BHC							
1	4.251	4.251	0.000	50115902	25.0	28.9	
2	5.128	5.128	0.000	56779915	25.0	29.0	
						RPD = 0.23	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	44170417	25.0	28.6	
2	5.751	5.751	0.000	50776203	25.0	28.7	
						RPD = 0.29	
6 beta-BHC							
1	4.779	4.779	0.000	17942813	25.0	28.5	
2	5.950	5.950	0.000	21439228	25.0	27.9	
						RPD = 2.08	
7 delta-BHC							
1	5.001	5.001	0.000	41706052	25.0	27.8	
2	6.574	6.574	0.000	47681767	25.0	26.9	
						RPD = 3.21	
9 Heptachlor							
1	5.284	5.284	0.000	43906593	25.0	30.1	
2	6.653	6.653	0.000	52337996	25.0	31.0	
						RPD = 2.85	
10 Aldrin							
1	5.750	5.750	0.000	41513138	25.0	28.4	
2	7.457	7.457	0.000	47652082	25.0	28.5	
						RPD = 0.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.025	7.025	0.000	37504965	25.0	28.8	
2	8.889	8.889	0.000	41479314	25.0	28.9	
						RPD = 0.46	
13 gamma-Chlordane							
1	7.339	7.339	0.000	37655904	25.0	27.9	
2	9.283	9.283	0.000	41146915	25.0	28.0	
						RPD = 0.32	
14 alpha-Chlordane							
1	7.684	7.684	0.000	37414040	25.0	28.0	
2	9.583	9.583	0.000	39808197	25.0	28.0	
						RPD = 0.20	
15 Endosulfan I							
1	7.958	7.958	0.000	34814454	25.0	28.4	
2	9.652	9.652	0.000	37910250	25.0	28.7	
						RPD = 1.13	
16 4,4'-DDE							
1	8.065	8.065	0.000	32304789	25.0	27.3	
2	10.012	10.012	0.000	36477489	25.0	27.6	
						RPD = 1.30	
17 Dieldrin							
1	8.513	8.513	0.000	37437995	25.0	28.6	
2	10.167	10.167	0.000	39300656	25.0	28.7	
						RPD = 0.33	
18 Endrin							
1	8.965	8.965	0.000	33860471	25.0	29.4	
2	10.681	10.681	0.000	33874167	25.0	28.1	
						RPD = 4.56	
20 4,4'-DDD							
1	9.332	9.332	0.000	23181427	25.0	26.6	
2	11.005	11.005	0.000	25944854	25.0	26.5	
						RPD = 0.46	
21 Endosulfan II							
1	9.415	9.415	0.000	34843296	25.0	30.1	
2	11.050	11.050	0.000	36064803	25.0	30.8	
						RPD = 2.37	
23 4,4'-DDT							
1	9.844	9.844	0.000	23854610	25.0	25.0	
2	11.487	11.487	0.000	23585381	25.0	23.6	
						RPD = 5.52	
25 Endrin aldehyde							
1	10.210	10.210	0.000	23721743	25.0	26.6	
2	11.608	11.608	0.000	24463611	25.0	26.2	
						RPD = 1.64	
27 Methoxychlor							
1	10.795	10.795	0.000	12391488	25.0	27.0	
2	12.554	12.554	0.000	11822644	25.0	24.2	
						RPD = 11.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.935	10.935	0.000	27922452	25.0	28.0	
2	12.030	12.030	0.000	29097011	25.0	27.5	
						RPD = 2.01	
29 Endrin ketone							
1	11.336	11.336	0.000	33649359	25.0	27.5	
2	12.773	12.773	0.000	33508738	25.0	27.3	
						RPD = 0.90	
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.940	0.000	24601674	25.0	26.3	
2	14.492	14.492	0.000	26492036	25.0	26.0	
						RPD = 0.94	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

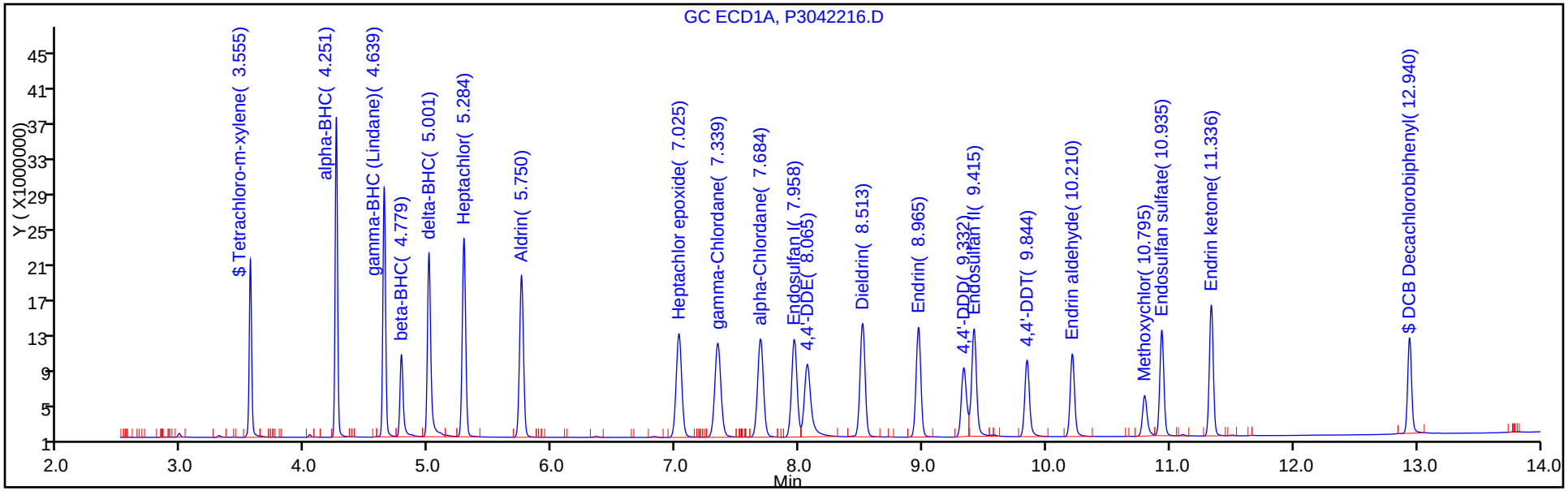
Report Date: 23-Apr-2015 07:42:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

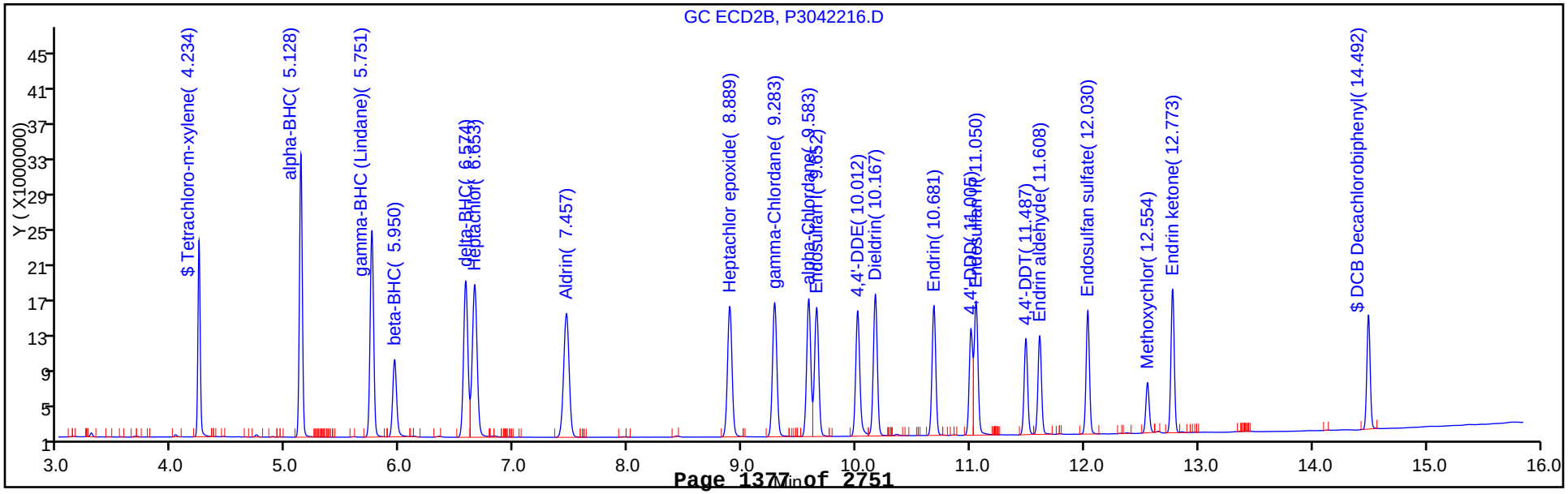
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042216.D

Injection Date:	22-Apr-2015 20:29:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/16 Calibration Date: 04/22/2015 20:29

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042216.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2271197		29.0	25.0	16.0	20.0
gamma-BHC (Lindane)	Ave	1769514	2031048		28.7	25.0	14.8	20.0
beta-BHC	Ave	768367	857569		27.9	25.0	11.6	20.0
delta-BHC	Ave	1774158	1907271		26.9	25.0	7.5	20.0
Heptachlor	Ave	1690527	2093520		31.0	25.0	23.8*	20.0
Aldrin	Ave	1672196	1906083		28.5	25.0	14.0	20.0
Heptachlor epoxide	Ave	1435426	1659173		28.9	25.0	15.6	20.0
gamma-Chlordane	Ave	1471152	1645877		28.0	25.0	11.9	20.0
alpha-Chlordane	Ave	1420369	1592328		28.0	25.0	12.1	20.0
Endosulfan I	Ave	1321597	1516410		28.7	25.0	14.7	20.0
4,4'-DDE	Ave	1320422	1459100		27.6	25.0	10.5	20.0
Dieldrin	Ave	1368089	1572026		28.7	25.0	14.9	20.0
Endrin	Ave	1205577	1354967		28.1	25.0	12.4	20.0
4,4'-DDD	Ave	978644	1037794		26.5	25.0	6.0	20.0
Endosulfan II	Ave	1169425	1442592		30.8	25.0	23.4*	20.0
4,4'-DDT	Ave	997996	943415		23.6	25.0	-5.5	20.0
Endrin aldehyde	Ave	933862	978544		26.2	25.0	4.8	20.0
Endosulfan sulfate	Ave	1059131	1163880		27.5	25.0	9.9	20.0
Methoxychlor	Ave	489196	472906		24.2	25.0	-3.3	20.0
Endrin ketone	Ave	1227876	1340350		27.3	25.0	9.2	20.0
Tetrachloro-m-xylene	Ave	1127022	1276682		28.3	25.0	13.3	20.0
DCB Decachlorobiphenyl	Ave	1017987	1059681		26.0	25.0	4.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/16 Calibration Date: 04/22/2015 20:29

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042216.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.28	9.25	9.31
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.23	4.20	4.26
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042216.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 20:29:11 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-016
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	28060814	25.0	28.5	
2	4.234	4.234	0.000	31917060	25.0	28.3	
						RPD = 0.74	
4 alpha-BHC							
1	4.251	4.251	0.000	50115902	25.0	28.9	
2	5.128	5.128	0.000	56779915	25.0	29.0	
						RPD = 0.23	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	44170417	25.0	28.6	
2	5.751	5.751	0.000	50776203	25.0	28.7	
						RPD = 0.29	
6 beta-BHC							
1	4.779	4.779	0.000	17942813	25.0	28.5	
2	5.950	5.950	0.000	21439228	25.0	27.9	
						RPD = 2.08	
7 delta-BHC							
1	5.001	5.001	0.000	41706052	25.0	27.8	
2	6.574	6.574	0.000	47681767	25.0	26.9	
						RPD = 3.21	
9 Heptachlor							
1	5.284	5.284	0.000	43906593	25.0	30.1	
2	6.653	6.653	0.000	52337996	25.0	31.0	
						RPD = 2.85	
10 Aldrin							
1	5.750	5.750	0.000	41513138	25.0	28.4	
2	7.457	7.457	0.000	47652082	25.0	28.5	
						RPD = 0.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.025	7.025	0.000	37504965	25.0	28.8	
2	8.889	8.889	0.000	41479314	25.0	28.9	
						RPD = 0.46	
13 gamma-Chlordane							
1	7.339	7.339	0.000	37655904	25.0	27.9	
2	9.283	9.283	0.000	41146915	25.0	28.0	
						RPD = 0.32	
14 alpha-Chlordane							
1	7.684	7.684	0.000	37414040	25.0	28.0	
2	9.583	9.583	0.000	39808197	25.0	28.0	
						RPD = 0.20	
15 Endosulfan I							
1	7.958	7.958	0.000	34814454	25.0	28.4	
2	9.652	9.652	0.000	37910250	25.0	28.7	
						RPD = 1.13	
16 4,4'-DDE							
1	8.065	8.065	0.000	32304789	25.0	27.3	
2	10.012	10.012	0.000	36477489	25.0	27.6	
						RPD = 1.30	
17 Dieldrin							
1	8.513	8.513	0.000	37437995	25.0	28.6	
2	10.167	10.167	0.000	39300656	25.0	28.7	
						RPD = 0.33	
18 Endrin							
1	8.965	8.965	0.000	33860471	25.0	29.4	
2	10.681	10.681	0.000	33874167	25.0	28.1	
						RPD = 4.56	
20 4,4'-DDD							
1	9.332	9.332	0.000	23181427	25.0	26.6	
2	11.005	11.005	0.000	25944854	25.0	26.5	
						RPD = 0.46	
21 Endosulfan II							
1	9.415	9.415	0.000	34843296	25.0	30.1	
2	11.050	11.050	0.000	36064803	25.0	30.8	
						RPD = 2.37	
23 4,4'-DDT							
1	9.844	9.844	0.000	23854610	25.0	25.0	
2	11.487	11.487	0.000	23585381	25.0	23.6	
						RPD = 5.52	
25 Endrin aldehyde							
1	10.210	10.210	0.000	23721743	25.0	26.6	
2	11.608	11.608	0.000	24463611	25.0	26.2	
						RPD = 1.64	
27 Methoxychlor							
1	10.795	10.795	0.000	12391488	25.0	27.0	
2	12.554	12.554	0.000	11822644	25.0	24.2	
						RPD = 11.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.935	10.935	0.000	27922452	25.0	28.0	
2	12.030	12.030	0.000	29097011	25.0	27.5	
						RPD = 2.01	
29 Endrin ketone							
1	11.336	11.336	0.000	33649359	25.0	27.5	
2	12.773	12.773	0.000	33508738	25.0	27.3	
						RPD = 0.90	
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.940	0.000	24601674	25.0	26.3	
2	14.492	14.492	0.000	26492036	25.0	26.0	
						RPD = 0.94	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

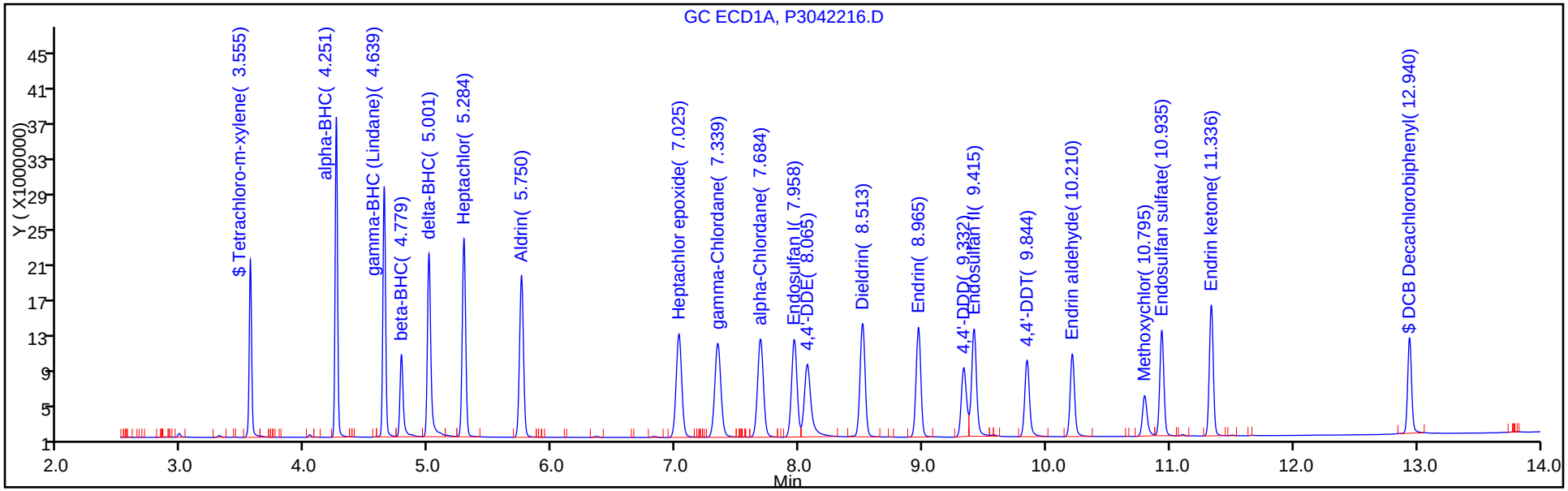
Report Date: 23-Apr-2015 07:42:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

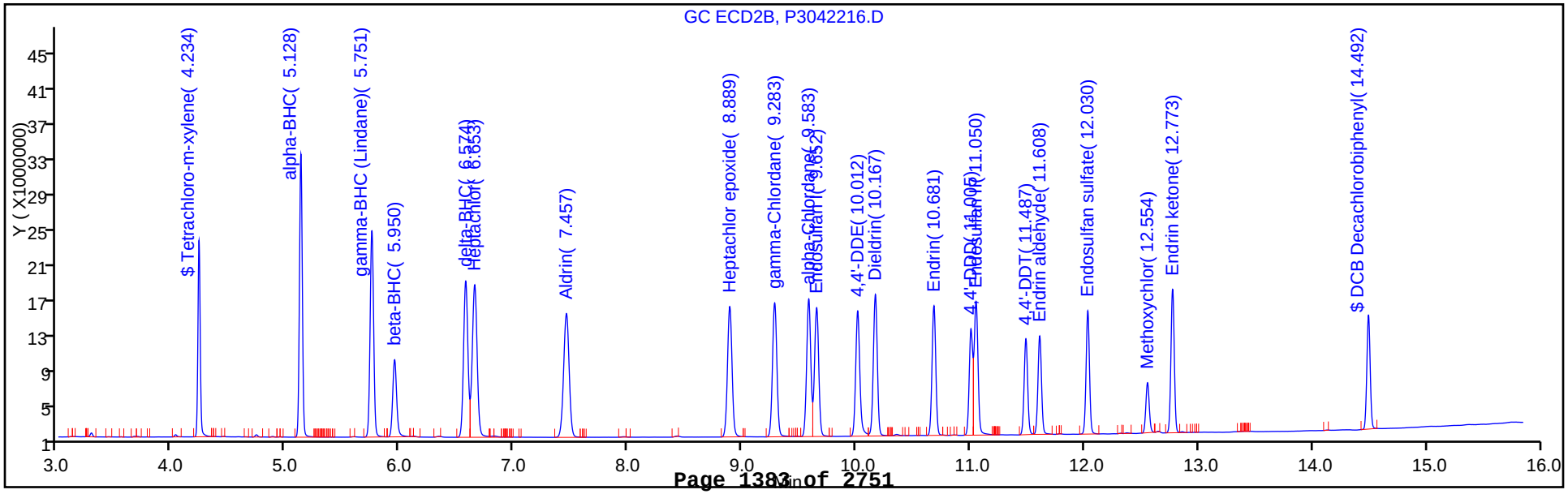
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042216.D

Injection Date:	22-Apr-2015 20:29:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/22 Calibration Date: 04/22/2015 22:50

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042222.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	37833	40351		1070	1000	6.7	20.0
Toxaphene Peak 2	Ave	36644	37992		1040	1000	3.7	20.0
Toxaphene Peak 3	Ave	23355	22267		953	1000	-4.7	20.0
Toxaphene Peak 4	Ave	33176	32583		982	1000	-1.8	20.0
Toxaphene Peak 5	Ave	32330	27543		852	1000	-14.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/22 Calibration Date: 04/22/2015 22:50

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042222.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.62	9.59	9.65
Toxaphene Peak 2	10.08	10.05	10.11
Toxaphene Peak 3	10.39	10.36	10.42
Toxaphene Peak 4	10.74	10.71	10.77
Toxaphene Peak 5	10.84	10.81	10.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042222.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 22:50:58 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-022
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:51 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:39:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.622	9.622	0.000	40351483	1000.0	1066.6	M
1	10.083	10.083	0.000	37991953	1000.0	1036.8	M
1	10.393	10.393	0.000	22266827	1000.0	953.4	M
1	10.735	10.735	0.000	32583089	1000.0	982.1	M
1	10.842	10.842	0.000	27543414	1000.0	851.9	M
		Average of Peak Amounts =				978.2	
2	11.025	11.025	0.000	53895983	1000.0	1040.0	M
2	11.195	11.195	0.000	53219523	1000.0	1044.2	M
2	11.619	11.619	0.000	35990289	1000.0	1009.8	M
2	12.354	12.354	0.000	45052494	1000.0	987.4	M
2	12.444	12.444	0.000	13869733	1000.0	890.8	M
		Average of Peak Amounts =				994.4	
						RPD = 1.65	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

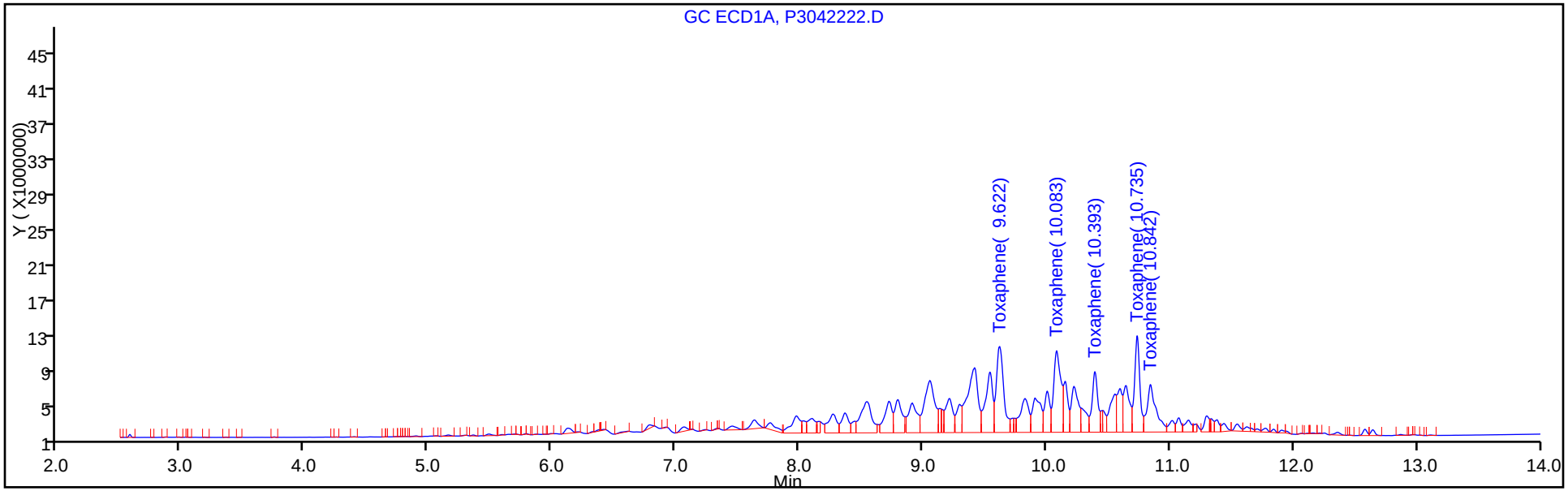
Report Date: 23-Apr-2015 07:42:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

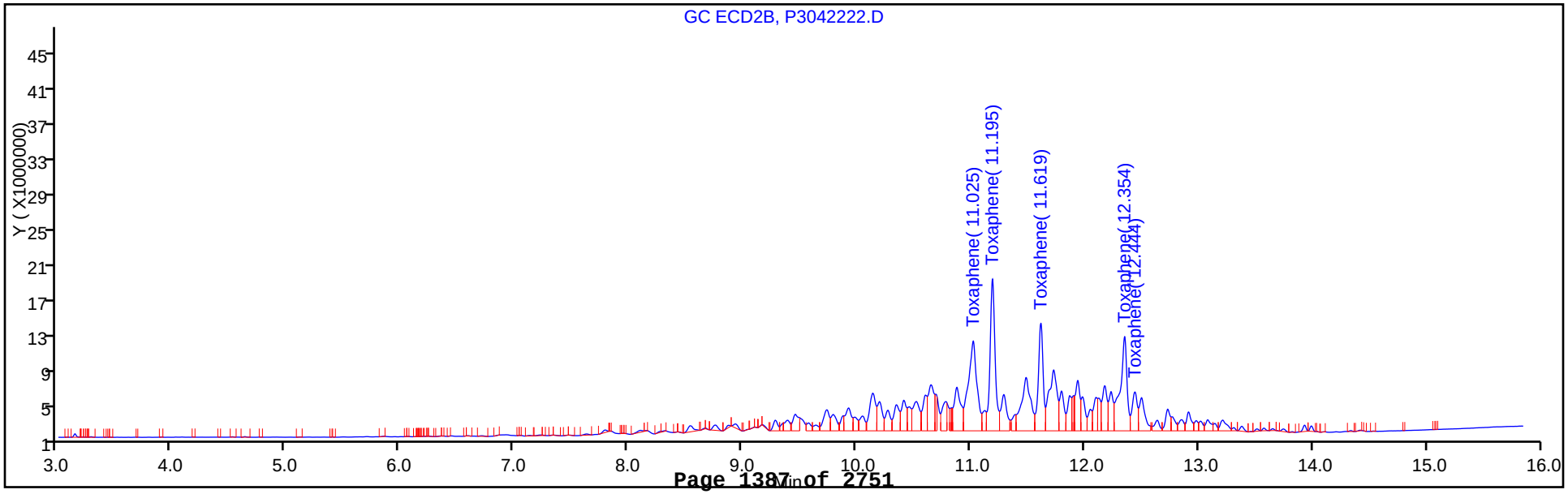
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042222.D

Injection Date:	22-Apr-2015 22:50:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



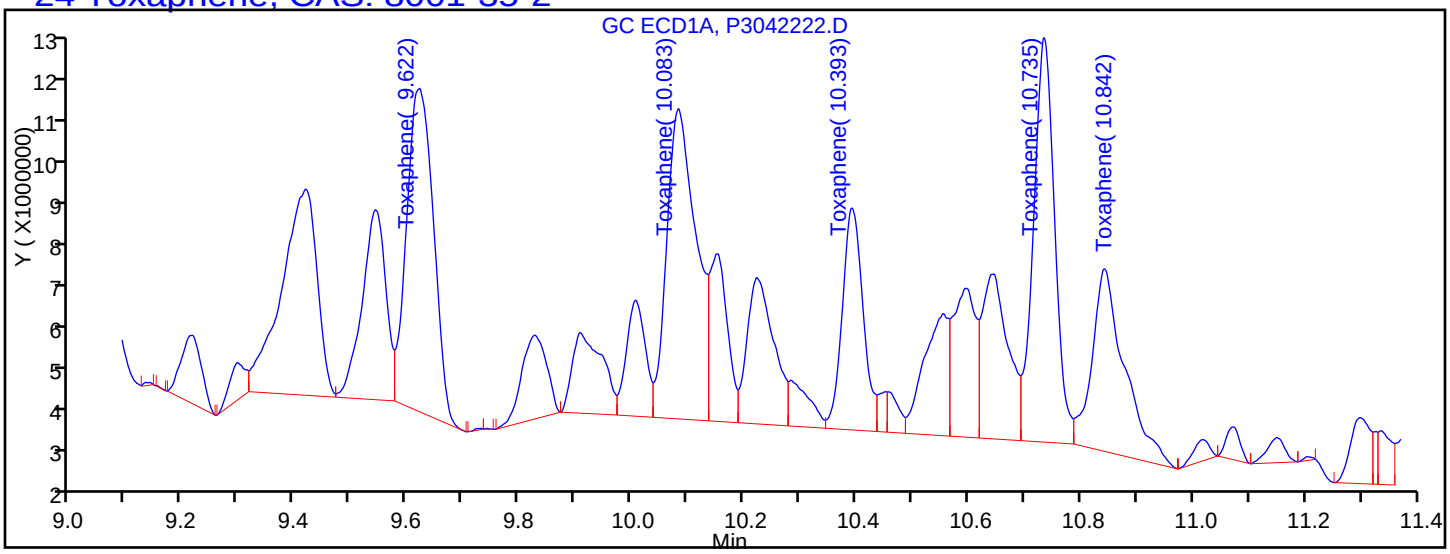
Report Date: 23-Apr-2015 07:42:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042222.D

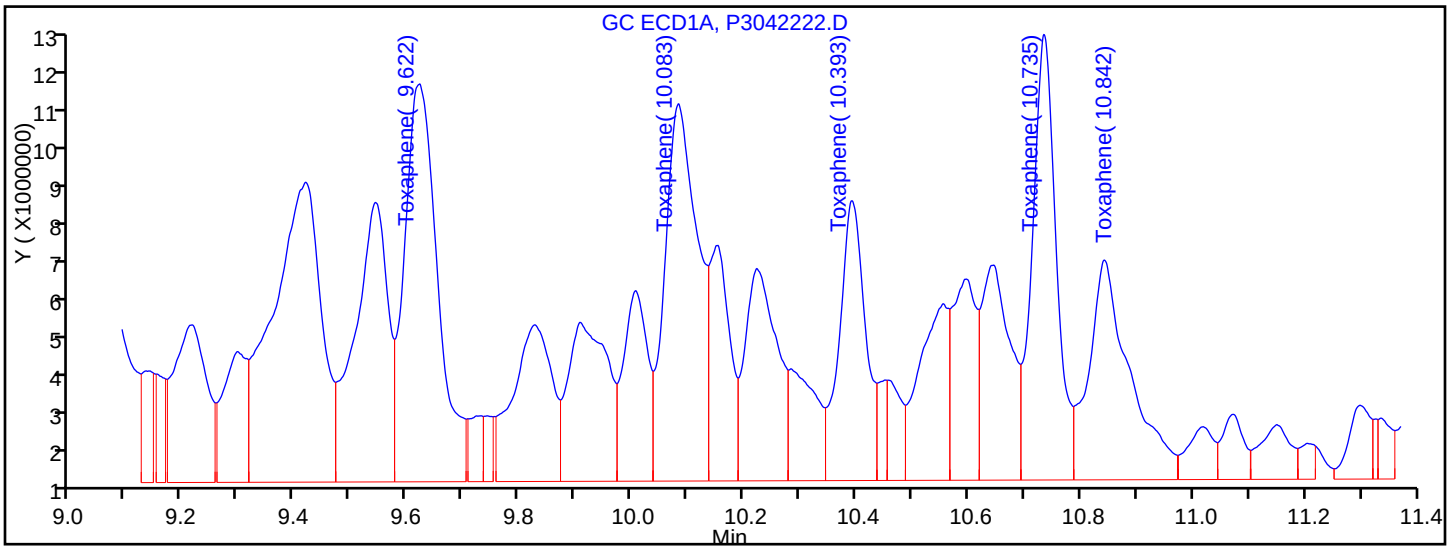
Injection Date:	22-Apr-2015 22:50:58	Instrument ID:	A2HP3
Lims ID:	CCV TOX3		
Client ID:			
Operator ID:	430893	ALS Bottle#:	22 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL
Column:		Detector	GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.622	Response = 25800777	M
RT = 10.083	Response = 27160984	M
RT = 10.393	Response = 13742759	M
RT = 10.735	Response = 25585487	M
RT = 10.842	Response = 17607177	M



Manual Integration Results

RT = 9.622	Response = 40351483	M
RT = 10.083	Response = 37991953	M
RT = 10.393	Response = 22266827	M
RT = 10.735	Response = 32583089	M
RT = 10.842	Response = 27543414	M

Reviewer: matthewsb, 23-Apr-2015 07:39:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/22 Calibration Date: 04/22/2015 22:50

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042222.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	51823	53896		1040	1000	4.0	20.0
Toxaphene Peak 2	Ave	50965	53220		1040	1000	4.4	20.0
Toxaphene Peak 3	Ave	35641	35990		1010	1000	1.0	20.0
Toxaphene Peak 4	Ave	45629	45052		987	1000	-1.3	20.0
Toxaphene Peak 5	Ave	15570	13870		891	1000	-10.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/22 Calibration Date: 04/22/2015 22:50

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 15:37

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 17:11

Lab File ID: P3042222.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	11.03	11.00	11.06
Toxaphene Peak 2	11.20	11.17	11.23
Toxaphene Peak 3	11.62	11.59	11.65
Toxaphene Peak 4	12.35	12.32	12.38
Toxaphene Peak 5	12.44	12.41	12.47

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042222.D
Lims ID: CCV TOX3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 22:50:58 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-022
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub5

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:51 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:39:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							M
1	9.622	9.622	0.000	40351483	1000.0	1066.6	M
1	10.083	10.083	0.000	37991953	1000.0	1036.8	M
1	10.393	10.393	0.000	22266827	1000.0	953.4	M
1	10.735	10.735	0.000	32583089	1000.0	982.1	M
1	10.842	10.842	0.000	27543414	1000.0	851.9	M
		Average of Peak Amounts =				978.2	
2	11.025	11.025	0.000	53895983	1000.0	1040.0	M
2	11.195	11.195	0.000	53219523	1000.0	1044.2	M
2	11.619	11.619	0.000	35990289	1000.0	1009.8	M
2	12.354	12.354	0.000	45052494	1000.0	987.4	M
2	12.444	12.444	0.000	13869733	1000.0	890.8	M
		Average of Peak Amounts =				994.4	
						RPD = 1.65	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 100.00 Units: uL

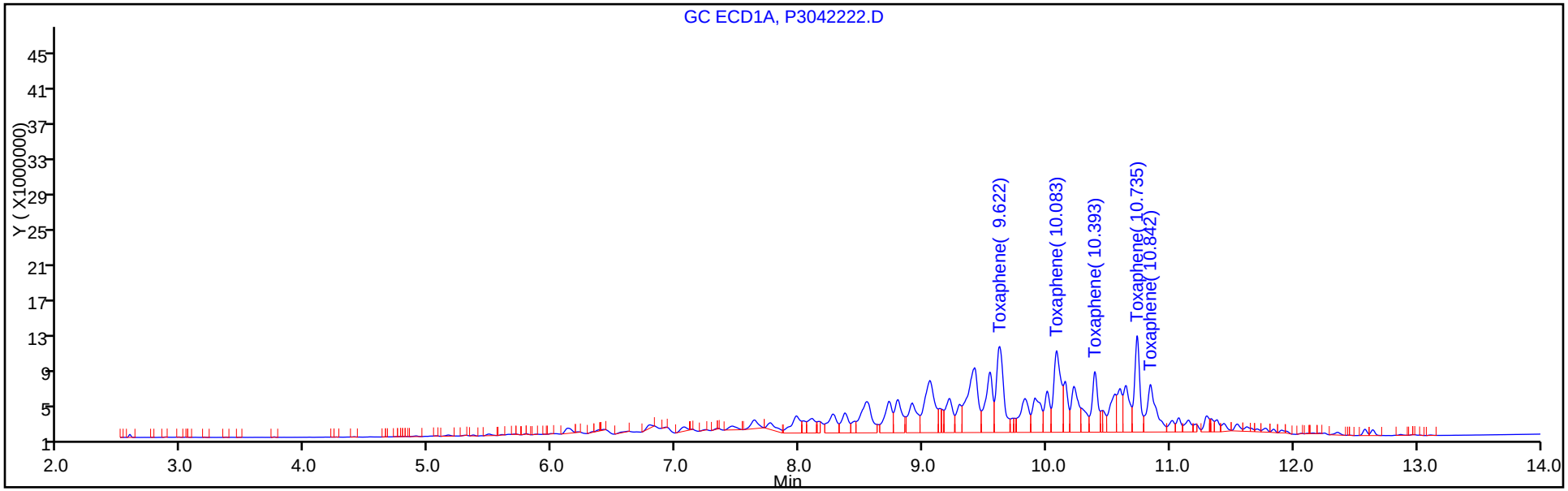
Report Date: 23-Apr-2015 07:42:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

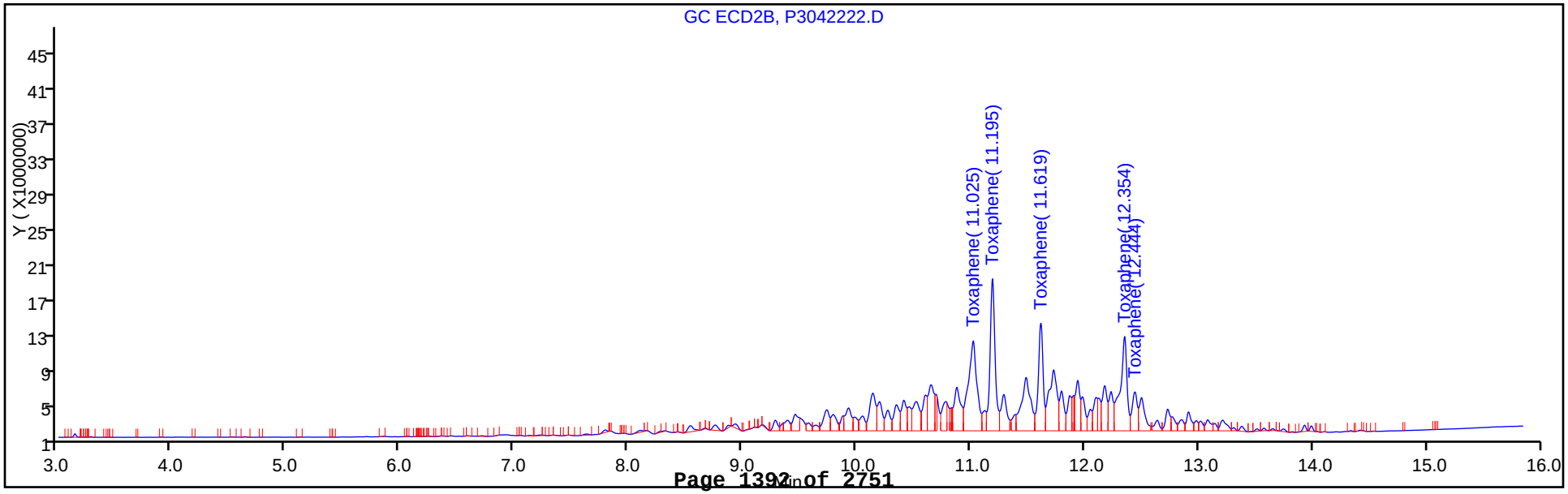
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042222.D

Injection Date:	22-Apr-2015 22:50:58	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV TOX3			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 07:42:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042222.D

Injection Date: 22-Apr-2015 22:50:58 Instrument ID: A2HP3

Lims ID: CCV TOX3

Client ID:

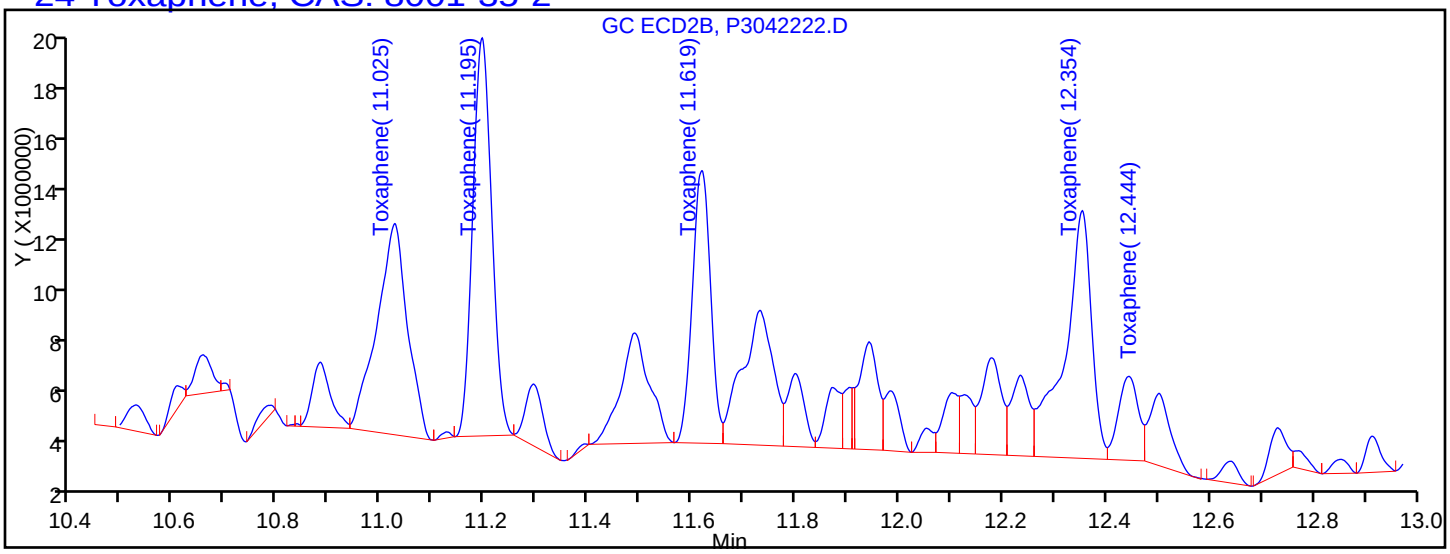
Operator ID: 430893 ALS Bottle#: 22 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

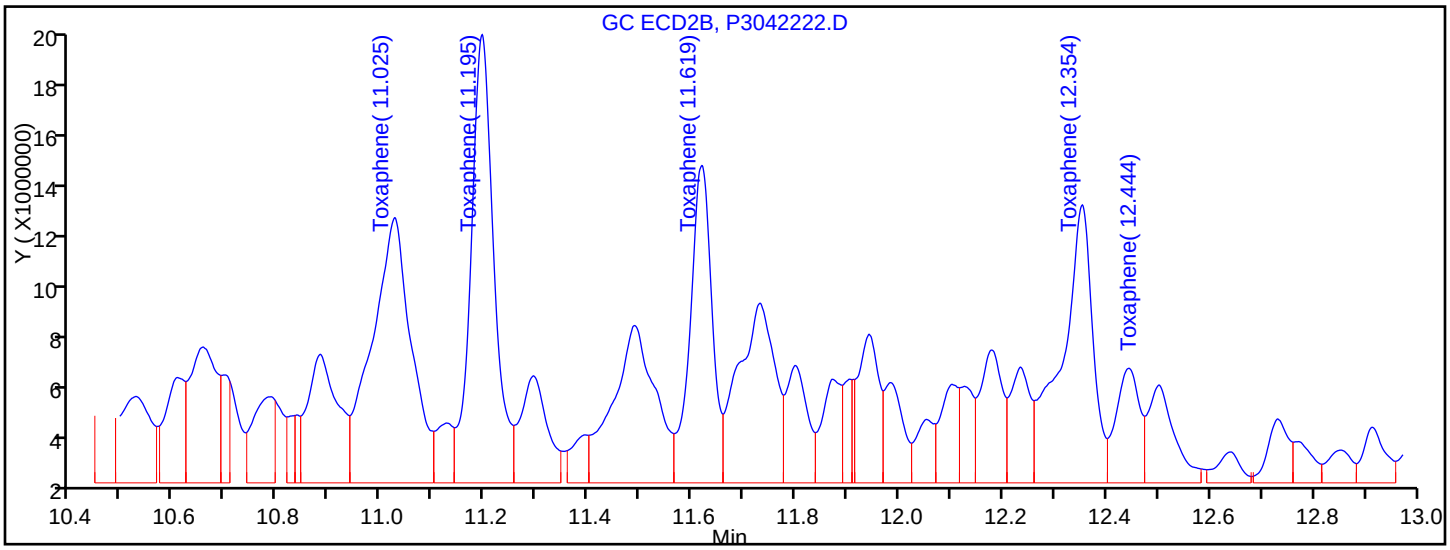
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.025	Response = 32547908	M
RT = 11.195	Response = 38437222	M
RT = 11.619	Response = 25339340	M
RT = 12.354	Response = 33913652	M
RT = 12.444	Response = 8602405	M



Manual Integration Results

RT = 11.025	Response = 53895983	M
RT = 11.195	Response = 53219523	M
RT = 11.619	Response = 35990289	M
RT = 12.354	Response = 45052494	M
RT = 12.444	Response = 13869733	M

Reviewer: matthewsb, 23-Apr-2015 07:39:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/24 Calibration Date: 04/22/2015 23:37

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042224.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1731837	2054230		29.7	25.0	18.6	20.0
gamma-BHC (Lindane)	Ave	1543740	1811129		29.3	25.0	17.3	20.0
beta-BHC	Ave	629842	727399		28.9	25.0	15.5	20.0
delta-BHC	Ave	1502830	1685359		28.0	25.0	12.1	20.0
Heptachlor	Ave	1459223	1798432		30.8	25.0	23.2*	20.0
Aldrin	Ave	1461888	1707430		29.2	25.0	16.8	20.0
Heptachlor epoxide	Ave	1303871	1528777		29.3	25.0	17.2	20.0
gamma-Chlordane	Ave	1350629	1532189		28.4	25.0	13.4	20.0
alpha-Chlordane	Ave	1337609	1530044		28.6	25.0	14.4	20.0
Endosulfan I	Ave	1227519	1427895		29.1	25.0	16.3	20.0
4,4'-DDE	Ave	1184677	1296062		27.4	25.0	9.4	20.0
Dieldrin	Ave	1307595	1555729		29.7	25.0	19.0	20.0
Endrin	Ave	1151386	1383694		30.0	25.0	20.2*	20.0
4,4'-DDD	Ave	870416	838344		24.1	25.0	-3.7	20.0
Endosulfan II	Ave	1156896	1501152		32.4	25.0	29.8*	20.0
4,4'-DDT	Ave	955198	935773		24.5	25.0	-2.0	20.0
Endrin aldehyde	Ave	890839	965497		27.1	25.0	8.4	20.0
Methoxychlor	Ave	458228	495124		27.0	25.0	8.1	20.0
Endosulfan sulfate	Ave	996194	1182126		29.7	25.0	18.7	20.0
Endrin ketone	Ave	1221980	1417907		29.0	25.0	16.0	20.0
Tetrachloro-m-xylene	Ave	983528	1144539		29.1	25.0	16.4	20.0
DCB Decachlorobiphenyl	Ave	936456	1036594		27.7	25.0	10.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/24 Calibration Date: 04/22/2015 23:37

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042224.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.25	4.22	4.28
gamma-BHC (Lindane)	4.64	4.61	4.67
beta-BHC	4.78	4.75	4.81
delta-BHC	5.00	4.97	5.03
Heptachlor	5.28	5.25	5.31
Aldrin	5.75	5.72	5.78
Heptachlor epoxide	7.02	6.99	7.05
gamma-Chlordane	7.34	7.31	7.37
alpha-Chlordane	7.69	7.66	7.72
Endosulfan I	7.96	7.93	7.99
4,4'-DDE	8.07	8.04	8.10
Dieldrin	8.51	8.48	8.54
Endrin	8.96	8.93	8.99
4,4'-DDD	9.33	9.30	9.36
Endosulfan II	9.41	9.38	9.44
4,4'-DDT	9.84	9.81	9.87
Endrin aldehyde	10.21	10.18	10.24
Methoxychlor	10.80	10.77	10.83
Endosulfan sulfate	10.93	10.90	10.96
Endrin ketone	11.33	11.30	11.36
Tetrachloro-m-xylene	3.56	3.53	3.59
DCB Decachlorobiphenyl	12.94	12.91	12.97

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042224.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 23:37:14 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-024
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:54 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:42:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	28613487	25.0	29.1	
2	4.235	4.235	0.000	33337363	25.0	29.6	
						RPD = 1.66	
4 alpha-BHC							
1	4.251	4.251	0.000	51355739	25.0	29.7	
2	5.128	5.128	0.000	58910387	25.0	30.1	
						RPD = 1.47	
5 gamma-BHC (Lindane)							
1	4.638	4.638	0.000	45278222	25.0	29.3	
2	5.751	5.751	0.000	52901914	25.0	29.9	
						RPD = 1.91	
6 beta-BHC							
1	4.778	4.778	0.000	18184985	25.0	28.9	
2	5.951	5.951	0.000	22533467	25.0	29.3	
						RPD = 1.56	
7 delta-BHC							
1	5.001	5.001	0.000	42133972	25.0	28.0	
2	6.573	6.573	0.000	47953212	25.0	27.0	
						RPD = 3.66	
9 Heptachlor							
1	5.284	5.284	0.000	44960806	25.0	30.8	
2	6.652	6.652	0.000	55086927	25.0	32.6	
						RPD = 5.60	
10 Aldrin							
1	5.749	5.749	0.000	42685759	25.0	29.2	
2	7.459	7.459	0.000	49369107	25.0	29.5	
						RPD = 1.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.023	7.023	0.000	38219413	25.0	29.3	
2	8.890	8.890	0.000	43434864	25.0	30.3	
						RPD = 3.18	
13 gamma-Chlordane							
1	7.339	7.339	0.000	38304731	25.0	28.4	
2	9.286	9.286	0.000	42683612	25.0	29.0	
						RPD = 2.28	
14 alpha-Chlordane							
1	7.686	7.686	0.000	38251111	25.0	28.6	
2	9.583	9.583	0.000	41502901	25.0	29.2	
						RPD = 2.16	
15 Endosulfan I							
1	7.958	7.958	0.000	35697365	25.0	29.1	
2	9.653	9.653	0.000	40033954	25.0	30.3	
						RPD = 4.08	
16 4,4'-DDE							
1	8.065	8.065	0.000	32401560	25.0	27.4	
2	10.012	10.012	0.000	36819023	25.0	27.9	
						RPD = 1.93	
17 Dieldrin							
1	8.510	8.510	0.000	38893226	25.0	29.7	
2	10.166	10.166	0.000	41443552	25.0	30.3	
						RPD = 1.83	
18 Endrin							
1	8.963	8.963	0.000	34592343	25.0	30.0	
2	10.681	10.681	0.000	35444004	25.0	29.4	
						RPD = 2.17	
20 4,4'-DDD							
1	9.332	9.332	0.000	20958606	25.0	24.1	
2	11.006	11.006	0.000	23890615	25.0	24.4	
						RPD = 1.37	
21 Endosulfan II							
1	9.414	9.414	0.000	37528803	25.0	32.4	
2	11.050	11.050	0.000	40555249	25.0	34.7	
						RPD = 6.68	
23 4,4'-DDT							
1	9.843	9.843	0.000	23394329	25.0	24.5	
2	11.486	11.486	0.000	23990476	25.0	24.0	
						RPD = 1.87	
25 Endrin aldehyde							
1	10.209	10.209	0.000	24137415	25.0	27.1	
2	11.609	11.609	0.000	25558524	25.0	27.4	
						RPD = 1.00	
27 Methoxychlor							
1	10.797	10.797	0.000	12378105	25.0	27.0	
2	12.554	12.554	0.000	12468980	25.0	25.5	
						RPD = 5.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.934	10.934	0.000	29553151	25.0	29.7	
2	12.030	12.030	0.000	30705697	25.0	29.0	
						RPD = 2.30	
29 Endrin ketone							
1	11.334	11.334	0.000	35447684	25.0	29.0	
2	12.774	12.774	0.000	35854165	25.0	29.2	
						RPD = 0.66	
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.941	0.000	25914853	25.0	27.7	
2	14.491	14.491	0.000	28130193	25.0	27.6	
						RPD = 0.15	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

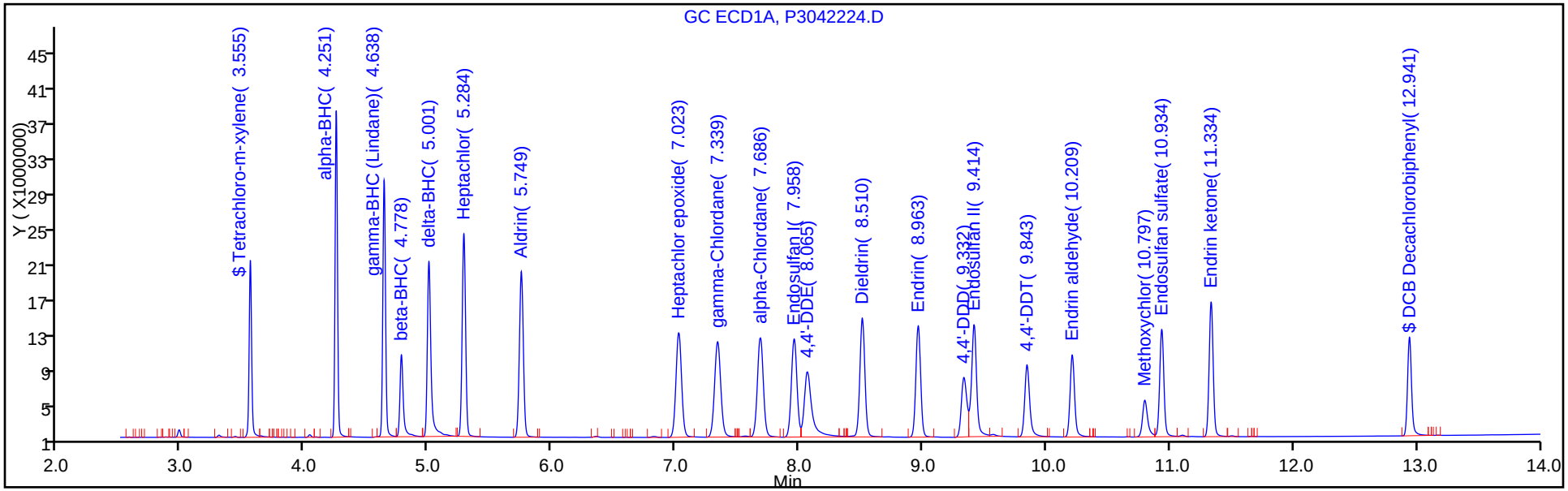
Report Date: 23-Apr-2015 07:42:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

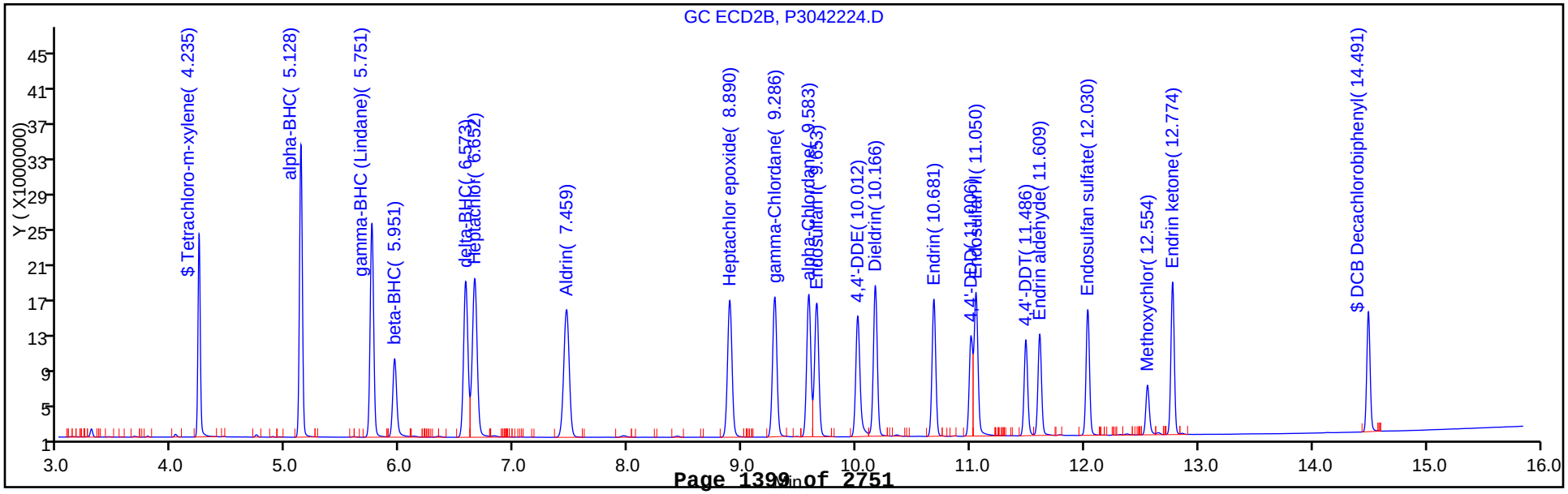
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042224.D

Injection Date:	22-Apr-2015 23:37:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/24 Calibration Date: 04/22/2015 23:37

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042224.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1957541	2356415		30.1	25.0	20.4*	20.0
gamma-BHC (Lindane)	Ave	1769514	2116077		29.9	25.0	19.6	20.0
beta-BHC	Ave	768367	901339		29.3	25.0	17.3	20.0
delta-BHC	Ave	1774158	1918128		27.0	25.0	8.1	20.0
Heptachlor	Ave	1690527	2203477		32.6	25.0	30.3*	20.0
Aldrin	Ave	1672196	1974764		29.5	25.0	18.1	20.0
Heptachlor epoxide	Ave	1435426	1737395		30.3	25.0	21.0*	20.0
gamma-Chlordane	Ave	1471152	1707344		29.0	25.0	16.1	20.0
alpha-Chlordane	Ave	1420369	1660116		29.2	25.0	16.9	20.0
Endosulfan I	Ave	1321597	1601358		30.3	25.0	21.2*	20.0
4,4'-DDE	Ave	1320422	1472761		27.9	25.0	11.5	20.0
Dieldrin	Ave	1368089	1657742		30.3	25.0	21.2*	20.0
Endrin	Ave	1205577	1417760		29.4	25.0	17.6	20.0
4,4'-DDD	Ave	978644	955625		24.4	25.0	-2.4	20.0
Endosulfan II	Ave	1169425	1622210		34.7	25.0	38.7*	20.0
4,4'-DDT	Ave	997996	959619		24.0	25.0	-3.8	20.0
Endrin aldehyde	Ave	933862	1022341		27.4	25.0	9.5	20.0
Endosulfan sulfate	Ave	1059131	1228228		29.0	25.0	16.0	20.0
Methoxychlor	Ave	489196	498759		25.5	25.0	2.0	20.0
Endrin ketone	Ave	1227876	1434167		29.2	25.0	16.8	20.0
Tetrachloro-m-xylene	Ave	1127022	1333495		29.6	25.0	18.3	20.0
DCB Decachlorobiphenyl	Ave	1017987	1125208		27.6	25.0	10.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177463/24 Calibration Date: 04/22/2015 23:37

Instrument ID: A2HP3 Calib Start Date: 03/31/2015 20:34

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 03/31/2015 22:29

Lab File ID: P3042224.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.13	5.10	5.16
gamma-BHC (Lindane)	5.75	5.72	5.78
beta-BHC	5.95	5.92	5.98
delta-BHC	6.57	6.54	6.60
Heptachlor	6.65	6.62	6.68
Aldrin	7.46	7.43	7.49
Heptachlor epoxide	8.89	8.86	8.92
gamma-Chlordane	9.29	9.26	9.32
alpha-Chlordane	9.58	9.55	9.61
Endosulfan I	9.65	9.62	9.68
4,4'-DDE	10.01	9.98	10.04
Dieldrin	10.17	10.14	10.20
Endrin	10.68	10.65	10.71
4,4'-DDD	11.01	10.98	11.04
Endosulfan II	11.05	11.02	11.08
4,4'-DDT	11.49	11.46	11.52
Endrin aldehyde	11.61	11.58	11.64
Endosulfan sulfate	12.03	12.00	12.06
Methoxychlor	12.55	12.52	12.58
Endrin ketone	12.77	12.74	12.80
Tetrachloro-m-xylene	4.24	4.21	4.27
DCB Decachlorobiphenyl	14.49	14.46	14.52

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042224.D
Lims ID: CCV AB3
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 23:37:14 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-024
Operator ID: 430893 Instrument ID: A2HP3
Sublist: chrom-PEST3*sub7

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:54 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:42:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	28613487	25.0	29.1	
2	4.235	4.235	0.000	33337363	25.0	29.6	
						RPD = 1.66	
4 alpha-BHC							
1	4.251	4.251	0.000	51355739	25.0	29.7	
2	5.128	5.128	0.000	58910387	25.0	30.1	
						RPD = 1.47	
5 gamma-BHC (Lindane)							
1	4.638	4.638	0.000	45278222	25.0	29.3	
2	5.751	5.751	0.000	52901914	25.0	29.9	
						RPD = 1.91	
6 beta-BHC							
1	4.778	4.778	0.000	18184985	25.0	28.9	
2	5.951	5.951	0.000	22533467	25.0	29.3	
						RPD = 1.56	
7 delta-BHC							
1	5.001	5.001	0.000	42133972	25.0	28.0	
2	6.573	6.573	0.000	47953212	25.0	27.0	
						RPD = 3.66	
9 Heptachlor							
1	5.284	5.284	0.000	44960806	25.0	30.8	
2	6.652	6.652	0.000	55086927	25.0	32.6	
						RPD = 5.60	
10 Aldrin							
1	5.749	5.749	0.000	42685759	25.0	29.2	
2	7.459	7.459	0.000	49369107	25.0	29.5	
						RPD = 1.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.023	7.023	0.000	38219413	25.0	29.3	
2	8.890	8.890	0.000	43434864	25.0	30.3	
						RPD = 3.18	
13 gamma-Chlordane							
1	7.339	7.339	0.000	38304731	25.0	28.4	
2	9.286	9.286	0.000	42683612	25.0	29.0	
						RPD = 2.28	
14 alpha-Chlordane							
1	7.686	7.686	0.000	38251111	25.0	28.6	
2	9.583	9.583	0.000	41502901	25.0	29.2	
						RPD = 2.16	
15 Endosulfan I							
1	7.958	7.958	0.000	35697365	25.0	29.1	
2	9.653	9.653	0.000	40033954	25.0	30.3	
						RPD = 4.08	
16 4,4'-DDE							
1	8.065	8.065	0.000	32401560	25.0	27.4	
2	10.012	10.012	0.000	36819023	25.0	27.9	
						RPD = 1.93	
17 Dieldrin							
1	8.510	8.510	0.000	38893226	25.0	29.7	
2	10.166	10.166	0.000	41443552	25.0	30.3	
						RPD = 1.83	
18 Endrin							
1	8.963	8.963	0.000	34592343	25.0	30.0	
2	10.681	10.681	0.000	35444004	25.0	29.4	
						RPD = 2.17	
20 4,4'-DDD							
1	9.332	9.332	0.000	20958606	25.0	24.1	
2	11.006	11.006	0.000	23890615	25.0	24.4	
						RPD = 1.37	
21 Endosulfan II							
1	9.414	9.414	0.000	37528803	25.0	32.4	
2	11.050	11.050	0.000	40555249	25.0	34.7	
						RPD = 6.68	
23 4,4'-DDT							
1	9.843	9.843	0.000	23394329	25.0	24.5	
2	11.486	11.486	0.000	23990476	25.0	24.0	
						RPD = 1.87	
25 Endrin aldehyde							
1	10.209	10.209	0.000	24137415	25.0	27.1	
2	11.609	11.609	0.000	25558524	25.0	27.4	
						RPD = 1.00	
27 Methoxychlor							
1	10.797	10.797	0.000	12378105	25.0	27.0	
2	12.554	12.554	0.000	12468980	25.0	25.5	
						RPD = 5.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.934	10.934	0.000	29553151	25.0	29.7	
2	12.030	12.030	0.000	30705697	25.0	29.0	
						RPD = 2.30	
29 Endrin ketone							
1	11.334	11.334	0.000	35447684	25.0	29.0	
2	12.774	12.774	0.000	35854165	25.0	29.2	
						RPD = 0.66	
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.941	0.000	25914853	25.0	27.7	
2	14.491	14.491	0.000	28130193	25.0	27.6	
						RPD = 0.15	

Reagents:

SGPestAB3_00015 Amount Added: 1.00 Units: mL

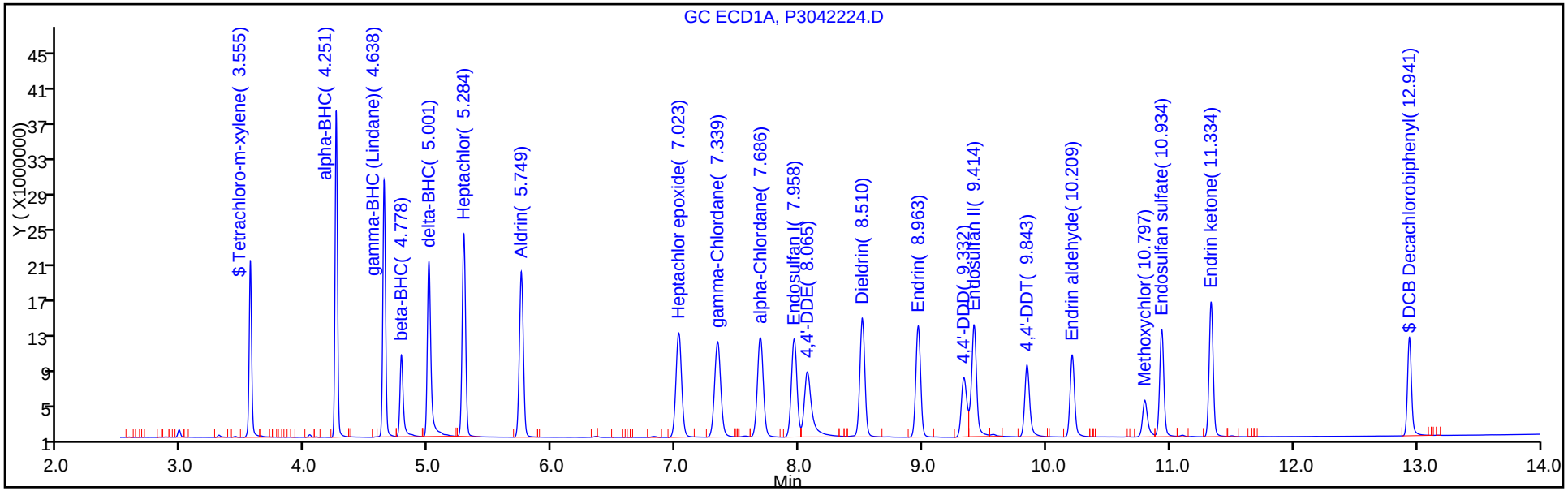
Report Date: 23-Apr-2015 07:42:54 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

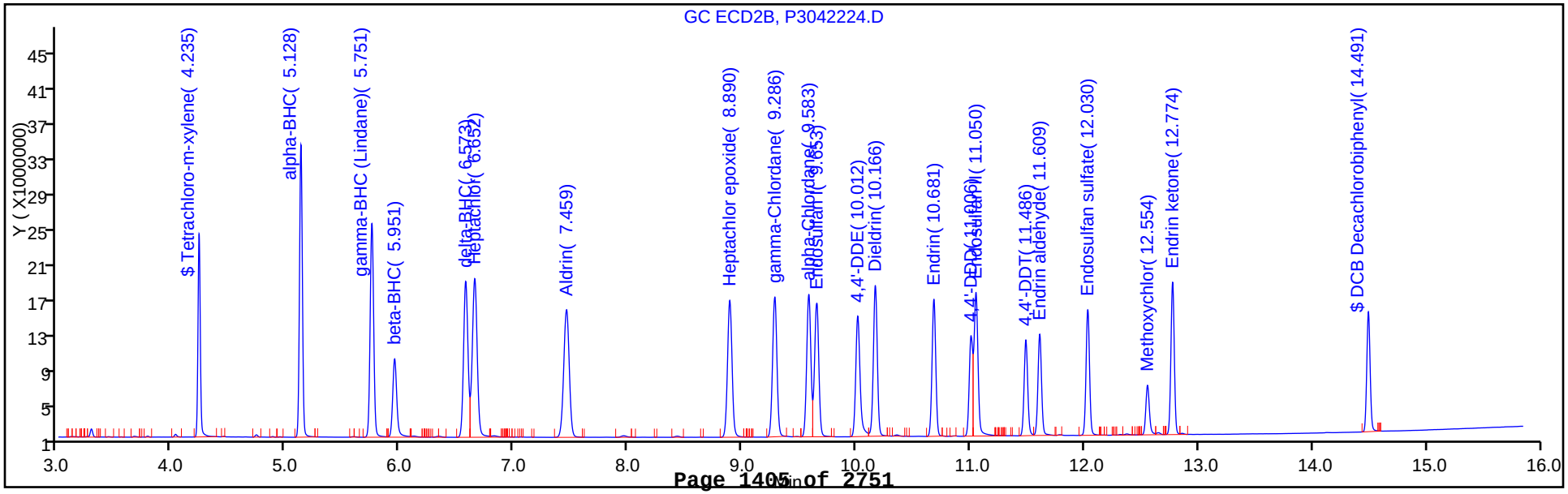
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042224.D

Injection Date:	22-Apr-2015 23:37:14	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	CCV AB3			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-177037/7-A

Matrix: Solid | Lab File ID: P3042138.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:00

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 03:02

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177258 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	0.42	U	2.0	0.42	0.20
72-55-9	4,4'-DDE	0.42	U	1.7	0.42	0.27
50-29-3	4,4'-DDT	0.83	U	2.0	0.83	0.31
309-00-2	Aldrin	0.83	U	4.0	0.83	0.20
319-84-6	alpha-BHC	1.7	U	2.5	1.7	0.60
5103-71-9	alpha-Chlordane	0.83	U	3.0	0.83	0.25
319-85-7	beta-BHC	0.83	U	3.5	0.83	0.36
319-86-8	delta-BHC	0.83	U	4.0	0.83	0.22
60-57-1	Dieldrin	0.42	U	1.7	0.42	0.16
959-98-8	Endosulfan I	0.83	U	1.7	0.83	0.25
33213-65-9	Endosulfan II	0.83	U	2.5	0.83	0.38
1031-07-8	Endosulfan sulfate	0.83	U	3.0	0.83	0.34
72-20-8	Endrin	0.83	U	1.7	0.83	0.21
7421-93-4	Endrin aldehyde	0.83	U	3.0	0.83	0.32
53494-70-5	Endrin ketone	1.7	U	2.0	1.7	0.42
58-89-9	gamma-BHC (Lindane)	1.7	U	2.5	1.7	0.46
5103-74-2	gamma-Chlordane	1.7	U	1.7	1.7	0.86
76-44-8	Heptachlor	1.7	U	3.5	1.7	0.70
1024-57-3	Heptachlor epoxide	1.7	U	2.5	1.7	0.40
72-43-5	Methoxychlor	1.7	U	5.0	1.7	0.54
8001-35-2	Toxaphene	17	U	67	17	9.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	105		55-130
877-09-8	Tetrachloro-m-xylene	100		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042138.D
Lims ID: MB 240-177037/7-A
Client ID:
Sample Type: MB
Inject. Date: 22-Apr-2015 03:02:33 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-038
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	19643984	20.0	20.0	
2	4.236	4.235	0.001	22030277	20.0	19.5	
						RPD = 2.15	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					
21 Endosulfan II							
1		9.413				ND	
2		11.051					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1		9.840				ND	
2		11.488					
25 Endrin aldehyde							
1		10.209				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.792				ND	
2		12.555					
28 Endosulfan sulfate							
1	10.957	10.933	0.024	999522		1.00	
2	12.052	12.032	0.020	887047		0.8375	
						RPD = 18.02	
29 Endrin ketone							
1		11.334				ND	
2		12.776					
$ 30 DCB Decachlorobiphenyl							
1	12.939	12.940	-0.001	19665114	20.0	21.0	
2	14.492	14.493	-0.001	20941113	20.0	20.6	
						RPD = 2.06	

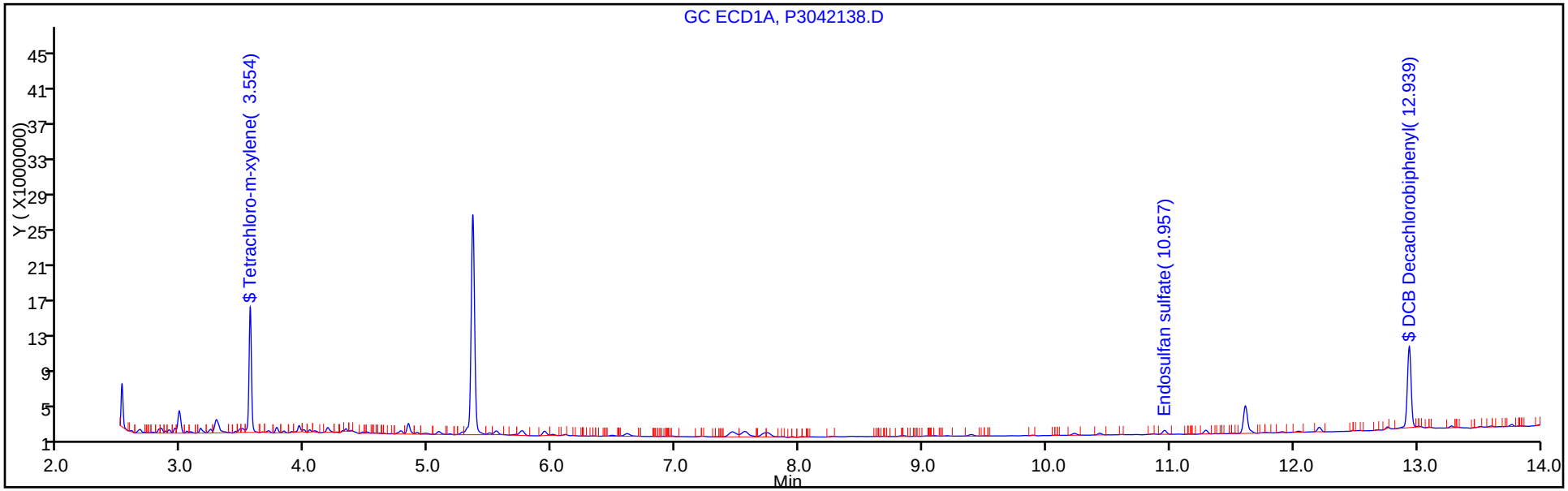
Report Date: 22-Apr-2015 08:58:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

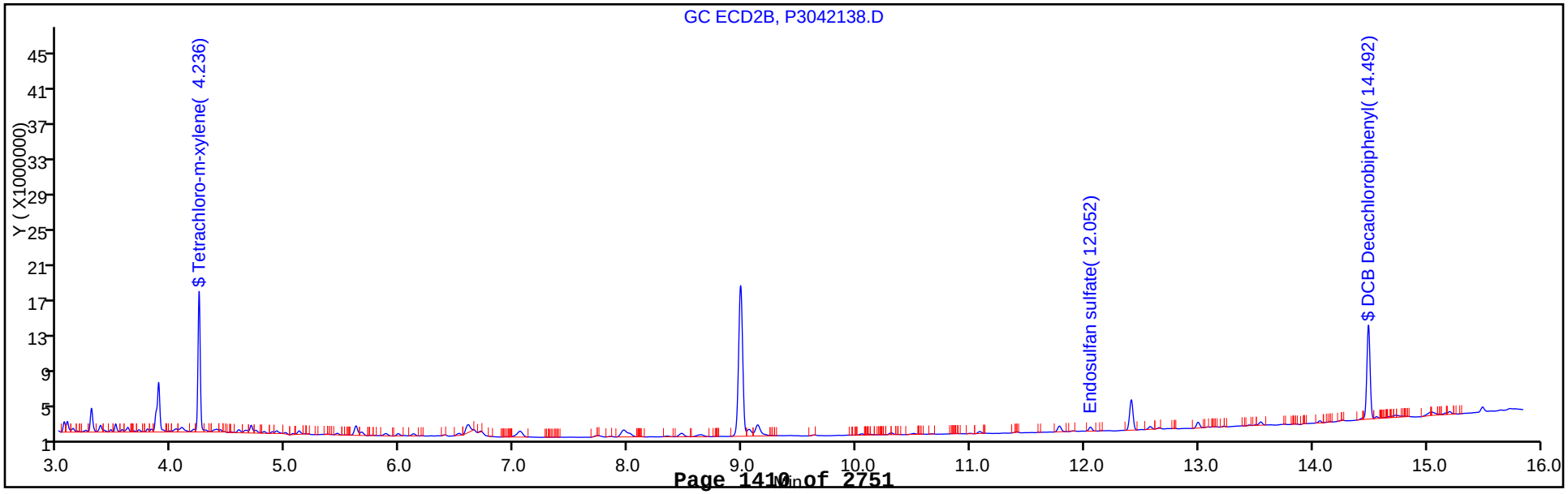
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042138.D

Injection Date:	22-Apr-2015 03:02:33	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-177037/7-A			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MB 240-177037/7-A

Matrix: Solid Lab File ID: P3042138.D

Analysis Method: 8081A Date Collected:

Extraction Method: 3540C Date Extracted: 04/20/2015 09:00

Sample wt/vol: 30(g) Date Analyzed: 04/22/2015 03:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177258 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	103		55-130
877-09-8	Tetrachloro-m-xylene	98		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042138.D
Lims ID: MB 240-177037/7-A
Client ID:
Sample Type: MB
Inject. Date: 22-Apr-2015 03:02:33 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-038
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	19643984	20.0	20.0	
2	4.236	4.235	0.001	22030277	20.0	19.5	
						RPD = 2.15	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					
21 Endosulfan II							
1		9.413				ND	
2		11.051					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1		9.840				ND	
2		11.488					
25 Endrin aldehyde							
1		10.209				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.792				ND	
2		12.555					
28 Endosulfan sulfate							
1	10.957	10.933	0.024	999522		1.00	
2	12.052	12.032	0.020	887047		0.8375	
						RPD = 18.02	
29 Endrin ketone							
1		11.334				ND	
2		12.776					
$ 30 DCB Decachlorobiphenyl							
1	12.939	12.940	-0.001	19665114	20.0	21.0	
2	14.492	14.493	-0.001	20941113	20.0	20.6	
						RPD = 2.06	

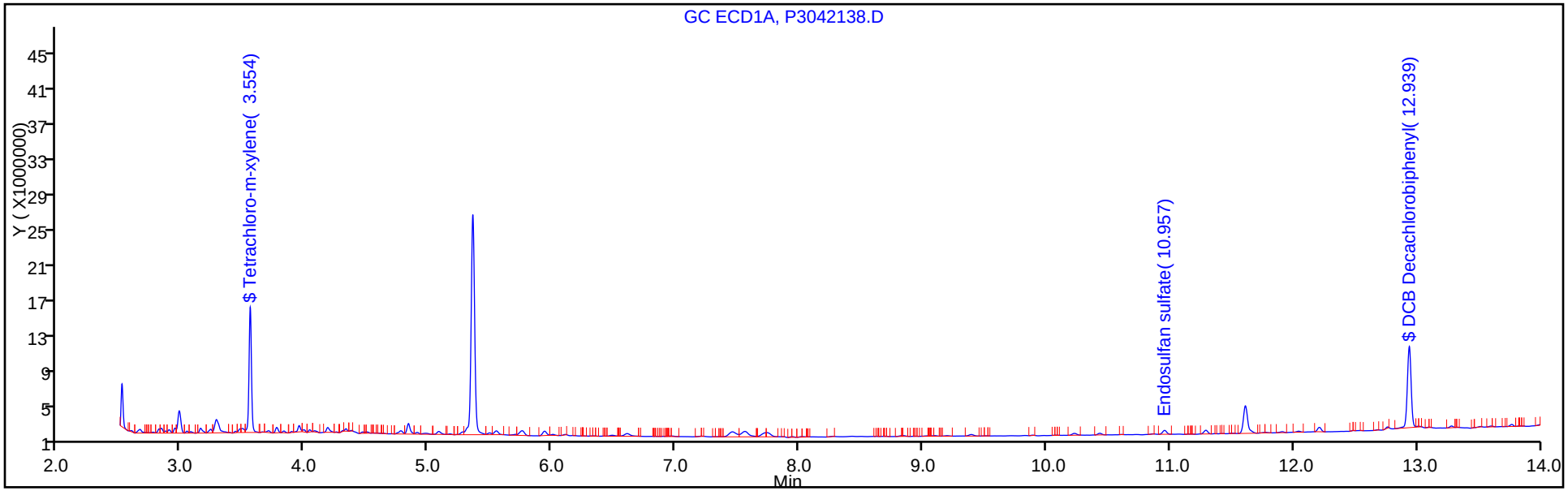
Report Date: 22-Apr-2015 08:58:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

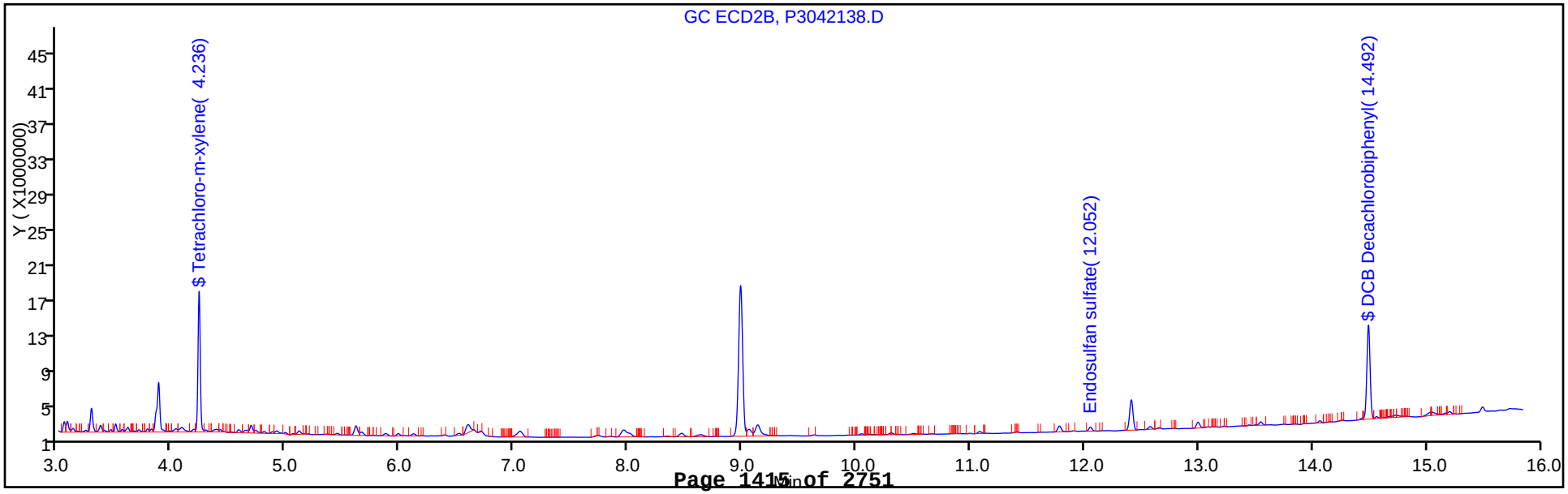
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042138.D

Injection Date:	22-Apr-2015 03:02:33	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MB 240-177037/7-A			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-177037/8-A

Matrix: Solid | Lab File ID: P3042219.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:00

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 21:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177463 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	32.6		2.0	0.42	0.20
72-55-9	4,4'-DDE	25.9		1.7	0.42	0.27
50-29-3	4,4'-DDT	30.8		2.0	0.83	0.31
309-00-2	Aldrin	23.1		4.0	0.83	0.20
319-84-6	alpha-BHC	28.8		2.5	1.7	0.60
5103-71-9	alpha-Chlordane	27.7		3.0	0.83	0.25
319-85-7	beta-BHC	26.6		3.5	0.83	0.36
319-86-8	delta-BHC	28.4		4.0	0.83	0.22
60-57-1	Dieldrin	29.1		1.7	0.42	0.16
959-98-8	Endosulfan I	16.8		1.7	0.83	0.25
33213-65-9	Endosulfan II	22.8		2.5	0.83	0.38
1031-07-8	Endosulfan sulfate	28.4		3.0	0.83	0.34
72-20-8	Endrin	30.1		1.7	0.83	0.21
7421-93-4	Endrin aldehyde	27.8		3.0	0.83	0.32
53494-70-5	Endrin ketone	27.0		2.0	1.7	0.42
58-89-9	gamma-BHC (Lindane)	29.1		2.5	1.7	0.46
5103-74-2	gamma-Chlordane	28.2		1.7	1.7	0.86
76-44-8	Heptachlor	31.5		3.5	1.7	0.70
1024-57-3	Heptachlor epoxide	28.7		2.5	1.7	0.40
72-43-5	Methoxychlor	30.7		5.0	1.7	0.54

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		55-130
877-09-8	Tetrachloro-m-xylene	90		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042219.D
Lims ID: LCS 240-177037/8-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Apr-2015 21:41:27 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-019
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:31:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	17712355	20.0	18.0	
2	4.235	4.234	0.001	18920538	20.0	16.8	
						RPD = 7.02	
4 alpha-BHC							
1	4.251	4.251	0.000	149771434	100.0	86.5	
2	5.128	5.128	0.000	175737844	100.0	89.8	
						RPD = 3.74	
5 gamma-BHC (Lindane)							
1	4.638	4.639	-0.001	134537082	100.0	87.2	
2	5.751	5.751	0.000	157059690	100.0	88.8	
						RPD = 1.83	
6 beta-BHC							
1	4.776	4.779	-0.003	50333156	100.0	79.9	
2	5.949	5.950	-0.001	61887409	100.0	80.5	
						RPD = 0.79	
7 delta-BHC							
1	4.998	5.001	-0.003	127866272	100.0	85.1	
2	6.572	6.574	-0.002	133336658	100.0	75.2	
						RPD = 12.39	
9 Heptachlor							
1	5.283	5.284	-0.001	137760374	100.0	94.4	
2	6.653	6.653	0.000	147372201	100.0	87.2	
						RPD = 7.96	
10 Aldrin							
1	5.749	5.750	-0.001	101499075	100.0	69.4	
2	7.458	7.457	0.001	144397384	100.0	86.4	
						RPD = 21.73	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.023	7.025	-0.002	112455144	100.0	86.2	
2	8.888	8.889	-0.001	131090302	100.0	91.3	
						RPD = 5.72	
13 gamma-Chlordane							
1	7.335	7.339	-0.004	114330145	100.0	84.6	
2	9.283	9.283	0.000	123119829	100.0	83.7	
						RPD = 1.14	
14 alpha-Chlordane							
1	7.683	7.684	-0.001	111313682	100.0	83.2	
2	9.582	9.583	-0.001	120648770	100.0	84.9	
						RPD = 2.05	
15 Endosulfan I							
1	7.957	7.958	-0.001	61752690	100.0	50.3	
2	9.651	9.652	-0.001	85757581	100.0	64.9	
						RPD = 25.32	
16 4,4'-DDE							
1	8.052	8.065	-0.013	92128597	100.0	77.8	
2	10.008	10.012	-0.004	116566874	100.0	88.3	
						RPD = 12.66	
17 Dieldrin							
1	8.508	8.513	-0.005	114139423	100.0	87.3	
2	10.166	10.167	-0.001	123994918	100.0	90.6	
						RPD = 3.76	
18 Endrin							
1	8.962	8.965	-0.003	104027308	100.0	90.3	
2	10.679	10.681	-0.002	108661522	100.0	90.1	
						RPD = 0.24	
20 4,4'-DDD							
1	9.319	9.332	-0.013	85115729	100.0	97.8	
2	11.002	11.005	-0.003	92164032	100.0	94.2	
						RPD = 3.76	
21 Endosulfan II							
1	9.411	9.415	-0.004	79168745	100.0	68.4	
2	11.049	11.050	-0.001	84683780	100.0	72.4	
						RPD = 5.66	
23 4,4'-DDT							
1	9.837	9.844	-0.007	88177382	100.0	92.3	
2	11.484	11.487	-0.003	89584144	100.0	89.8	
						RPD = 2.80	
25 Endrin aldehyde							
1	10.207	10.210	-0.003	74190683	100.0	83.3	
2	11.606	11.608	-0.002	80030758	100.0	85.7	
						RPD = 2.86	
27 Methoxychlor							
1	10.788	10.795	-0.007	42202901	100.0	92.1	
2	12.551	12.554	-0.003	44978391	100.0	91.9	
						RPD = 0.17	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.931	10.935	-0.004	84834711	100.0	85.2	
2	12.028	12.030	-0.002	90829126	100.0	85.8	
						RPD = 0.70	
29 Endrin ketone							
1	11.332	11.336	-0.004	99091211	100.0	81.1	
2	12.772	12.773	-0.001	102356933	100.0	83.4	
						RPD = 2.76	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.940	-0.002	17860051	20.0	19.1	
2	14.491	14.492	-0.001	18156785	20.0	17.8	
						RPD = 6.70	

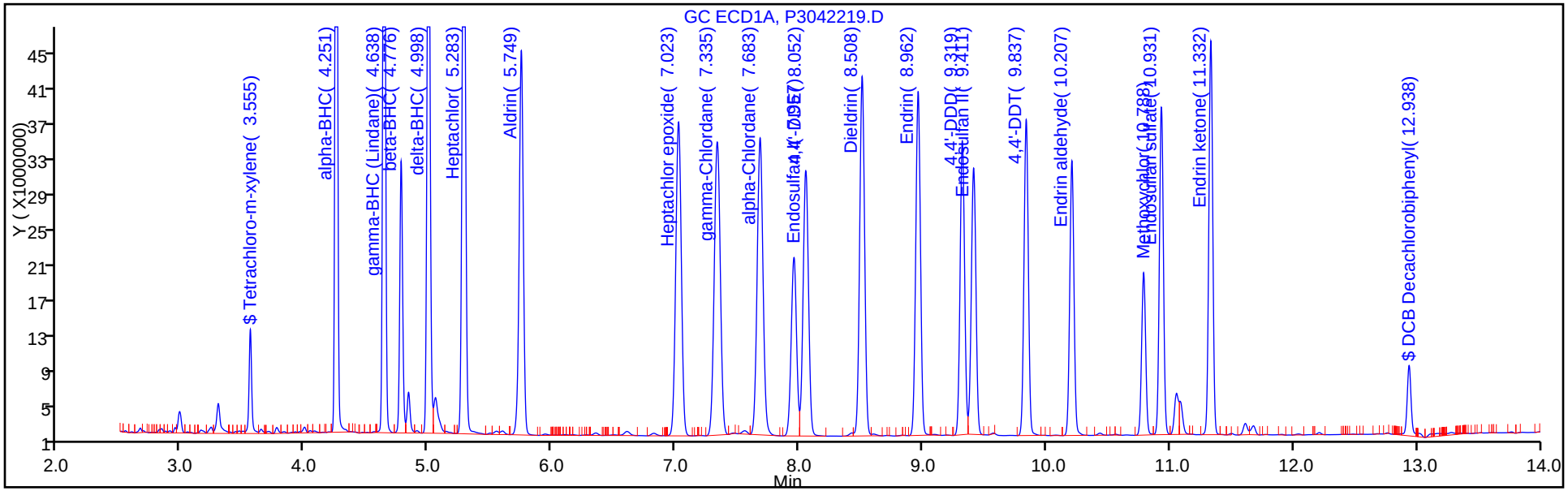
Report Date: 23-Apr-2015 07:42:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

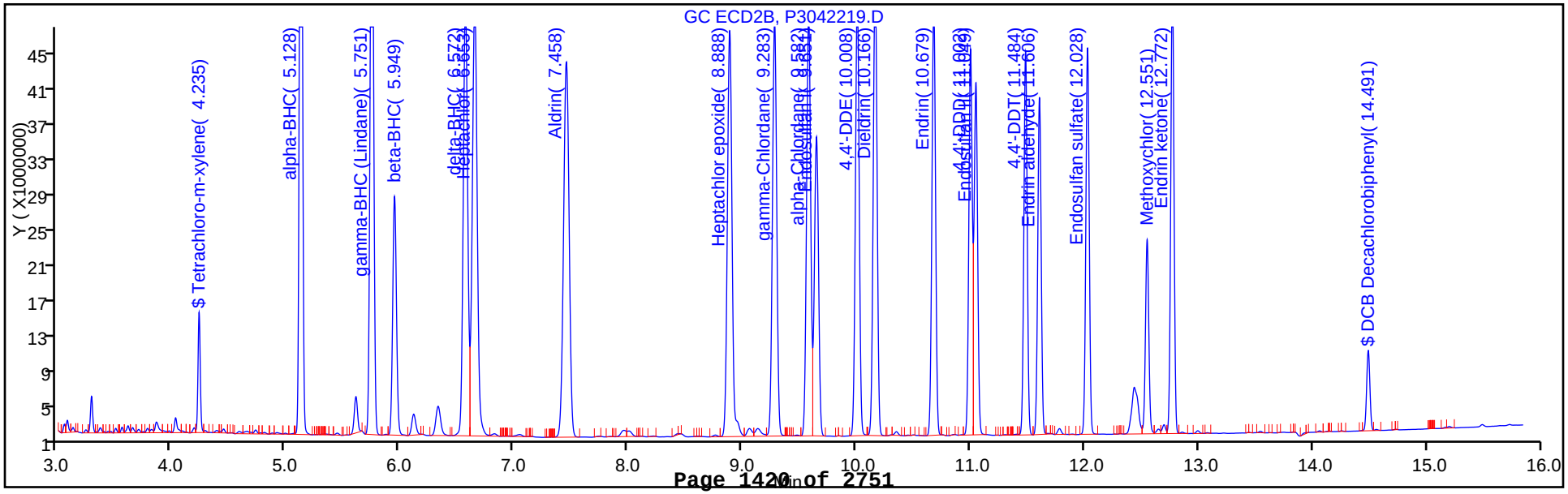
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042219.D

Injection Date:	22-Apr-2015 21:41:27	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-177037/8-A			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-177037/8-A

Matrix: Solid | Lab File ID: P3042219.D

Analysis Method: 8081A | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:00

Sample wt/vol: 30(g) | Date Analyzed: 04/22/2015 21:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177463 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	89		55-130
877-09-8	Tetrachloro-m-xylene	84		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042219.D
Lims ID: LCS 240-177037/8-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Apr-2015 21:41:27 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-019
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:31:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	17712355	20.0	18.0	
2	4.235	4.234	0.001	18920538	20.0	16.8	
						RPD = 7.02	
4 alpha-BHC							
1	4.251	4.251	0.000	149771434	100.0	86.5	
2	5.128	5.128	0.000	175737844	100.0	89.8	
						RPD = 3.74	
5 gamma-BHC (Lindane)							
1	4.638	4.639	-0.001	134537082	100.0	87.2	
2	5.751	5.751	0.000	157059690	100.0	88.8	
						RPD = 1.83	
6 beta-BHC							
1	4.776	4.779	-0.003	50333156	100.0	79.9	
2	5.949	5.950	-0.001	61887409	100.0	80.5	
						RPD = 0.79	
7 delta-BHC							
1	4.998	5.001	-0.003	127866272	100.0	85.1	
2	6.572	6.574	-0.002	133336658	100.0	75.2	
						RPD = 12.39	
9 Heptachlor							
1	5.283	5.284	-0.001	137760374	100.0	94.4	
2	6.653	6.653	0.000	147372201	100.0	87.2	
						RPD = 7.96	
10 Aldrin							
1	5.749	5.750	-0.001	101499075	100.0	69.4	
2	7.458	7.457	0.001	144397384	100.0	86.4	
						RPD = 21.73	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.023	7.025	-0.002	112455144	100.0	86.2	
2	8.888	8.889	-0.001	131090302	100.0	91.3	
						RPD = 5.72	
13 gamma-Chlordane							
1	7.335	7.339	-0.004	114330145	100.0	84.6	
2	9.283	9.283	0.000	123119829	100.0	83.7	
						RPD = 1.14	
14 alpha-Chlordane							
1	7.683	7.684	-0.001	111313682	100.0	83.2	
2	9.582	9.583	-0.001	120648770	100.0	84.9	
						RPD = 2.05	
15 Endosulfan I							
1	7.957	7.958	-0.001	61752690	100.0	50.3	
2	9.651	9.652	-0.001	85757581	100.0	64.9	
						RPD = 25.32	
16 4,4'-DDE							
1	8.052	8.065	-0.013	92128597	100.0	77.8	
2	10.008	10.012	-0.004	116566874	100.0	88.3	
						RPD = 12.66	
17 Dieldrin							
1	8.508	8.513	-0.005	114139423	100.0	87.3	
2	10.166	10.167	-0.001	123994918	100.0	90.6	
						RPD = 3.76	
18 Endrin							
1	8.962	8.965	-0.003	104027308	100.0	90.3	
2	10.679	10.681	-0.002	108661522	100.0	90.1	
						RPD = 0.24	
20 4,4'-DDD							
1	9.319	9.332	-0.013	85115729	100.0	97.8	
2	11.002	11.005	-0.003	92164032	100.0	94.2	
						RPD = 3.76	
21 Endosulfan II							
1	9.411	9.415	-0.004	79168745	100.0	68.4	
2	11.049	11.050	-0.001	84683780	100.0	72.4	
						RPD = 5.66	
23 4,4'-DDT							
1	9.837	9.844	-0.007	88177382	100.0	92.3	
2	11.484	11.487	-0.003	89584144	100.0	89.8	
						RPD = 2.80	
25 Endrin aldehyde							
1	10.207	10.210	-0.003	74190683	100.0	83.3	
2	11.606	11.608	-0.002	80030758	100.0	85.7	
						RPD = 2.86	
27 Methoxychlor							
1	10.788	10.795	-0.007	42202901	100.0	92.1	
2	12.551	12.554	-0.003	44978391	100.0	91.9	
						RPD = 0.17	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
28 Endosulfan sulfate							
1	10.931	10.935	-0.004	84834711	100.0	85.2	
2	12.028	12.030	-0.002	90829126	100.0	85.8	
						RPD = 0.70	
29 Endrin ketone							
1	11.332	11.336	-0.004	99091211	100.0	81.1	
2	12.772	12.773	-0.001	102356933	100.0	83.4	
						RPD = 2.76	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.940	-0.002	17860051	20.0	19.1	
2	14.491	14.492	-0.001	18156785	20.0	17.8	
						RPD = 6.70	

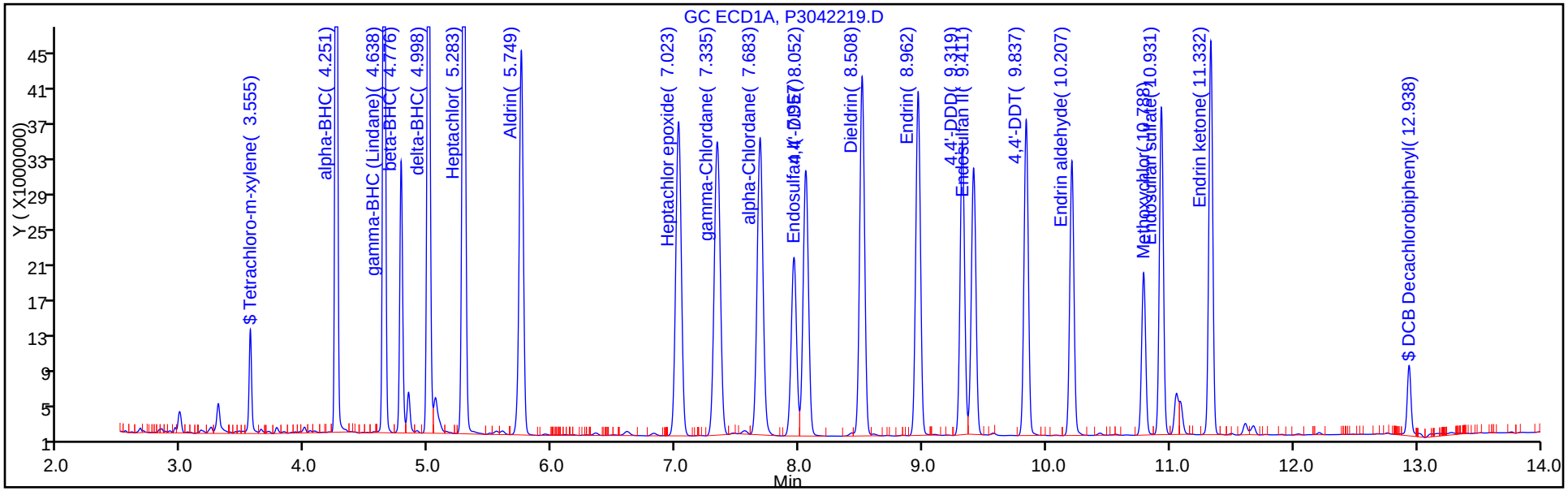
Report Date: 23-Apr-2015 07:42:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

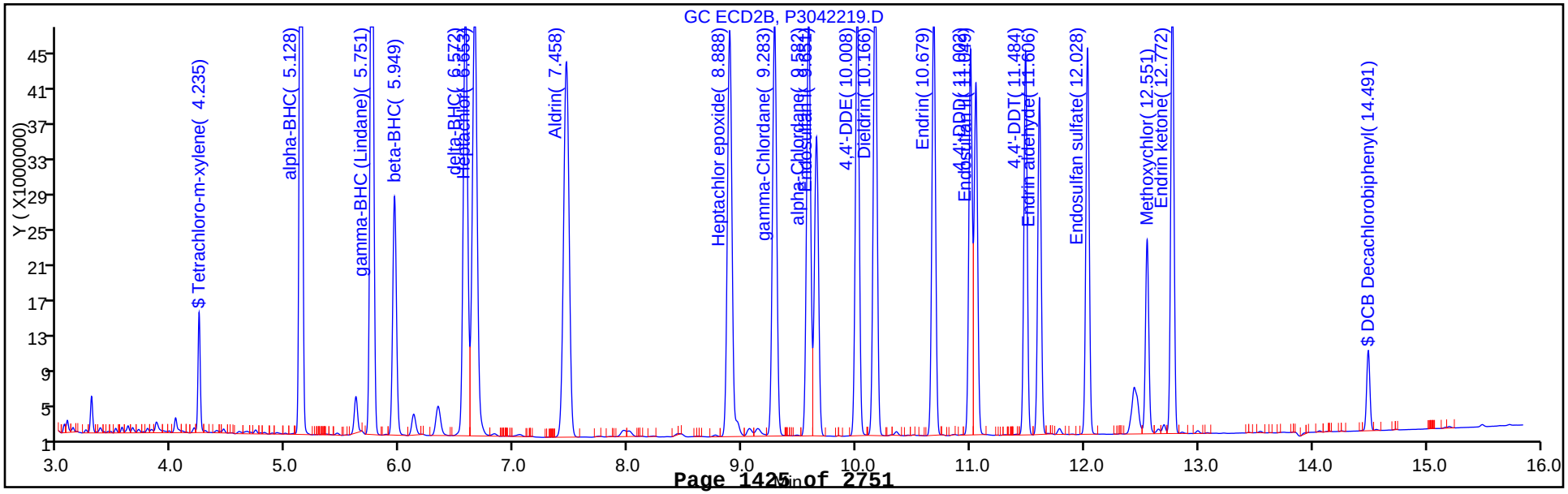
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042219.D

Injection Date:	22-Apr-2015 21:41:27	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	LCS 240-177037/8-A			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177258/29

Matrix: Solid Lab File ID: P3042129.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	171		2.0	1.0	0.20

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:35:39 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-029
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:29:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					
21 Endosulfan II							
1		9.413				ND	
2		11.051					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.622	9.622	0.000	6841047	200.0	180.8	M
1	10.083	10.081	0.002	6802579	200.0	185.6	M
1	10.396	10.393	0.003	3849960	200.0	164.8	M
1	10.738	10.735	0.003	6161840	200.0	185.7	M
1	10.846	10.840	0.006	4432890	200.0	137.1	M
		Average of Peak Amounts =				170.8	
2	11.026	11.025	0.001	9566982	200.0	184.6	
2	11.196	11.195	0.001	9701611	200.0	190.4	
2	11.621	11.618	0.003	6078519	200.0	170.5	
2	12.355	12.353	0.002	6252942	200.0	137.0	
2	12.443	12.444	-0.001	1692638	200.0	108.7	
		Average of Peak Amounts =				158.3	
						RPD = 7.64	
23 4,4'-DDT							
1		9.840				ND	
2		11.488					
25 Endrin aldehyde							
1		10.209				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.792				ND	
2		12.555					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.032					
29 Endrin ketone							
1		11.334				ND	
2		12.776					
$ 30 DCB Decachlorobiphenyl							
1	12.948	12.940	0.008	9051		0.009665	
2	14.487	14.493	-0.006	25156		0.0247	
						RPD = 87.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

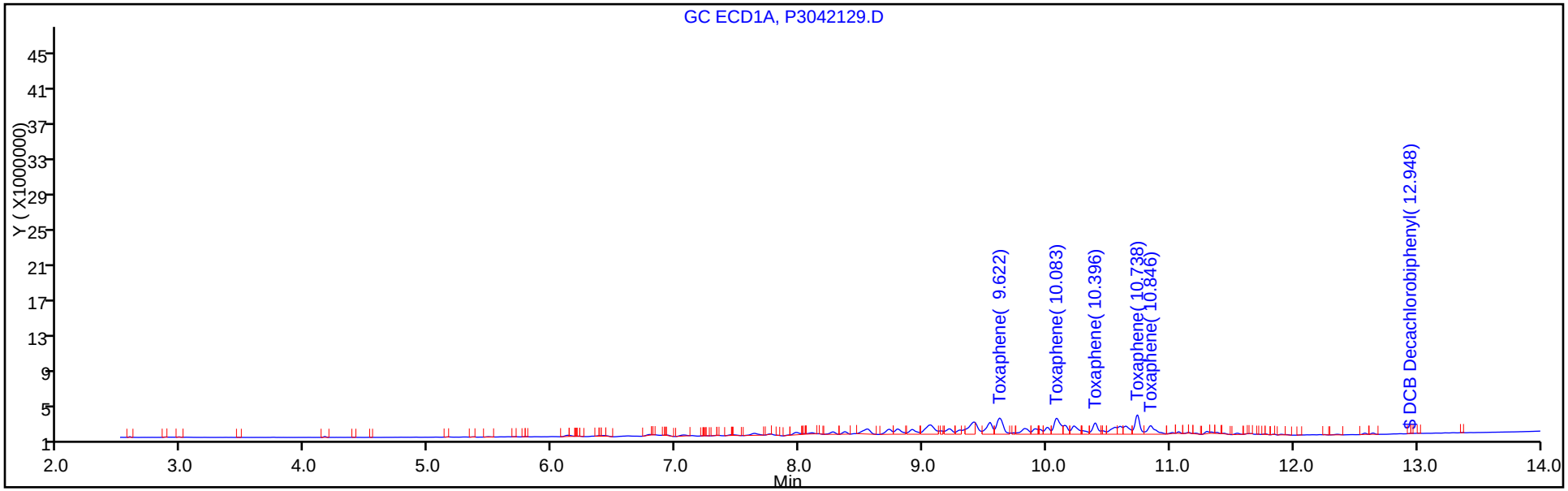
Report Date: 22-Apr-2015 08:58:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

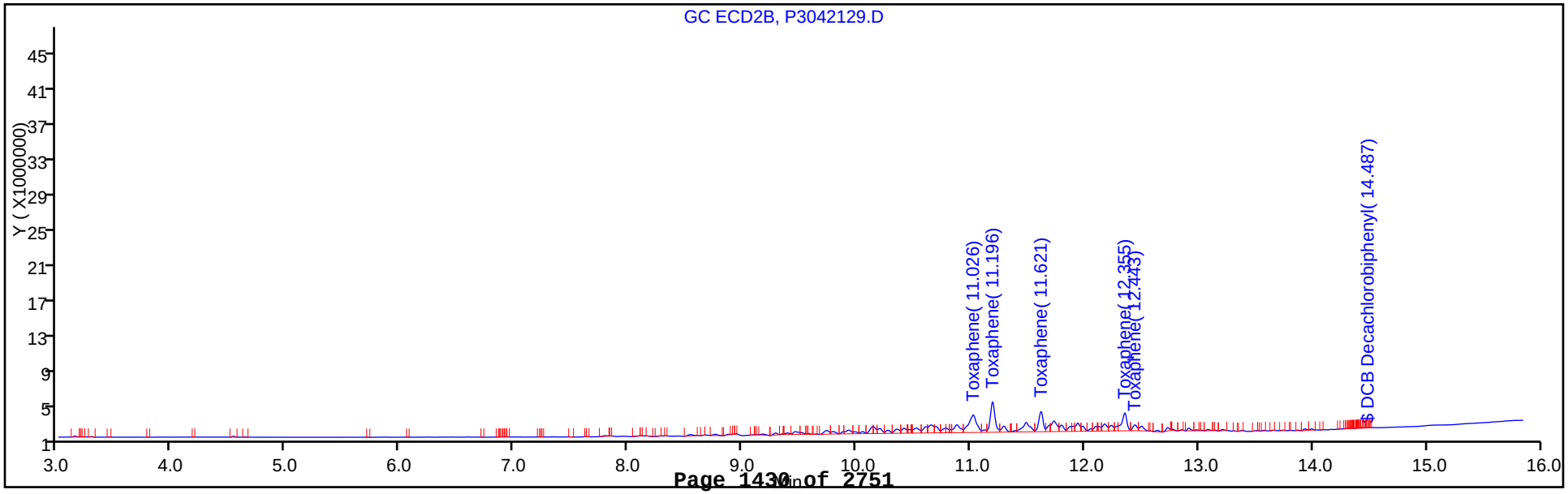
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date:	21-Apr-2015 23:35:39	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date: 21-Apr-2015 23:35:39 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 29 Worklist Smp#: 29

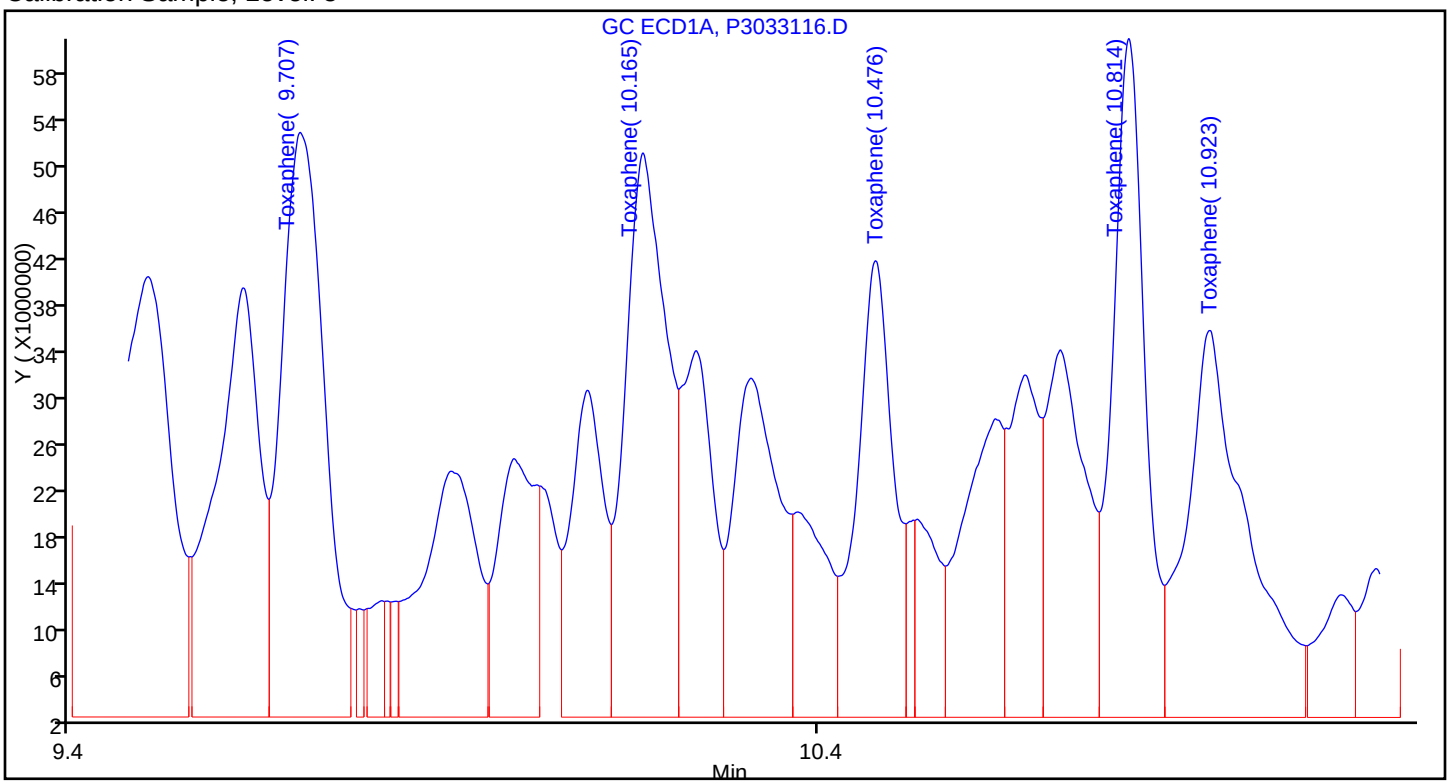
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

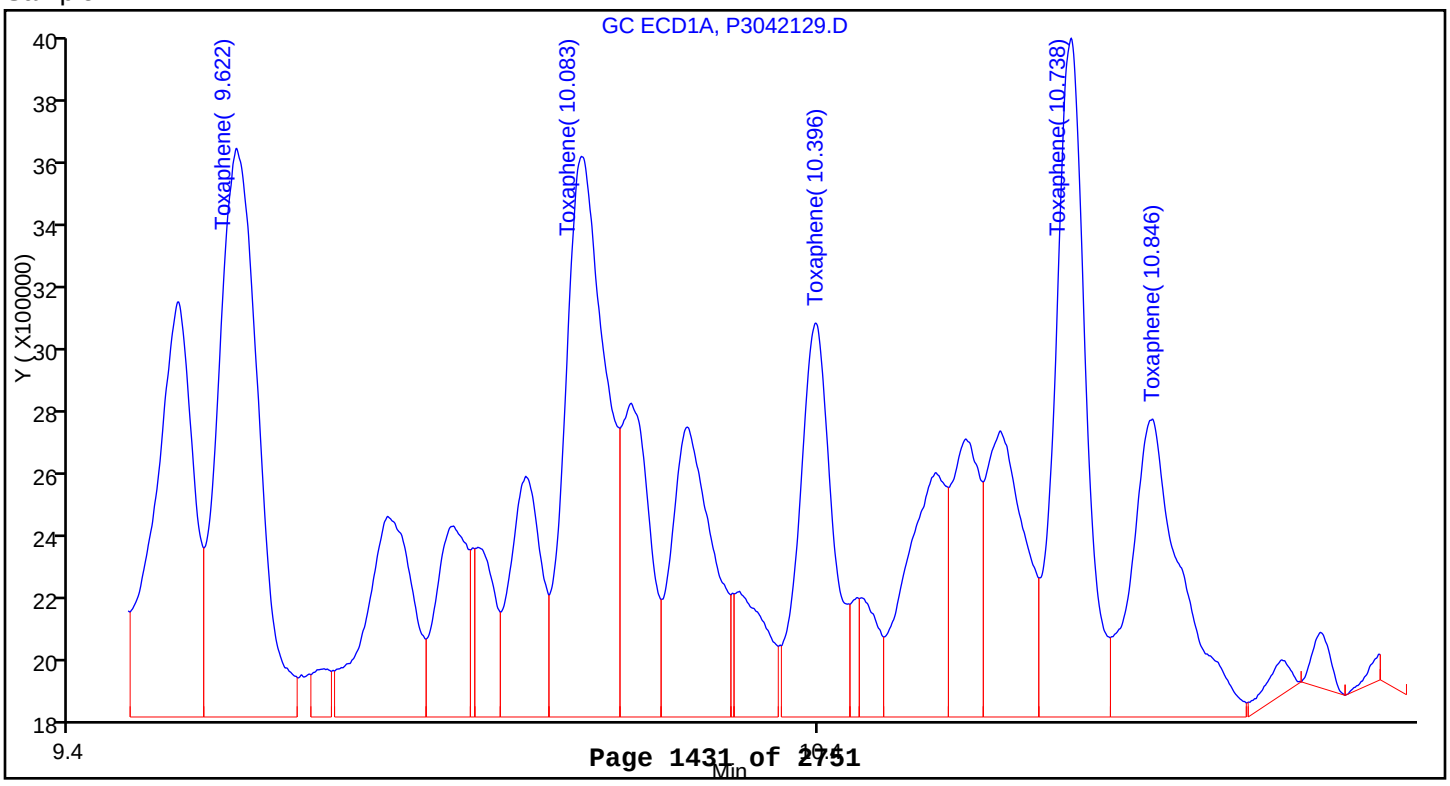
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date: 21-Apr-2015 23:35:39 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

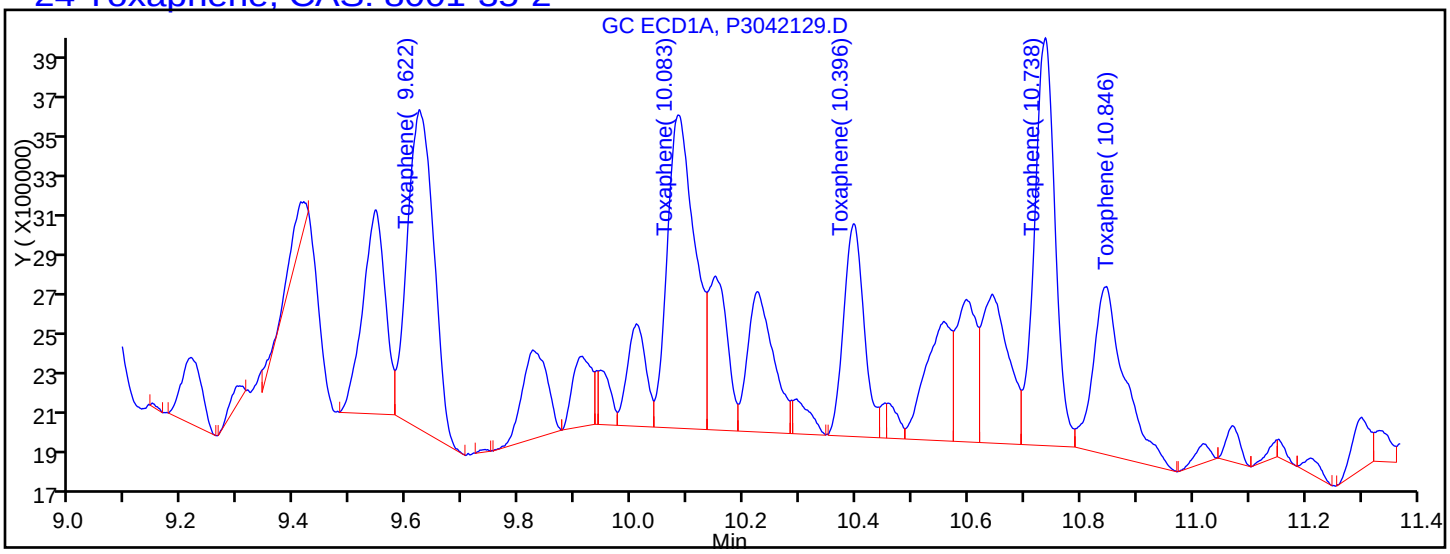
Operator ID: 430893 ALS Bottle#: 29 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

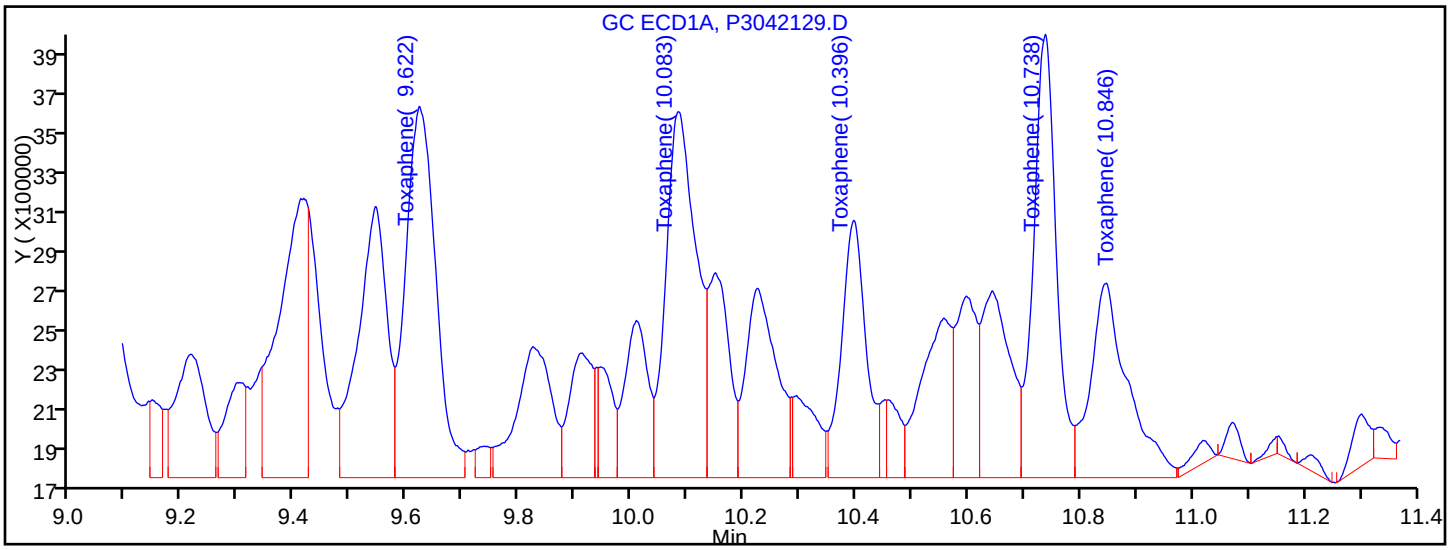
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.622	Response = 5151755	M
RT = 10.083	Response = 5329052	M
RT = 10.396	Response = 2650437	M
RT = 10.738	Response = 5168082	M
RT = 10.846	Response = 3280313	M



Manual Integration Results

RT = 9.622	Response = 6841047	M
RT = 10.083	Response = 6802579	M
RT = 10.396	Response = 3849960	M
RT = 10.738	Response = 6161840	M
RT = 10.846	Response = 4432890	M

Reviewer: matthewsb, 22-Apr-2015 07:29:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177258/29

Matrix: Solid Lab File ID: P3042129.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/21/2015 23:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*158*		*2.0*	1.0	*0.20*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 21-Apr-2015 23:35:39 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-029
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:29:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.129					
5 gamma-BHC (Lindane)							
1		4.639				ND	
2		5.752					
6 beta-BHC							
1		4.776				ND	
2		5.951					
7 delta-BHC							
1		4.999				ND	
2		6.574					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.284				ND	
2		6.654					
10 Aldrin							
1		5.750				ND	
2		7.460					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.023				ND	
2		8.891					
13 gamma-Chlordane							
1		7.339				ND	
2		9.285					
14 alpha-Chlordane							
1		7.684				ND	
2		9.584					
15 Endosulfan I							
1		7.959				ND	
2		9.653					
16 4,4'-DDE							
1		8.057				ND	
2		10.012					
17 Dieldrin							
1		8.510				ND	
2		10.168					
18 Endrin							
1		8.963				ND	
2		10.681					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.326				ND	
2		11.006					
21 Endosulfan II							
1		9.413				ND	
2		11.051					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.622	9.622	0.000	6841047	200.0	180.8	M
1	10.083	10.081	0.002	6802579	200.0	185.6	M
1	10.396	10.393	0.003	3849960	200.0	164.8	M
1	10.738	10.735	0.003	6161840	200.0	185.7	M
1	10.846	10.840	0.006	4432890	200.0	137.1	M
		Average of Peak Amounts =				170.8	
2	11.026	11.025	0.001	9566982	200.0	184.6	
2	11.196	11.195	0.001	9701611	200.0	190.4	
2	11.621	11.618	0.003	6078519	200.0	170.5	
2	12.355	12.353	0.002	6252942	200.0	137.0	
2	12.443	12.444	-0.001	1692638	200.0	108.7	
		Average of Peak Amounts =				158.3	
						RPD = 7.64	
23 4,4'-DDT							
1		9.840				ND	
2		11.488					
25 Endrin aldehyde							
1		10.209				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.792				ND	
2		12.555					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.032					
29 Endrin ketone							
1		11.334				ND	
2		12.776					
$ 30 DCB Decachlorobiphenyl							
1	12.948	12.940	0.008	9051		0.009665	
2	14.487	14.493	-0.006	25156		0.0247	
						RPD = 87.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

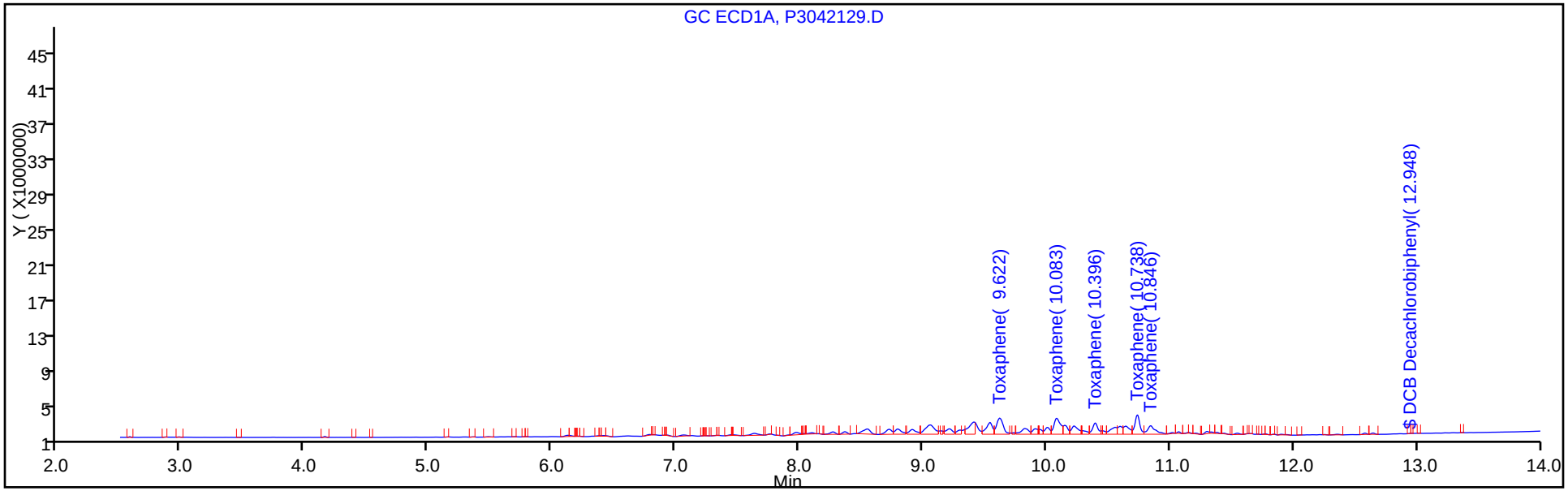
Report Date: 22-Apr-2015 08:58:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

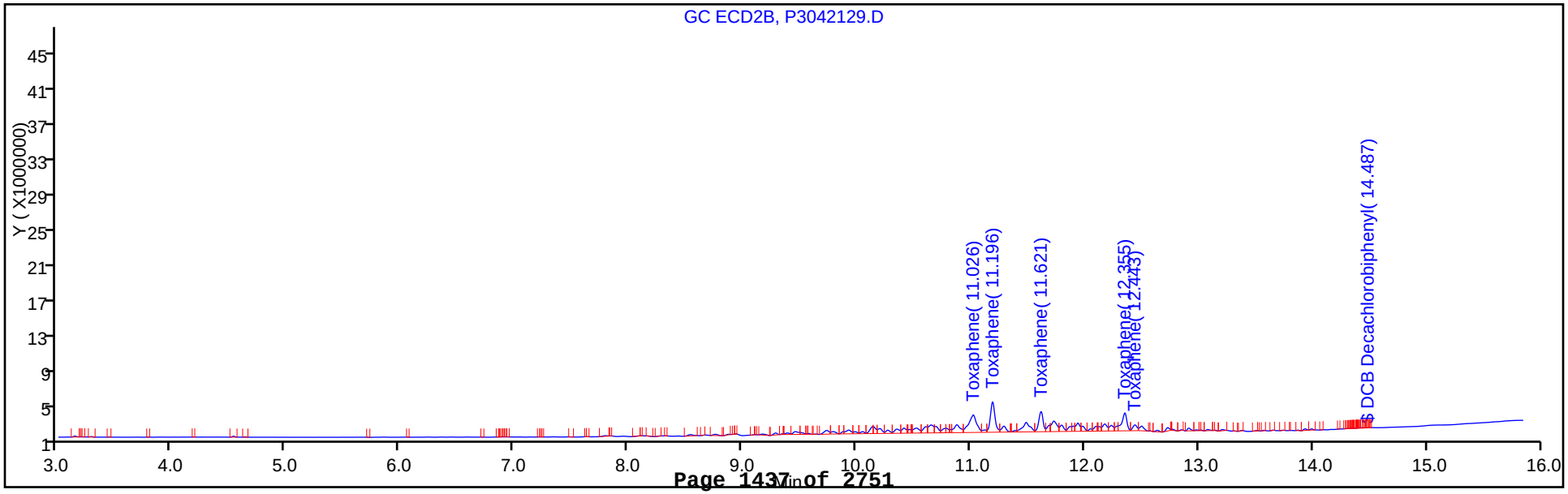
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date:	21-Apr-2015 23:35:39	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042129.D

Injection Date: 21-Apr-2015 23:35:39 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 29 Worklist Smp#: 29

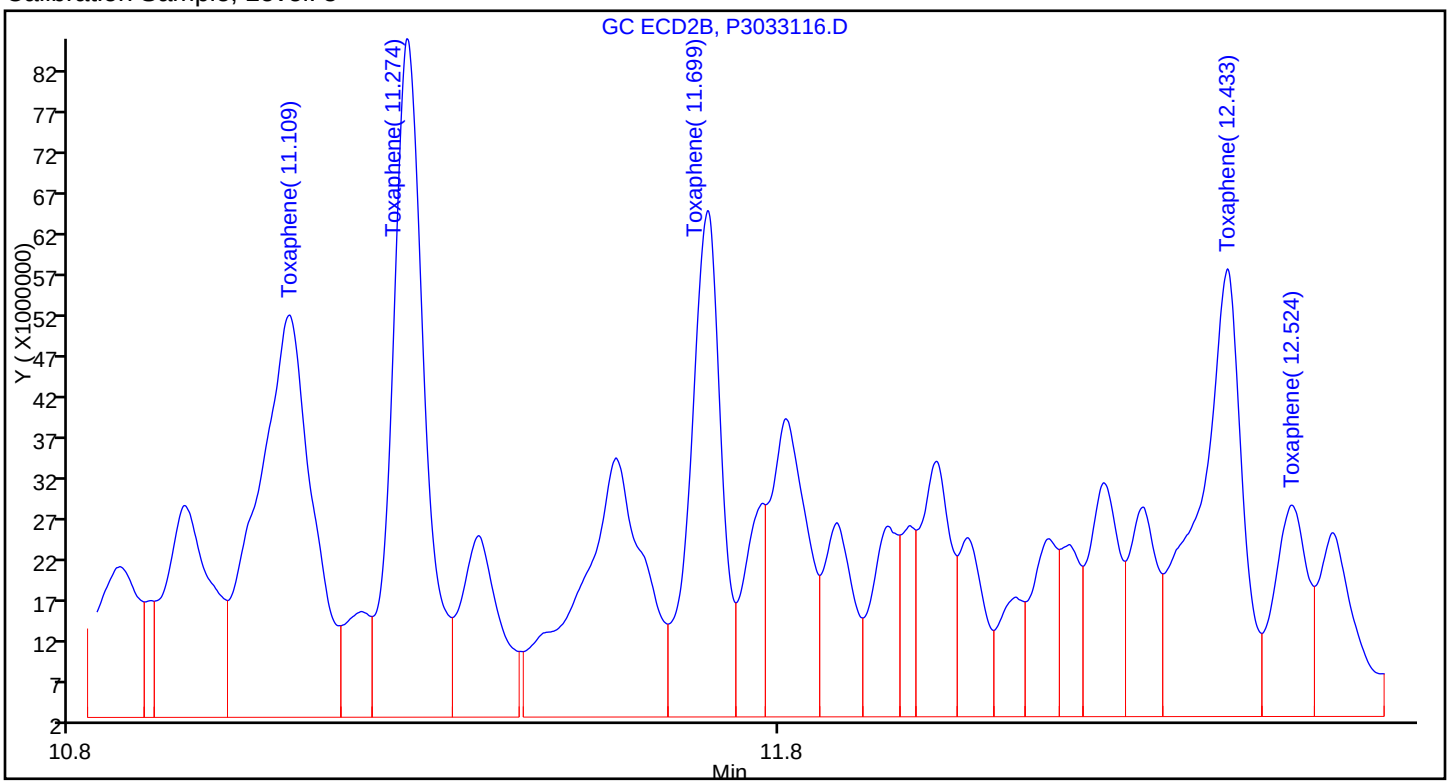
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

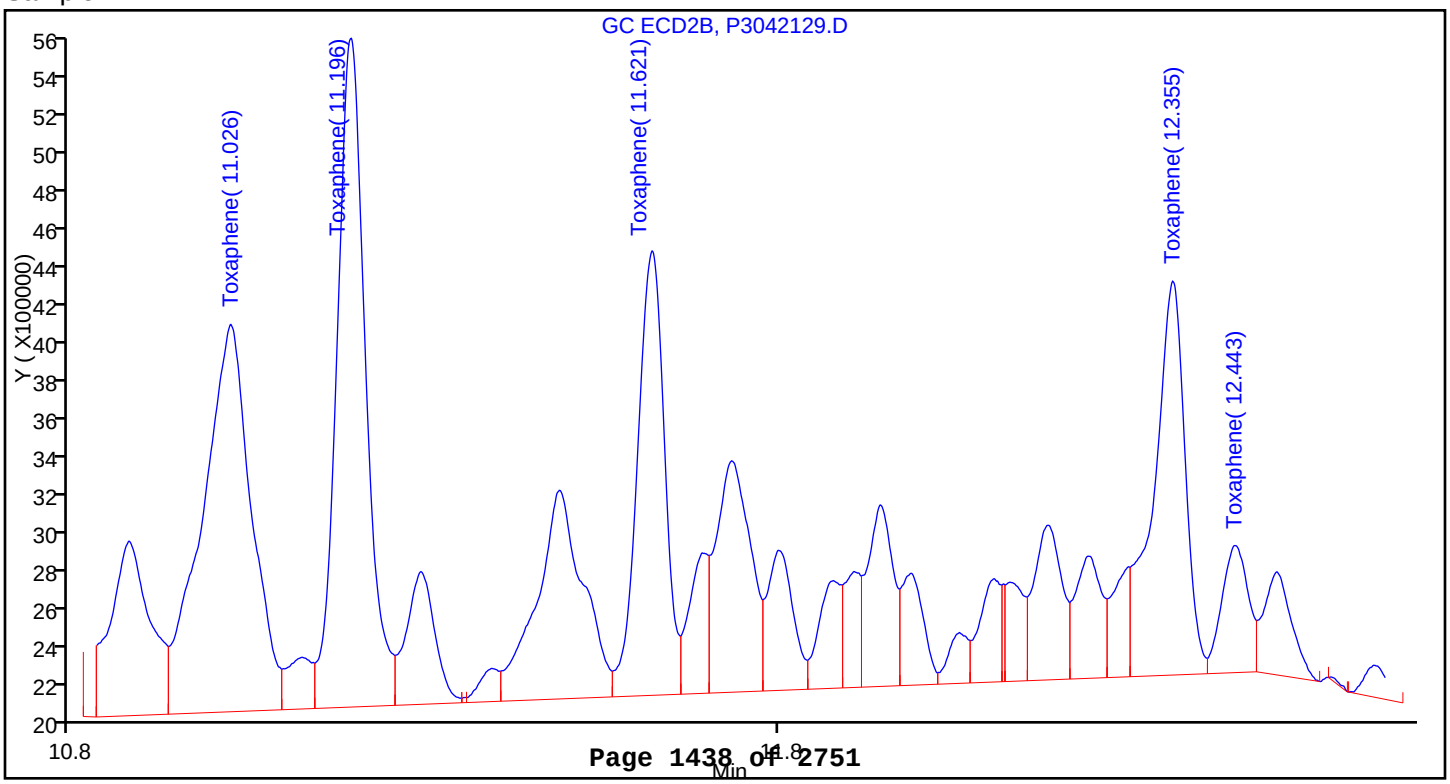
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177258/31

Matrix: Solid | Lab File ID: P3042131.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 00:22

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	5.36		0.050	0.050	0.018
72-55-9	4,4'-DDE	5.45		0.050	0.050	0.0090
50-29-3	4,4'-DDT	4.88		0.050	0.050	0.014
309-00-2	Aldrin	5.49		0.050	0.050	0.013
319-84-6	alpha-BHC	5.33		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	5.66		0.050	0.050	0.012
319-85-7	beta-BHC	6.10		0.050	0.050	0.013
319-86-8	delta-BHC	5.07		0.050	0.050	0.029
60-57-1	Dieldrin	5.61		0.050	0.050	0.013
959-98-8	Endosulfan I	5.86		0.050	0.050	0.016
33213-65-9	Endosulfan II	6.21		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	6.06		0.050	0.050	0.011
72-20-8	Endrin	5.75		0.050	0.050	0.012
7421-93-4	Endrin aldehyde	6.03		0.050	0.050	0.0080
53494-70-5	Endrin ketone	5.88		0.050	0.050	0.0090
58-89-9	gamma-BHC (Lindane)	5.48		0.050	0.050	0.012
5103-74-2	gamma-Chlordane	5.54		0.050	0.050	0.010
76-44-8	Heptachlor	5.88		0.050	0.050	0.0050
1024-57-3	Heptachlor epoxide	5.86		0.050	0.050	0.014
72-43-5	Methoxychlor	5.97		0.10	0.050	0.012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	123		50-150
877-09-8	Tetrachloro-m-xylene	116		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 00:22:12 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-031
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.554	0.002	5725930	5.00	5.82	
2	4.234	4.235	-0.001	6746827	5.00	5.99	
						RPD = 2.79	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.251	4.250	0.001	9222761	5.00	5.33	
2	5.128	5.129	-0.001	10589950	5.00	5.41	
						RPD = 1.57	
5 gamma-BHC (Lindane)							
1	4.638	4.639	-0.001	8464116	5.00	5.48	
2	5.751	5.752	-0.001	9801144	5.00	5.54	
						RPD = 1.02	
6 beta-BHC							
1	4.777	4.776	0.001	3845003	5.00	6.10	
2	5.950	5.951	-0.001	4698715	5.00	6.12	
						RPD = 0.17	
7 delta-BHC							
1	4.999	4.999	0.000	7611876	5.00	5.07	
2	6.573	6.574	-0.001	9263730	5.00	5.22	
						RPD = 3.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.284	0.001	8584429	5.00	5.88	
2	6.652	6.654	-0.002	10345377	5.00	6.12	
						RPD = 3.94	
10 Aldrin							
1	5.750	5.750	0.000	8029918	5.00	5.49	
2	7.457	7.460	-0.003	9349319	5.00	5.59	
						RPD = 1.77	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.023	0.002	7639658	5.00	5.86	
2	8.891	8.891	0.000	8607207	5.00	6.00	
						RPD = 2.31	
13 gamma-Chlordane							
1	7.340	7.339	0.001	7483907	5.00	5.54	
2	9.285	9.285	0.000	8488299	5.00	5.77	
						RPD = 4.05	
14 alpha-Chlordane							
1	7.685	7.684	0.001	7569272	5.00	5.66	
2	9.583	9.584	-0.001	8203936	5.00	5.78	
						RPD = 2.05	
15 Endosulfan I							
1	7.961	7.959	0.002	7195680	5.00	5.86	
2	9.652	9.653	-0.001	7929788	5.00	6.00	
						RPD = 2.33	
16 4,4'-DDE							
1	8.061	8.057	0.004	6458444	5.00	5.45	
2	10.012	10.012	0.000	7422072	5.00	5.62	
						RPD = 3.06	
17 Dieldrin							
1	8.512	8.510	0.002	7337526	5.00	5.61	
2	10.166	10.168	-0.002	7951043	5.00	5.81	
						RPD = 3.51	
18 Endrin							
1	8.965	8.963	0.002	6616084	5.00	5.75	
2	10.681	10.681	0.000	7005609	5.00	5.81	
						RPD = 1.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.326	0.004	4668940	5.00	5.36	
2	11.006	11.006	0.000	5155938	5.00	5.27	
						RPD = 1.80	
21 Endosulfan II							
1	9.415	9.413	0.002	7180990	5.00	6.21	
2	11.049	11.051	-0.002	7523870	5.00	6.43	
						RPD = 3.59	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.842	9.840	0.002	4659601	5.00	4.88	
2	11.487	11.488	-0.001	4979806	5.00	4.99	
						RPD = 2.26	
25 Endrin aldehyde							
1	10.210	10.209	0.001	5367576	5.00	6.03	
2	11.608	11.609	-0.001	5665725	5.00	6.07	
						RPD = 0.69	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.794	10.792	0.002	2734003	5.00	5.97	
2	12.554	12.555	-0.001	2957679	5.00	6.05	
						RPD = 1.32	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	6034111	5.00	6.06	
2	12.030	12.032	-0.002	6478500	5.00	6.12	
						RPD = 0.98	
29 Endrin ketone							
1	11.335	11.334	0.001	7185279	5.00	5.88	
2	12.774	12.776	-0.002	7144288	5.00	5.82	
						RPD = 1.05	

Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.940	0.001	5775402	5.00	6.17	
2	14.493	14.493	0.000	6239737	5.00	6.13	
						RPD = 0.61	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

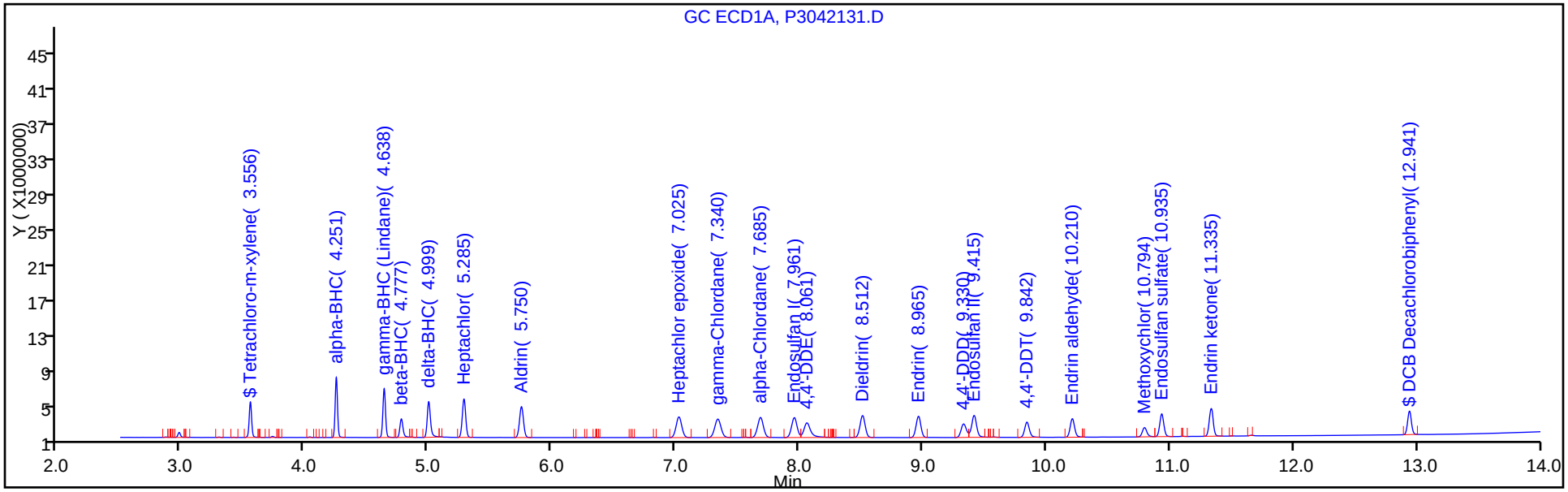
Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

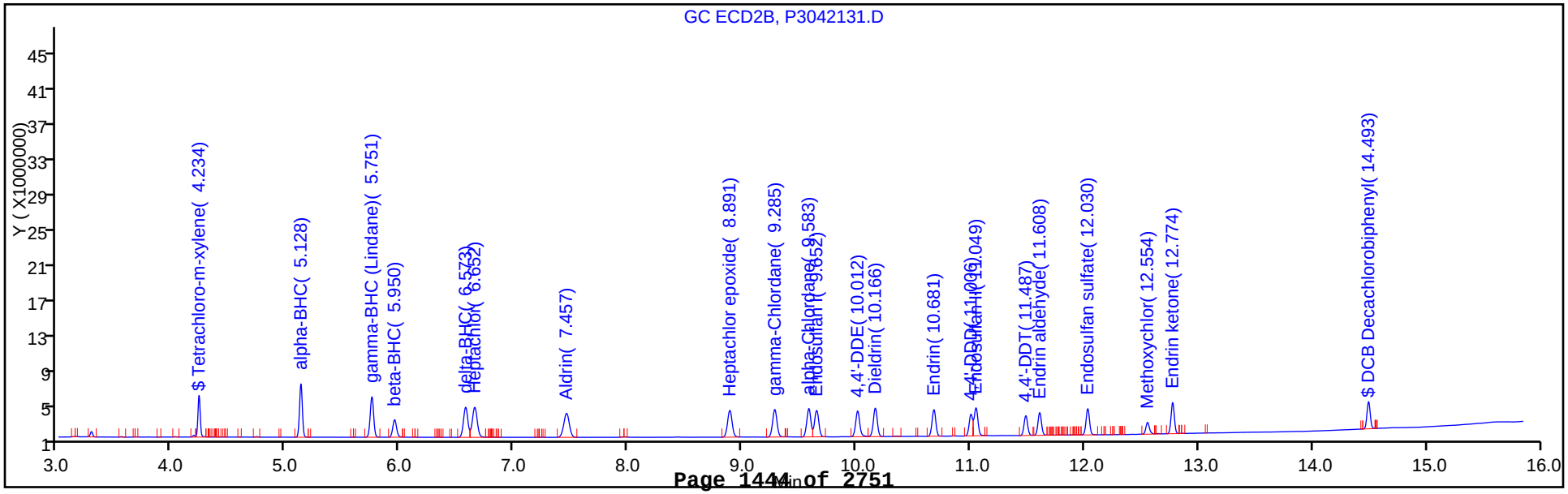
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Injection Date:	22-Apr-2015 00:22:12	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177258/31

Matrix: Solid | Lab File ID: P3042131.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 00:22

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*5.27*		*0.050*	0.050	*0.018*
72-55-9	*4,4'-DDE*	*5.62*		*0.050*	0.050	*0.0090*
50-29-3	*4,4'-DDT*	*4.99*		*0.050*	0.050	*0.014*
309-00-2	*Aldrin*	*5.59*		*0.050*	0.050	*0.013*
319-84-6	*alpha-BHC*	*5.41*		*0.050*	0.050	*0.014*
5103-71-9	*alpha-Chlordane*	*5.78*		*0.050*	0.050	*0.012*
319-85-7	*beta-BHC*	*6.12*		*0.050*	0.050	*0.013*
319-86-8	*delta-BHC*	*5.22*		*0.050*	0.050	*0.029*
60-57-1	*Dieldrin*	*5.81*		*0.050*	0.050	*0.013*
959-98-8	*Endosulfan I*	*6.00*		*0.050*	0.050	*0.016*
33213-65-9	*Endosulfan II*	*6.43*		*0.050*	0.050	*0.015*
1031-07-8	*Endosulfan sulfate*	*6.12*		*0.050*	0.050	*0.011*
72-20-8	*Endrin*	*5.81*		*0.050*	0.050	*0.012*
7421-93-4	*Endrin aldehyde*	*6.07*		*0.050*	0.050	*0.0080*
53494-70-5	*Endrin ketone*	*5.82*		*0.050*	0.050	*0.0090*
58-89-9	*gamma-BHC (Lindane)*	*5.54*		*0.050*	0.050	*0.012*
5103-74-2	*gamma-Chlordane*	*5.77*		*0.050*	0.050	*0.010*
76-44-8	*Heptachlor*	*6.12*		*0.050*	0.050	*0.0050*
1024-57-3	*Heptachlor epoxide*	*6.00*		*0.050*	0.050	*0.014*
72-43-5	*Methoxychlor*	*6.05*		*0.10*	0.050	*0.012*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	123		50-150
877-09-8	Tetrachloro-m-xylene	120		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 00:22:12 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-031
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.556	3.554	0.002	5725930	5.00	5.82	
2	4.234	4.235	-0.001	6746827	5.00	5.99	
						RPD = 2.79	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.251	4.250	0.001	9222761	5.00	5.33	
2	5.128	5.129	-0.001	10589950	5.00	5.41	
						RPD = 1.57	
5 gamma-BHC (Lindane)							
1	4.638	4.639	-0.001	8464116	5.00	5.48	
2	5.751	5.752	-0.001	9801144	5.00	5.54	
						RPD = 1.02	
6 beta-BHC							
1	4.777	4.776	0.001	3845003	5.00	6.10	
2	5.950	5.951	-0.001	4698715	5.00	6.12	
						RPD = 0.17	
7 delta-BHC							
1	4.999	4.999	0.000	7611876	5.00	5.07	
2	6.573	6.574	-0.001	9263730	5.00	5.22	
						RPD = 3.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.284	0.001	8584429	5.00	5.88	
2	6.652	6.654	-0.002	10345377	5.00	6.12	
						RPD = 3.94	
10 Aldrin							
1	5.750	5.750	0.000	8029918	5.00	5.49	
2	7.457	7.460	-0.003	9349319	5.00	5.59	
						RPD = 1.77	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.023	0.002	7639658	5.00	5.86	
2	8.891	8.891	0.000	8607207	5.00	6.00	
						RPD = 2.31	
13 gamma-Chlordane							
1	7.340	7.339	0.001	7483907	5.00	5.54	
2	9.285	9.285	0.000	8488299	5.00	5.77	
						RPD = 4.05	
14 alpha-Chlordane							
1	7.685	7.684	0.001	7569272	5.00	5.66	
2	9.583	9.584	-0.001	8203936	5.00	5.78	
						RPD = 2.05	
15 Endosulfan I							
1	7.961	7.959	0.002	7195680	5.00	5.86	
2	9.652	9.653	-0.001	7929788	5.00	6.00	
						RPD = 2.33	
16 4,4'-DDE							
1	8.061	8.057	0.004	6458444	5.00	5.45	
2	10.012	10.012	0.000	7422072	5.00	5.62	
						RPD = 3.06	
17 Dieldrin							
1	8.512	8.510	0.002	7337526	5.00	5.61	
2	10.166	10.168	-0.002	7951043	5.00	5.81	
						RPD = 3.51	
18 Endrin							
1	8.965	8.963	0.002	6616084	5.00	5.75	
2	10.681	10.681	0.000	7005609	5.00	5.81	
						RPD = 1.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.326	0.004	4668940	5.00	5.36	
2	11.006	11.006	0.000	5155938	5.00	5.27	
						RPD = 1.80	
21 Endosulfan II							
1	9.415	9.413	0.002	7180990	5.00	6.21	
2	11.049	11.051	-0.002	7523870	5.00	6.43	
						RPD = 3.59	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.842	9.840	0.002	4659601	5.00	4.88	
2	11.487	11.488	-0.001	4979806	5.00	4.99	
						RPD = 2.26	
25 Endrin aldehyde							
1	10.210	10.209	0.001	5367576	5.00	6.03	
2	11.608	11.609	-0.001	5665725	5.00	6.07	
						RPD = 0.69	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.794	10.792	0.002	2734003	5.00	5.97	
2	12.554	12.555	-0.001	2957679	5.00	6.05	
						RPD = 1.32	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	6034111	5.00	6.06	
2	12.030	12.032	-0.002	6478500	5.00	6.12	
						RPD = 0.98	
29 Endrin ketone							
1	11.335	11.334	0.001	7185279	5.00	5.88	
2	12.774	12.776	-0.002	7144288	5.00	5.82	
						RPD = 1.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.941	12.940	0.001	5775402	5.00	6.17	
2	14.493	14.493	0.000	6239737	5.00	6.13	
						RPD = 0.61	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

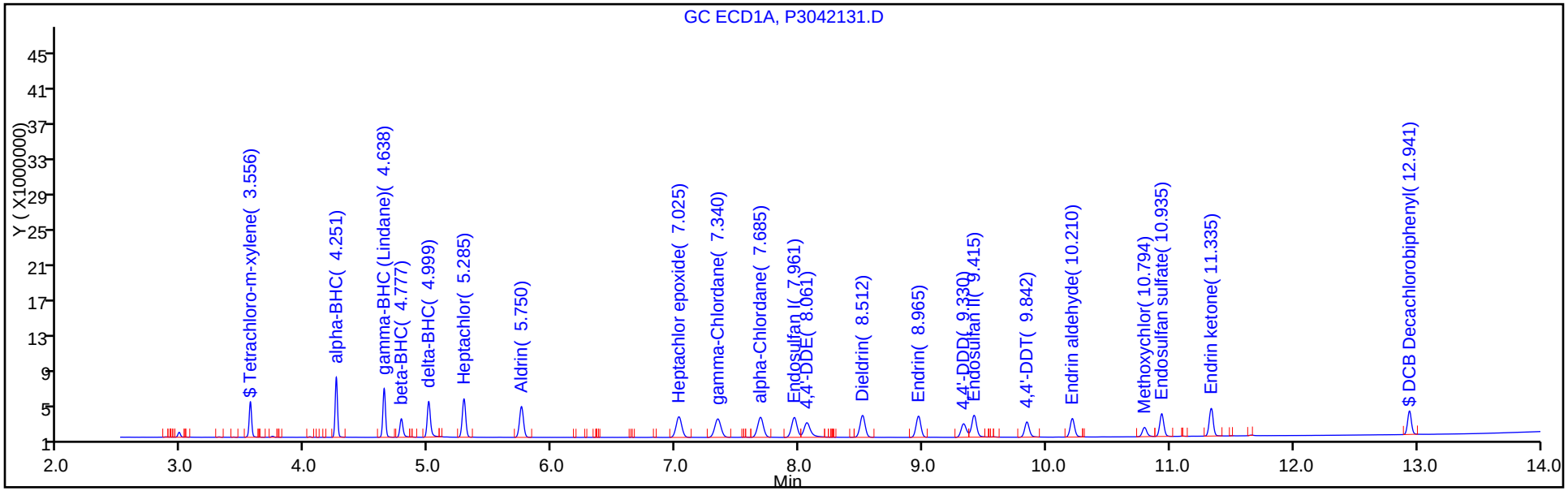
Report Date: 22-Apr-2015 08:58:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

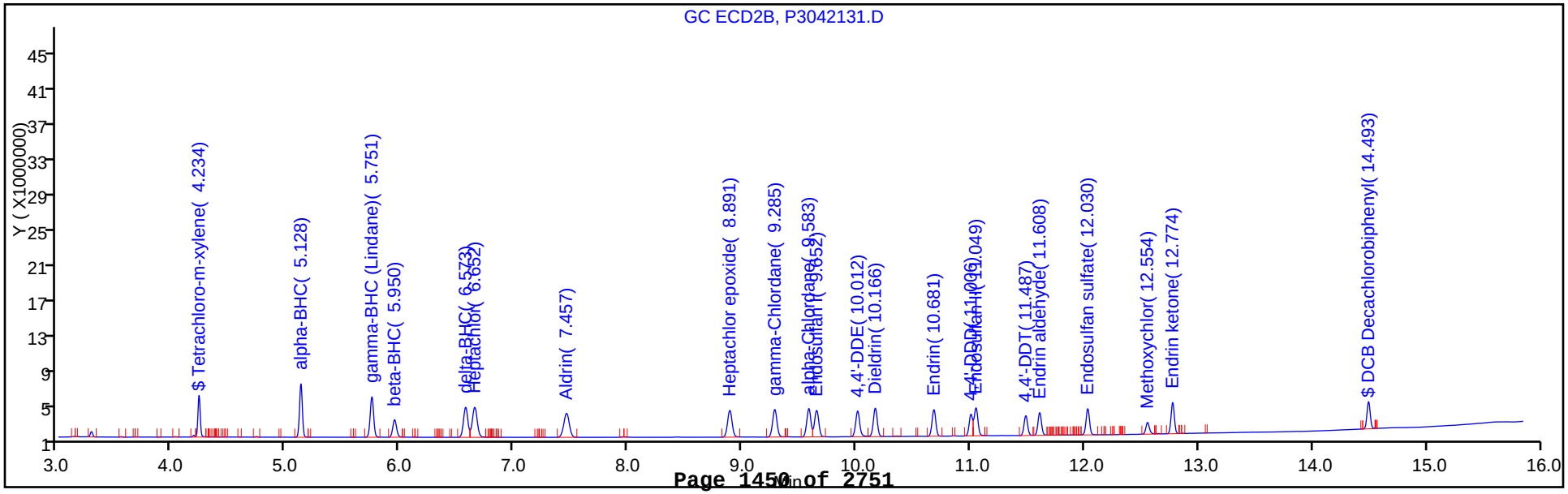
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042131.D

Injection Date:	22-Apr-2015 00:22:12	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177258/47

Matrix: Solid Lab File ID: P3042147.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 06:25

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	148		2.0	1.0	0.20

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 06:25:59 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-047
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:37:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554					ND	
2	4.235						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.879						
2 Diallate							
1	4.125					ND	
1	4.292						
2	4.831						
2	4.993						
4 alpha-BHC							
1	4.250					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.637					ND	
2	5.751						
6 beta-BHC							
1	4.775					ND	
2	5.950						
7 delta-BHC							
1	4.998					ND	
2	6.573						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					
21 Endosulfan II							
1		9.411				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.618	9.622	-0.004	6668723	200.0	176.3	M
1	10.083	10.081	0.002	6158420	200.0	168.1	M
1	10.393	10.393	0.000	3305126	200.0	141.5	M
1	10.736	10.735	0.001	5308916	200.0	160.0	M
1	10.841	10.840	0.001	3051798	200.0	94.4	M
		Average of Peak Amounts =				148.1	
2	11.025	11.025	0.000	8123575	200.0	156.8	M
2	11.195	11.195	0.000	8454792	200.0	165.9	M
2	11.619	11.618	0.001	5432969	200.0	152.4	M
2	12.355	12.353	0.002	5372334	200.0	117.7	M
2	12.441	12.444	-0.003	1914467	200.0	123.0	M
		Average of Peak Amounts =				143.2	
						RPD = 3.36	
23 4,4'-DDT							
1		9.838				ND	
2		11.487					
25 Endrin aldehyde							
1		10.206				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.789				ND	
2		12.553					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.030					
29 Endrin ketone							
1		11.333				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.938				ND	
2		14.493					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

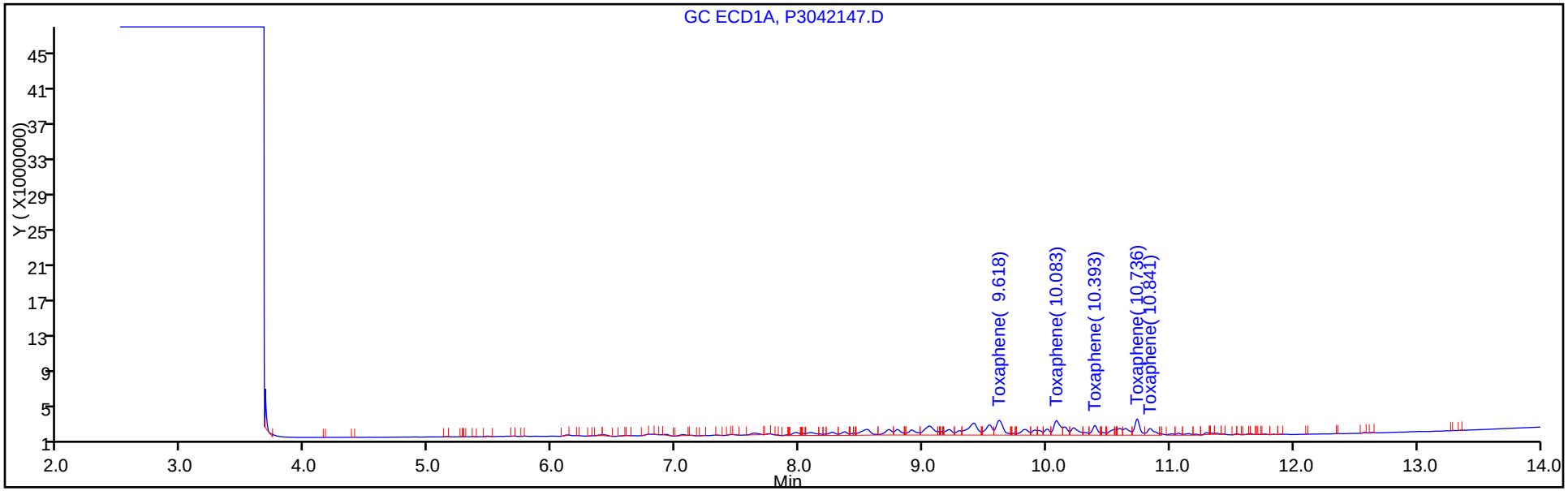
Report Date: 22-Apr-2015 08:58:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

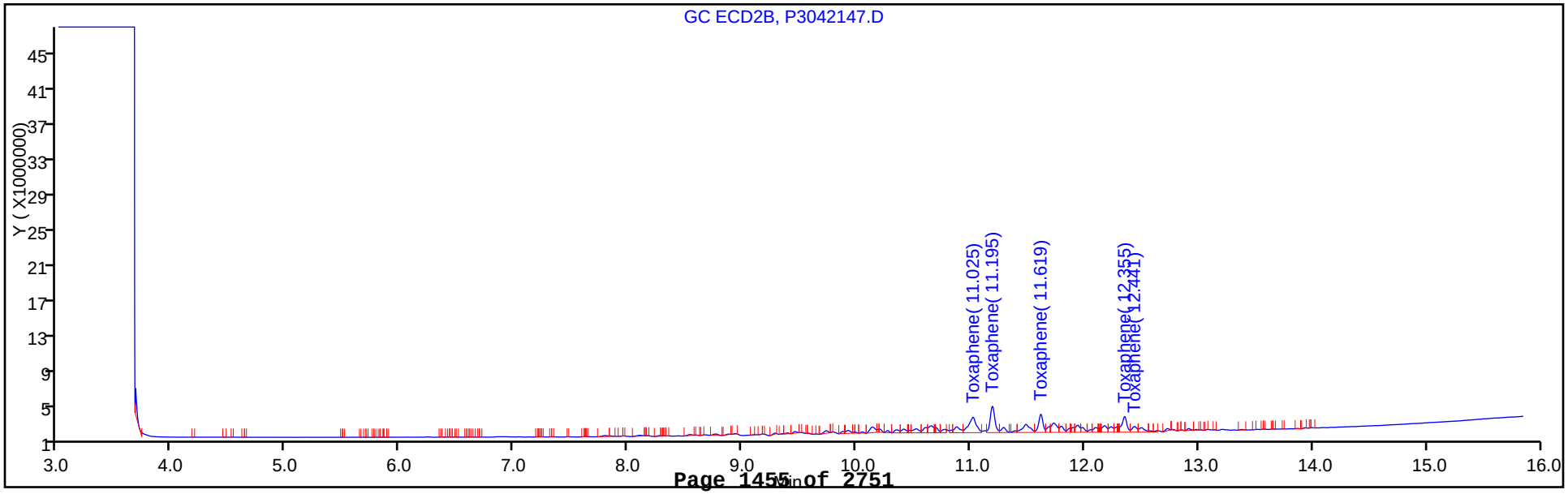
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date:	22-Apr-2015 06:25:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

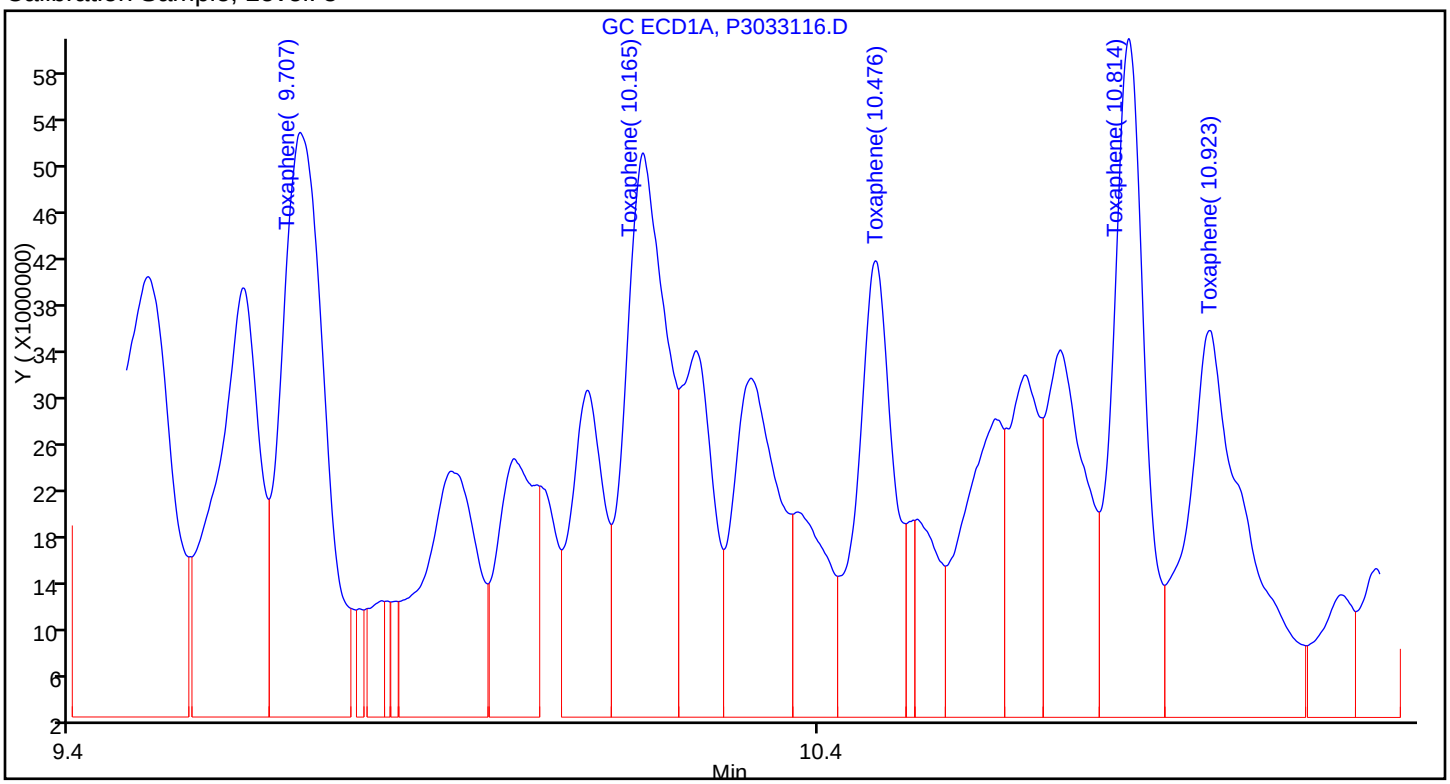
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

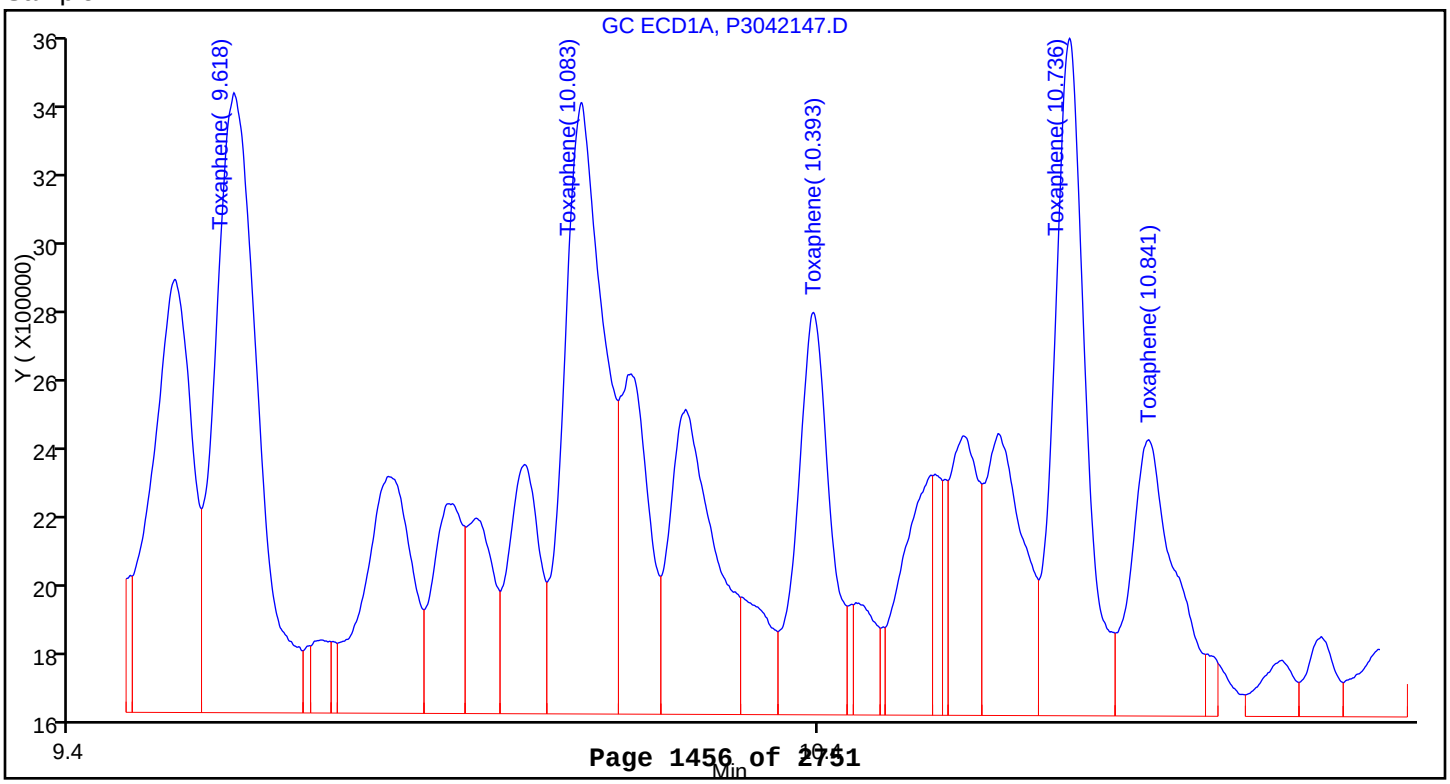
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

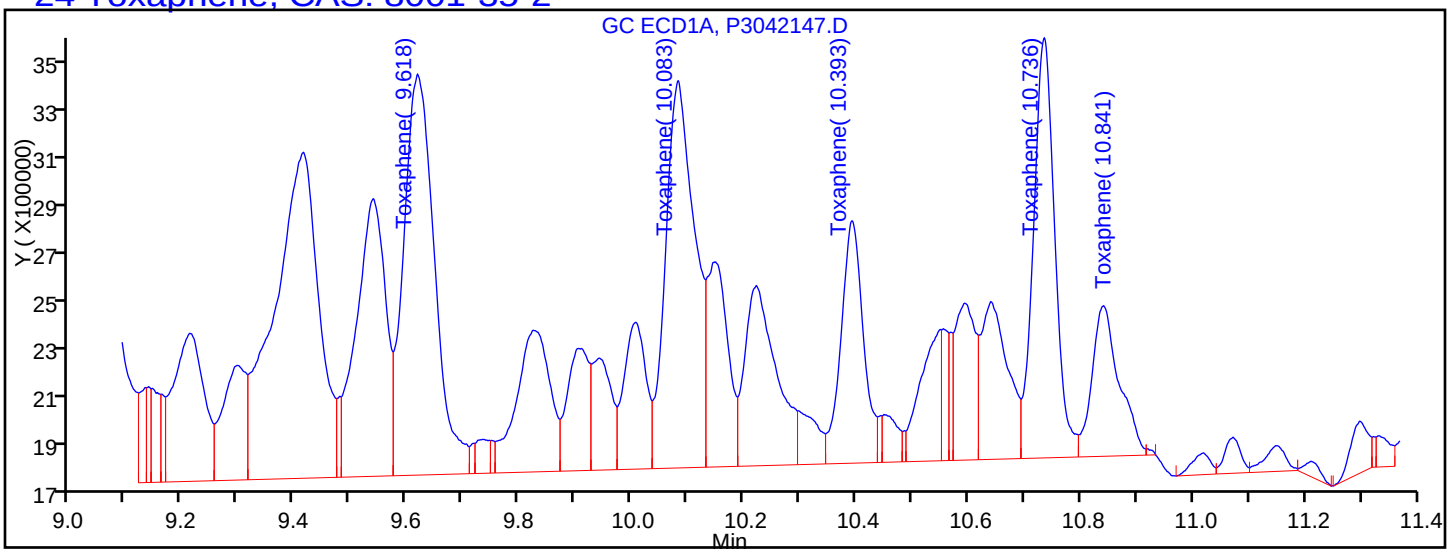
Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

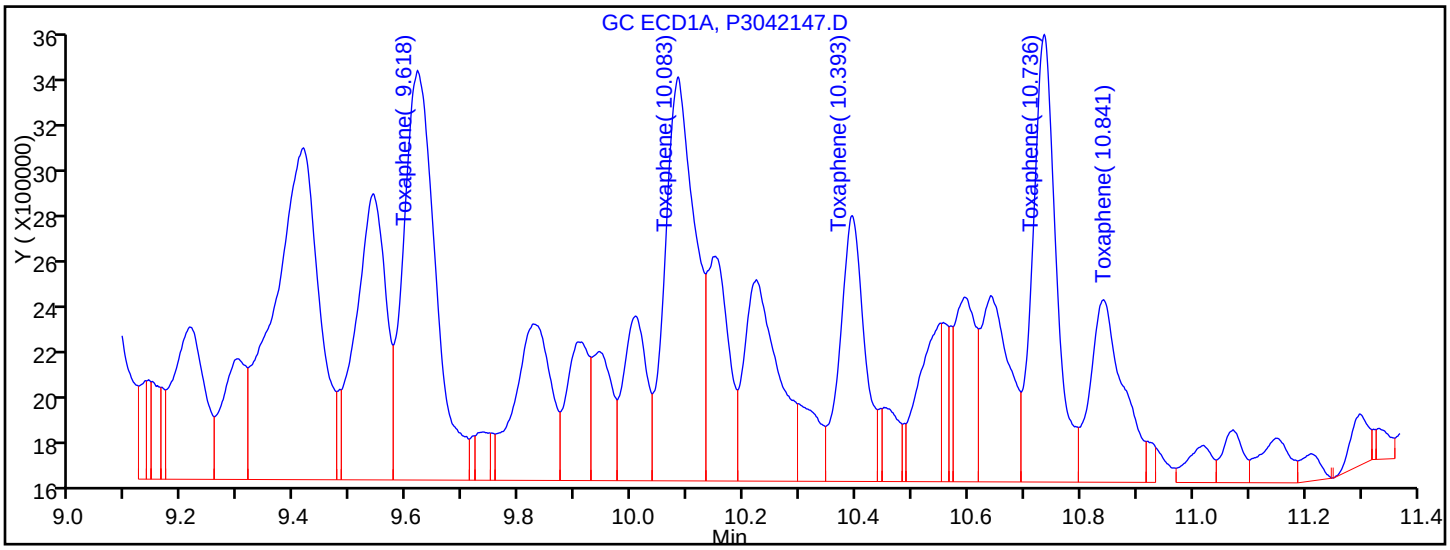
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.618	Response = 6233656	M
RT = 10.083	Response = 5675294	M
RT = 10.393	Response = 2720411	M
RT = 10.736	Response = 4510246	M
RT = 10.841	Response = 2054115	M



Manual Integration Results

RT = 9.618	Response = 6668723	M
RT = 10.083	Response = 6158420	M
RT = 10.393	Response = 3305126	M
RT = 10.736	Response = 5308916	M
RT = 10.841	Response = 3051798	M

Reviewer: matthewsb, 22-Apr-2015 07:37:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177258/47

Matrix: Solid Lab File ID: P3042147.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 06:25

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177258 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*143*		*2.0*	1.0	*0.20*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 06:25:59 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-047
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:37:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1		3.554				ND	
2		4.235					
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1		4.250				ND	
2		5.128					
5 gamma-BHC (Lindane)							
1		4.637				ND	
2		5.751					
6 beta-BHC							
1		4.775				ND	
2		5.950					
7 delta-BHC							
1		4.998				ND	
2		6.573					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1		5.283				ND	
2		6.653					
10 Aldrin							
1		5.748				ND	
2		7.458					
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1		7.021				ND	
2		8.889					
13 gamma-Chlordane							
1		7.337				ND	
2		9.285					
14 alpha-Chlordane							
1		7.682				ND	
2		9.583					
15 Endosulfan I							
1		7.957				ND	
2		9.651					
16 4,4'-DDE							
1		8.056				ND	
2		10.009					
17 Dieldrin							
1		8.508				ND	
2		10.167					
18 Endrin							
1		8.962				ND	
2		10.680					
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1		9.322				ND	
2		11.004					
21 Endosulfan II							
1		9.411				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							M
1	9.618	9.622	-0.004	6668723	200.0	176.3	M
1	10.083	10.081	0.002	6158420	200.0	168.1	M
1	10.393	10.393	0.000	3305126	200.0	141.5	M
1	10.736	10.735	0.001	5308916	200.0	160.0	M
1	10.841	10.840	0.001	3051798	200.0	94.4	M
		Average of Peak Amounts =				148.1	
2	11.025	11.025	0.000	8123575	200.0	156.8	M
2	11.195	11.195	0.000	8454792	200.0	165.9	M
2	11.619	11.618	0.001	5432969	200.0	152.4	M
2	12.355	12.353	0.002	5372334	200.0	117.7	M
2	12.441	12.444	-0.003	1914467	200.0	123.0	M
		Average of Peak Amounts =				143.2	
						RPD = 3.36	
23 4,4'-DDT							
1		9.838				ND	
2		11.487					
25 Endrin aldehyde							
1		10.206				ND	
2		11.609					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.789				ND	
2		12.553					
28 Endosulfan sulfate							
1		10.933				ND	
2		12.030					
29 Endrin ketone							
1		11.333				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.938				ND	
2		14.493					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

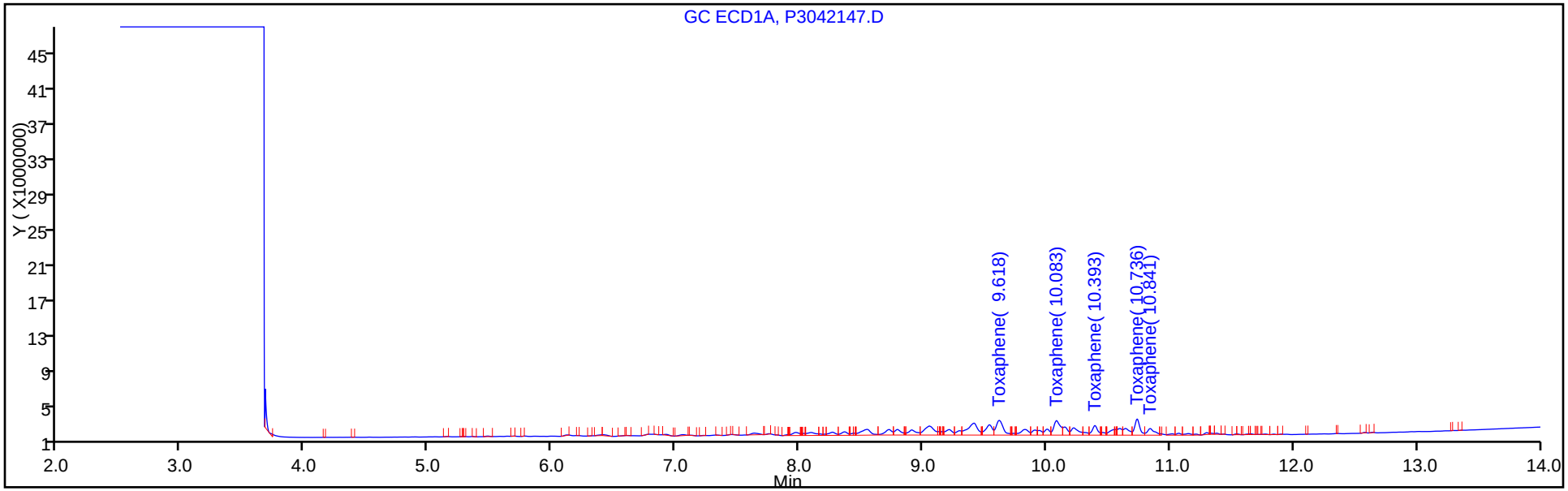
Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

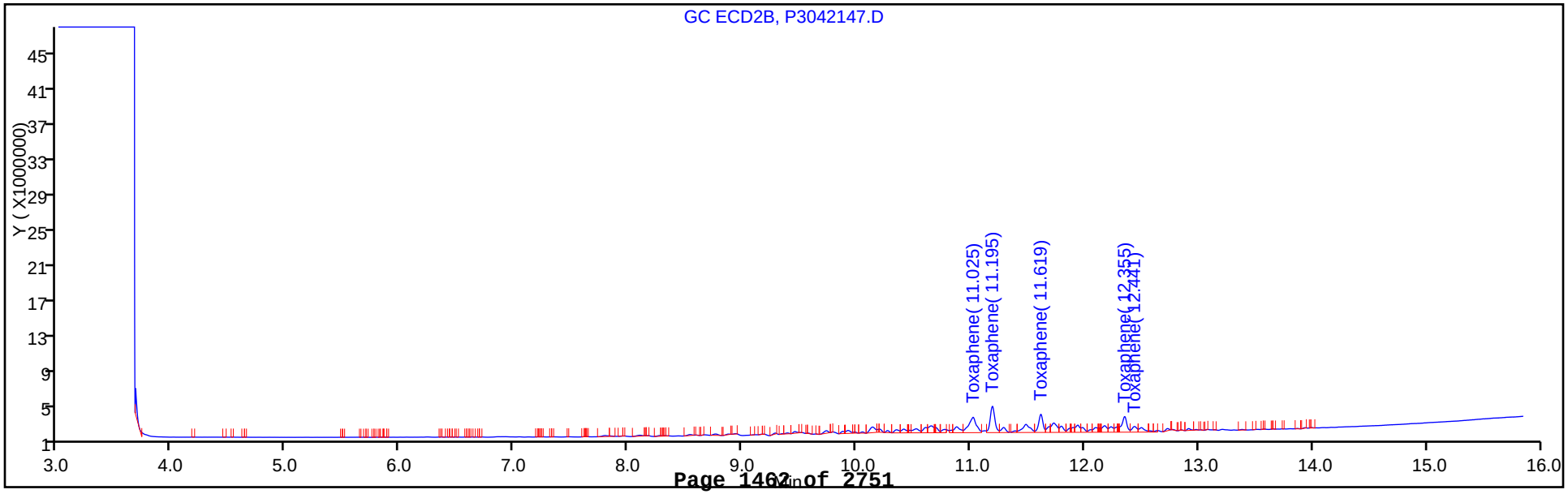
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date:	22-Apr-2015 06:25:59	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

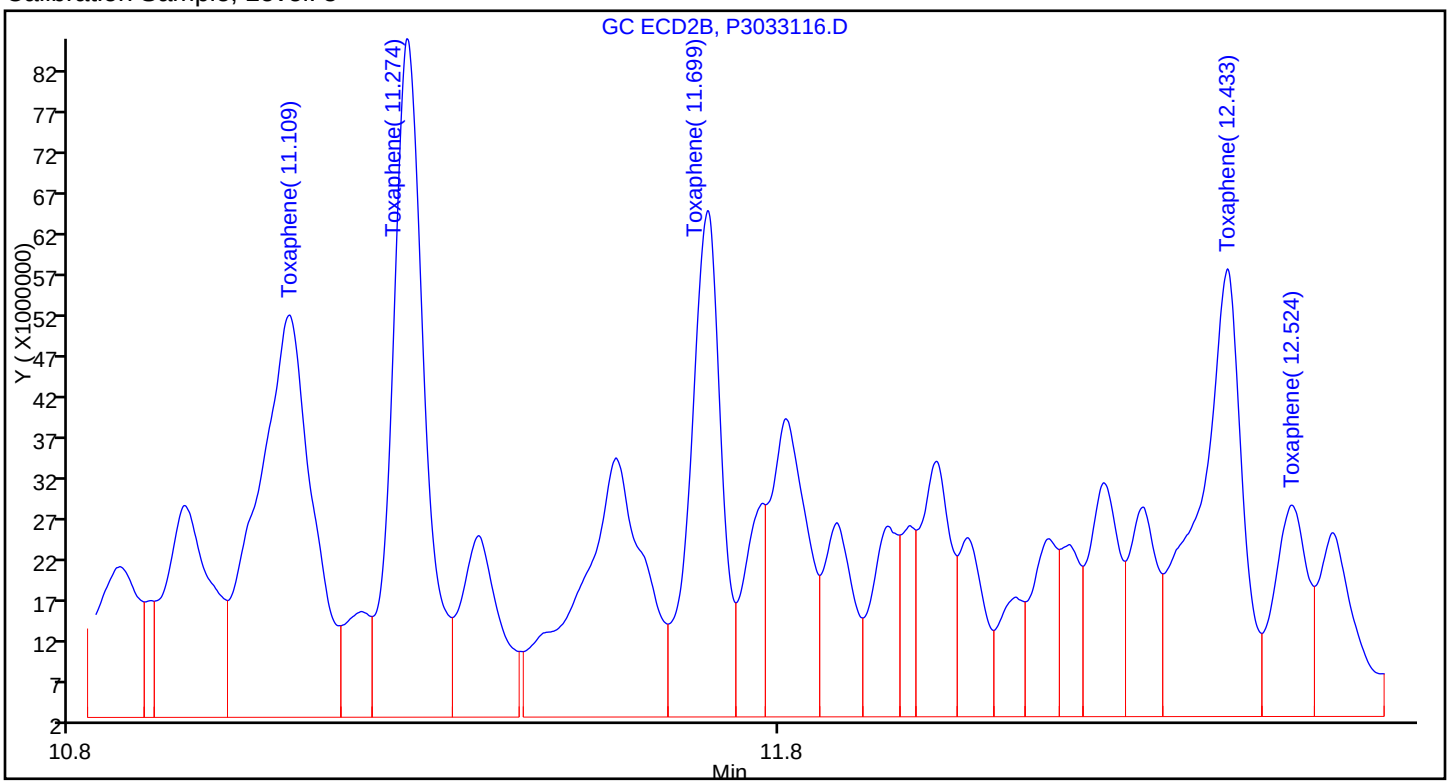
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

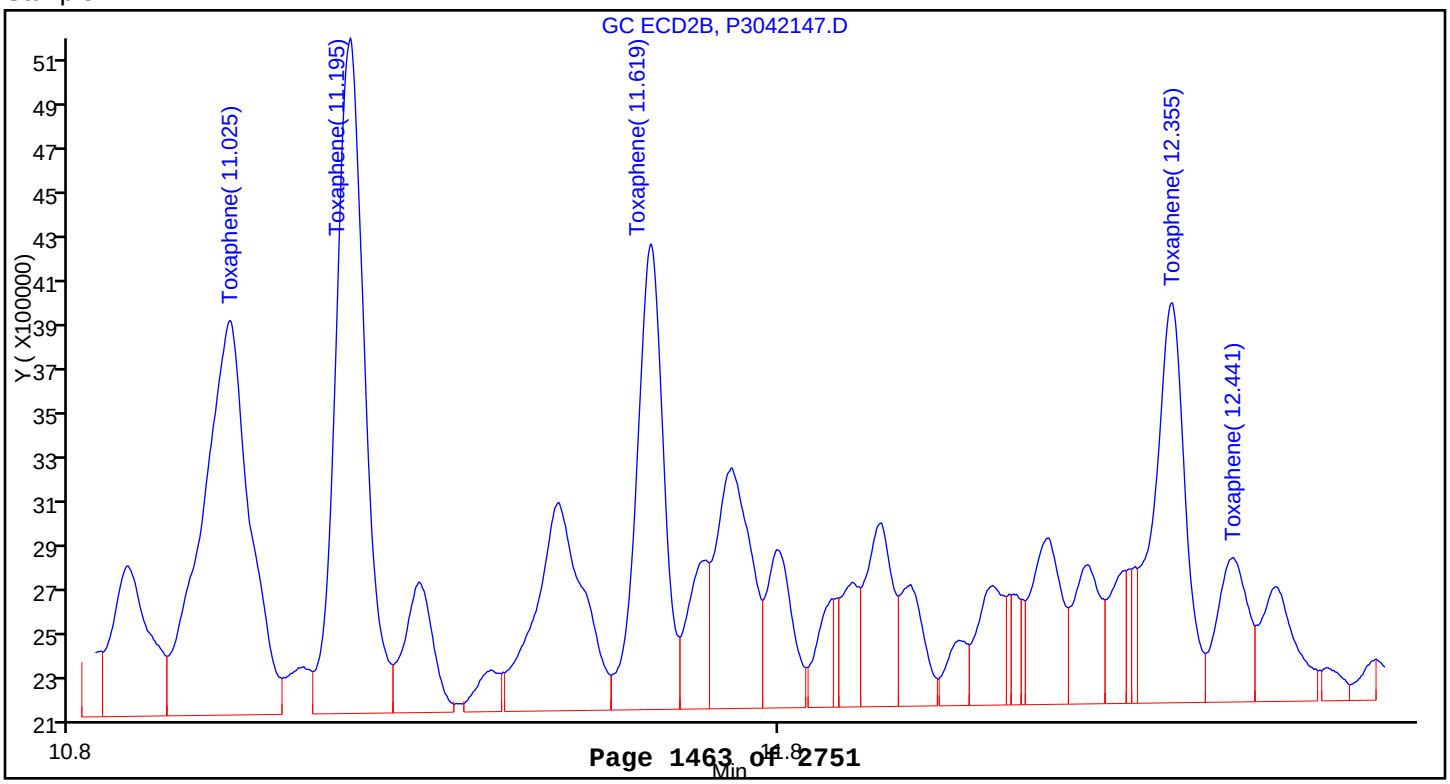
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 22-Apr-2015 08:58:26 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042147.D

Injection Date: 22-Apr-2015 06:25:59 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

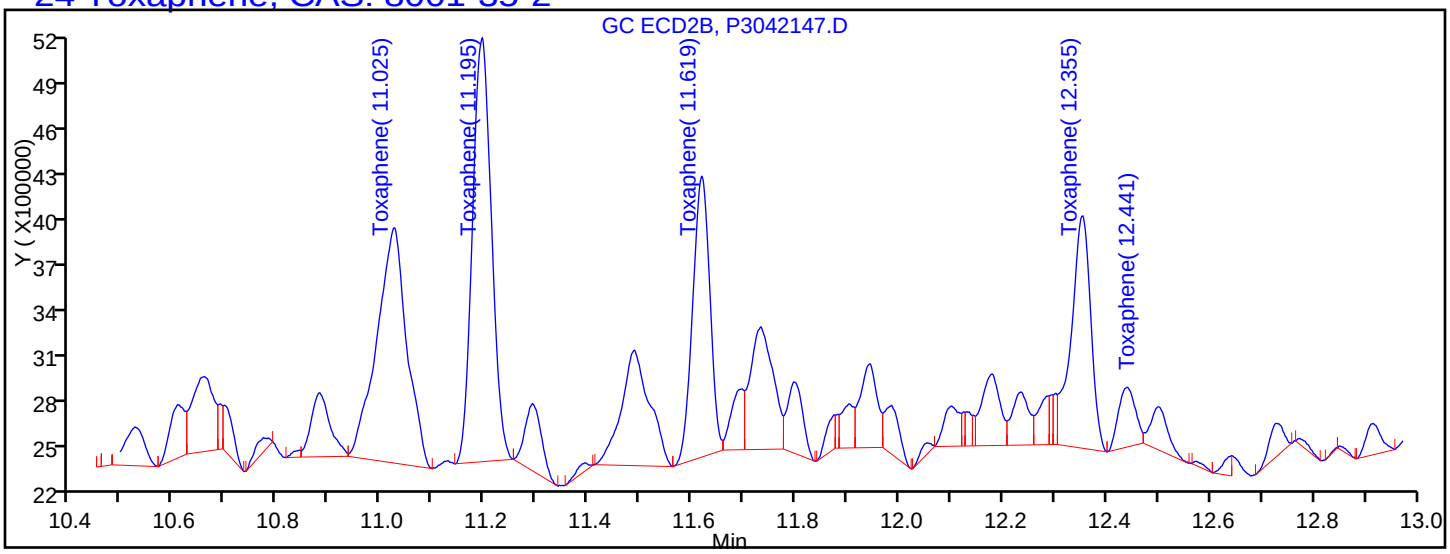
Operator ID: 430893 ALS Bottle#: 47 Worklist Smp#: 47

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

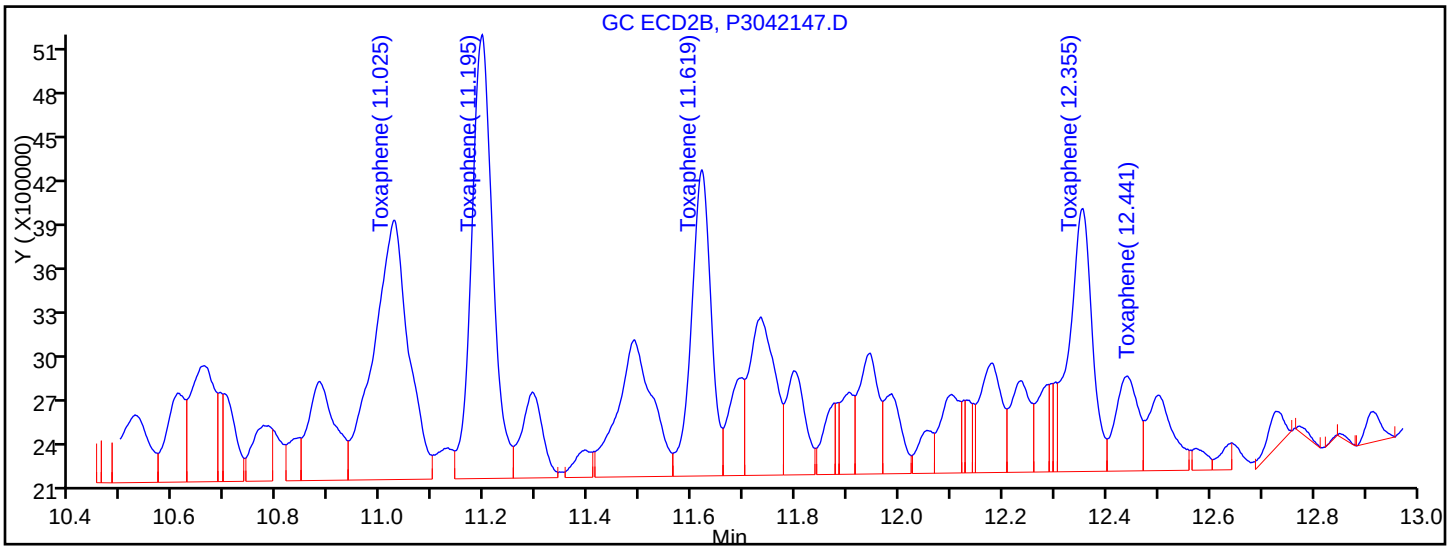
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.025	Response = 6166955	M
RT = 11.195	Response = 7098168	M
RT = 11.619	Response = 4250424	M
RT = 12.355	Response = 3993179	M
RT = 12.441	Response = 901540	M



Manual Integration Results

RT = 11.025	Response = 8123575	M
RT = 11.195	Response = 8454792	M
RT = 11.619	Response = 5432969	M
RT = 12.355	Response = 5372334	M
RT = 12.441	Response = 1914467	M

Reviewer: matthewsb, 22-Apr-2015 07:37:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177258/49

Matrix: Solid | Lab File ID: P3042149.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 07:12

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	5.35		0.050	0.050	0.018
72-55-9	4,4'-DDE	5.35		0.050	0.050	0.0090
50-29-3	4,4'-DDT	3.49		0.050	0.050	0.014
309-00-2	Aldrin	5.43		0.050	0.050	0.013
319-84-6	alpha-BHC	5.37		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	5.57		0.050	0.050	0.012
319-85-7	beta-BHC	5.80		0.050	0.050	0.013
319-86-8	delta-BHC	4.82		0.050	0.050	0.029
60-57-1	Dieldrin	5.56		0.050	0.050	0.013
959-98-8	Endosulfan I	5.78		0.050	0.050	0.016
33213-65-9	Endosulfan II	6.16		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	5.67		0.050	0.050	0.011
72-20-8	Endrin	5.61		0.050	0.050	0.012
7421-93-4	Endrin aldehyde	5.29		0.050	0.050	0.0080
53494-70-5	Endrin ketone	5.38		0.050	0.050	0.0090
58-89-9	gamma-BHC (Lindane)	5.36		0.050	0.050	0.012
5103-74-2	gamma-Chlordane	5.45		0.050	0.050	0.010
76-44-8	Heptachlor	5.73		0.050	0.050	0.0050
1024-57-3	Heptachlor epoxide	5.76		0.050	0.050	0.014
72-43-5	Methoxychlor	4.23		0.10	0.050	0.012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	116		50-150
877-09-8	Tetrachloro-m-xylene	117		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 07:12:11 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-049
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.554	0.001	5759700	5.00	5.86	
2	4.235	4.235	0.000	6674773	5.00	5.92	
						RPD = 1.13	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.250	4.250	0.000	9297189	5.00	5.37	
2	5.129	5.128	0.001	10527383	5.00	5.38	
						RPD = 0.18	
5 gamma-BHC (Lindane)							
1	4.638	4.637	0.001	8280119	5.00	5.36	
2	5.751	5.751	0.000	9653649	5.00	5.46	
						RPD = 1.70	
6 beta-BHC							
1	4.777	4.775	0.002	3650972	5.00	5.80	
2	5.952	5.950	0.002	4637872	5.00	6.04	
						RPD = 4.05	
7 delta-BHC							
1	5.000	4.998	0.002	7242641	5.00	4.82	
2	6.575	6.573	0.002	8681316	5.00	4.89	
						RPD = 1.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.283	0.002	8365986	5.00	5.73	
2	6.653	6.653	0.000	10069563	5.00	5.96	
						RPD = 3.82	
10 Aldrin							
1	5.750	5.748	0.002	7942814	5.00	5.43	
2	7.458	7.458	0.000	9285452	5.00	5.55	
						RPD = 2.18	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.021	0.004	7509932	5.00	5.76	
2	8.889	8.889	0.000	8417740	5.00	5.86	
						RPD = 1.80	
13 gamma-Chlordane							
1	7.340	7.337	0.003	7356533	5.00	5.45	
2	9.284	9.285	-0.001	8306900	5.00	5.65	
						RPD = 3.60	
14 alpha-Chlordane							
1	7.685	7.682	0.003	7453295	5.00	5.57	
2	9.584	9.583	0.001	8008390	5.00	5.64	
						RPD = 1.18	
15 Endosulfan I							
1	7.958	7.957	0.001	7090410	5.00	5.78	
2	9.653	9.651	0.002	7760039	5.00	5.87	
						RPD = 1.64	
16 4,4'-DDE							
1	8.061	8.056	0.005	6336434	5.00	5.35	
2	10.012	10.009	0.003	7190910	5.00	5.45	
						RPD = 1.80	
17 Dieldrin							
1	8.511	8.508	0.003	7266323	5.00	5.56	
2	10.167	10.167	0.000	7763329	5.00	5.67	
						RPD = 2.09	
18 Endrin							
1	8.964	8.962	0.002	6461451	5.00	5.61	
2	10.680	10.680	0.000	6537728	5.00	5.42	
						RPD = 3.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.322	0.008	4660374	5.00	5.35	
2	11.006	11.004	0.002	5123179	5.00	5.23	
						RPD = 2.25	
21 Endosulfan II							
1	9.414	9.411	0.003	7125507	5.00	6.16	
2	11.050	11.050	0.000	7587472	5.00	6.49	
						RPD = 5.20	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.841	9.838	0.003	3331675	5.00	3.49	
2	11.486	11.487	-0.001	3447548	5.00	3.45	
						RPD = 0.96	
25 Endrin aldehyde							
1	10.210	10.206	0.004	4710760	5.00	5.29	
2	11.609	11.609	0.000	4861346	5.00	5.21	
						RPD = 1.57	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.793	10.789	0.004	1940360	5.00	4.23	
2	12.554	12.553	0.001	1928694	5.00	3.94	
						RPD = 7.14	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	5653115	5.00	5.67	
2	12.030	12.030	0.000	5971930	5.00	5.64	
						RPD = 0.64	
29 Endrin ketone							
1	11.334	11.333	0.001	6578132	5.00	5.38	
2	12.774	12.773	0.001	6574509	5.00	5.35	
						RPD = 0.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.938	0.002	5434719	5.00	5.80	
2	14.492	14.493	-0.001	5979986	5.00	5.87	
						RPD = 1.21	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

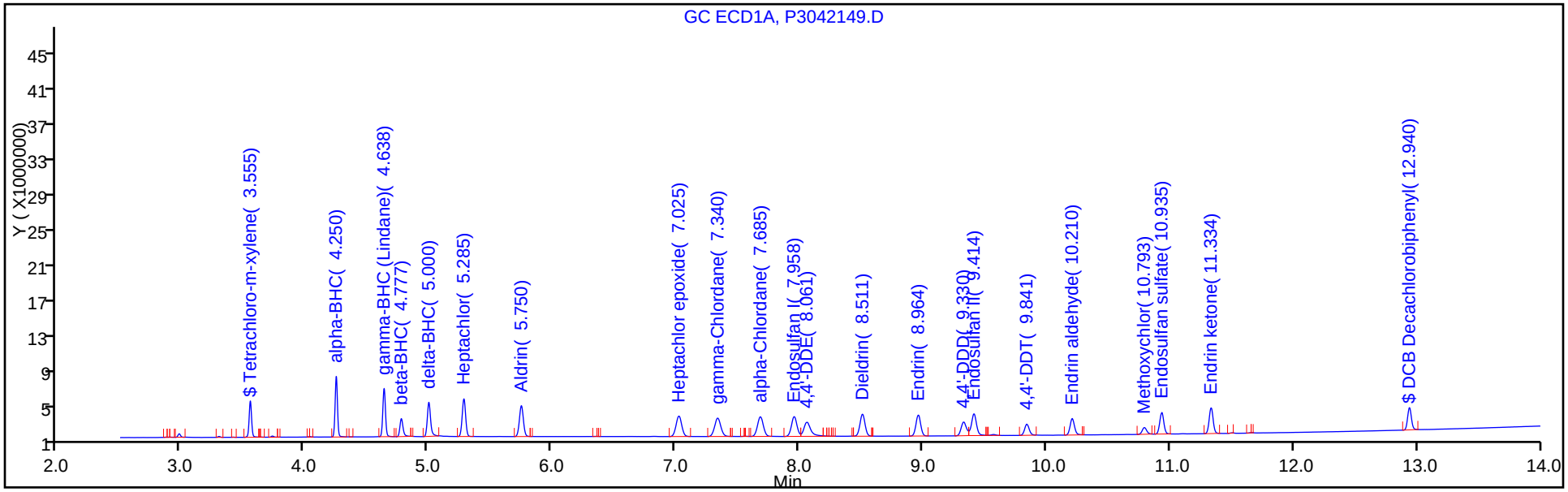
Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

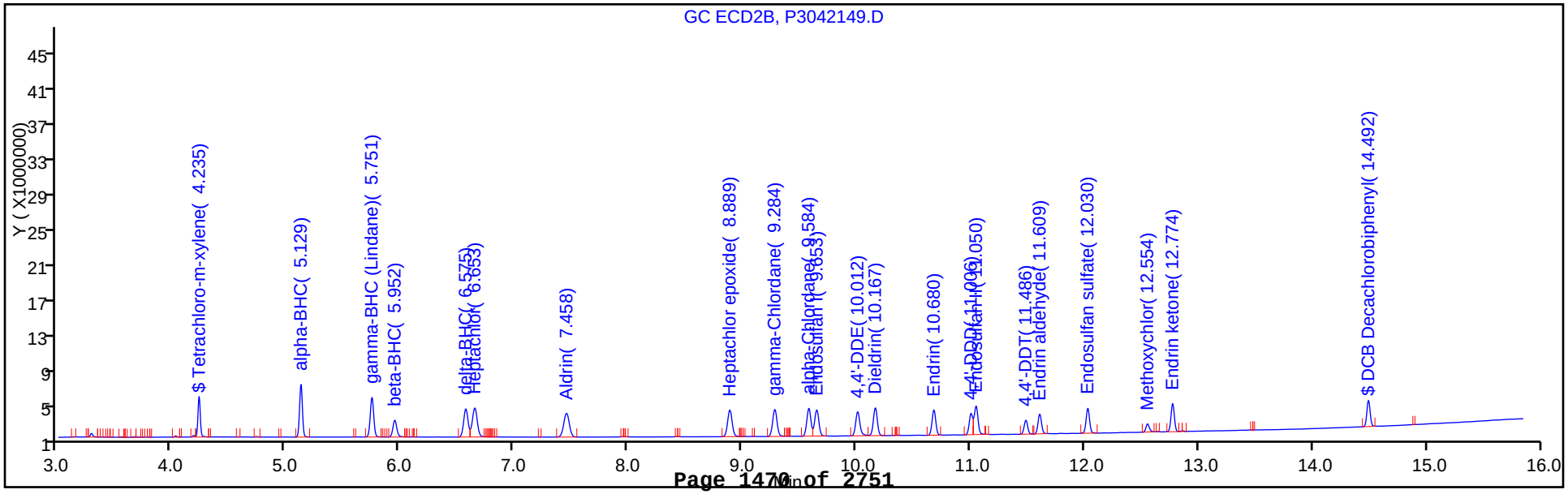
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D

Injection Date:	22-Apr-2015 07:12:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177258/49

Matrix: Solid | Lab File ID: P3042149.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 07:12

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*5.23*		*0.050*	0.050	*0.018*
72-55-9	*4,4'-DDE*	*5.45*		*0.050*	0.050	*0.0090*
50-29-3	*4,4'-DDT*	*3.45*	^	*0.050*	0.050	*0.014*
309-00-2	*Aldrin*	*5.55*		*0.050*	0.050	*0.013*
319-84-6	*alpha-BHC*	*5.38*		*0.050*	0.050	*0.014*
5103-71-9	*alpha-Chlordane*	*5.64*		*0.050*	0.050	*0.012*
319-85-7	*beta-BHC*	*6.04*		*0.050*	0.050	*0.013*
319-86-8	*delta-BHC*	*4.89*		*0.050*	0.050	*0.029*
60-57-1	*Dieldrin*	*5.67*		*0.050*	0.050	*0.013*
959-98-8	*Endosulfan I*	*5.87*		*0.050*	0.050	*0.016*
33213-65-9	*Endosulfan II*	*6.49*		*0.050*	0.050	*0.015*
1031-07-8	*Endosulfan sulfate*	*5.64*		*0.050*	0.050	*0.011*
72-20-8	*Endrin*	*5.42*		*0.050*	0.050	*0.012*
7421-93-4	*Endrin aldehyde*	*5.21*		*0.050*	0.050	*0.0080*
53494-70-5	*Endrin ketone*	*5.35*		*0.050*	0.050	*0.0090*
58-89-9	*gamma-BHC (Lindane)*	*5.46*		*0.050*	0.050	*0.012*
5103-74-2	*gamma-Chlordane*	*5.65*		*0.050*	0.050	*0.010*
76-44-8	*Heptachlor*	*5.96*		*0.050*	0.050	*0.0050*
1024-57-3	*Heptachlor epoxide*	*5.86*		*0.050*	0.050	*0.014*
72-43-5	*Methoxychlor*	*3.94*		*0.10*	0.050	*0.012*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	117		50-150
877-09-8	Tetrachloro-m-xylene	118		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 07:12:11 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-049
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:58:14 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 08:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.554	0.001	5759700	5.00	5.86	
2	4.235	4.235	0.000	6674773	5.00	5.92	
						RPD = 1.13	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.879					
2 Diallate							
1		4.125				ND	
1		4.292					
2		4.831					
2		4.993					
4 alpha-BHC							
1	4.250	4.250	0.000	9297189	5.00	5.37	
2	5.129	5.128	0.001	10527383	5.00	5.38	
						RPD = 0.18	
5 gamma-BHC (Lindane)							
1	4.638	4.637	0.001	8280119	5.00	5.36	
2	5.751	5.751	0.000	9653649	5.00	5.46	
						RPD = 1.70	
6 beta-BHC							
1	4.777	4.775	0.002	3650972	5.00	5.80	
2	5.952	5.950	0.002	4637872	5.00	6.04	
						RPD = 4.05	
7 delta-BHC							
1	5.000	4.998	0.002	7242641	5.00	4.82	
2	6.575	6.573	0.002	8681316	5.00	4.89	
						RPD = 1.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.166				ND	
1		6.055					
1		7.339					
1		7.677					
2		6.325					
2		7.950					
2		9.283					
2		9.581					
9 Heptachlor							
1	5.285	5.283	0.002	8365986	5.00	5.73	
2	6.653	6.653	0.000	10069563	5.00	5.96	
						RPD = 3.82	
10 Aldrin							
1	5.750	5.748	0.002	7942814	5.00	5.43	
2	7.458	7.458	0.000	9285452	5.00	5.55	
						RPD = 2.18	
11 Isodrin							
1		6.354				ND	
2		8.430					
12 Heptachlor epoxide							
1	7.025	7.021	0.004	7509932	5.00	5.76	
2	8.889	8.889	0.000	8417740	5.00	5.86	
						RPD = 1.80	
13 gamma-Chlordane							
1	7.340	7.337	0.003	7356533	5.00	5.45	
2	9.284	9.285	-0.001	8306900	5.00	5.65	
						RPD = 3.60	
14 alpha-Chlordane							
1	7.685	7.682	0.003	7453295	5.00	5.57	
2	9.584	9.583	0.001	8008390	5.00	5.64	
						RPD = 1.18	
15 Endosulfan I							
1	7.958	7.957	0.001	7090410	5.00	5.78	
2	9.653	9.651	0.002	7760039	5.00	5.87	
						RPD = 1.64	
16 4,4'-DDE							
1	8.061	8.056	0.005	6336434	5.00	5.35	
2	10.012	10.009	0.003	7190910	5.00	5.45	
						RPD = 1.80	
17 Dieldrin							
1	8.511	8.508	0.003	7266323	5.00	5.56	
2	10.167	10.167	0.000	7763329	5.00	5.67	
						RPD = 2.09	
18 Endrin							
1	8.964	8.962	0.002	6461451	5.00	5.61	
2	10.680	10.680	0.000	6537728	5.00	5.42	
						RPD = 3.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.020				ND	
2		10.835					
20 4,4'-DDD							
1	9.330	9.322	0.008	4660374	5.00	5.35	
2	11.006	11.004	0.002	5123179	5.00	5.23	
						RPD = 2.25	
21 Endosulfan II							
1	9.414	9.411	0.003	7125507	5.00	6.16	
2	11.050	11.050	0.000	7587472	5.00	6.49	
						RPD = 5.20	
22 Chlorobenzilate							
1		9.422				ND	
2		10.829					
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.841	9.838	0.003	3331675	5.00	3.49	
2	11.486	11.487	-0.001	3447548	5.00	3.45	
						RPD = 0.96	
25 Endrin aldehyde							
1	10.210	10.206	0.004	4710760	5.00	5.29	
2	11.609	11.609	0.000	4861346	5.00	5.21	
						RPD = 1.57	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.793	10.789	0.004	1940360	5.00	4.23	
2	12.554	12.553	0.001	1928694	5.00	3.94	
						RPD = 7.14	
28 Endosulfan sulfate							
1	10.935	10.933	0.002	5653115	5.00	5.67	
2	12.030	12.030	0.000	5971930	5.00	5.64	
						RPD = 0.64	
29 Endrin ketone							
1	11.334	11.333	0.001	6578132	5.00	5.38	
2	12.774	12.773	0.001	6574509	5.00	5.35	
						RPD = 0.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.938	0.002	5434719	5.00	5.80	
2	14.492	14.493	-0.001	5979986	5.00	5.87	
						RPD = 1.21	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

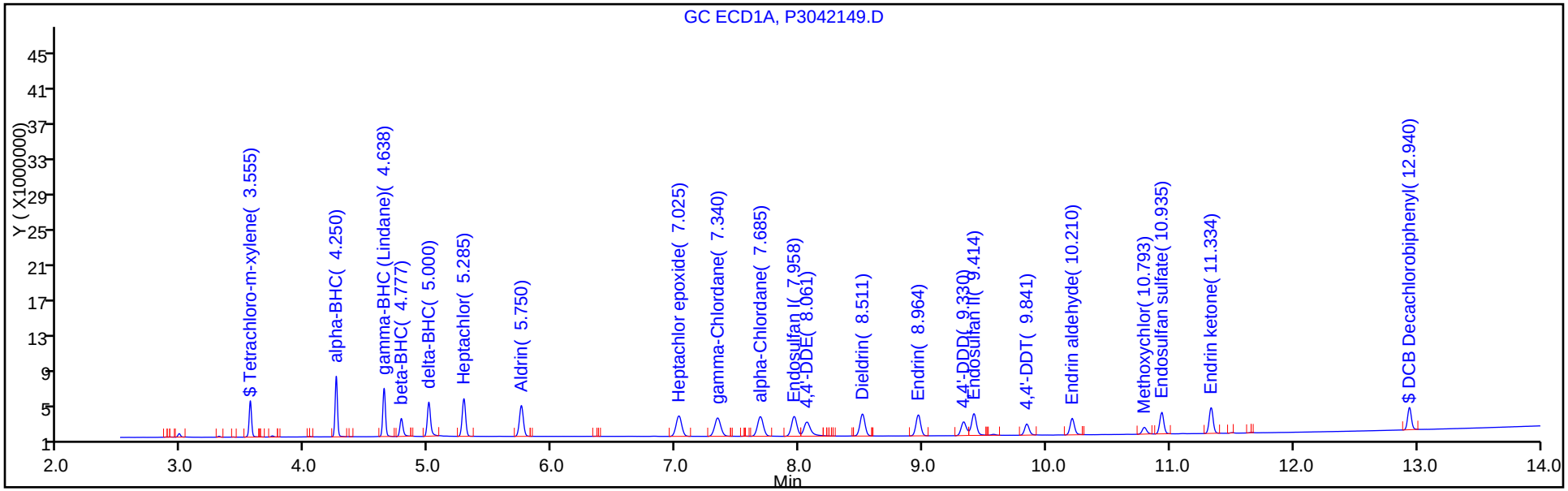
Report Date: 22-Apr-2015 08:58:28 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

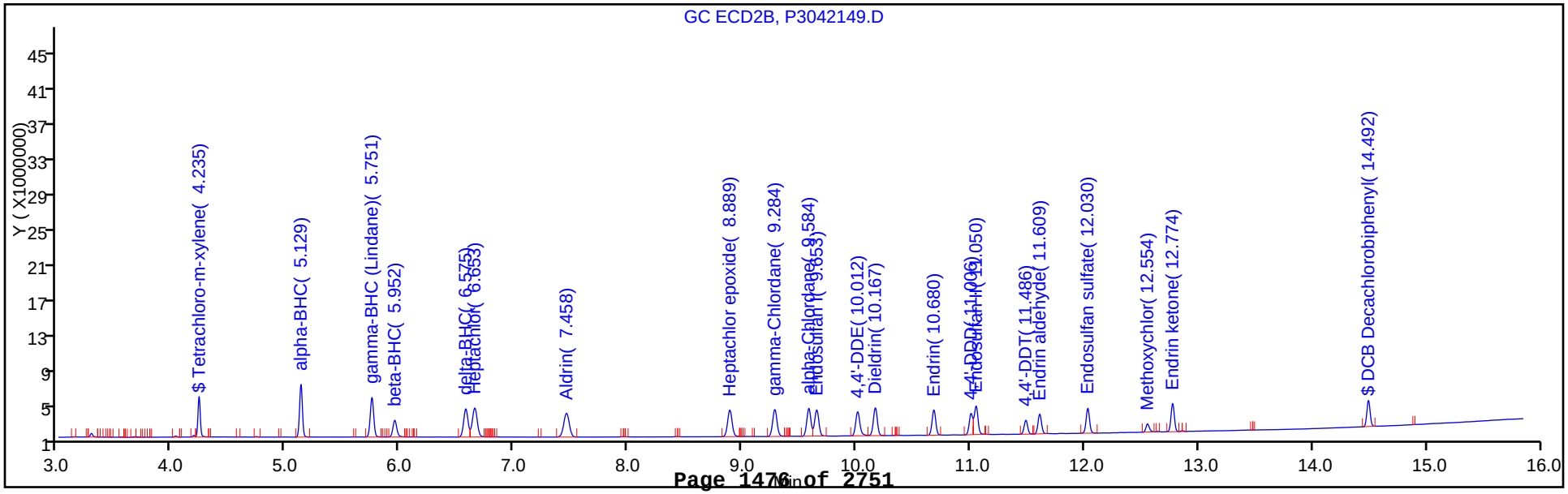
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042149.D

Injection Date:	22-Apr-2015 07:12:11	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177463/17

Matrix: Solid Lab File ID: P3042217.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 20:53

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177463 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	152		2.0	1.0	0.20

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 20:53:46 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-017
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:30:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555					ND	
2	4.234						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.251					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.639					ND	
2	5.751						
6 beta-BHC							
1	4.779					ND	
2	5.950						
7 delta-BHC							
1	5.001					ND	
2	6.574						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1		5.284				ND	
2		6.653					
10 Aldrin							
1		5.750				ND	
2		7.457					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.025				ND	
2		8.889					
13 gamma-Chlordane							
1		7.339				ND	
2		9.283					
14 alpha-Chlordane							
1		7.684				ND	
2		9.583					
15 Endosulfan I							
1		7.958				ND	
2		9.652					
16 4,4'-DDE							
1		8.065				ND	
2		10.012					
17 Dieldrin							
1		8.513				ND	
2		10.167					
18 Endrin							
1		8.965				ND	
2		10.681					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.332				ND	
2		11.005					
21 Endosulfan II							
1		9.415				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.623	9.625	-0.002	6436088	200.0	170.1	M
1	10.090	10.083	0.007	6297418	200.0	171.9	M
1	10.398	10.397	0.001	3409376	200.0	146.0	M
1	10.740	10.738	0.002	5519907	200.0	166.4	M
1	10.845	10.846	-0.001	3434830	200.0	106.2	M
		Average of Peak Amounts =				152.1	
2	11.025	11.024	0.001	9811028	200.0	189.3	M
2	11.194	11.195	-0.001	9634406	200.0	189.0	M
2	11.620	11.618	0.002	6484083	200.0	181.9	M
2	12.355	12.353	0.002	7074487	200.0	155.0	M
2	12.442	12.443	-0.001	2557926	200.0	164.3	M
		Average of Peak Amounts =				175.9	
						RPD = 14.52	
23 4,4'-DDT							
1		9.844				ND	
2		11.487					
25 Endrin aldehyde							
1		10.210				ND	
2		11.608					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.795				ND	
2		12.554					
28 Endosulfan sulfate							
1		10.935				ND	
2		12.030					
29 Endrin ketone							
1		11.336				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.940				ND	
2		14.492					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

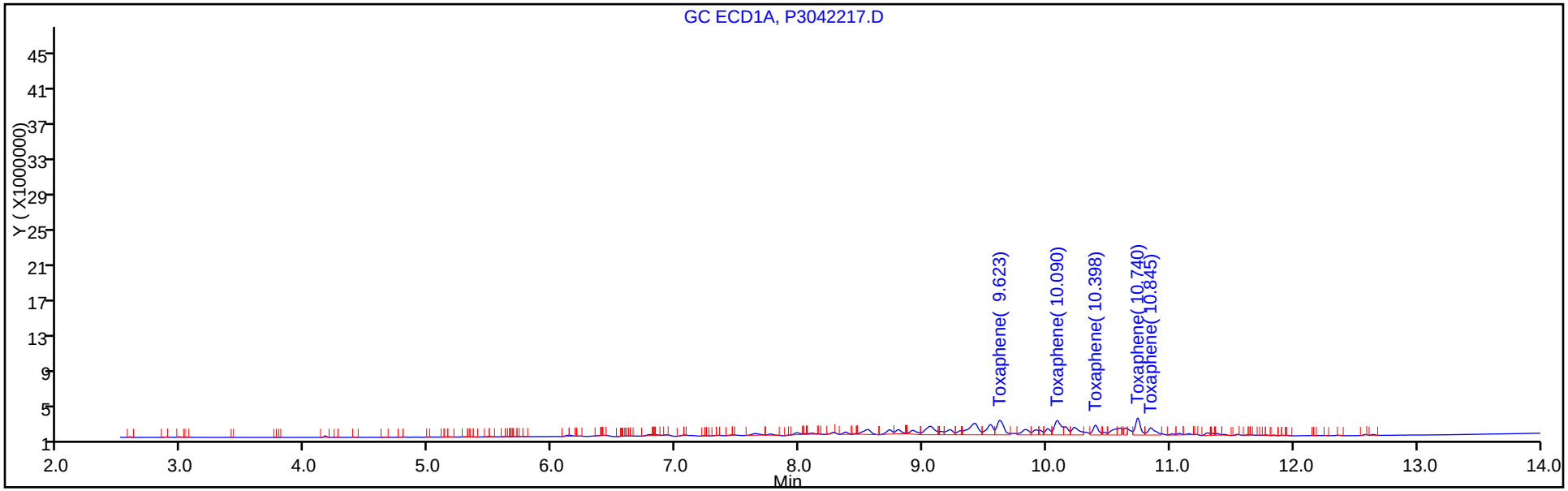
Report Date: 23-Apr-2015 07:42:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

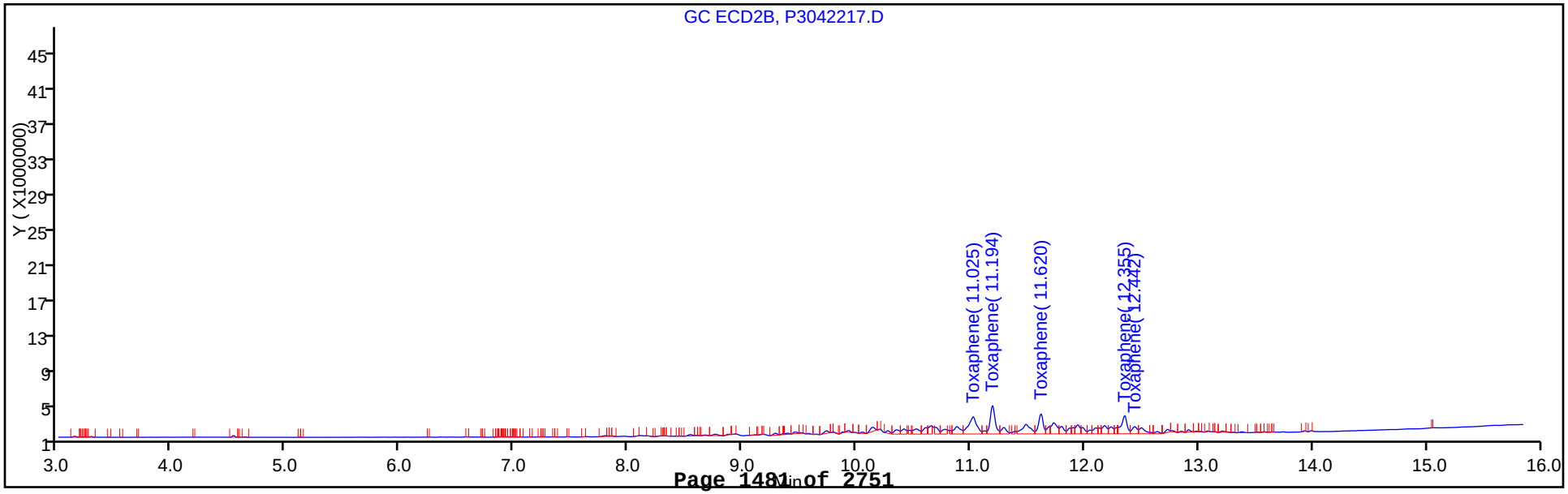
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D

Injection Date:	22-Apr-2015 20:53:46	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 07:42:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D

Injection Date: 22-Apr-2015 20:53:46 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

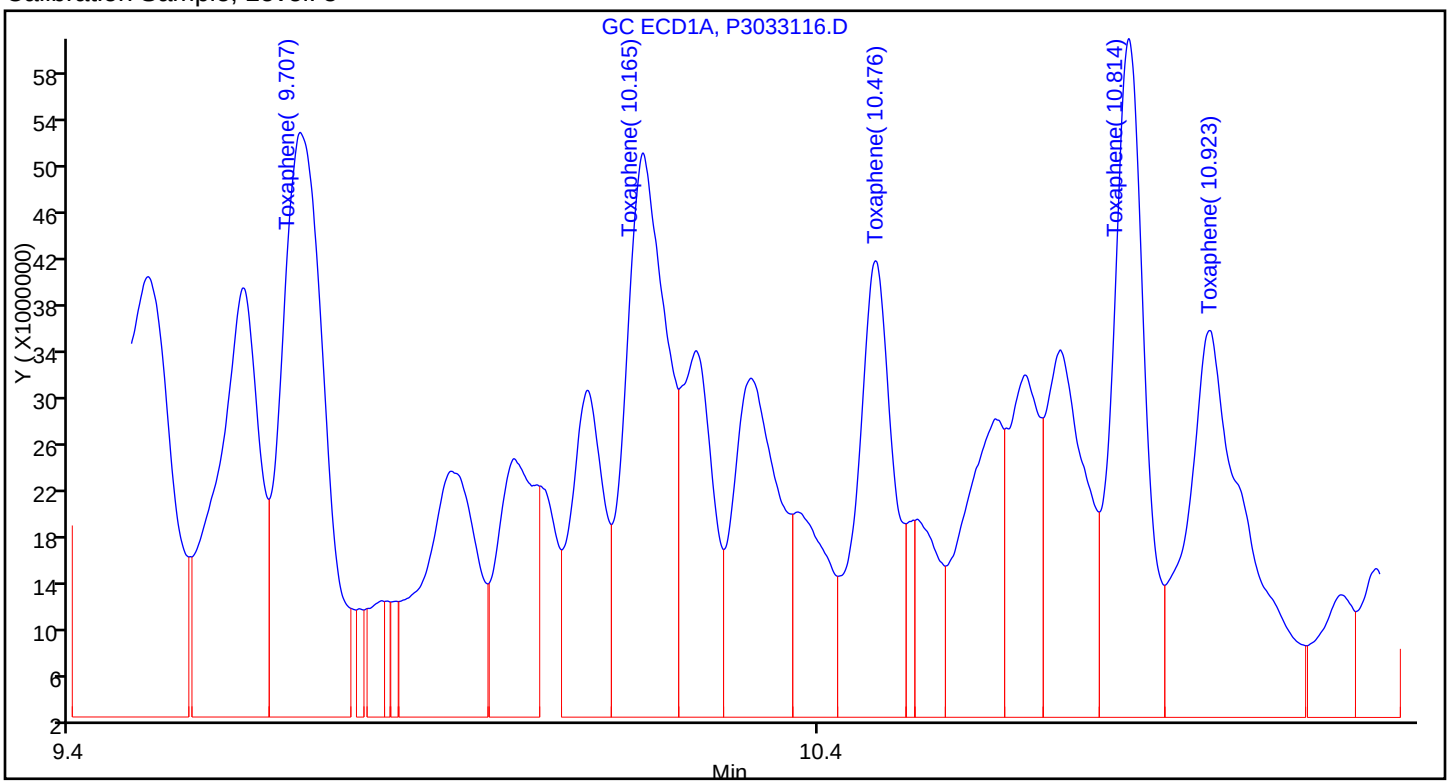
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

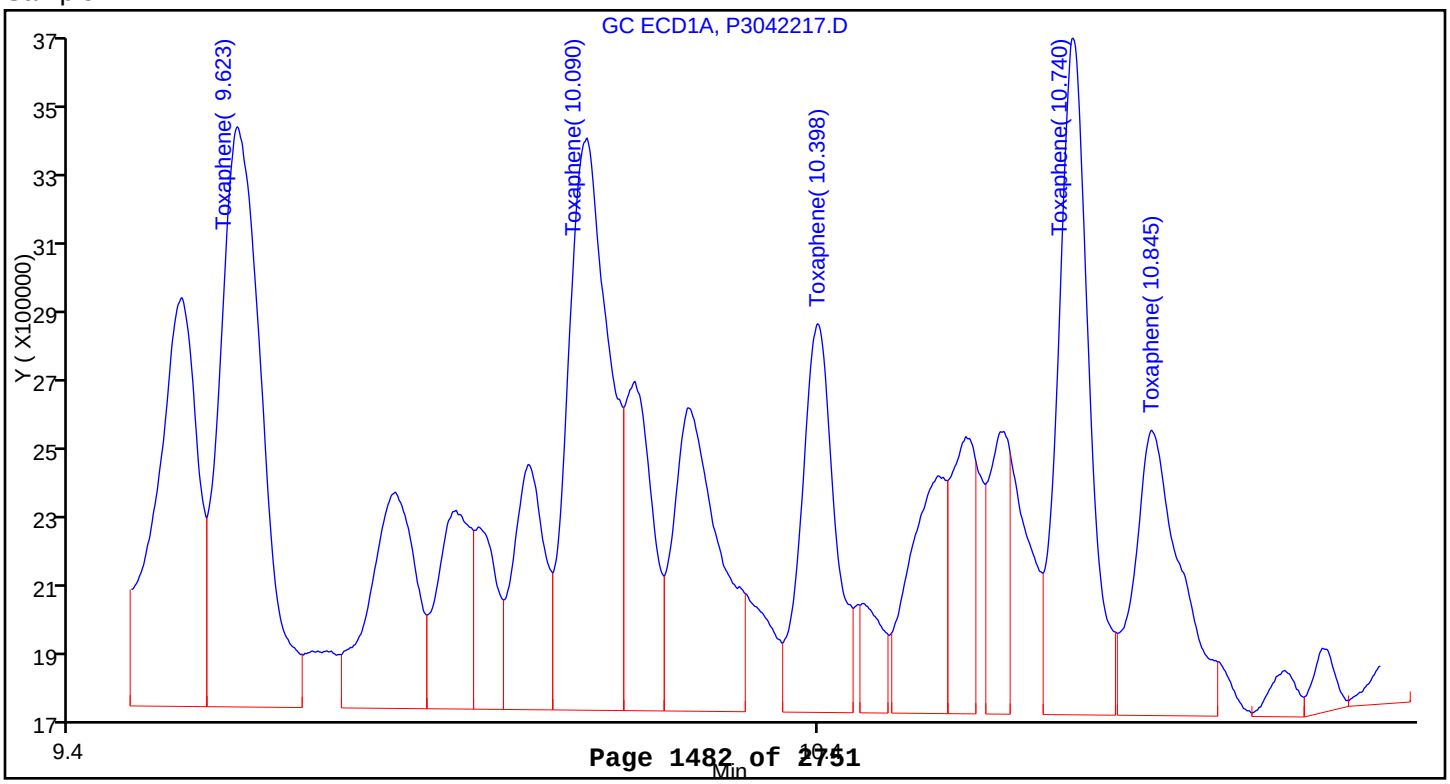
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 23-Apr-2015 07:42:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D

Injection Date: 22-Apr-2015 20:53:46 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

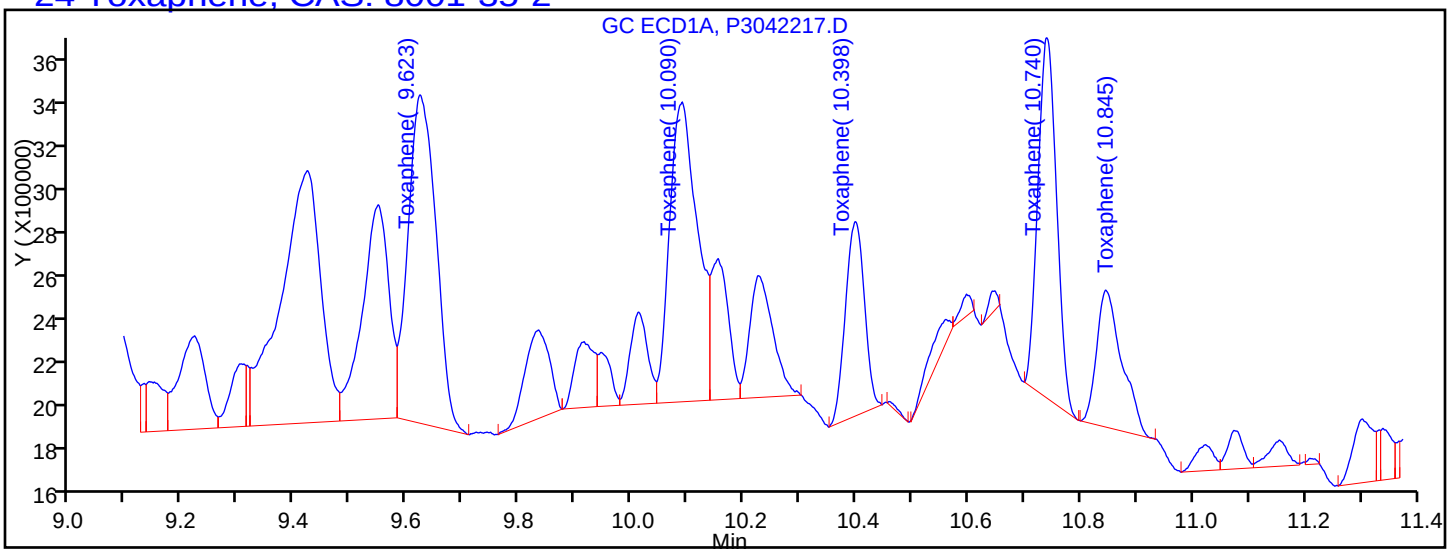
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

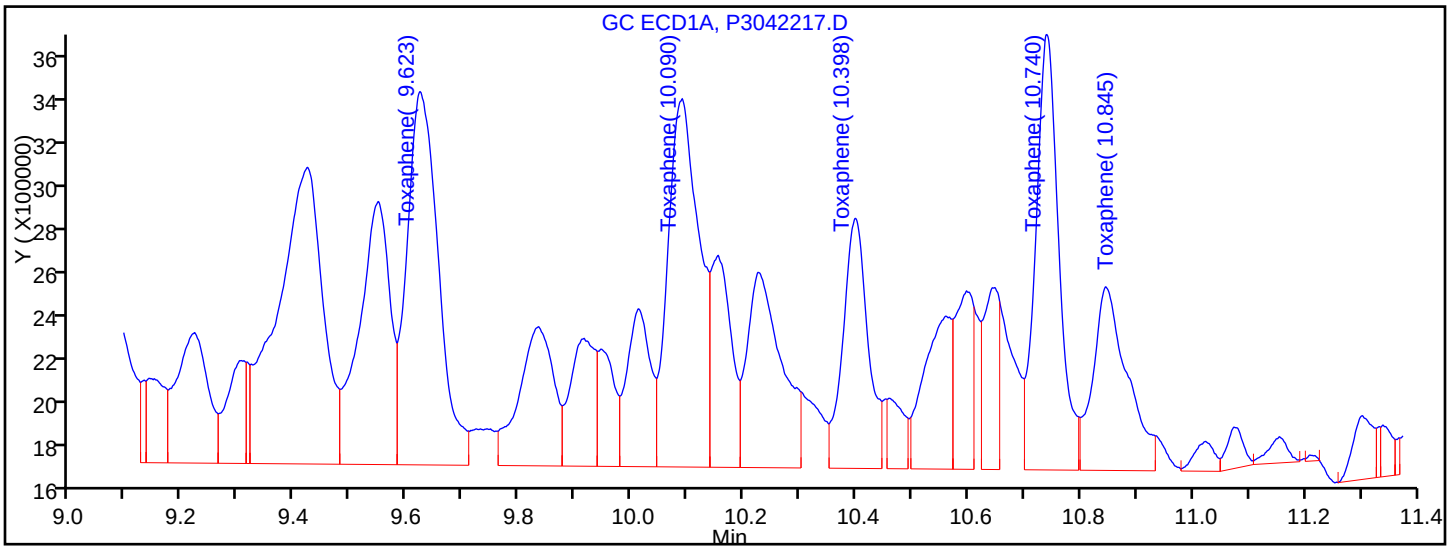
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.623	Response = 5022991	M
RT = 10.090	Response = 4578204	M
RT = 10.398	Response = 2024284	M
RT = 10.740	Response = 3686735	M
RT = 10.845	Response = 1883719	M



Manual Integration Results

RT = 9.623	Response = 6436088	M
RT = 10.090	Response = 6297418	M
RT = 10.398	Response = 3409376	M
RT = 10.740	Response = 5519907	M
RT = 10.845	Response = 3434830	M

Reviewer: matthewsb, 23-Apr-2015 07:30:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177463/17

Matrix: Solid Lab File ID: P3042217.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 20:53

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177463 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*176*		*2.0*	1.0	*0.20*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 20:53:46 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-017
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:30:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555					ND	
2	4.234						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.251					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.639					ND	
2	5.751						
6 beta-BHC							
1	4.779					ND	
2	5.950						
7 delta-BHC							
1	5.001					ND	
2	6.574						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1		5.284				ND	
2		6.653					
10 Aldrin							
1		5.750				ND	
2		7.457					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.025				ND	
2		8.889					
13 gamma-Chlordane							
1		7.339				ND	
2		9.283					
14 alpha-Chlordane							
1		7.684				ND	
2		9.583					
15 Endosulfan I							
1		7.958				ND	
2		9.652					
16 4,4'-DDE							
1		8.065				ND	
2		10.012					
17 Dieldrin							
1		8.513				ND	
2		10.167					
18 Endrin							
1		8.965				ND	
2		10.681					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.332				ND	
2		11.005					
21 Endosulfan II							
1		9.415				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.623	9.625	-0.002	6436088	200.0	170.1	M
1	10.090	10.083	0.007	6297418	200.0	171.9	M
1	10.398	10.397	0.001	3409376	200.0	146.0	M
1	10.740	10.738	0.002	5519907	200.0	166.4	M
1	10.845	10.846	-0.001	3434830	200.0	106.2	M
		Average of Peak Amounts =				152.1	
2	11.025	11.024	0.001	9811028	200.0	189.3	M
2	11.194	11.195	-0.001	9634406	200.0	189.0	M
2	11.620	11.618	0.002	6484083	200.0	181.9	M
2	12.355	12.353	0.002	7074487	200.0	155.0	M
2	12.442	12.443	-0.001	2557926	200.0	164.3	M
		Average of Peak Amounts =				175.9	
						RPD = 14.52	
23 4,4'-DDT							
1		9.844				ND	
2		11.487					
25 Endrin aldehyde							
1		10.210				ND	
2		11.608					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.795				ND	
2		12.554					
28 Endosulfan sulfate							
1		10.935				ND	
2		12.030					
29 Endrin ketone							
1		11.336				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.940				ND	
2		14.492					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

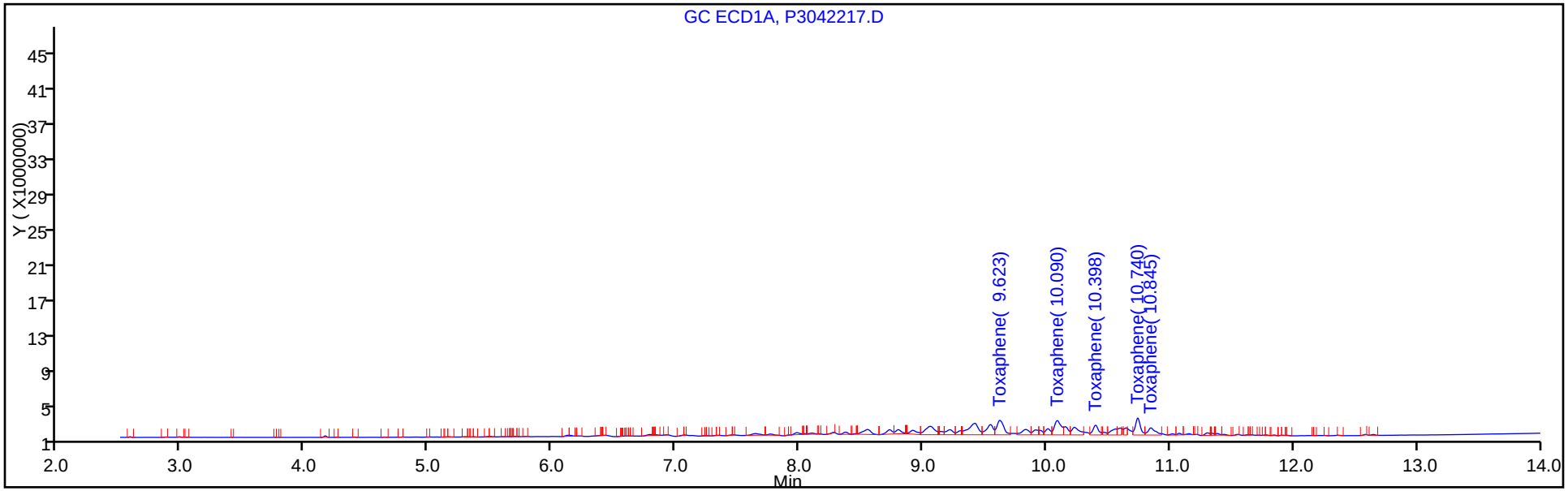
Report Date: 23-Apr-2015 07:42:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

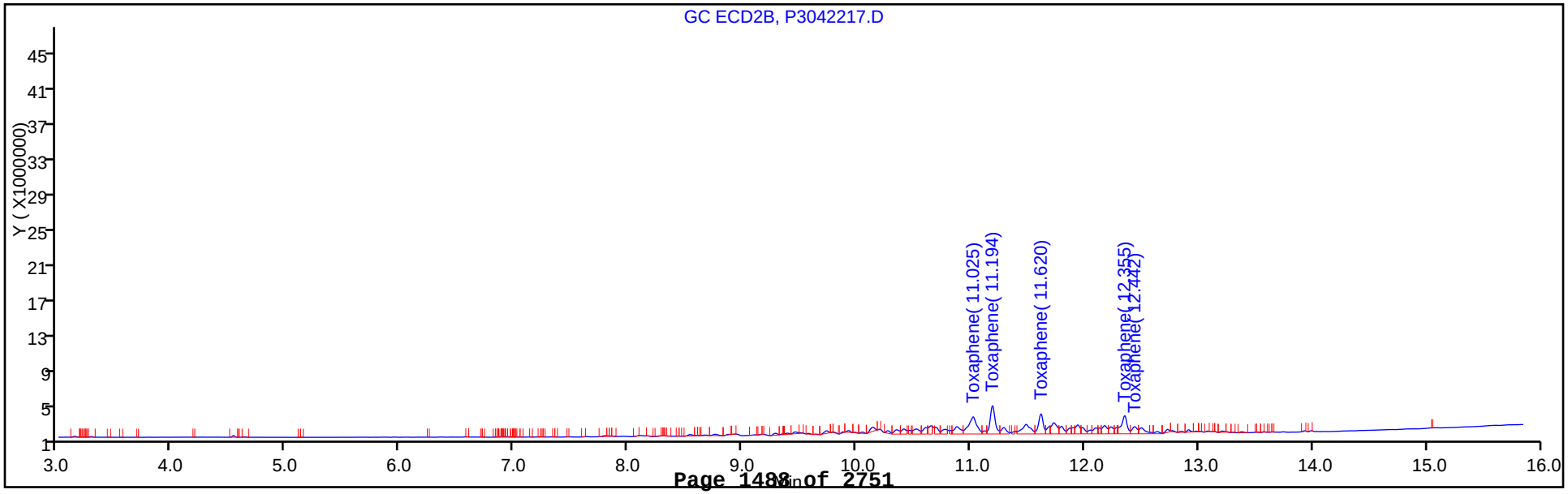
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D

Injection Date:	22-Apr-2015 20:53:46	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 07:42:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D

Injection Date: 22-Apr-2015 20:53:46 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

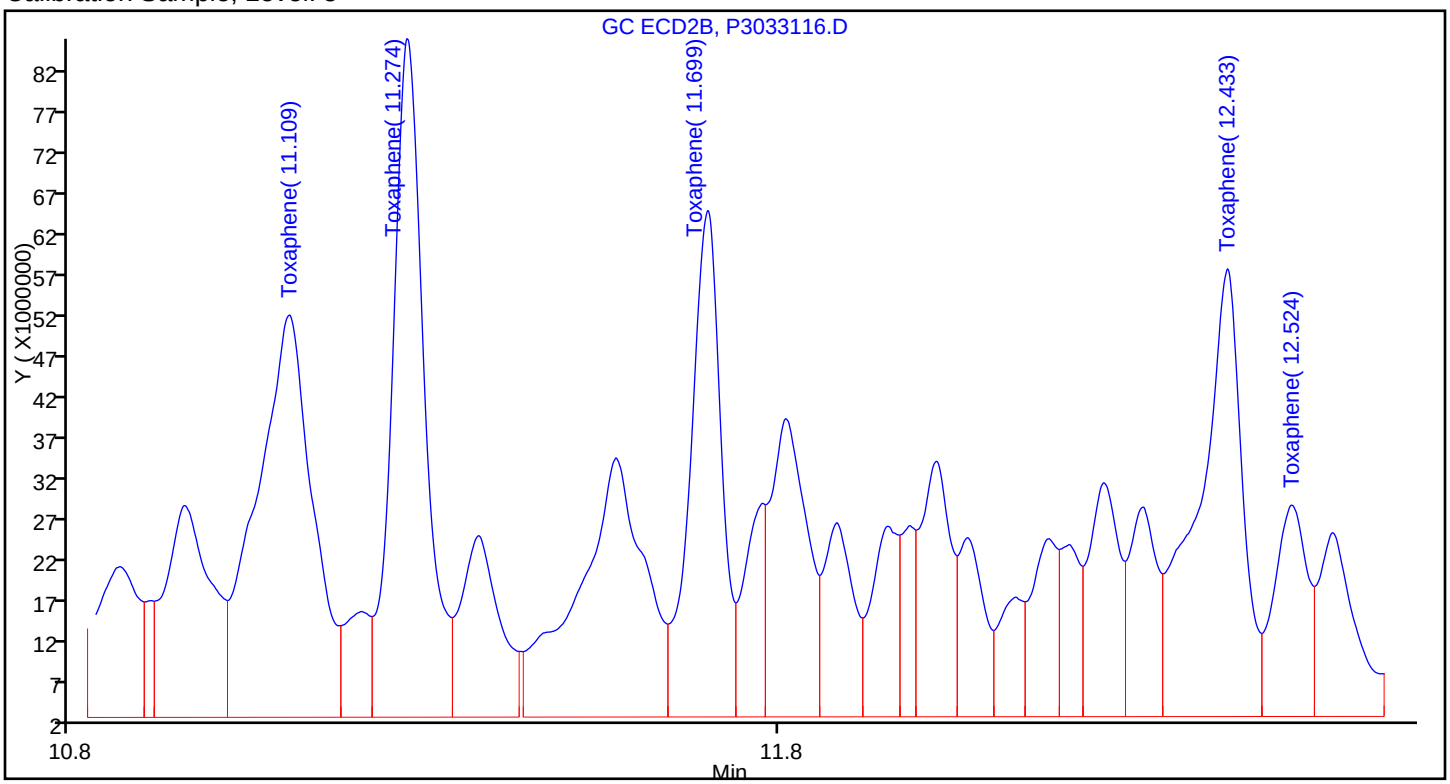
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

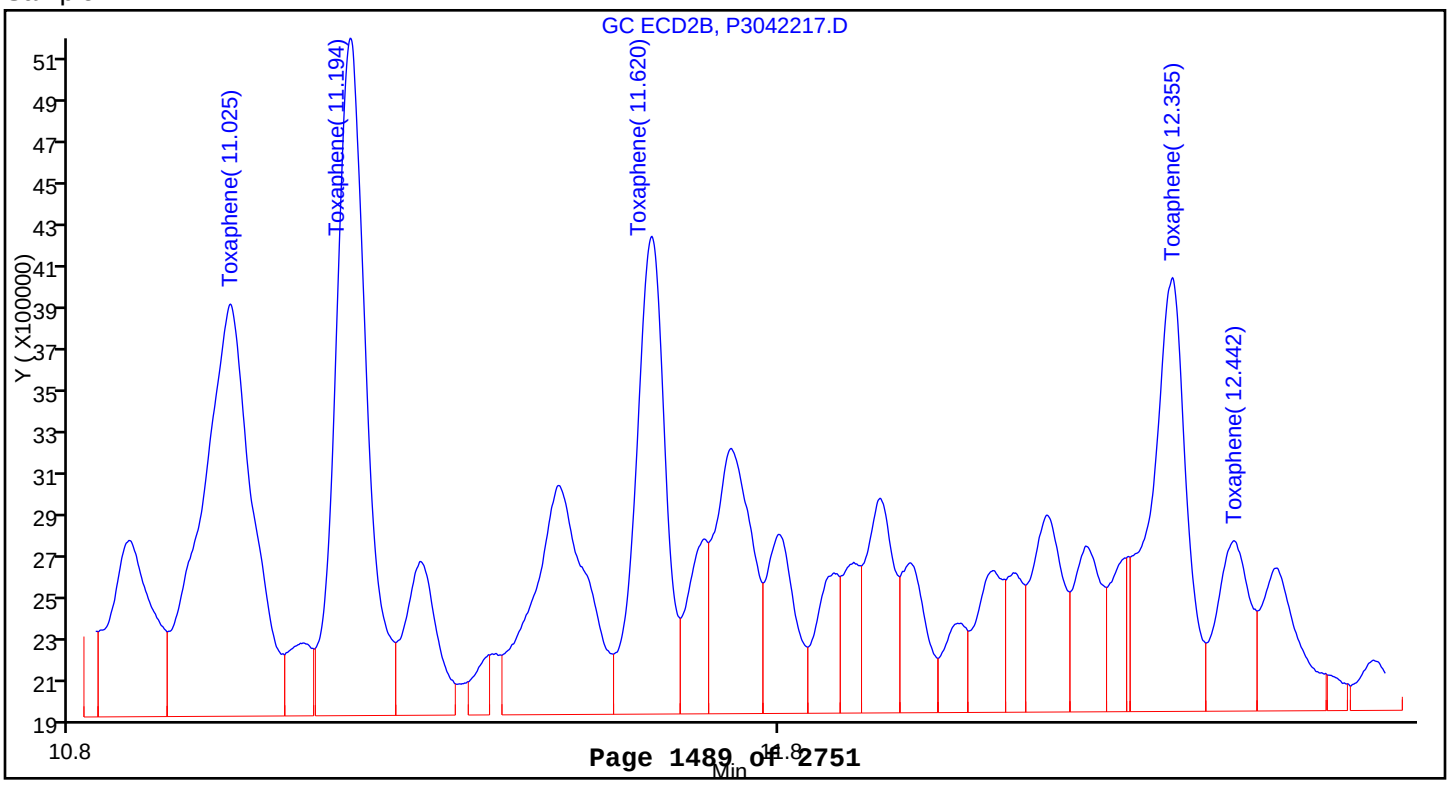
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 23-Apr-2015 07:42:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042217.D

Injection Date: 22-Apr-2015 20:53:46 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

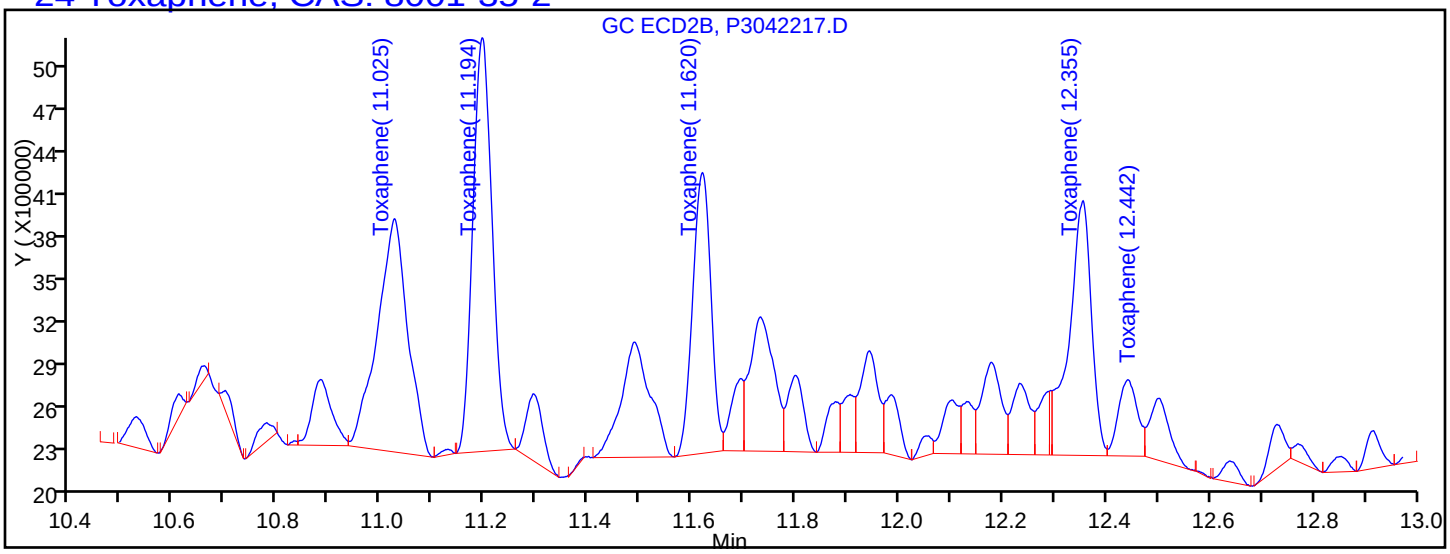
Operator ID: 430893 ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

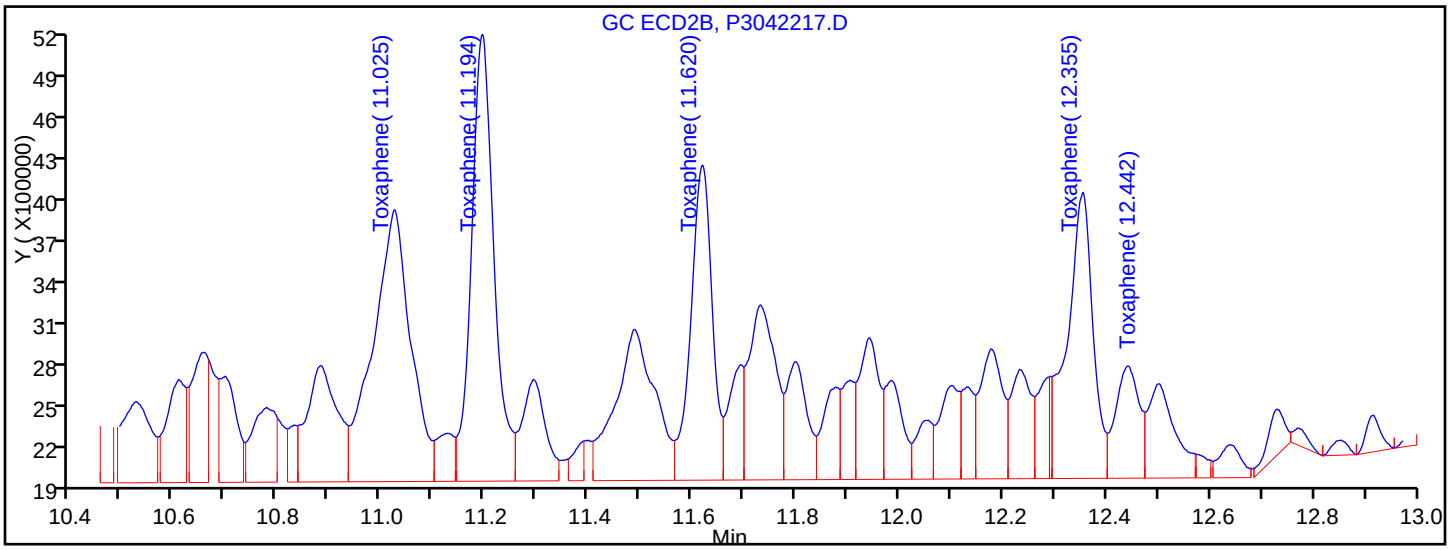
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.025	Response = 6538727	M
RT = 11.194	Response = 7402581	M
RT = 11.620	Response = 4770602	M
RT = 12.355	Response = 5284180	M
RT = 12.442	Response = 1366141	M



Manual Integration Results

RT = 11.025	Response = 9811028	M
RT = 11.194	Response = 9634406	M
RT = 11.620	Response = 6484083	M
RT = 12.355	Response = 7074487	M
RT = 12.442	Response = 2557926	M

Reviewer: matthewsb, 23-Apr-2015 07:30:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177463/18

Matrix: Solid | Lab File ID: P3042218.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 21:18

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177463 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	3.82		0.050	0.050	0.018
72-55-9	4,4'-DDE	4.48		0.050	0.050	0.0090
50-29-3	4,4'-DDT	3.60		0.050	0.050	0.014
309-00-2	Aldrin	5.08		0.050	0.050	0.013
319-84-6	alpha-BHC	4.93		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	5.13		0.050	0.050	0.012
319-85-7	beta-BHC	5.49		0.050	0.050	0.013
319-86-8	delta-BHC	4.34		0.050	0.050	0.029
60-57-1	Dieldrin	5.01		0.050	0.050	0.013
959-98-8	Endosulfan I	5.27		0.050	0.050	0.016
33213-65-9	Endosulfan II	6.00		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	5.49		0.050	0.050	0.011
72-20-8	Endrin	5.07		0.050	0.050	0.012
7421-93-4	Endrin aldehyde	4.94		0.050	0.050	0.0080
53494-70-5	Endrin ketone	5.28		0.050	0.050	0.0090
58-89-9	gamma-BHC (Lindane)	4.99		0.050	0.050	0.012
5103-74-2	gamma-Chlordane	5.04		0.050	0.050	0.010
76-44-8	Heptachlor	5.36		0.050	0.050	0.0050
1024-57-3	Heptachlor epoxide	5.37		0.050	0.050	0.014
72-43-5	Methoxychlor	4.76		0.10	0.050	0.012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	114		50-150
877-09-8	Tetrachloro-m-xylene	108		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042218.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 21:18:23 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-018
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.555	0.004	5289714	5.00	5.38	
2	4.234	4.234	0.000	6362225	5.00	5.65	
						RPD = 4.84	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.254	4.251	0.003	8532970	5.00	4.93	
2	5.128	5.128	0.000	9861183	5.00	5.04	
						RPD = 2.22	
5 gamma-BHC (Lindane)							
1	4.642	4.639	0.003	7696131	5.00	4.99	
2	5.750	5.751	-0.001	9060915	5.00	5.12	
						RPD = 2.68	
6 beta-BHC							
1	4.783	4.779	0.004	3460320	5.00	5.49	
2	5.951	5.950	0.001	4248175	5.00	5.53	
						RPD = 0.63	
7 delta-BHC							
1	5.005	5.001	0.004	6529177	5.00	4.34	
2	6.574	6.574	0.000	7749958	5.00	4.37	
						RPD = 0.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1	5.289	5.284	0.005	7822514	5.00	5.36	
2	6.652	6.653	-0.001	9772134	5.00	5.78	
						RPD = 7.54	
10 Aldrin							
1	5.754	5.750	0.004	7427320	5.00	5.08	
2	7.457	7.457	0.000	8811499	5.00	5.27	
						RPD = 3.65	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.029	7.025	0.004	6996921	5.00	5.37	
2	8.889	8.889	0.000	7977194	5.00	5.56	
						RPD = 3.50	
13 gamma-Chlordane							
1	7.345	7.339	0.006	6811985	5.00	5.04	
2	9.284	9.283	0.001	7726183	5.00	5.25	
						RPD = 4.05	
14 alpha-Chlordane							
1	7.689	7.684	0.005	6858564	5.00	5.13	
2	9.583	9.583	0.000	7491611	5.00	5.27	
						RPD = 2.83	
15 Endosulfan I							
1	7.963	7.958	0.005	6474295	5.00	5.27	
2	9.650	9.652	-0.002	7252005	5.00	5.49	
						RPD = 3.96	
16 4,4'-DDE							
1	8.076	8.065	0.011	5305642	5.00	4.48	
2	10.012	10.012	0.000	6331743	5.00	4.80	
						RPD = 6.83	
17 Dieldrin							
1	8.516	8.513	0.003	6554503	5.00	5.01	
2	10.165	10.167	-0.002	7252594	5.00	5.30	
						RPD = 5.60	
18 Endrin							
1	8.969	8.965	0.004	5832890	5.00	5.07	
2	10.680	10.681	-0.001	6137593	5.00	5.09	
						RPD = 0.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.344	9.332	0.012	3321034	5.00	3.82	
2	11.008	11.005	0.003	3904370	5.00	3.99	
						RPD = 4.46	
21 Endosulfan II							
1	9.419	9.415	0.004	6946126	5.00	6.00	
2	11.049	11.050	-0.001	7417924	5.00	6.34	
						RPD = 5.49	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.625				ND	
1		10.083					
1		10.397					
1		10.738					
1		10.846					
2		11.024					
2		11.195					
2		11.618					
2		12.353					
2		12.443					
23 4,4'-DDT							
1	9.849	9.844	0.005	3436530	5.00	3.60	
2	11.487	11.487	0.000	3625190	5.00	3.63	
						RPD = 0.96	
25 Endrin aldehyde							
1	10.213	10.210	0.003	4399347	5.00	4.94	
2	11.607	11.608	-0.001	4622912	5.00	4.95	
						RPD = 0.24	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.802	10.795	0.007	2179415	5.00	4.76	
2	12.554	12.554	0.000	2051653	5.00	4.19	
						RPD = 12.56	
28 Endosulfan sulfate							
1	10.938	10.935	0.003	5468803	5.00	5.49	
2	12.029	12.030	-0.001	5637330	5.00	5.32	
						RPD = 3.09	
29 Endrin ketone							
1	11.337	11.336	0.001	6455773	5.00	5.28	
2	12.774	12.773	0.001	6419557	5.00	5.23	
						RPD = 1.04	

Report Date: 23-Apr-2015 07:42:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042218.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.943	12.940	0.003	5322038	5.00	5.68	
2	14.491	14.492	-0.001	5620744	5.00	5.52	
						RPD = 2.89	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

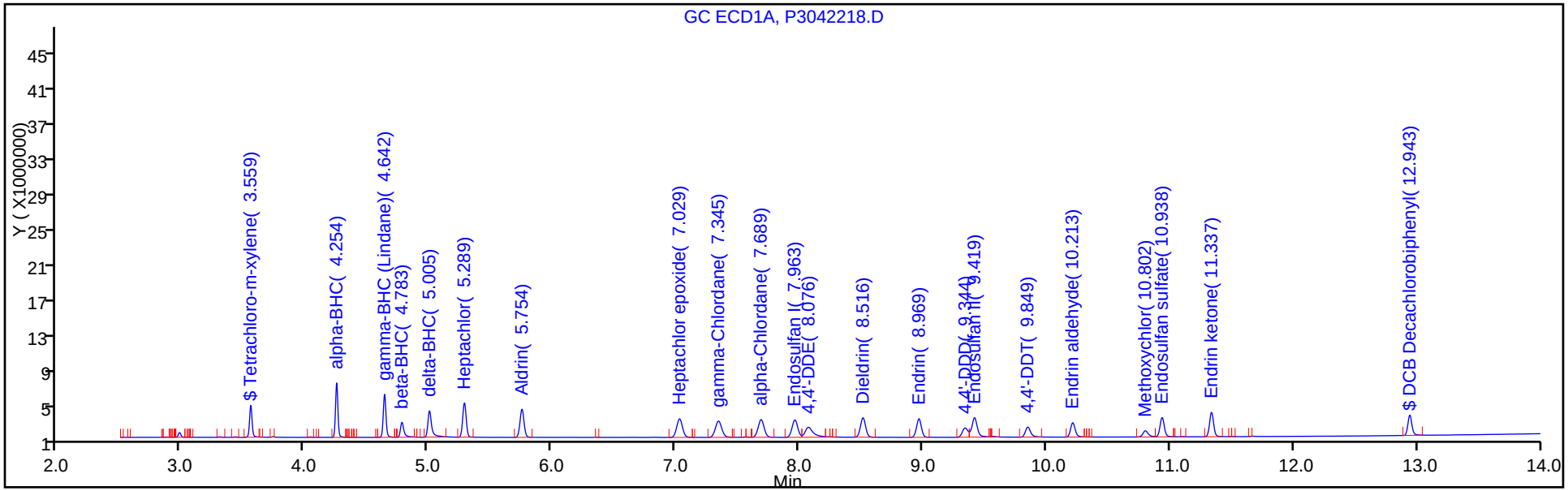
Report Date: 23-Apr-2015 07:42:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

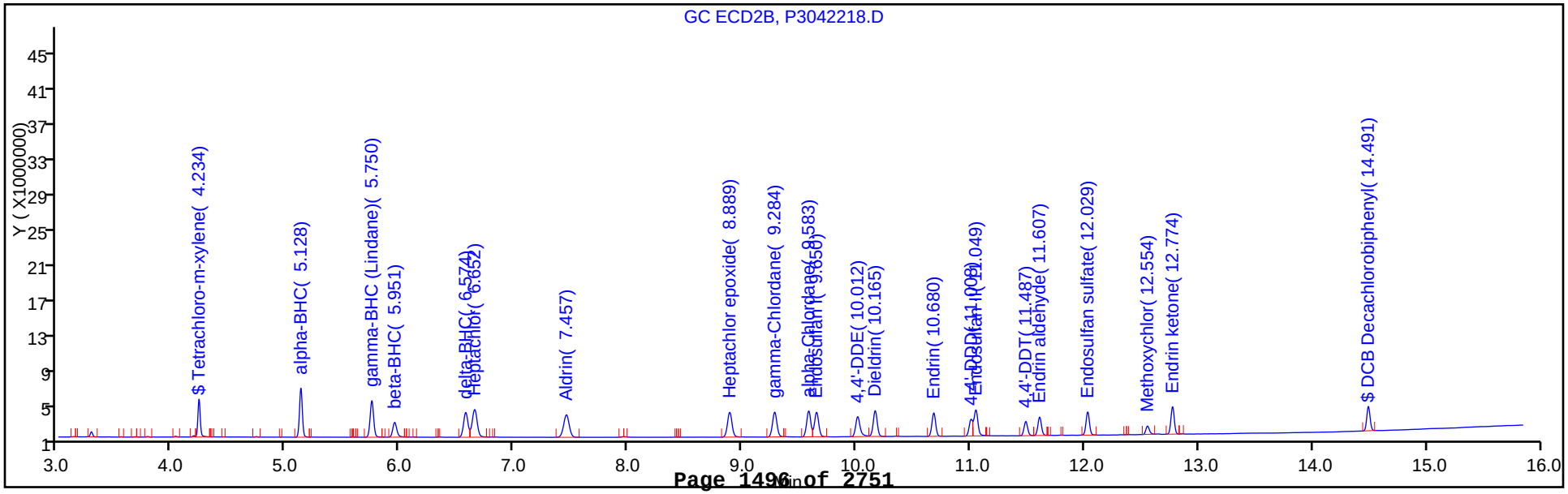
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042218.D

Injection Date:	22-Apr-2015 21:18:23	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177463/18

Matrix: Solid | Lab File ID: P3042218.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 21:18

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177463 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*3.99*		*0.050*	0.050	*0.018*
72-55-9	*4,4'-DDE*	*4.80*		*0.050*	0.050	*0.0090*
50-29-3	*4,4'-DDT*	*3.63*		*0.050*	0.050	*0.014*
309-00-2	*Aldrin*	*5.27*		*0.050*	0.050	*0.013*
319-84-6	*alpha-BHC*	*5.04*		*0.050*	0.050	*0.014*
5103-71-9	*alpha-Chlordane*	*5.27*		*0.050*	0.050	*0.012*
319-85-7	*beta-BHC*	*5.53*		*0.050*	0.050	*0.013*
319-86-8	*delta-BHC*	*4.37*		*0.050*	0.050	*0.029*
60-57-1	*Dieldrin*	*5.30*		*0.050*	0.050	*0.013*
959-98-8	*Endosulfan I*	*5.49*		*0.050*	0.050	*0.016*
33213-65-9	*Endosulfan II*	*6.34*		*0.050*	0.050	*0.015*
1031-07-8	*Endosulfan sulfate*	*5.32*		*0.050*	0.050	*0.011*
72-20-8	*Endrin*	*5.09*		*0.050*	0.050	*0.012*
7421-93-4	*Endrin aldehyde*	*4.95*		*0.050*	0.050	*0.0080*
53494-70-5	*Endrin ketone*	*5.23*		*0.050*	0.050	*0.0090*
58-89-9	*gamma-BHC (Lindane)*	*5.12*		*0.050*	0.050	*0.012*
5103-74-2	*gamma-Chlordane*	*5.25*		*0.050*	0.050	*0.010*
76-44-8	*Heptachlor*	*5.78*		*0.050*	0.050	*0.0050*
1024-57-3	*Heptachlor epoxide*	*5.56*		*0.050*	0.050	*0.014*
72-43-5	*Methoxychlor*	*4.19*		*0.10*	0.050	*0.012*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	110		50-150
877-09-8	Tetrachloro-m-xylene	113		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042218.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 21:18:23 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-018
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.559	3.555	0.004	5289714	5.00	5.38	
2	4.234	4.234	0.000	6362225	5.00	5.65	
						RPD = 4.84	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.254	4.251	0.003	8532970	5.00	4.93	
2	5.128	5.128	0.000	9861183	5.00	5.04	
						RPD = 2.22	
5 gamma-BHC (Lindane)							
1	4.642	4.639	0.003	7696131	5.00	4.99	
2	5.750	5.751	-0.001	9060915	5.00	5.12	
						RPD = 2.68	
6 beta-BHC							
1	4.783	4.779	0.004	3460320	5.00	5.49	
2	5.951	5.950	0.001	4248175	5.00	5.53	
						RPD = 0.63	
7 delta-BHC							
1	5.005	5.001	0.004	6529177	5.00	4.34	
2	6.574	6.574	0.000	7749958	5.00	4.37	
						RPD = 0.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1	5.289	5.284	0.005	7822514	5.00	5.36	
2	6.652	6.653	-0.001	9772134	5.00	5.78	
						RPD = 7.54	
10 Aldrin							
1	5.754	5.750	0.004	7427320	5.00	5.08	
2	7.457	7.457	0.000	8811499	5.00	5.27	
						RPD = 3.65	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.029	7.025	0.004	6996921	5.00	5.37	
2	8.889	8.889	0.000	7977194	5.00	5.56	
						RPD = 3.50	
13 gamma-Chlordane							
1	7.345	7.339	0.006	6811985	5.00	5.04	
2	9.284	9.283	0.001	7726183	5.00	5.25	
						RPD = 4.05	
14 alpha-Chlordane							
1	7.689	7.684	0.005	6858564	5.00	5.13	
2	9.583	9.583	0.000	7491611	5.00	5.27	
						RPD = 2.83	
15 Endosulfan I							
1	7.963	7.958	0.005	6474295	5.00	5.27	
2	9.650	9.652	-0.002	7252005	5.00	5.49	
						RPD = 3.96	
16 4,4'-DDE							
1	8.076	8.065	0.011	5305642	5.00	4.48	
2	10.012	10.012	0.000	6331743	5.00	4.80	
						RPD = 6.83	
17 Dieldrin							
1	8.516	8.513	0.003	6554503	5.00	5.01	
2	10.165	10.167	-0.002	7252594	5.00	5.30	
						RPD = 5.60	
18 Endrin							
1	8.969	8.965	0.004	5832890	5.00	5.07	
2	10.680	10.681	-0.001	6137593	5.00	5.09	
						RPD = 0.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.344	9.332	0.012	3321034	5.00	3.82	
2	11.008	11.005	0.003	3904370	5.00	3.99	
						RPD = 4.46	
21 Endosulfan II							
1	9.419	9.415	0.004	6946126	5.00	6.00	
2	11.049	11.050	-0.001	7417924	5.00	6.34	
						RPD = 5.49	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.625				ND	
1		10.083					
1		10.397					
1		10.738					
1		10.846					
2		11.024					
2		11.195					
2		11.618					
2		12.353					
2		12.443					
23 4,4'-DDT							
1	9.849	9.844	0.005	3436530	5.00	3.60	
2	11.487	11.487	0.000	3625190	5.00	3.63	
						RPD = 0.96	
25 Endrin aldehyde							
1	10.213	10.210	0.003	4399347	5.00	4.94	
2	11.607	11.608	-0.001	4622912	5.00	4.95	
						RPD = 0.24	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.802	10.795	0.007	2179415	5.00	4.76	
2	12.554	12.554	0.000	2051653	5.00	4.19	
						RPD = 12.56	
28 Endosulfan sulfate							
1	10.938	10.935	0.003	5468803	5.00	5.49	
2	12.029	12.030	-0.001	5637330	5.00	5.32	
						RPD = 3.09	
29 Endrin ketone							
1	11.337	11.336	0.001	6455773	5.00	5.28	
2	12.774	12.773	0.001	6419557	5.00	5.23	
						RPD = 1.04	

Report Date: 23-Apr-2015 07:42:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042218.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.943	12.940	0.003	5322038	5.00	5.68	
2	14.491	14.492	-0.001	5620744	5.00	5.52	
						RPD = 2.89	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

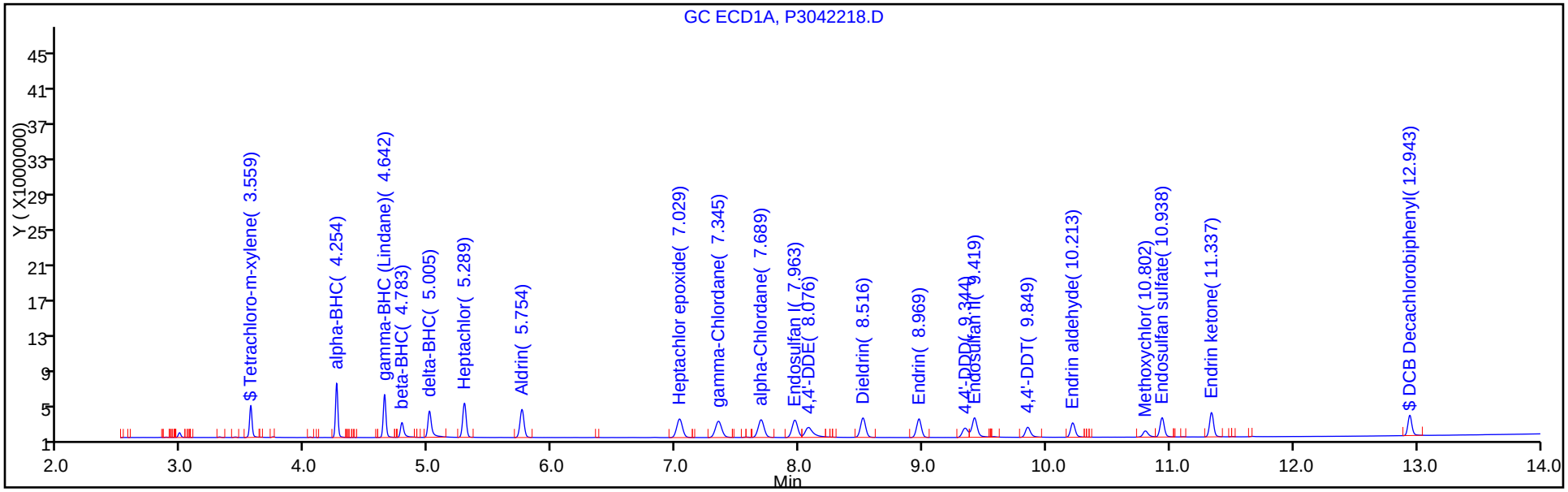
Report Date: 23-Apr-2015 07:42:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

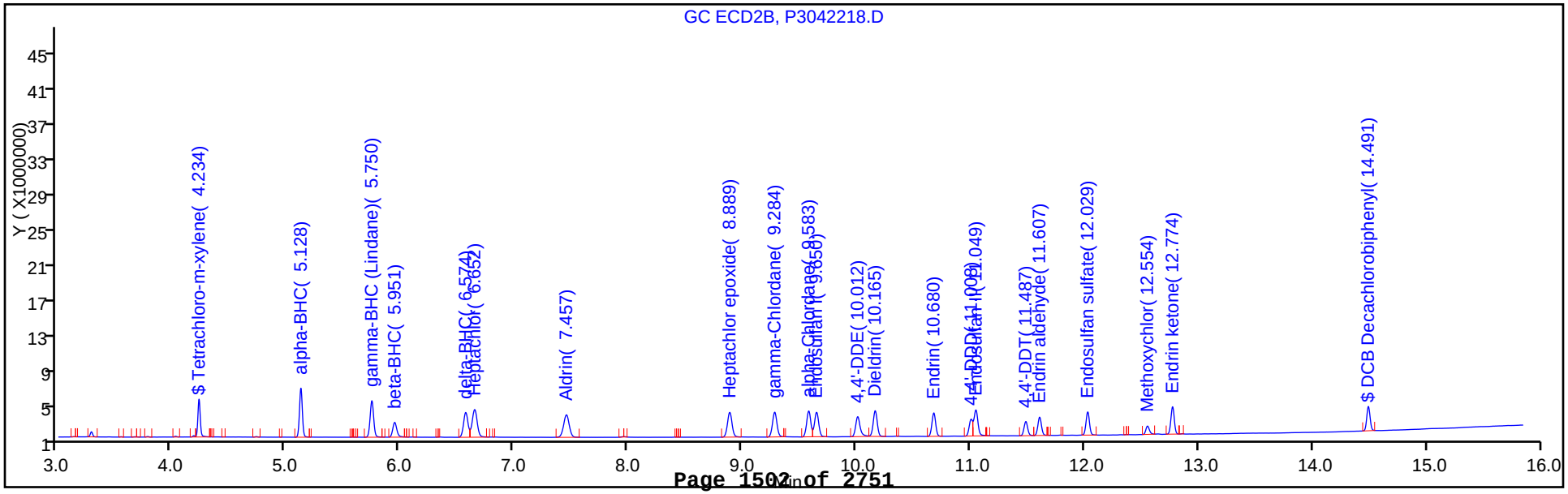
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042218.D

Injection Date:	22-Apr-2015 21:18:23	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177463/20

Matrix: Solid Lab File ID: P3042220.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 22:04

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177463 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	Toxaphene	157		2.0	1.0	0.20

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 22:04:29 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-020
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:38:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555					ND	
2	4.234						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.251					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.639					ND	
2	5.751						
6 beta-BHC							
1	4.779					ND	
2	5.950						
7 delta-BHC							
1	5.001					ND	
2	6.574						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1		5.284				ND	
2		6.653					
10 Aldrin							
1		5.750				ND	
2		7.457					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.025				ND	
2		8.889					
13 gamma-Chlordane							
1		7.339				ND	
2		9.283					
14 alpha-Chlordane							
1		7.684				ND	
2		9.583					
15 Endosulfan I							
1		7.958				ND	
2		9.652					
16 4,4'-DDE							
1		8.065				ND	
2		10.012					
17 Dieldrin							
1		8.513				ND	
2		10.167					
18 Endrin							
1		8.965				ND	
2		10.681					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.332				ND	
2		11.005					
21 Endosulfan II							
1		9.415				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.615	9.625	-0.010	6620421	200.0	175.0	M
1	10.081	10.083	-0.002	6530287	200.0	178.2	M
1	10.394	10.397	-0.003	3505426	200.0	150.1	M
1	10.736	10.738	-0.002	5639712	200.0	170.0	M
1	10.843	10.846	-0.003	3578920	200.0	110.7	M
		Average of Peak Amounts =				156.8	
2	11.023	11.024	-0.001	8855446	200.0	170.9	M
2	11.196	11.195	0.001	9004374	200.0	176.7	M
2	11.618	11.618	0.000	6377005	200.0	178.9	M
2	12.354	12.353	0.001	6633405	200.0	145.4	M
2	12.442	12.443	-0.001	2111828	200.0	135.6	M
		Average of Peak Amounts =				161.5	
						RPD = 2.95	
23 4,4'-DDT							
1		9.844				ND	
2		11.487					
25 Endrin aldehyde							
1		10.210				ND	
2		11.608					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.795				ND	
2		12.554					
28 Endosulfan sulfate							
1		10.935				ND	
2		12.030					
29 Endrin ketone							
1		11.336				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.940				ND	
2		14.492					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

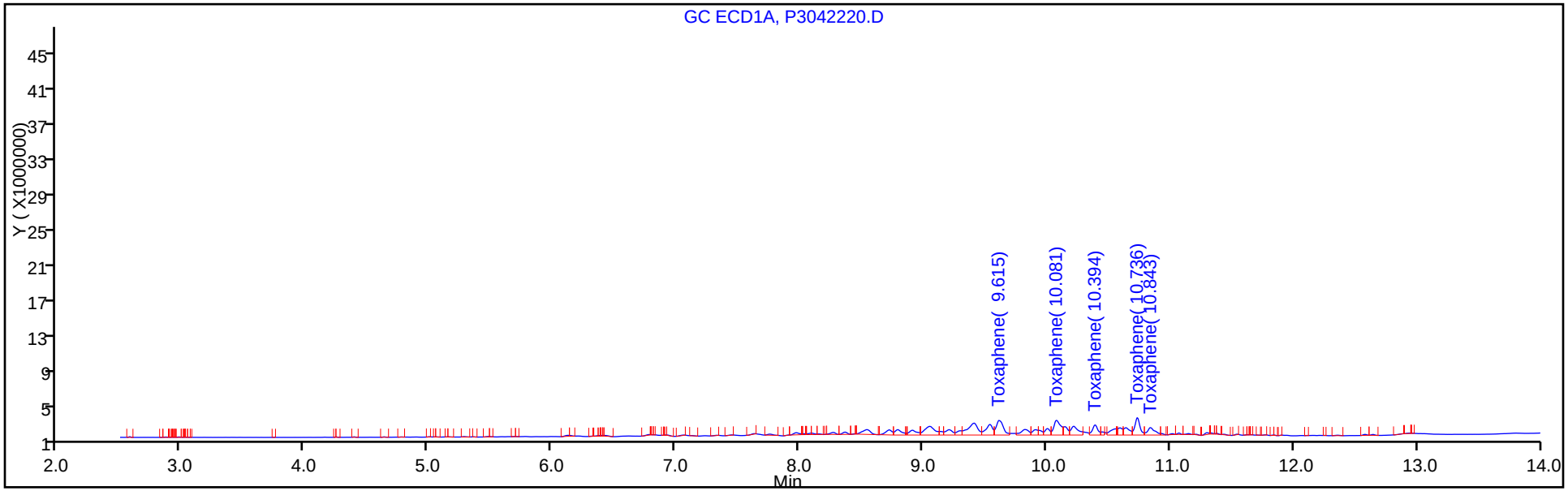
Report Date: 23-Apr-2015 07:42:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

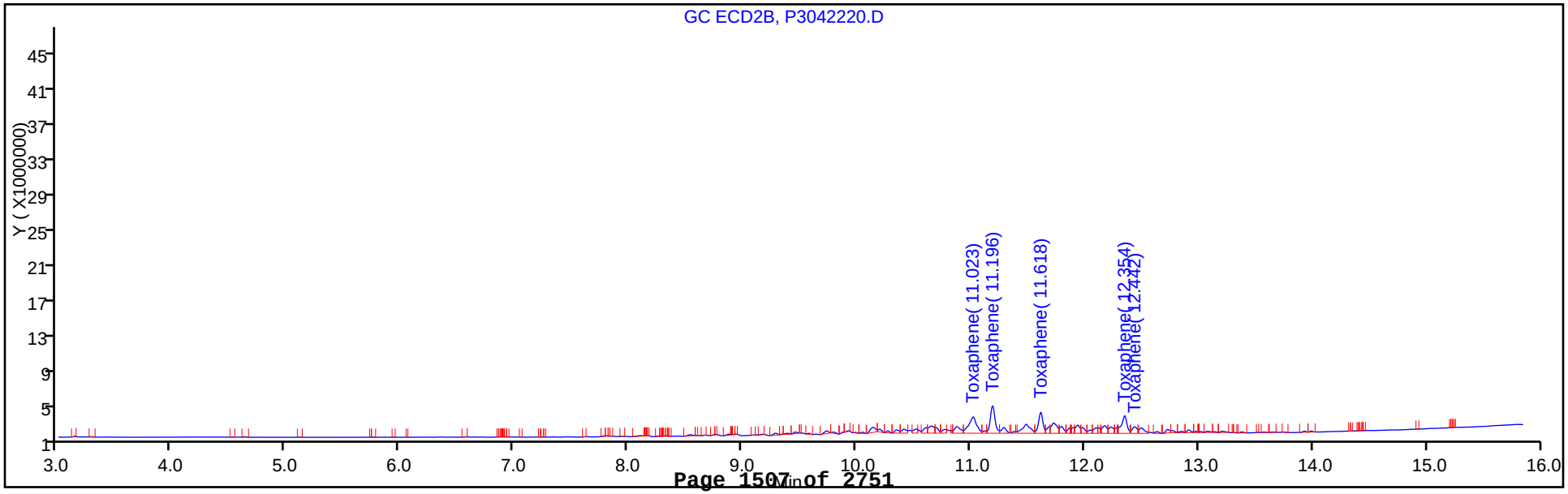
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D

Injection Date:	22-Apr-2015 22:04:29	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 07:42:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D

Injection Date: 22-Apr-2015 22:04:29 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 20 Worklist Smp#: 20

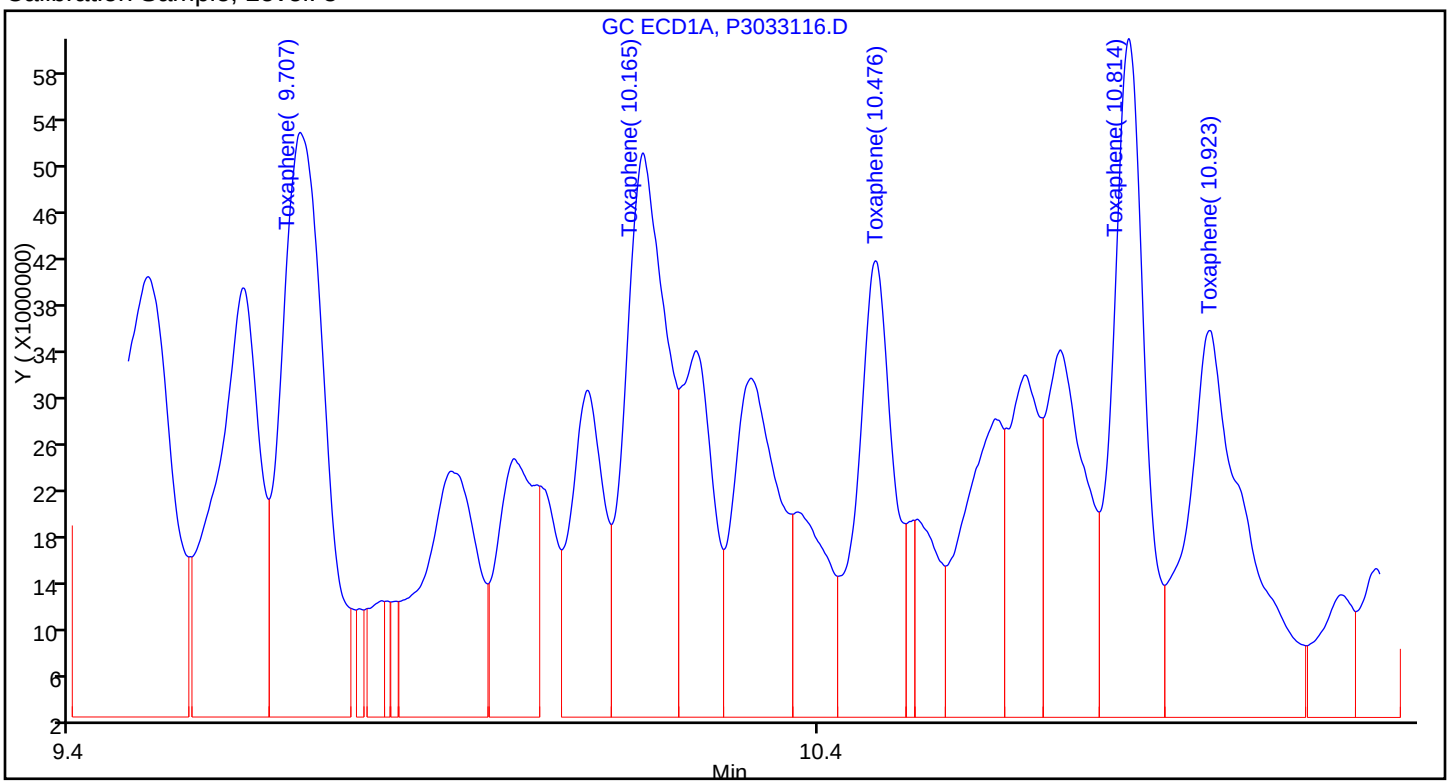
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

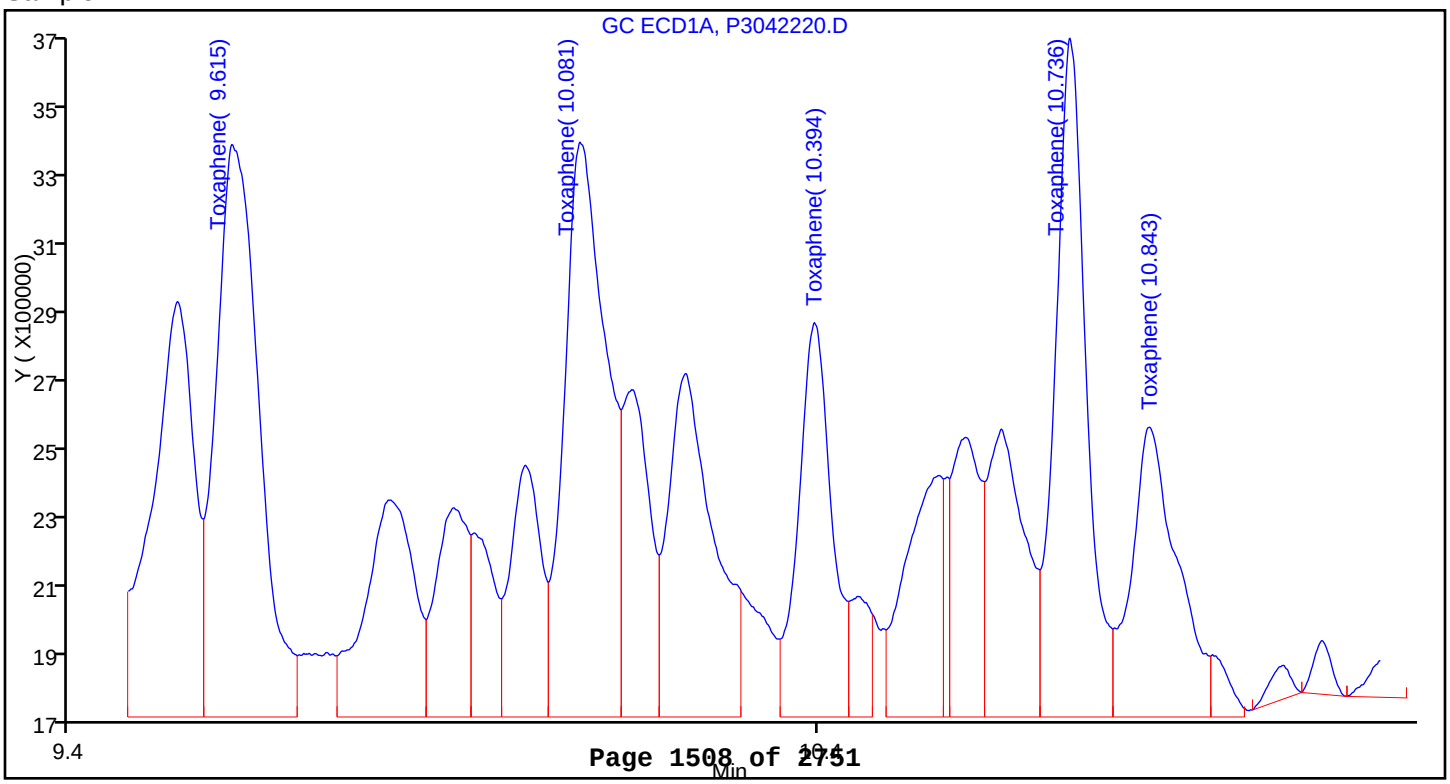
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 23-Apr-2015 07:42:48 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D

Injection Date: 22-Apr-2015 22:04:29 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

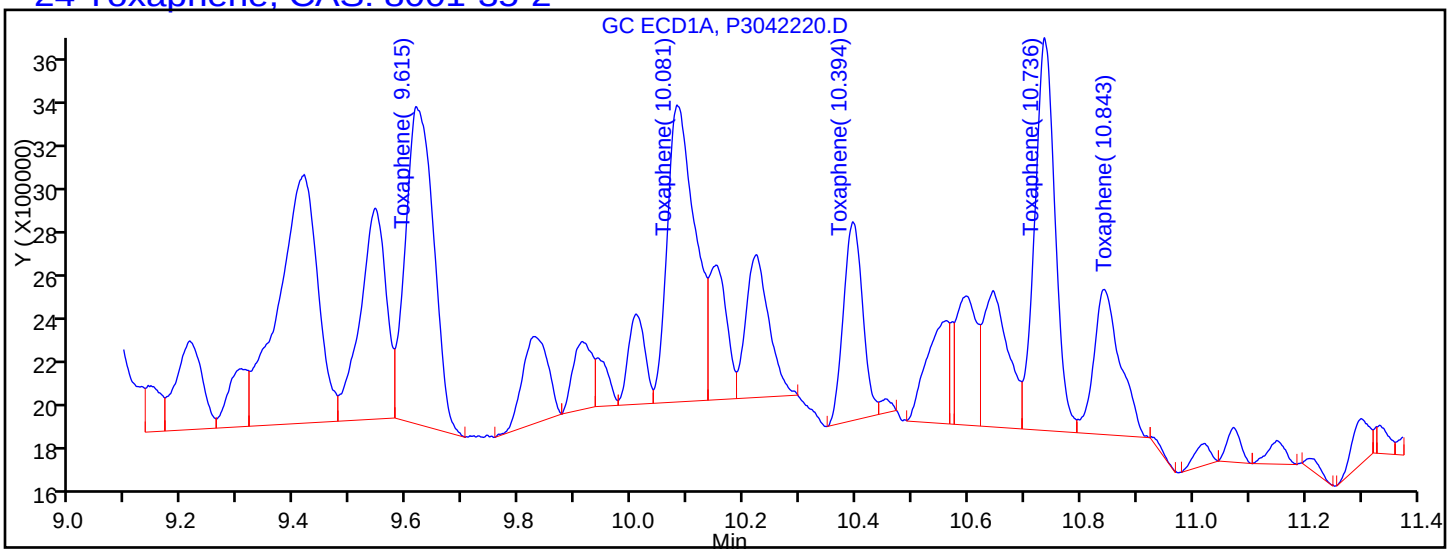
Operator ID: 430893 ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

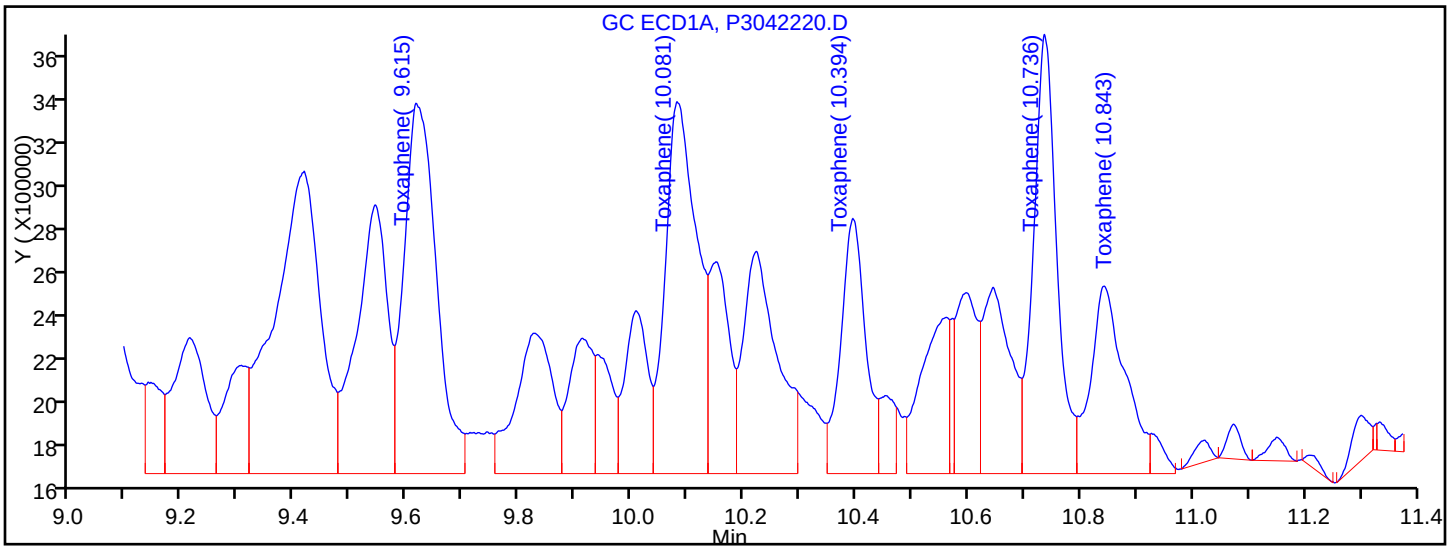
Column: Detector GC ECD1A

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 9.615	Response = 4974651	M
RT = 10.081	Response = 4572348	M
RT = 10.394	Response = 2122929	M
RT = 10.736	Response = 4438663	M
RT = 10.843	Response = 2120665	M



Manual Integration Results

RT = 9.615	Response = 6620421	M
RT = 10.081	Response = 6530287	M
RT = 10.394	Response = 3505426	M
RT = 10.736	Response = 5639712	M
RT = 10.843	Response = 3578920	M

Reviewer: matthewsb, 23-Apr-2015 07:38:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177463/20

Matrix: Solid Lab File ID: P3042220.D

Analysis Method: 8081A Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/22/2015 22:04

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177463 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
8001-35-2	*Toxaphene*	*161*		*2.0*	1.0	*0.20*

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D
Lims ID: MRL TOX
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 22:04:29 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-020
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

First Level Reviewer: matthewsb Date: 23-Apr-2015 07:38:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555					ND	
2	4.234						
3 Hexachlorobenzene							
1	4.030					ND	
2	4.880						
2 Diallate							
1	4.130					ND	
1	4.296						
2	4.833						
2	4.996						
4 alpha-BHC							
1	4.251					ND	
2	5.128						
5 gamma-BHC (Lindane)							
1	4.639					ND	
2	5.751						
6 beta-BHC							
1	4.779					ND	
2	5.950						
7 delta-BHC							
1	5.001					ND	
2	6.574						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1		5.284				ND	
2		6.653					
10 Aldrin							
1		5.750				ND	
2		7.457					
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1		7.025				ND	
2		8.889					
13 gamma-Chlordane							
1		7.339				ND	
2		9.283					
14 alpha-Chlordane							
1		7.684				ND	
2		9.583					
15 Endosulfan I							
1		7.958				ND	
2		9.652					
16 4,4'-DDE							
1		8.065				ND	
2		10.012					
17 Dieldrin							
1		8.513				ND	
2		10.167					
18 Endrin							
1		8.965				ND	
2		10.681					
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1		9.332				ND	
2		11.005					
21 Endosulfan II							
1		9.415				ND	
2		11.050					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							M
1	9.615	9.625	-0.010	6620421	200.0	175.0	M
1	10.081	10.083	-0.002	6530287	200.0	178.2	M
1	10.394	10.397	-0.003	3505426	200.0	150.1	M
1	10.736	10.738	-0.002	5639712	200.0	170.0	M
1	10.843	10.846	-0.003	3578920	200.0	110.7	M
		Average of Peak Amounts =				156.8	
2	11.023	11.024	-0.001	8855446	200.0	170.9	M
2	11.196	11.195	0.001	9004374	200.0	176.7	M
2	11.618	11.618	0.000	6377005	200.0	178.9	M
2	12.354	12.353	0.001	6633405	200.0	145.4	M
2	12.442	12.443	-0.001	2111828	200.0	135.6	M
		Average of Peak Amounts =				161.5	
						RPD = 2.95	
23 4,4'-DDT							
1		9.844				ND	
2		11.487					
25 Endrin aldehyde							
1		10.210				ND	
2		11.608					
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1		10.795				ND	
2		12.554					
28 Endosulfan sulfate							
1		10.935				ND	
2		12.030					
29 Endrin ketone							
1		11.336				ND	
2		12.773					
$ 30 DCB Decachlorobiphenyl							
1		12.940				ND	
2		14.492					

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Tox Ultra_00008 Amount Added: 20.00 Units: uL

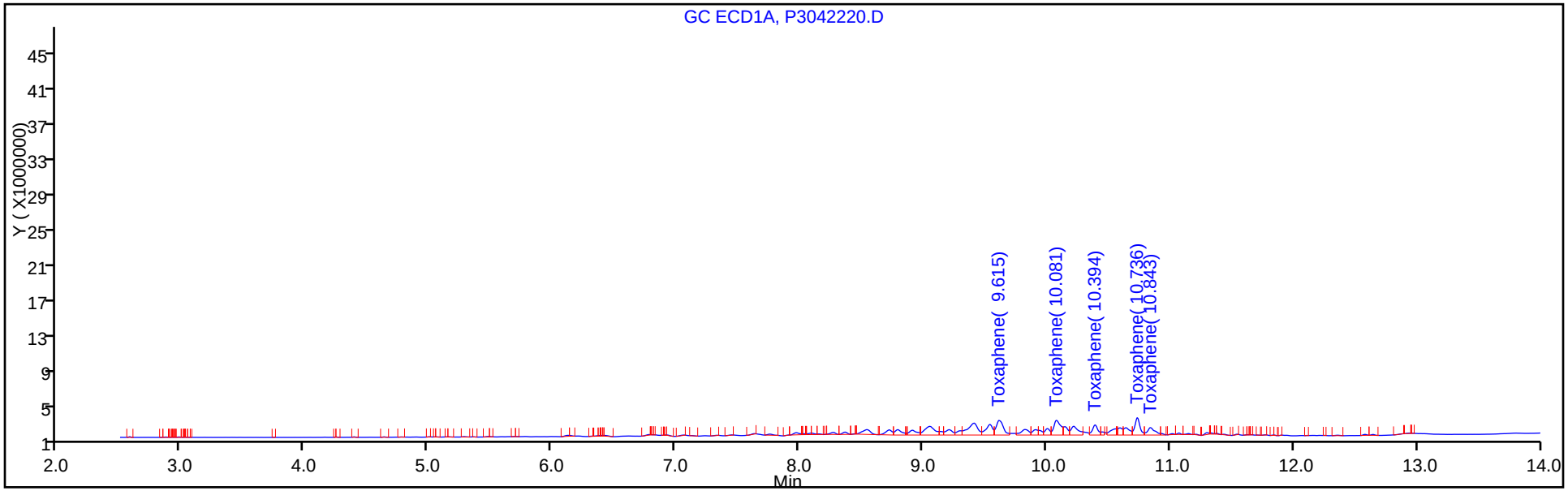
Report Date: 23-Apr-2015 07:42:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

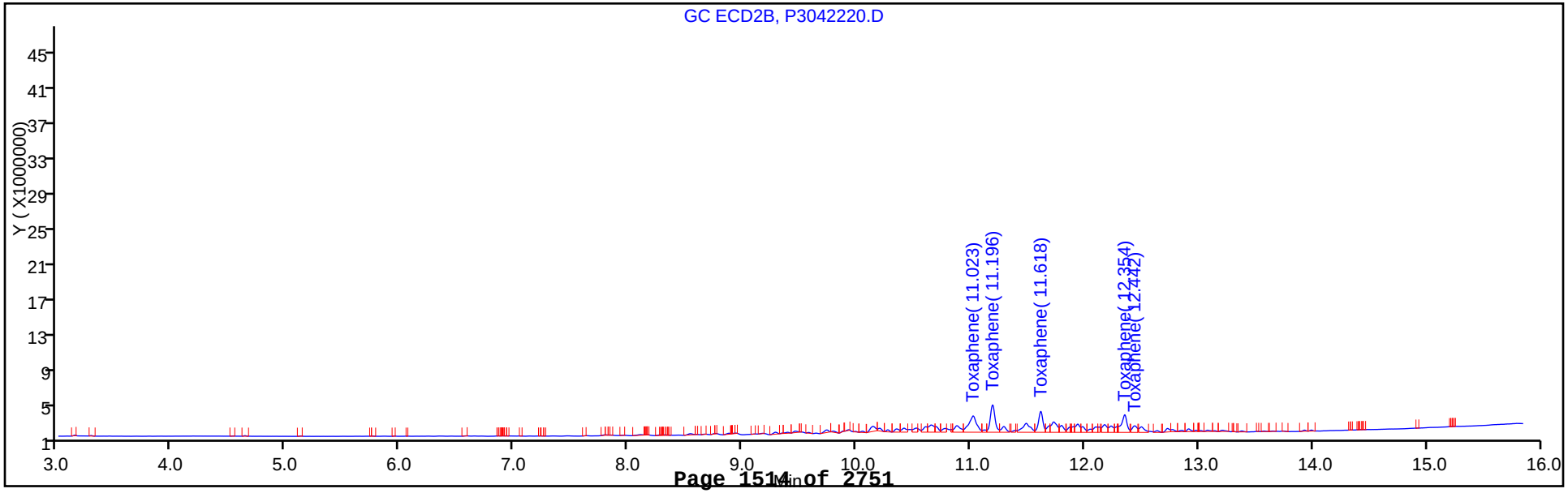
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D

Injection Date:	22-Apr-2015 22:04:29	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL TOX			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 07:42:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D

Injection Date: 22-Apr-2015 22:04:29 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

Operator ID: 430893 ALS Bottle#: 20 Worklist Smp#: 20

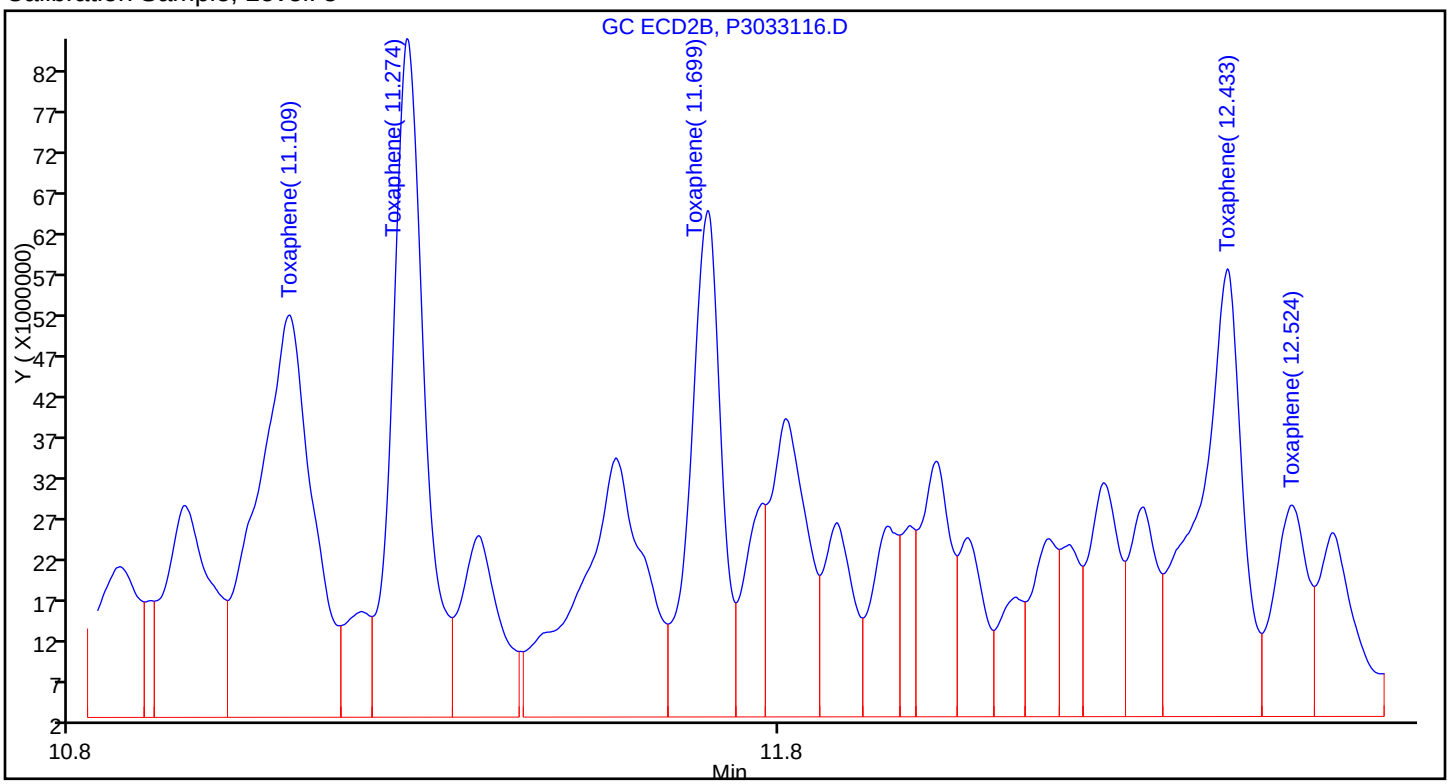
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

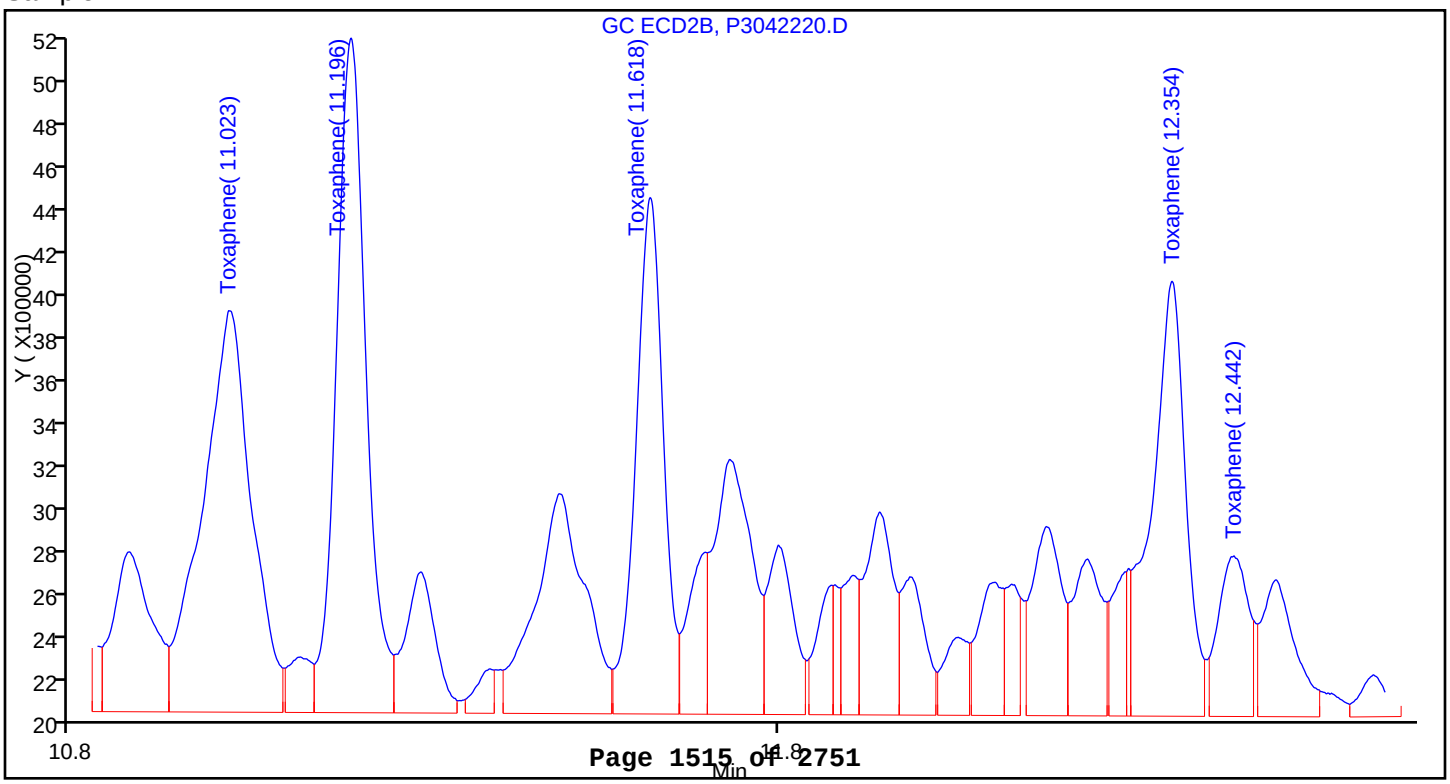
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2

Calibration Sample, Level: 5



Sample



Report Date: 23-Apr-2015 07:42:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042220.D

Injection Date: 22-Apr-2015 22:04:29 Instrument ID: A2HP3

Lims ID: MRL TOX

Client ID:

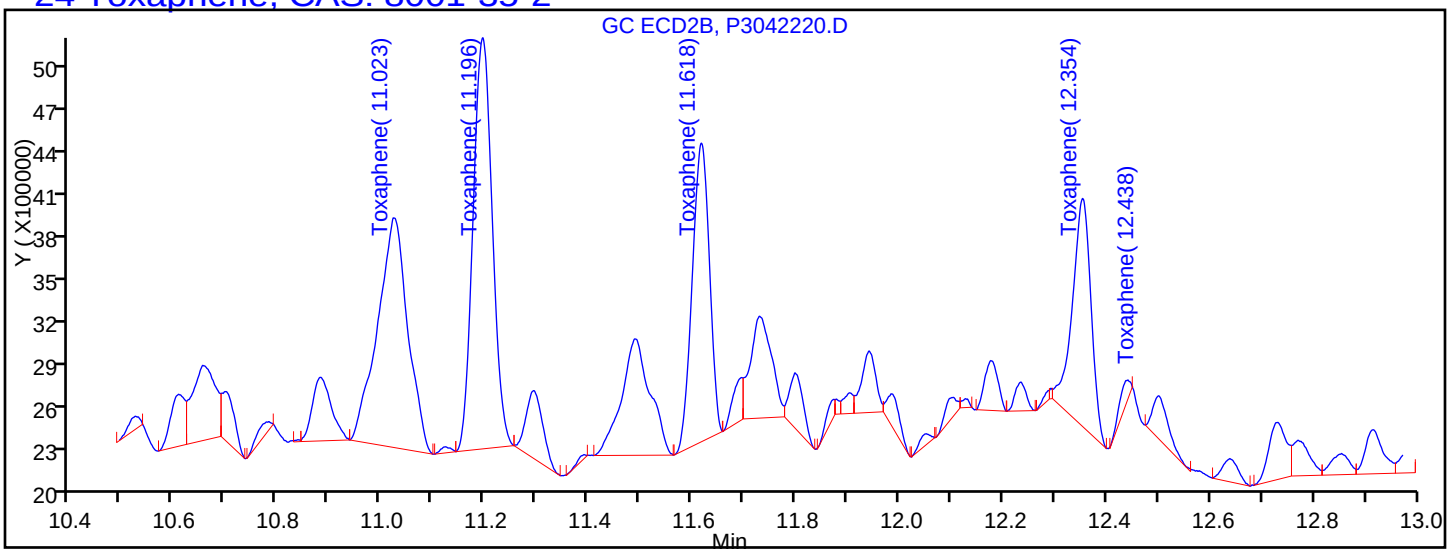
Operator ID: 430893 ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PEST3 Limit Group: GC 8081 D0D ICAL

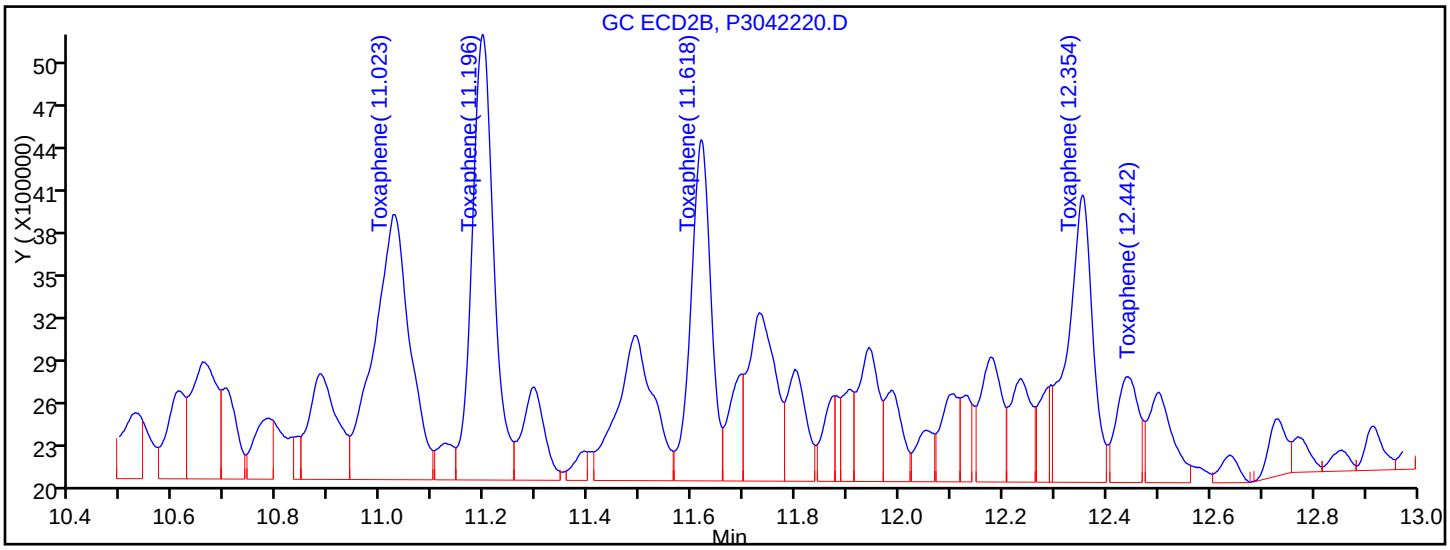
Column: Detector GC ecd2b

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 11.023	Response = 6440466	M
RT = 11.196	Response = 7373075	M
RT = 11.618	Response = 4784580	M
RT = 12.354	Response = 3939168	M
RT = 12.438	Response = 245783	M



Manual Integration Results

RT = 11.023	Response = 8855446	M
RT = 11.196	Response = 9004374	M
RT = 11.618	Response = 6377005	M
RT = 12.354	Response = 6633405	M
RT = 12.442	Response = 2111828	M

Reviewer: matthewsb, 23-Apr-2015 07:38:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177463/21

Matrix: Solid | Lab File ID: P3042221.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 22:27

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177463 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	4.20		0.050	0.050	0.018
72-55-9	4,4'-DDE	5.09		0.050	0.050	0.0090
50-29-3	4,4'-DDT	3.95		0.050	0.050	0.014
309-00-2	Aldrin	5.25		0.050	0.050	0.013
319-84-6	alpha-BHC	5.14		0.050	0.050	0.014
5103-71-9	alpha-Chlordane	5.31		0.050	0.050	0.012
319-85-7	beta-BHC	5.58		0.050	0.050	0.013
319-86-8	delta-BHC	4.62		0.050	0.050	0.029
60-57-1	Dieldrin	5.39		0.050	0.050	0.013
959-98-8	Endosulfan I	5.58		0.050	0.050	0.016
33213-65-9	Endosulfan II	6.01		0.050	0.050	0.015
1031-07-8	Endosulfan sulfate	5.59		0.050	0.050	0.011
72-20-8	Endrin	5.44		0.050	0.050	0.012
7421-93-4	Endrin aldehyde	5.04		0.050	0.050	0.0080
53494-70-5	Endrin ketone	5.43		0.050	0.050	0.0090
58-89-9	gamma-BHC (Lindane)	5.14		0.050	0.050	0.012
5103-74-2	gamma-Chlordane	5.26		0.050	0.050	0.010
76-44-8	Heptachlor	5.60		0.050	0.050	0.0050
1024-57-3	Heptachlor epoxide	5.57		0.050	0.050	0.014
72-43-5	Methoxychlor	5.06		0.10	0.050	0.012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	114		50-150
877-09-8	Tetrachloro-m-xylene	111		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042221.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 22:27:49 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-021
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	5457064	5.00	5.55	
2	4.235	4.234	0.001	6605207	5.00	5.86	
						RPD = 5.47	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.251	4.251	0.000	8905819	5.00	5.14	
2	5.128	5.128	0.000	10217613	5.00	5.22	
						RPD = 1.49	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	7933598	5.00	5.14	
2	5.750	5.751	-0.001	9510505	5.00	5.37	
						RPD = 4.48	
6 beta-BHC							
1	4.780	4.779	0.001	3513658	5.00	5.58	
2	5.951	5.950	0.001	4578019	5.00	5.96	
						RPD = 6.58	
7 delta-BHC							
1	5.002	5.001	0.001	6941581	5.00	4.62	
2	6.573	6.574	-0.001	8174920	5.00	4.61	
						RPD = 0.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1	5.284	5.284	0.000	8173832	5.00	5.60	
2	6.653	6.653	0.000	10168974	5.00	6.02	
						RPD = 7.12	
10 Aldrin							
1	5.750	5.750	0.000	7681792	5.00	5.25	
2	7.457	7.457	0.000	9078766	5.00	5.43	
						RPD = 3.27	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.025	7.025	0.000	7257584	5.00	5.57	
2	8.890	8.889	0.001	8328190	5.00	5.80	
						RPD = 4.15	
13 gamma-Chlordane							
1	7.340	7.339	0.001	7104621	5.00	5.26	
2	9.284	9.283	0.001	8224392	5.00	5.59	
						RPD = 6.09	
14 alpha-Chlordane							
1	7.685	7.684	0.001	7108797	5.00	5.31	
2	9.582	9.583	-0.001	7960382	5.00	5.60	
						RPD = 5.31	
15 Endosulfan I							
1	7.960	7.958	0.002	6846734	5.00	5.58	
2	9.651	9.652	-0.001	7749146	5.00	5.86	
						RPD = 5.00	
16 4,4'-DDE							
1	8.067	8.065	0.002	6035131	5.00	5.09	
2	10.010	10.012	-0.002	6861374	5.00	5.20	
						RPD = 1.98	
17 Dieldrin							
1	8.510	8.513	-0.003	7046886	5.00	5.39	
2	10.165	10.167	-0.002	7734511	5.00	5.65	
						RPD = 4.79	
18 Endrin							
1	8.963	8.965	-0.002	6260233	5.00	5.44	
2	10.679	10.681	-0.002	6525107	5.00	5.41	
						RPD = 0.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.335	9.332	0.003	3657808	5.00	4.20	
2	11.007	11.005	0.002	4239440	5.00	4.33	
						RPD = 3.04	
21 Endosulfan II							
1	9.415	9.415	0.000	6949177	5.00	6.01	
2	11.048	11.050	-0.002	7663852	5.00	6.55	
						RPD = 8.71	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.625				ND	
1		10.083					
1		10.397					
1		10.738					
1		10.846					
2		11.024					
2		11.195					
2		11.618					
2		12.353					
2		12.443					
23 4,4'-DDT							
1	9.845	9.844	0.001	3773942	5.00	3.95	
2	11.487	11.487	0.000	3932558	5.00	3.94	
						RPD = 0.27	
25 Endrin aldehyde							
1	10.210	10.210	0.000	4485458	5.00	5.04	
2	11.607	11.608	-0.001	4713064	5.00	5.05	
						RPD = 0.23	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.797	10.795	0.002	2318237	5.00	5.06	
2	12.554	12.554	0.000	2256563	5.00	4.61	
						RPD = 9.23	
28 Endosulfan sulfate							
1	10.935	10.935	0.000	5572371	5.00	5.59	
2	12.030	12.030	0.000	6085558	5.00	5.75	
						RPD = 2.68	
29 Endrin ketone							
1	11.335	11.336	-0.001	6630052	5.00	5.43	
2	12.774	12.773	0.001	6734935	5.00	5.49	
						RPD = 1.09	

Report Date: 23-Apr-2015 07:42:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042221.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.940	0.000	5358943	5.00	5.72	
2	14.491	14.492	-0.001	5851586	5.00	5.75	
						RPD = 0.45	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

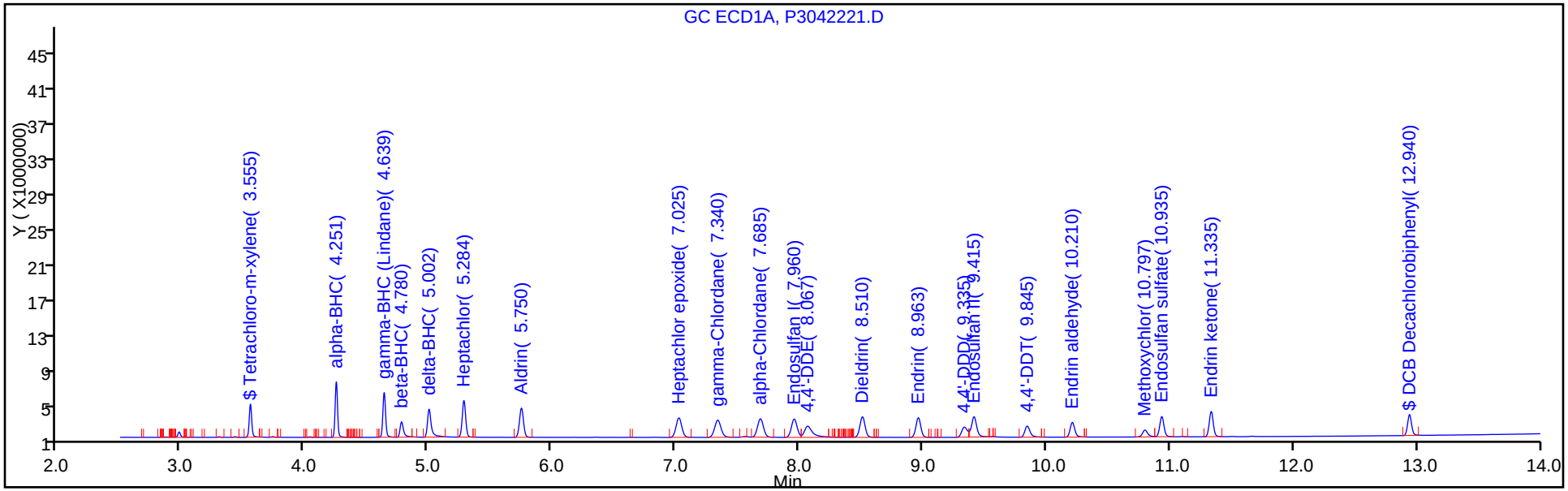
Report Date: 23-Apr-2015 07:42:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

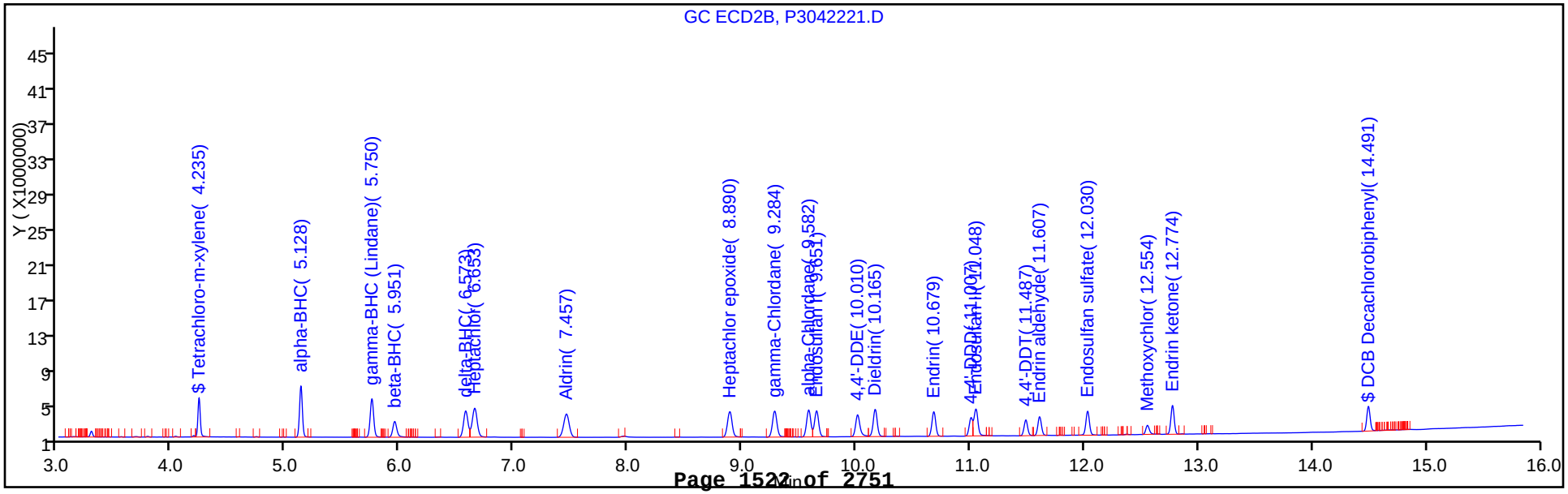
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042221.D

Injection Date:	22-Apr-2015 22:27:49	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177463/21

Matrix: Solid | Lab File ID: P3042221.D

Analysis Method: 8081A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/22/2015 22:27

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177463 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	*4,4'-DDD*	*4.33*		*0.050*	0.050	*0.018*
72-55-9	*4,4'-DDE*	*5.20*		*0.050*	0.050	*0.0090*
50-29-3	*4,4'-DDT*	*3.94*		*0.050*	0.050	*0.014*
309-00-2	*Aldrin*	*5.43*		*0.050*	0.050	*0.013*
319-84-6	*alpha-BHC*	*5.22*		*0.050*	0.050	*0.014*
5103-71-9	*alpha-Chlordane*	*5.60*		*0.050*	0.050	*0.012*
319-85-7	*beta-BHC*	*5.96*		*0.050*	0.050	*0.013*
319-86-8	*delta-BHC*	*4.61*		*0.050*	0.050	*0.029*
60-57-1	*Dieldrin*	*5.65*		*0.050*	0.050	*0.013*
959-98-8	*Endosulfan I*	*5.86*		*0.050*	0.050	*0.016*
33213-65-9	*Endosulfan II*	*6.55*	^	*0.050*	0.050	*0.015*
1031-07-8	*Endosulfan sulfate*	*5.75*		*0.050*	0.050	*0.011*
72-20-8	*Endrin*	*5.41*		*0.050*	0.050	*0.012*
7421-93-4	*Endrin aldehyde*	*5.05*		*0.050*	0.050	*0.0080*
53494-70-5	*Endrin ketone*	*5.49*		*0.050*	0.050	*0.0090*
58-89-9	*gamma-BHC (Lindane)*	*5.37*		*0.050*	0.050	*0.012*
5103-74-2	*gamma-Chlordane*	*5.59*		*0.050*	0.050	*0.010*
76-44-8	*Heptachlor*	*6.02*		*0.050*	0.050	*0.0050*
1024-57-3	*Heptachlor epoxide*	*5.80*		*0.050*	0.050	*0.014*
72-43-5	*Methoxychlor*	*4.61*		*0.10*	0.050	*0.012*

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	115		50-150
877-09-8	Tetrachloro-m-xylene	117		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042221.D
Lims ID: MRL AB
Client ID:
Sample Type: MRL
Inject. Date: 22-Apr-2015 22:27:49 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042824-021
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150422-42824.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 23-Apr-2015 07:42:43 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK053

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.555	3.555	0.000	5457064	5.00	5.55	
2	4.235	4.234	0.001	6605207	5.00	5.86	
						RPD = 5.47	
3 Hexachlorobenzene							
1		4.030				ND	
2		4.880					
2 Diallate							
1		4.130				ND	
1		4.296					
2		4.833					
2		4.996					
4 alpha-BHC							
1	4.251	4.251	0.000	8905819	5.00	5.14	
2	5.128	5.128	0.000	10217613	5.00	5.22	
						RPD = 1.49	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	7933598	5.00	5.14	
2	5.750	5.751	-0.001	9510505	5.00	5.37	
						RPD = 4.48	
6 beta-BHC							
1	4.780	4.779	0.001	3513658	5.00	5.58	
2	5.951	5.950	0.001	4578019	5.00	5.96	
						RPD = 6.58	
7 delta-BHC							
1	5.002	5.001	0.001	6941581	5.00	4.62	
2	6.573	6.574	-0.001	8174920	5.00	4.61	
						RPD = 0.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Chlordane (technical)							
1		5.173				ND	
1		6.063					
1		7.350					
1		7.690					
2		6.326					
2		7.951					
2		9.283					
2		9.583					
9 Heptachlor							
1	5.284	5.284	0.000	8173832	5.00	5.60	
2	6.653	6.653	0.000	10168974	5.00	6.02	
						RPD = 7.12	
10 Aldrin							
1	5.750	5.750	0.000	7681792	5.00	5.25	
2	7.457	7.457	0.000	9078766	5.00	5.43	
						RPD = 3.27	
11 Isodrin							
1		6.355				ND	
2		8.429					
12 Heptachlor epoxide							
1	7.025	7.025	0.000	7257584	5.00	5.57	
2	8.890	8.889	0.001	8328190	5.00	5.80	
						RPD = 4.15	
13 gamma-Chlordane							
1	7.340	7.339	0.001	7104621	5.00	5.26	
2	9.284	9.283	0.001	8224392	5.00	5.59	
						RPD = 6.09	
14 alpha-Chlordane							
1	7.685	7.684	0.001	7108797	5.00	5.31	
2	9.582	9.583	-0.001	7960382	5.00	5.60	
						RPD = 5.31	
15 Endosulfan I							
1	7.960	7.958	0.002	6846734	5.00	5.58	
2	9.651	9.652	-0.001	7749146	5.00	5.86	
						RPD = 5.00	
16 4,4'-DDE							
1	8.067	8.065	0.002	6035131	5.00	5.09	
2	10.010	10.012	-0.002	6861374	5.00	5.20	
						RPD = 1.98	
17 Dieldrin							
1	8.510	8.513	-0.003	7046886	5.00	5.39	
2	10.165	10.167	-0.002	7734511	5.00	5.65	
						RPD = 4.79	
18 Endrin							
1	8.963	8.965	-0.002	6260233	5.00	5.44	
2	10.679	10.681	-0.002	6525107	5.00	5.41	
						RPD = 0.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Kepone							
1		9.039				ND	
2		10.845					
20 4,4'-DDD							
1	9.335	9.332	0.003	3657808	5.00	4.20	
2	11.007	11.005	0.002	4239440	5.00	4.33	
						RPD = 3.04	
21 Endosulfan II							
1	9.415	9.415	0.000	6949177	5.00	6.01	
2	11.048	11.050	-0.002	7663852	5.00	6.55	
						RPD = 8.71	
22 Chlorobenzilate							
1		9.427				ND	
2		10.829					
24 Toxaphene							
1		9.625				ND	
1		10.083					
1		10.397					
1		10.738					
1		10.846					
2		11.024					
2		11.195					
2		11.618					
2		12.353					
2		12.443					
23 4,4'-DDT							
1	9.845	9.844	0.001	3773942	5.00	3.95	
2	11.487	11.487	0.000	3932558	5.00	3.94	
						RPD = 0.27	
25 Endrin aldehyde							
1	10.210	10.210	0.000	4485458	5.00	5.04	
2	11.607	11.608	-0.001	4713064	5.00	5.05	
						RPD = 0.23	
26 Mirex							
1		10.663				ND	
2		12.669					
27 Methoxychlor							
1	10.797	10.795	0.002	2318237	5.00	5.06	
2	12.554	12.554	0.000	2256563	5.00	4.61	
						RPD = 9.23	
28 Endosulfan sulfate							
1	10.935	10.935	0.000	5572371	5.00	5.59	
2	12.030	12.030	0.000	6085558	5.00	5.75	
						RPD = 2.68	
29 Endrin ketone							
1	11.335	11.336	-0.001	6630052	5.00	5.43	
2	12.774	12.773	0.001	6734935	5.00	5.49	
						RPD = 1.09	

Report Date: 23-Apr-2015 07:42:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042221.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 DCB Decachlorobiphenyl							
1	12.940	12.940	0.000	5358943	5.00	5.72	
2	14.491	14.492	-0.001	5851586	5.00	5.75	
						RPD = 0.45	

Reagents:

SGPestAB1_00011 Amount Added: 1.00 Units: mL

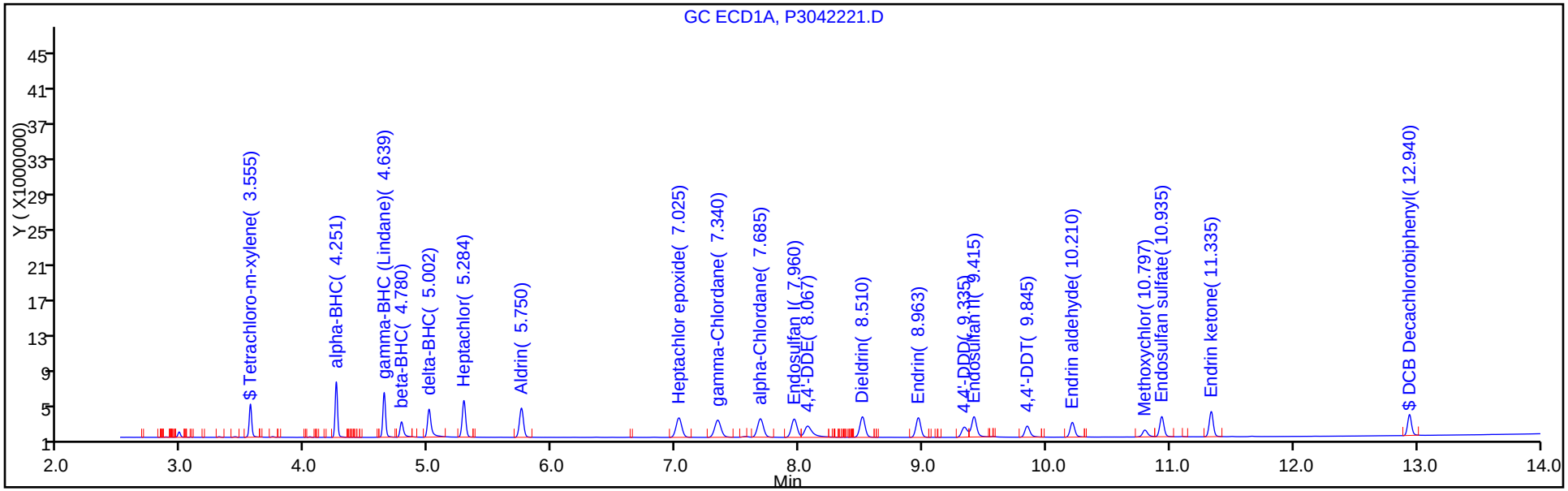
Report Date: 23-Apr-2015 07:42:50 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

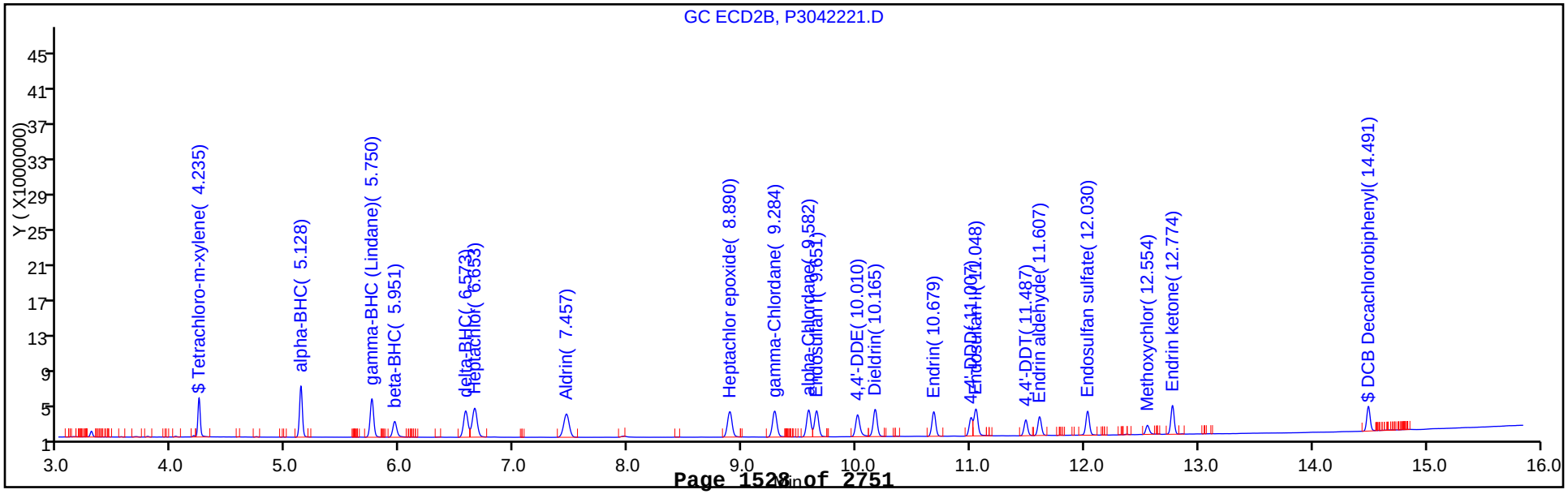
Data File: \\NCChrom\ChromData\A2HP3\20150422-42824.b\P3042221.D

Injection Date:	22-Apr-2015 22:27:49	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	MRL AB			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2 MS

Matrix: Solid | Lab File ID: P3042133.D

Analysis Method: 8081A | Date Collected: 04/06/2015 16:30

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:00

Sample wt/vol: 29.58(g) | Date Analyzed: 04/22/2015 01:08

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	34.2		2.1	0.44	0.21
72-55-9	4,4'-DDE	32.0		1.8	0.44	0.28
50-29-3	4,4'-DDT	31.9		2.1	0.86	0.32
309-00-2	Aldrin	25.8		4.2	0.86	0.21
319-84-6	alpha-BHC	32.6		2.6	1.8	0.62
5103-71-9	alpha-Chlordane	23.3		3.1	0.86	0.26
319-85-7	beta-BHC	30.8		3.6	0.86	0.37
319-86-8	delta-BHC	30.8		4.2	0.86	0.23
60-57-1	Dieldrin	31.8		1.8	0.44	0.17
959-98-8	Endosulfan I	18.9		1.8	0.86	0.26
33213-65-9	Endosulfan II	25.3		2.6	0.86	0.39
1031-07-8	Endosulfan sulfate	31.1		3.1	0.86	0.35
72-20-8	Endrin	36.3		1.8	0.86	0.22
7421-93-4	Endrin aldehyde	30.1		3.1	0.86	0.33
53494-70-5	Endrin ketone	30.7		2.1	1.8	0.44
58-89-9	gamma-BHC (Lindane)	31.8		2.6	1.8	0.48
5103-74-2	gamma-Chlordane	35.0		1.8	1.8	0.89
76-44-8	Heptachlor	33.0		3.6	1.8	0.73
1024-57-3	Heptachlor epoxide	31.6		2.6	1.8	0.42
72-43-5	Methoxychlor	33.8		5.2	1.8	0.56
8001-35-2	Toxaphene	17	U	70	17	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	96		55-130
877-09-8	Tetrachloro-m-xylene	108		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042133.D
Lims ID: 240-49071-A-2-Q MS
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MS
Inject. Date: 22-Apr-2015 01:08:43 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-033
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:32:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.557	3.554	0.003	21327227	20.0	21.7	
2	4.236	4.235	0.001	24629146	20.0	21.9	
						RPD = 0.78	
4 alpha-BHC							
1	4.253	4.250	0.003	163211145	100.0	94.2	
2	5.129	5.129	0.000	183551260	100.0	93.8	
						RPD = 0.51	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	141706671	100.0	91.8	
2	5.753	5.752	0.001	161320000	100.0	91.2	
						RPD = 0.69	
6 beta-BHC							
1	4.776	4.776	0.000	56051085	100.0	89.0	
2	5.958	5.951	0.007	114326506	100.0	148.8	
						RPD = 50.30	
7 delta-BHC							
1	4.998	4.999	-0.001	133900496	100.0	89.1	
2	6.573	6.574	-0.001	146313166	100.0	82.5	
						RPD = 7.73	
9 Heptachlor							
1	5.286	5.284	0.002	138913519	100.0	95.2	
2	6.656	6.654	0.002	149393572	100.0	88.4	
						RPD = 7.44	
10 Aldrin							
1	5.751	5.750	0.001	109155418	100.0	74.7	
2	7.459	7.460	-0.001	146759747	100.0	87.8	
						RPD = 16.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.025	7.023	0.002	119007240	100.0	91.3	
2	8.889	8.891	-0.002	117412646	100.0	81.8	
						RPD = 10.95	
13 gamma-Chlordane							
1	7.338	7.339	-0.001	136573762	100.0	101.1	
2	9.285	9.285	0.000	125660928	100.0	85.4	
						RPD = 16.84	
14 alpha-Chlordane							
1	7.686	7.684	0.002	90082825	100.0	67.3	
2	9.582	9.584	-0.002	118628493	100.0	83.5	
						RPD = 21.44	
15 Endosulfan I							
1	7.959	7.959	0.000	66867096	100.0	54.5	
2	9.653	9.653	0.000	87353102	100.0	66.1	
						RPD = 19.28	
16 4,4'-DDE							
1	8.053	8.057	-0.004	109497470	100.0	92.4	
2	10.010	10.012	-0.002	119497372	100.0	90.5	
						RPD = 2.11	
17 Dieldrin							
1	8.510	8.510	0.000	119997454	100.0	91.8	
2	10.167	10.168	-0.001	132773070	100.0	97.1	
						RPD = 5.59	
18 Endrin							
1	8.962	8.963	-0.001	120771387	100.0	104.9	
2	10.681	10.681	0.000	119305771	100.0	99.0	
						RPD = 5.82	
20 4,4'-DDD							
1	9.319	9.326	-0.007	86104388	100.0	98.9	
2	11.002	11.006	-0.004	98304631	100.0	100.4	
						RPD = 1.53	
21 Endosulfan II							
1	9.412	9.413	-0.001	84524155	100.0	73.1	
2	11.051	11.051	0.000	87652622	100.0	75.0	
						RPD = 2.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.837	9.840	-0.003	87921417	100.0	92.0	
2	11.487	11.488	-0.001	99258741	100.0	99.5	
						RPD = 7.74	
25 Endrin aldehyde							
1	10.208	10.209	-0.001	77520721	100.0	87.0	
2	11.607	11.609	-0.002	85836020	100.0	91.9	
						RPD = 5.47	
27 Methoxychlor							
1	10.787	10.792	-0.005	44708122	100.0	97.6	
2	12.553	12.555	-0.002	43776881	100.0	89.5	
						RPD = 8.64	
28 Endosulfan sulfate							
1	10.932	10.933	-0.001	89625741	100.0	90.0	
2	12.031	12.032	-0.001	99852203	100.0	94.3	
						RPD = 4.68	
29 Endrin ketone							
1	11.332	11.334	-0.002	108285755	100.0	88.6	
2	12.775	12.776	-0.001	114593600	100.0	93.3	
						RPD = 5.18	
$ 30 DCB Decachlorobiphenyl							
1	12.939	12.940	-0.001	18029497	20.0	19.3	
2	14.492	14.493	-0.001	19178982	20.0	18.8	
						RPD = 2.17	

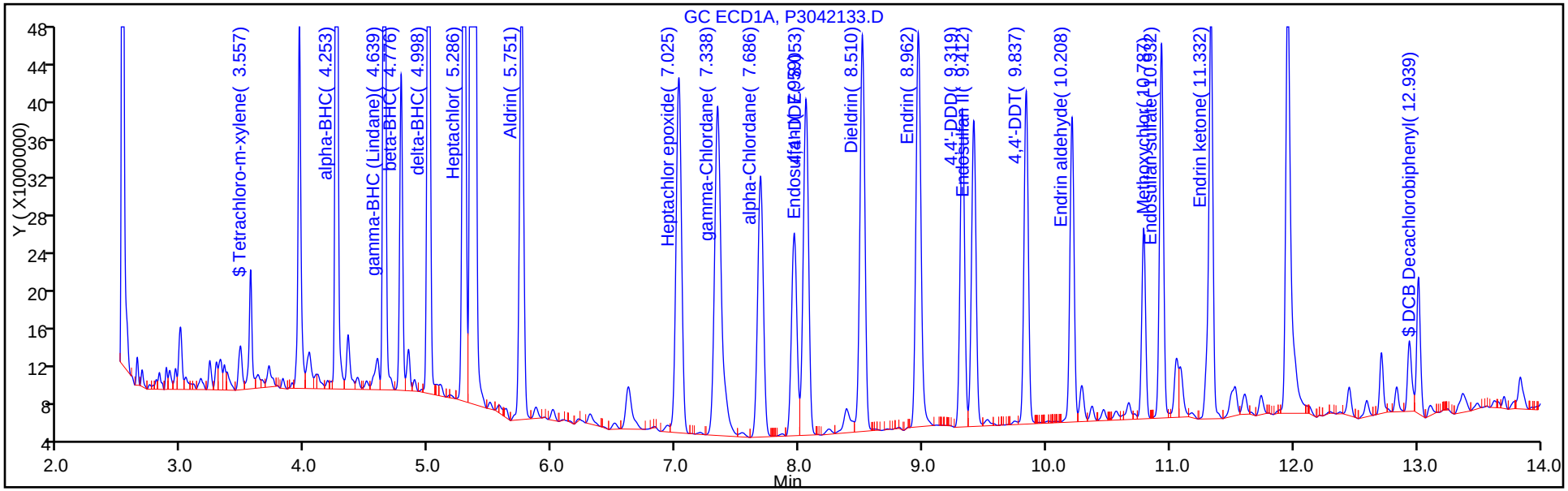
Report Date: 22-Apr-2015 08:58:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

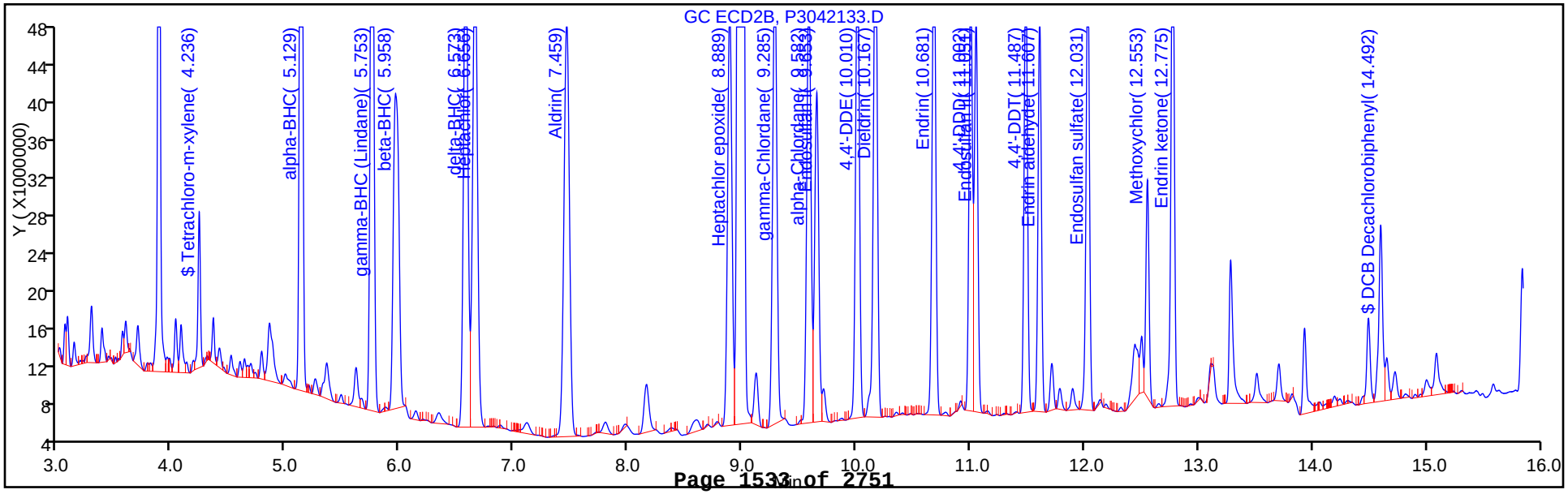
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042133.D

Injection Date:	22-Apr-2015 01:08:43	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49071-A-2-Q MS			Worklist Smp#:	33
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MS

Matrix: Solid Lab File ID: P3042133.D

Analysis Method: 8081A Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:00

Sample wt/vol: 29.58(g) Date Analyzed: 04/22/2015 01:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	94		55-130
877-09-8	Tetrachloro-m-xylene	109		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042133.D
Lims ID: 240-49071-A-2-Q MS
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MS
Inject. Date: 22-Apr-2015 01:08:43 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-033
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:32:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.557	3.554	0.003	21327227	20.0	21.7	
2	4.236	4.235	0.001	24629146	20.0	21.9	
						RPD = 0.78	
4 alpha-BHC							
1	4.253	4.250	0.003	163211145	100.0	94.2	
2	5.129	5.129	0.000	183551260	100.0	93.8	
						RPD = 0.51	
5 gamma-BHC (Lindane)							
1	4.639	4.639	0.000	141706671	100.0	91.8	
2	5.753	5.752	0.001	161320000	100.0	91.2	
						RPD = 0.69	
6 beta-BHC							
1	4.776	4.776	0.000	56051085	100.0	89.0	
2	5.958	5.951	0.007	114326506	100.0	148.8	
						RPD = 50.30	
7 delta-BHC							
1	4.998	4.999	-0.001	133900496	100.0	89.1	
2	6.573	6.574	-0.001	146313166	100.0	82.5	
						RPD = 7.73	
9 Heptachlor							
1	5.286	5.284	0.002	138913519	100.0	95.2	
2	6.656	6.654	0.002	149393572	100.0	88.4	
						RPD = 7.44	
10 Aldrin							
1	5.751	5.750	0.001	109155418	100.0	74.7	
2	7.459	7.460	-0.001	146759747	100.0	87.8	
						RPD = 16.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.025	7.023	0.002	119007240	100.0	91.3	
2	8.889	8.891	-0.002	117412646	100.0	81.8	
						RPD = 10.95	
13 gamma-Chlordane							
1	7.338	7.339	-0.001	136573762	100.0	101.1	
2	9.285	9.285	0.000	125660928	100.0	85.4	
						RPD = 16.84	
14 alpha-Chlordane							
1	7.686	7.684	0.002	90082825	100.0	67.3	
2	9.582	9.584	-0.002	118628493	100.0	83.5	
						RPD = 21.44	
15 Endosulfan I							
1	7.959	7.959	0.000	66867096	100.0	54.5	
2	9.653	9.653	0.000	87353102	100.0	66.1	
						RPD = 19.28	
16 4,4'-DDE							
1	8.053	8.057	-0.004	109497470	100.0	92.4	
2	10.010	10.012	-0.002	119497372	100.0	90.5	
						RPD = 2.11	
17 Dieldrin							
1	8.510	8.510	0.000	119997454	100.0	91.8	
2	10.167	10.168	-0.001	132773070	100.0	97.1	
						RPD = 5.59	
18 Endrin							
1	8.962	8.963	-0.001	120771387	100.0	104.9	
2	10.681	10.681	0.000	119305771	100.0	99.0	
						RPD = 5.82	
20 4,4'-DDD							
1	9.319	9.326	-0.007	86104388	100.0	98.9	
2	11.002	11.006	-0.004	98304631	100.0	100.4	
						RPD = 1.53	
21 Endosulfan II							
1	9.412	9.413	-0.001	84524155	100.0	73.1	
2	11.051	11.051	0.000	87652622	100.0	75.0	
						RPD = 2.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.837	9.840	-0.003	87921417	100.0	92.0	
2	11.487	11.488	-0.001	99258741	100.0	99.5	
						RPD = 7.74	
25 Endrin aldehyde							
1	10.208	10.209	-0.001	77520721	100.0	87.0	
2	11.607	11.609	-0.002	85836020	100.0	91.9	
						RPD = 5.47	
27 Methoxychlor							
1	10.787	10.792	-0.005	44708122	100.0	97.6	
2	12.553	12.555	-0.002	43776881	100.0	89.5	
						RPD = 8.64	
28 Endosulfan sulfate							
1	10.932	10.933	-0.001	89625741	100.0	90.0	
2	12.031	12.032	-0.001	99852203	100.0	94.3	
						RPD = 4.68	
29 Endrin ketone							
1	11.332	11.334	-0.002	108285755	100.0	88.6	
2	12.775	12.776	-0.001	114593600	100.0	93.3	
						RPD = 5.18	
$ 30 DCB Decachlorobiphenyl							
1	12.939	12.940	-0.001	18029497	20.0	19.3	
2	14.492	14.493	-0.001	19178982	20.0	18.8	
						RPD = 2.17	

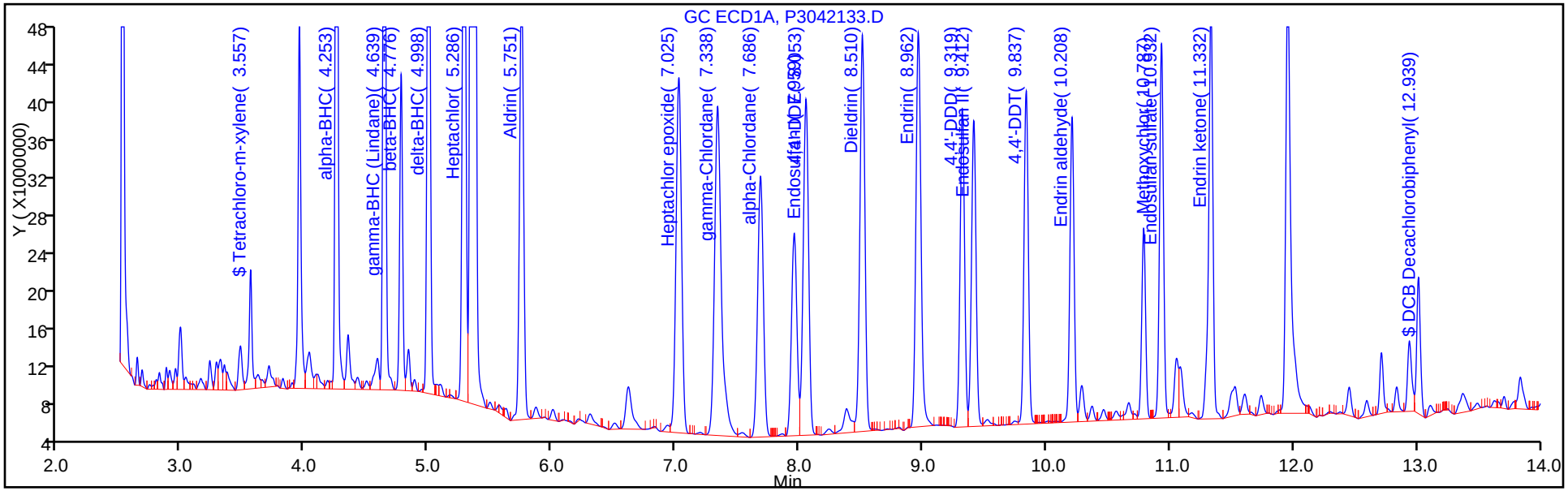
Report Date: 22-Apr-2015 08:58:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

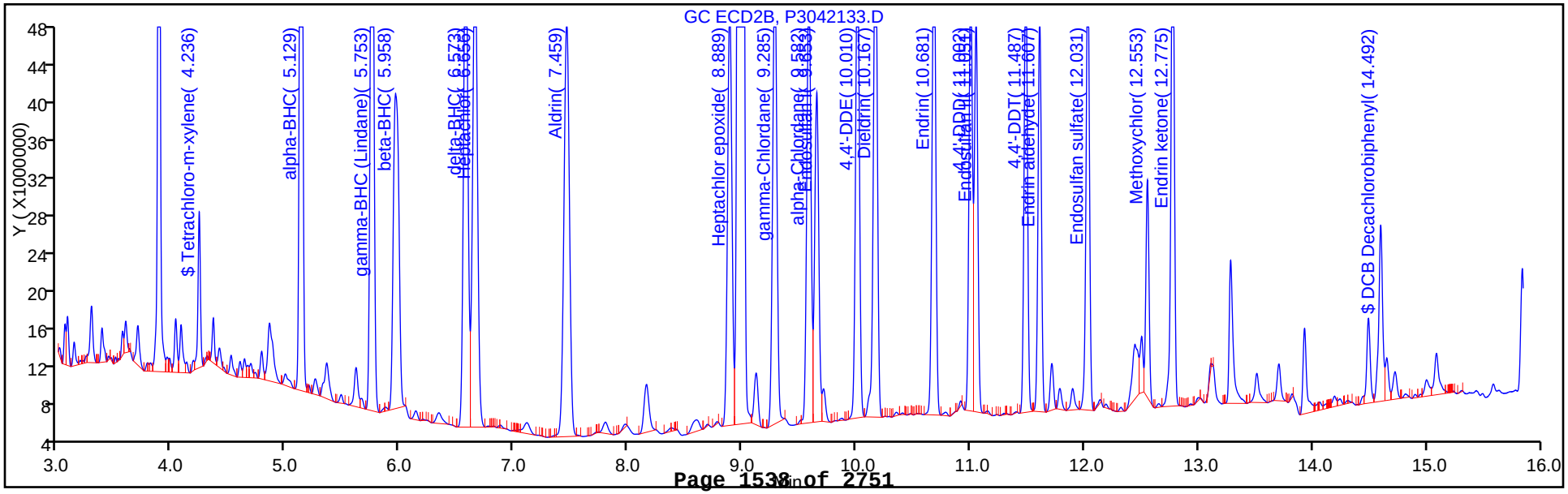
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042133.D

Injection Date:	22-Apr-2015 01:08:43	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49071-A-2-Q MS			Worklist Smp#:	33
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2 MSD

Matrix: Solid | Lab File ID: P3042134.D

Analysis Method: 8081A | Date Collected: 04/06/2015 16:30

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:00

Sample wt/vol: 29.62(g) | Date Analyzed: 04/22/2015 01:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
72-54-8	4,4'-DDD	13.7	Q J	2.1	0.44	0.21
72-55-9	4,4'-DDE	12.5	Q J	1.8	0.44	0.28
50-29-3	4,4'-DDT	12.3	Q J	2.1	0.86	0.32
309-00-2	Aldrin	9.96	Q J	4.1	0.86	0.21
319-84-6	alpha-BHC	13.0	Q J	2.6	1.8	0.62
5103-71-9	alpha-Chlordane	11.3	Q J	3.1	0.86	0.26
319-85-7	beta-BHC	12.8	Q J	3.6	0.86	0.37
319-86-8	delta-BHC	11.9	Q J	4.1	0.86	0.23
60-57-1	Dieldrin	12.4	Q J	1.8	0.44	0.17
959-98-8	Endosulfan I	7.33	Q J	1.8	0.86	0.26
33213-65-9	Endosulfan II	9.58	Q J	2.6	0.86	0.39
1031-07-8	Endosulfan sulfate	11.5	Q J	3.1	0.86	0.35
72-20-8	Endrin	14.1	Q J	1.8	0.86	0.22
7421-93-4	Endrin aldehyde	10.9	Q J	3.1	0.86	0.33
53494-70-5	Endrin ketone	11.6	Q J	2.1	1.8	0.44
58-89-9	gamma-BHC (Lindane)	12.5	Q J	2.6	1.8	0.48
5103-74-2	gamma-Chlordane	13.2	Q J	1.8	1.8	0.89
76-44-8	Heptachlor	13.5	Q J	3.6	1.8	0.73
1024-57-3	Heptachlor epoxide	12.6	Q J	2.6	1.8	0.41
72-43-5	Methoxychlor	12.7	Q J	5.2	1.8	0.56
8001-35-2	Toxaphene	17	U Q	69	17	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	44	Q	55-130
877-09-8	Tetrachloro-m-xylene	39	Q	70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042134.D
Lims ID: 240-49071-A-2-R MSD
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MSD
Inject. Date: 22-Apr-2015 01:31:45 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-034
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:32:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	7678522	20.0	7.81	
2	4.236	4.235	0.001	17074512	20.0	15.2	
						RPD = 63.97	
4 alpha-BHC							
1	4.251	4.250	0.001	64985643	100.0	37.5	
2	5.128	5.129	-0.001	71585565	100.0	36.6	
						RPD = 2.58	
5 gamma-BHC (Lindane)							
1	4.637	4.639	-0.002	56039751	100.0	36.3	
2	5.751	5.752	-0.001	62418232	100.0	35.3	
						RPD = 2.87	
6 beta-BHC							
1	4.774	4.776	-0.002	23275918	100.0	37.0	
2	5.969	5.951	0.018	50607065	100.0	65.9	
						RPD = 56.23	
7 delta-BHC							
1	4.997	4.999	-0.002	51873548	100.0	34.5	
2	6.572	6.574	-0.002	54829223	100.0	30.9	
						RPD = 11.04	
9 Heptachlor							
1	5.284	5.284	0.000	56810656	100.0	38.9	
2	6.653	6.654	-0.001	60245786	100.0	35.6	
						RPD = 8.84	
10 Aldrin							
1	5.749	5.750	-0.001	42103033	100.0	28.8	
2	7.457	7.460	-0.003	59727993	100.0	35.7	
						RPD = 21.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.021	7.023	-0.002	47482491	100.0	36.4	
2	8.890	8.891	-0.001	46756556	100.0	32.6	
						RPD = 11.14	
13 gamma-Chlordane							
1	7.336	7.339	-0.003	51568416	100.0	38.2	
2	9.284	9.285	-0.001	47905640	100.0	32.6	
						RPD = 15.88	
14 alpha-Chlordane							
1	7.686	7.684	0.002	43708184	100.0	32.7	
2	9.582	9.584	-0.002	45214439	100.0	31.8	
						RPD = 2.62	
15 Endosulfan I							
1	7.958	7.959	-0.001	26042611	100.0	21.2	
2	9.652	9.653	-0.001	32639351	100.0	24.7	
						RPD = 15.16	
16 4,4'-DDE							
1	8.052	8.057	-0.005	43008306	100.0	36.3	
2	10.008	10.012	-0.004	45942115	100.0	34.8	
						RPD = 4.25	
17 Dieldrin							
1	8.510	8.510	0.000	46782858	100.0	35.8	
2	10.166	10.168	-0.002	49137454	100.0	35.9	
						RPD = 0.39	
18 Endrin							
1	8.962	8.963	-0.001	47123102	100.0	40.9	
2	10.679	10.681	-0.002	45337456	100.0	37.6	
						RPD = 8.46	
20 4,4'-DDD							
1	9.318	9.326	-0.008	34383009	100.0	39.5	
2	11.002	11.006	-0.004	35881954	100.0	36.7	
						RPD = 7.45	
21 Endosulfan II							
1	9.411	9.413	-0.002	32048655	100.0	27.7	
2	11.049	11.051	-0.002	32489212	100.0	27.8	
						RPD = 0.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.837	9.840	-0.003	33882718	100.0	35.5	
2	11.486	11.488	-0.002	35185996	100.0	35.3	
						RPD = 0.61	
25 Endrin aldehyde							
1	10.207	10.209	-0.002	28167455	100.0	31.6	
2	11.607	11.609	-0.002	30770983	100.0	33.0	
						RPD = 4.12	
27 Methoxychlor							
1	10.787	10.792	-0.005	16783939	100.0	36.6	
2	12.552	12.555	-0.003	15888221	100.0	32.5	
						RPD = 12.01	
28 Endosulfan sulfate							
1	10.932	10.933	-0.001	33277544	100.0	33.4	
2	12.030	12.032	-0.002	36439255	100.0	34.4	
						RPD = 2.95	
29 Endrin ketone							
1	11.332	11.334	-0.002	41043910	100.0	33.6	
2	12.774	12.776	-0.002	39748585	100.0	32.4	
						RPD = 3.69	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.940	-0.002	8309451	20.0	8.87	
2	14.492	14.493	-0.001	8460221	20.0	8.31	
						RPD = 6.55	

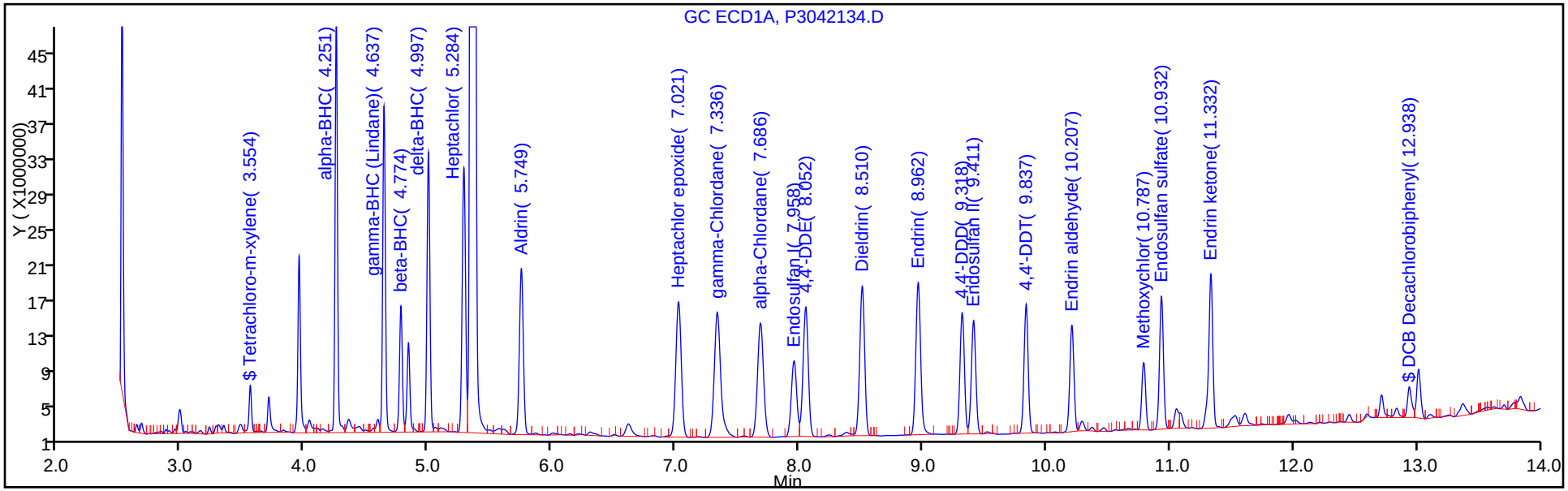
Report Date: 22-Apr-2015 08:58:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

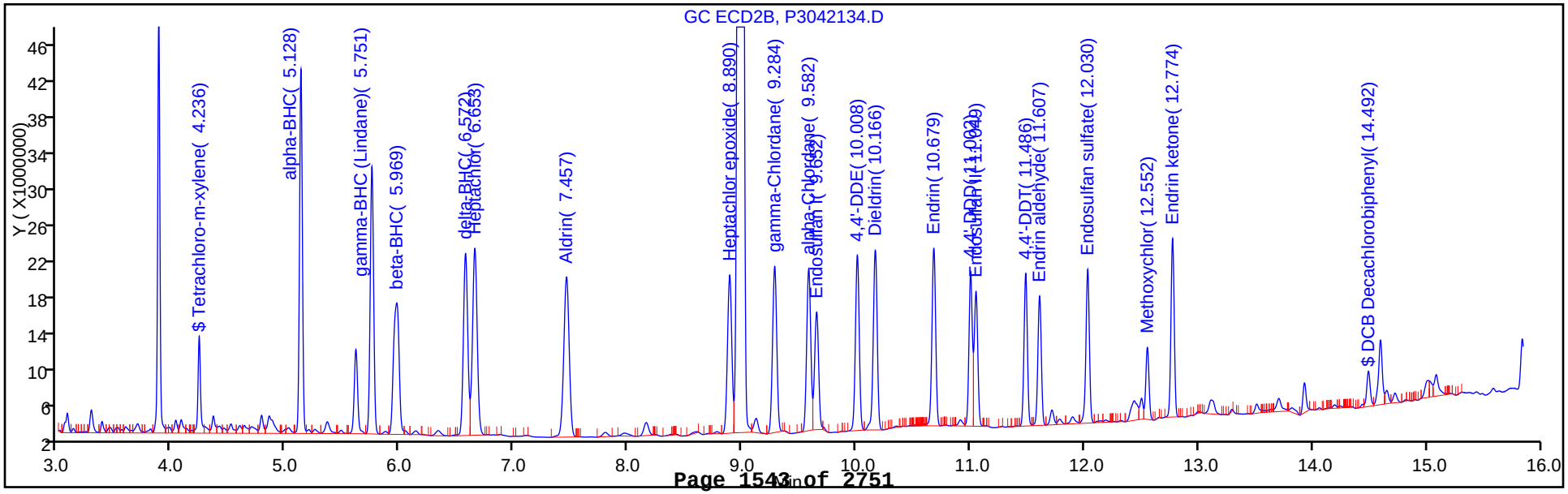
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042134.D

Injection Date:	22-Apr-2015 01:31:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49071-A-2-R MSD			Worklist Smp#:	34
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MSD

Matrix: Solid Lab File ID: P3042134.D

Analysis Method: 8081A Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:00

Sample wt/vol: 29.62(g) Date Analyzed: 04/22/2015 01:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177258 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	42	Q	55-130
877-09-8	Tetrachloro-m-xylene	76		70-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042134.D
Lims ID: 240-49071-A-2-R MSD
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MSD
Inject. Date: 22-Apr-2015 01:31:45 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042770-034
Operator ID: 430893 Instrument ID: A2HP3

Method: \\NCChrom\ChromData\A2HP3\20150421-42770.b\PEST3.m
Limit Group: GC 8081 D0D ICAL
Last Update: 22-Apr-2015 08:57:59 Calib Date: 20-Apr-2015 15:05:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\NCChrom\ChromData\A2HP3\20150420-42706.b\P3042011.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK008

First Level Reviewer: matthewsb Date: 22-Apr-2015 07:32:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 Tetrachloro-m-xylene							
1	3.554	3.554	0.000	7678522	20.0	7.81	
2	4.236	4.235	0.001	17074512	20.0	15.2	
						RPD = 63.97	
4 alpha-BHC							
1	4.251	4.250	0.001	64985643	100.0	37.5	
2	5.128	5.129	-0.001	71585565	100.0	36.6	
						RPD = 2.58	
5 gamma-BHC (Lindane)							
1	4.637	4.639	-0.002	56039751	100.0	36.3	
2	5.751	5.752	-0.001	62418232	100.0	35.3	
						RPD = 2.87	
6 beta-BHC							
1	4.774	4.776	-0.002	23275918	100.0	37.0	
2	5.969	5.951	0.018	50607065	100.0	65.9	
						RPD = 56.23	
7 delta-BHC							
1	4.997	4.999	-0.002	51873548	100.0	34.5	
2	6.572	6.574	-0.002	54829223	100.0	30.9	
						RPD = 11.04	
9 Heptachlor							
1	5.284	5.284	0.000	56810656	100.0	38.9	
2	6.653	6.654	-0.001	60245786	100.0	35.6	
						RPD = 8.84	
10 Aldrin							
1	5.749	5.750	-0.001	42103033	100.0	28.8	
2	7.457	7.460	-0.003	59727993	100.0	35.7	
						RPD = 21.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
12 Heptachlor epoxide							
1	7.021	7.023	-0.002	47482491	100.0	36.4	
2	8.890	8.891	-0.001	46756556	100.0	32.6	
						RPD = 11.14	
13 gamma-Chlordane							
1	7.336	7.339	-0.003	51568416	100.0	38.2	
2	9.284	9.285	-0.001	47905640	100.0	32.6	
						RPD = 15.88	
14 alpha-Chlordane							
1	7.686	7.684	0.002	43708184	100.0	32.7	
2	9.582	9.584	-0.002	45214439	100.0	31.8	
						RPD = 2.62	
15 Endosulfan I							
1	7.958	7.959	-0.001	26042611	100.0	21.2	
2	9.652	9.653	-0.001	32639351	100.0	24.7	
						RPD = 15.16	
16 4,4'-DDE							
1	8.052	8.057	-0.005	43008306	100.0	36.3	
2	10.008	10.012	-0.004	45942115	100.0	34.8	
						RPD = 4.25	
17 Dieldrin							
1	8.510	8.510	0.000	46782858	100.0	35.8	
2	10.166	10.168	-0.002	49137454	100.0	35.9	
						RPD = 0.39	
18 Endrin							
1	8.962	8.963	-0.001	47123102	100.0	40.9	
2	10.679	10.681	-0.002	45337456	100.0	37.6	
						RPD = 8.46	
20 4,4'-DDD							
1	9.318	9.326	-0.008	34383009	100.0	39.5	
2	11.002	11.006	-0.004	35881954	100.0	36.7	
						RPD = 7.45	
21 Endosulfan II							
1	9.411	9.413	-0.002	32048655	100.0	27.7	
2	11.049	11.051	-0.002	32489212	100.0	27.8	
						RPD = 0.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Toxaphene							
1		9.622				ND	
1		10.081					
1		10.393					
1		10.735					
1		10.840					
2		11.025					
2		11.195					
2		11.618					
2		12.353					
2		12.444					
23 4,4'-DDT							
1	9.837	9.840	-0.003	33882718	100.0	35.5	
2	11.486	11.488	-0.002	35185996	100.0	35.3	
						RPD = 0.61	
25 Endrin aldehyde							
1	10.207	10.209	-0.002	28167455	100.0	31.6	
2	11.607	11.609	-0.002	30770983	100.0	33.0	
						RPD = 4.12	
27 Methoxychlor							
1	10.787	10.792	-0.005	16783939	100.0	36.6	
2	12.552	12.555	-0.003	15888221	100.0	32.5	
						RPD = 12.01	
28 Endosulfan sulfate							
1	10.932	10.933	-0.001	33277544	100.0	33.4	
2	12.030	12.032	-0.002	36439255	100.0	34.4	
						RPD = 2.95	
29 Endrin ketone							
1	11.332	11.334	-0.002	41043910	100.0	33.6	
2	12.774	12.776	-0.002	39748585	100.0	32.4	
						RPD = 3.69	
$ 30 DCB Decachlorobiphenyl							
1	12.938	12.940	-0.002	8309451	20.0	8.87	
2	14.492	14.493	-0.001	8460221	20.0	8.31	
						RPD = 6.55	

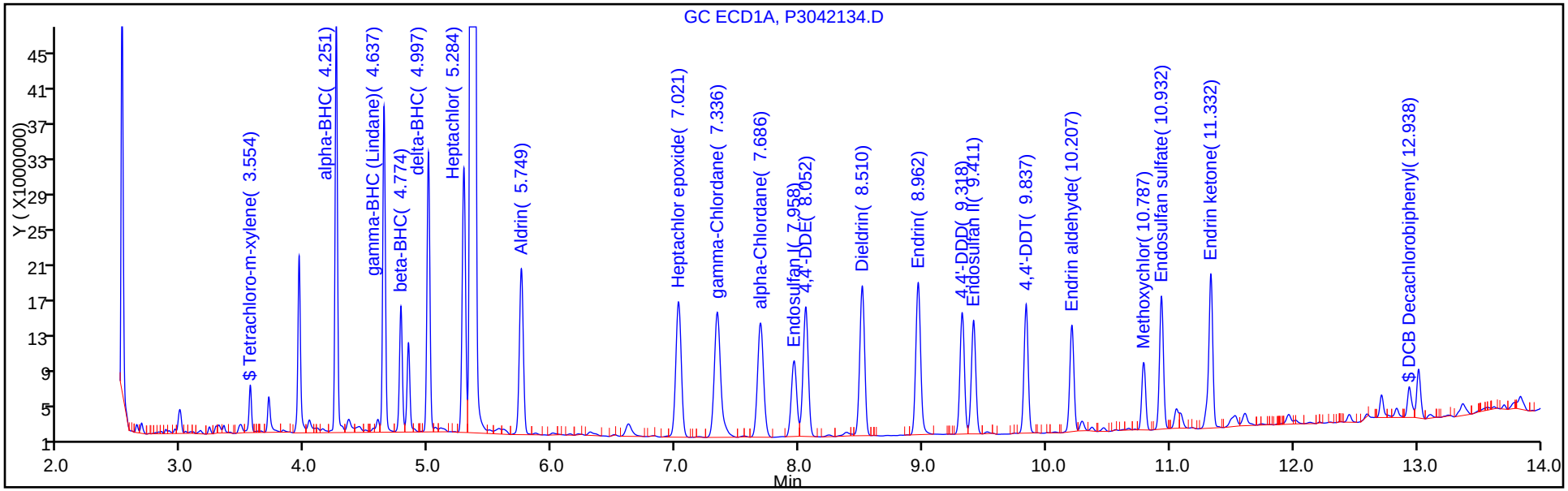
Report Date: 22-Apr-2015 08:58:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

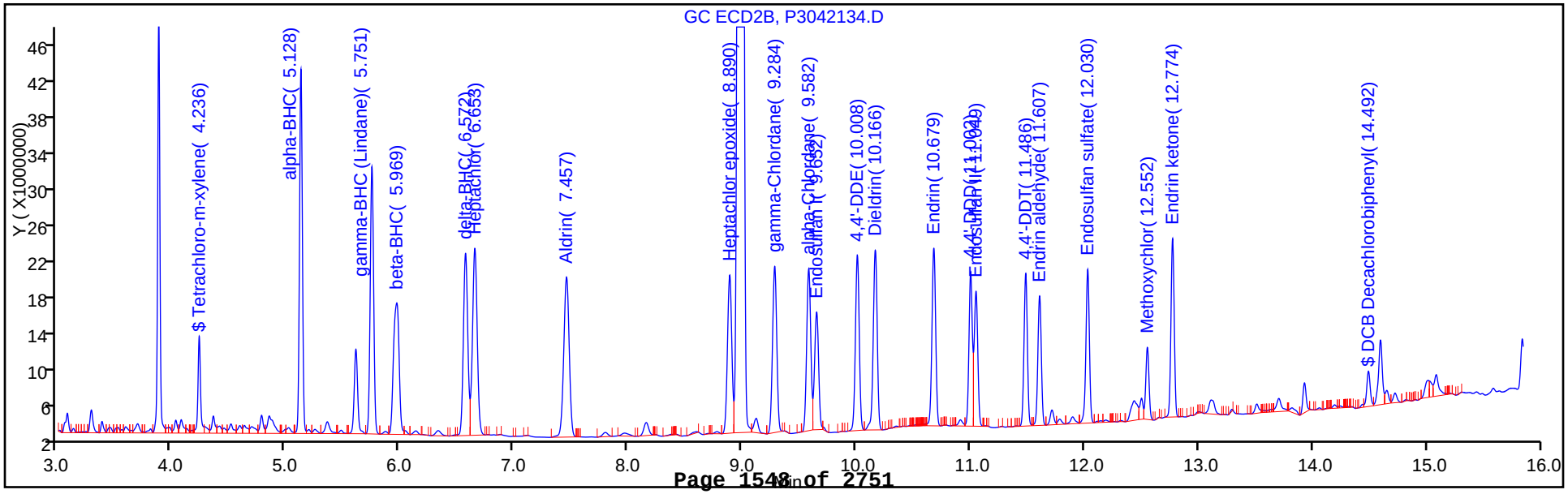
Data File: \\NCChrom\ChromData\A2HP3\20150421-42770.b\P3042134.D

Injection Date:	22-Apr-2015 01:31:45	Instrument ID:	A2HP3	Operator ID:	430893
Lims ID:	240-49071-A-2-R MSD			Worklist Smp#:	34
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PEST3	Limit Group:	GC 8081 D0D ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Start Date: 03/31/2015 12:56

Analysis Batch Number: 174448 End Date: 03/31/2015 22:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-174448/5 IC		03/31/2015 12:56	1		CLP-1 0.53(mm)
STD 240-174448/5 IC		03/31/2015 12:56	1		CLP-2 0.53(mm)
STD 240-174448/6 IC		03/31/2015 13:19	1		CLP-1 0.53(mm)
STD 240-174448/6 IC		03/31/2015 13:19	1		CLP-2 0.53(mm)
STD 240-174448/7 IC		03/31/2015 13:42	1		CLP-1 0.53(mm)
STD 240-174448/7 IC		03/31/2015 13:42	1		CLP-2 0.53(mm)
STD 240-174448/8 IC		03/31/2015 14:05	1		CLP-1 0.53(mm)
STD 240-174448/8 IC		03/31/2015 14:05	1		CLP-2 0.53(mm)
STD 240-174448/9 IC		03/31/2015 14:28	1		CLP-1 0.53(mm)
STD 240-174448/9 IC		03/31/2015 14:28	1		CLP-2 0.53(mm)
STD 240-174448/10 IC		03/31/2015 14:51	1		CLP-1 0.53(mm)
STD 240-174448/10 IC		03/31/2015 14:51	1		CLP-2 0.53(mm)
ICV 240-174448/11		03/31/2015 15:15	1		CLP-1 0.53(mm)
ICV 240-174448/11		03/31/2015 15:15	1		CLP-2 0.53(mm)
STD 240-174448/12 IC		03/31/2015 15:37	1	P3033112.D	CLP-1 0.53(mm)
STD 240-174448/12 IC		03/31/2015 15:37	1	P3033112.D	CLP-2 0.53(mm)
STD 240-174448/13 IC		03/31/2015 16:01	1	P3033113.D	CLP-1 0.53(mm)
STD 240-174448/13 IC		03/31/2015 16:01	1	P3033113.D	CLP-2 0.53(mm)
STD 240-174448/14 ICRT		03/31/2015 16:24	1	P3033114.D	CLP-1 0.53(mm)
STD 240-174448/14 ICRT		03/31/2015 16:24	1	P3033114.D	CLP-2 0.53(mm)
STD 240-174448/15 IC		03/31/2015 16:47	1	P3033115.D	CLP-1 0.53(mm)
STD 240-174448/15 IC		03/31/2015 16:47	1	P3033115.D	CLP-2 0.53(mm)
STD 240-174448/16 IC		03/31/2015 17:11	1	P3033116.D	CLP-1 0.53(mm)
STD 240-174448/16 IC		03/31/2015 17:11	1	P3033116.D	CLP-2 0.53(mm)
ICV 240-174448/17		03/31/2015 17:34	1	P3033117.D	CLP-1 0.53(mm)
ICV 240-174448/17		03/31/2015 17:34	1	P3033117.D	CLP-2 0.53(mm)
STD 240-174448/18 IC		03/31/2015 17:57	1		CLP-1 0.53(mm)
STD 240-174448/18 IC		03/31/2015 17:57	1		CLP-2 0.53(mm)
STD 240-174448/19 IC		03/31/2015 18:19	1		CLP-1 0.53(mm)
STD 240-174448/19 IC		03/31/2015 18:19	1		CLP-2 0.53(mm)
STD 240-174448/20 ICRT		03/31/2015 18:42	1		CLP-1 0.53(mm)
STD 240-174448/20 ICRT		03/31/2015 18:42	1		CLP-2 0.53(mm)
STD 240-174448/21 IC		03/31/2015 19:04	1		CLP-1 0.53(mm)
STD 240-174448/21 IC		03/31/2015 19:04	1		CLP-2 0.53(mm)
STD 240-174448/22 IC		03/31/2015 19:26	1		CLP-1 0.53(mm)
STD 240-174448/22 IC		03/31/2015 19:26	1		CLP-2 0.53(mm)
ICV 240-174448/23		03/31/2015 19:48	1		CLP-1 0.53(mm)
ICV 240-174448/23		03/31/2015 19:48	1		CLP-2 0.53(mm)
PEM 240-174448/24		03/31/2015 20:11	1	P3033124.D	CLP-1 0.53(mm)
PEM 240-174448/24		03/31/2015 20:11	1	P3033124.D	CLP-2 0.53(mm)
STD 240-174448/25 IC		03/31/2015 20:34	1	P3033125.D	CLP-1 0.53(mm)
STD 240-174448/25 IC		03/31/2015 20:34	1	P3033125.D	CLP-2 0.53(mm)
STD 240-174448/26 IC		03/31/2015 20:57	1	P3033126.D	CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Start Date: 03/31/2015 12:56

Analysis Batch Number: 174448 End Date: 03/31/2015 22:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-174448/26 IC		03/31/2015 20:57	1	P3033126.D	CLP-2 0.53(mm)
STD 240-174448/27 ICRT		03/31/2015 21:20	1	P3033127.D	CLP-1 0.53(mm)
STD 240-174448/27 ICRT		03/31/2015 21:20	1	P3033127.D	CLP-2 0.53(mm)
STD 240-174448/28 IC		03/31/2015 21:44	1	P3033128.D	CLP-1 0.53(mm)
STD 240-174448/28 IC		03/31/2015 21:44	1	P3033128.D	CLP-2 0.53(mm)
STD 240-174448/29 IC		03/31/2015 22:07	1	P3033129.D	CLP-1 0.53(mm)
STD 240-174448/29 IC		03/31/2015 22:07	1	P3033129.D	CLP-2 0.53(mm)
STD 240-174448/30 IC		03/31/2015 22:29	1	P3033130.D	CLP-1 0.53(mm)
STD 240-174448/30 IC		03/31/2015 22:29	1	P3033130.D	CLP-2 0.53(mm)
ICV 240-174448/31		03/31/2015 22:53	1	P3033131.D	CLP-1 0.53(mm)
ICV 240-174448/31		03/31/2015 22:53	1	P3033131.D	CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Start Date: 04/21/2015 14:22

Analysis Batch Number: 177258 End Date: 04/22/2015 09:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-177258/5		04/21/2015 14:22	1		CLP-1 0.53(mm)
PEM 240-177258/5		04/21/2015 14:22	1		CLP-2 0.53(mm)
CCV 240-177258/6 CCVRT		04/21/2015 14:46	1		CLP-1 0.53(mm)
CCV 240-177258/6 CCVRT		04/21/2015 14:46	1		CLP-2 0.53(mm)
CCV 240-177258/7 CCVRT		04/21/2015 15:08	1		CLP-1 0.53(mm)
CCV 240-177258/7 CCVRT		04/21/2015 15:08	1		CLP-2 0.53(mm)
CCV 240-177258/8 CCVRT		04/21/2015 15:32	1	P3042108.D	CLP-1 0.53(mm)
CCV 240-177258/8 CCVRT		04/21/2015 15:32	1	P3042108.D	CLP-2 0.53(mm)
CCV 240-177258/9 CCVRT		04/21/2015 15:55	1		CLP-1 0.53(mm)
CCV 240-177258/9 CCVRT		04/21/2015 15:55	1		CLP-2 0.53(mm)
CCV 240-177258/10 CCVRT		04/21/2015 16:19	1	P3042110.D	CLP-1 0.53(mm)
CCV 240-177258/10 CCVRT		04/21/2015 16:19	1	P3042110.D	CLP-2 0.53(mm)
ZZZZZ		04/21/2015 17:05	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 17:05	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 17:28	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 17:28	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 17:52	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 17:52	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 18:15	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 18:15	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 18:38	10		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 18:38	10		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 19:01	10		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 19:01	10		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 19:24	50		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 19:24	50		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 19:47	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 19:47	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 20:10	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 20:10	1		CLP-2 0.53(mm)
CCV 240-177258/21		04/21/2015 20:33	1		CLP-1 0.53(mm)
CCV 240-177258/21		04/21/2015 20:33	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 20:56	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 20:56	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 21:19	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 21:19	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 21:42	20		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 21:42	20		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 22:04	1		CLP-1 0.53(mm)
ZZZZZ		04/21/2015 22:04	1		CLP-2 0.53(mm)
ZZZZZ		04/21/2015 22:27	1		CLP-1 0.53(mm)

8081A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Start Date: 04/21/2015 14:22

Analysis Batch Number: 177258 End Date: 04/22/2015 09:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/21/2015 22:27	1		CLP-2 0.53(mm)
PEM 240-177258/27		04/21/2015 22:49	1	P3042127.D	CLP-1 0.53(mm)
PEM 240-177258/27		04/21/2015 22:49	1	P3042127.D	CLP-2 0.53(mm)
CCV 240-177258/28		04/21/2015 23:12	1	P3042128.D	CLP-1 0.53(mm)
CCV 240-177258/28		04/21/2015 23:12	1	P3042128.D	CLP-2 0.53(mm)
MRL 240-177258/29		04/21/2015 23:35	1	P3042129.D	CLP-1 0.53(mm)
MRL 240-177258/29		04/21/2015 23:35	1	P3042129.D	CLP-2 0.53(mm)
MRL 240-177258/30		04/21/2015 23:58	1	P3042130.D	CLP-1 0.53(mm)
MRL 240-177258/30		04/21/2015 23:58	1	P3042130.D	CLP-2 0.53(mm)
MRL 240-177258/31		04/22/2015 00:22	1	P3042131.D	CLP-1 0.53(mm)
MRL 240-177258/31		04/22/2015 00:22	1	P3042131.D	CLP-2 0.53(mm)
240-49071-2 RE	079SS-0342M-0001,0002 -SO RE	04/22/2015 00:45	1	P3042132.D	CLP-1 0.53(mm)
240-49071-2 RE	079SS-0342M-0001,0002 -SO RE	04/22/2015 00:45	1	P3042132.D	CLP-2 0.53(mm)
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/22/2015 01:08	1	P3042133.D	CLP-1 0.53(mm)
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/22/2015 01:08	1	P3042133.D	CLP-2 0.53(mm)
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/22/2015 01:31	1	P3042134.D	CLP-1 0.53(mm)
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/22/2015 01:31	1	P3042134.D	CLP-2 0.53(mm)
ZZZZZ		04/22/2015 01:54	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 01:54	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 02:17	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 02:17	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 02:39	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 02:39	1		CLP-2 0.53(mm)
MB 240-177037/7-A		04/22/2015 03:02	1	P3042138.D	CLP-1 0.53(mm)
MB 240-177037/7-A		04/22/2015 03:02	1	P3042138.D	CLP-2 0.53(mm)
ZZZZZ		04/22/2015 03:25	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 03:25	1		CLP-2 0.53(mm)
CCV 240-177258/40		04/22/2015 03:48	1	P3042140.D	CLP-1 0.53(mm)
CCV 240-177258/40		04/22/2015 03:48	1	P3042140.D	CLP-2 0.53(mm)
ZZZZZ		04/22/2015 04:55	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 04:55	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 05:18	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 05:18	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 05:39	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 05:39	1		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 06:03	5		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 06:03	5		CLP-2 0.53(mm)
MRL 240-177258/47		04/22/2015 06:25	1	P3042147.D	CLP-1 0.53(mm)
MRL 240-177258/47		04/22/2015 06:25	1	P3042147.D	CLP-2 0.53(mm)
MRL 240-177258/48		04/22/2015 06:49	1	P3042148.D	CLP-1 0.53(mm)
MRL 240-177258/48		04/22/2015 06:49	1	P3042148.D	CLP-2 0.53(mm)
MRL 240-177258/49		04/22/2015 07:12	1	P3042149.D	CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Start Date: 04/21/2015 14:22

Analysis Batch Number: 177258 End Date: 04/22/2015 09:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MRL 240-177258/49		04/22/2015 07:12	1	P3042149.D	CLP-2 0.53(mm)
CCV 240-177258/50		04/22/2015 07:36	1		CLP-1 0.53(mm)
CCV 240-177258/50		04/22/2015 07:36	1		CLP-2 0.53(mm)
CCV 240-177258/51		04/22/2015 07:59	1		CLP-1 0.53(mm)
CCV 240-177258/51		04/22/2015 07:59	1		CLP-2 0.53(mm)
CCV 240-177258/52		04/22/2015 08:22	1	P3042152.D	CLP-1 0.53(mm)
CCV 240-177258/52		04/22/2015 08:22	1	P3042152.D	CLP-2 0.53(mm)
CCV 240-177258/53		04/22/2015 08:46	1		CLP-1 0.53(mm)
CCV 240-177258/53		04/22/2015 08:46	1		CLP-2 0.53(mm)
CCV 240-177258/54		04/22/2015 09:08	1		CLP-1 0.53(mm)
CCV 240-177258/54		04/22/2015 09:08	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP3 Start Date: 04/22/2015 16:07

Analysis Batch Number: 177463 End Date: 04/22/2015 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-177463/5		04/22/2015 16:07	1	P3042205.D	CLP-1 0.53(mm)
PEM 240-177463/5		04/22/2015 16:07	1	P3042205.D	CLP-2 0.53(mm)
CCV 240-177463/6 CCVRT		04/22/2015 16:30	1	P3042206.D	CLP-1 0.53(mm)
CCV 240-177463/6 CCVRT		04/22/2015 16:30	1	P3042206.D	CLP-2 0.53(mm)
CCV 240-177463/7 CCVRT		04/22/2015 16:55	1		CLP-1 0.53(mm)
CCV 240-177463/7 CCVRT		04/22/2015 16:55	1		CLP-2 0.53(mm)
CCV 240-177463/8 CCVRT		04/22/2015 17:19	1	P3042208.D	CLP-1 0.53(mm)
CCV 240-177463/8 CCVRT		04/22/2015 17:19	1	P3042208.D	CLP-2 0.53(mm)
ZZZZZ		04/22/2015 18:07	2		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 18:07	2		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 18:30	5		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 18:30	5		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 18:54	10		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 18:54	10		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 19:18	50		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 19:18	50		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 19:42	10		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 19:42	10		CLP-2 0.53(mm)
ZZZZZ		04/22/2015 20:05	1		CLP-1 0.53(mm)
ZZZZZ		04/22/2015 20:05	1		CLP-2 0.53(mm)
CCV 240-177463/16		04/22/2015 20:29	1	P3042216.D	CLP-1 0.53(mm)
CCV 240-177463/16		04/22/2015 20:29	1	P3042216.D	CLP-2 0.53(mm)
MRL 240-177463/17		04/22/2015 20:53	1	P3042217.D	CLP-1 0.53(mm)
MRL 240-177463/17		04/22/2015 20:53	1	P3042217.D	CLP-2 0.53(mm)
MRL 240-177463/18		04/22/2015 21:18	1	P3042218.D	CLP-1 0.53(mm)
MRL 240-177463/18		04/22/2015 21:18	1	P3042218.D	CLP-2 0.53(mm)
LCS 240-177037/8-A		04/22/2015 21:41	1	P3042219.D	CLP-1 0.53(mm)
LCS 240-177037/8-A		04/22/2015 21:41	1	P3042219.D	CLP-2 0.53(mm)
MRL 240-177463/20		04/22/2015 22:04	1	P3042220.D	CLP-1 0.53(mm)
MRL 240-177463/20		04/22/2015 22:04	1	P3042220.D	CLP-2 0.53(mm)
MRL 240-177463/21		04/22/2015 22:27	1	P3042221.D	CLP-1 0.53(mm)
MRL 240-177463/21		04/22/2015 22:27	1	P3042221.D	CLP-2 0.53(mm)
CCV 240-177463/22		04/22/2015 22:50	1	P3042222.D	CLP-1 0.53(mm)
CCV 240-177463/22		04/22/2015 22:50	1	P3042222.D	CLP-2 0.53(mm)
CCV 240-177463/23		04/22/2015 23:14	1		CLP-1 0.53(mm)
CCV 240-177463/23		04/22/2015 23:14	1		CLP-2 0.53(mm)
CCV 240-177463/24		04/22/2015 23:37	1	P3042224.D	CLP-1 0.53(mm)
CCV 240-177463/24		04/22/2015 23:37	1	P3042224.D	CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176059 Batch Start Date: 04/08/15 16:00 Batch Analyst: Jones, Diane

Batch Method: Increment, Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-49071-A-2	079SS-0342M-0001 ,0002-SO	Increment, Prep, 3540C, 8081A	T	Disagg 4/11					

Batch Notes	
First End time	Ground/Sieved 4/9 and 4/11, split 4/13
First Start time	4/8/15

Basis	Basis Description
T	Total/NA

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 177037 Batch Start Date: 04/20/15 11:15 Batch Analyst: Coast, Chris

Batch Method: 3540C Batch End Date: 04/21/15 03:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX2/.2SURRW 00053	exNPDES spike 00003	AnalysisComment	
240-49071-A-2-A	079SS-0342M-0001 ,0002-SO	3540C, 8081A	T	29.51 g	10 mL	1 mL		associate w/ 177040	
240-49071-A-2-A MS	079SS-0342M-0001 ,0002-SO	3540C, 8081A	T	29.58 g	10 mL	1 mL	1 mL		
240-49071-A-2-A MSD	079SS-0342M-0001 ,0002-SO	3540C, 8081A	T	29.62 g	10 mL	1 mL	1 mL		
MB 240-177037/7		3540C, 8081A		30 g	10 mL	1 mL		associate w/ 177040	
LCS 240-177037/8		3540C, 8081A		30 g	10 mL	1 mL	1 mL		

Batch Notes	
Balance ID	1339907
Na2SO4 Lot Number	1942695
Prep Solvent Lot #	1928227

Basis	Basis Description
T	Total/NA

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

Method 8082 DOD

Polychlorinated Biphenyls (PCBs) by Gas Chromatography by Method 8082/DOD

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
079SS-0342M-0001,0002-SO	240-49071-2	74	73	80	70
	MB 240-177040/4-A	115	118	119	116
	LCS 240-177040/5-A	77	81	85	86
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	86	92	87	82
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	79	81	78	73

	QC LIMITS
TCX = Tetrachloro-m-xylene	40-140
DCB = DCB Decachlorobiphenyl	60-125

Column to be used to flag recovery values

FORM II 8082

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
	MRL 240-177609/9	97	96	96	97
	MRL 240-177609/15	101	101	98	98
	MRL 240-177830/19	95	94	100	94

	QC LIMITS
TCX = Tetrachloro-m-xylene	50-150
DCB = DCB Decachlorobiphenyl	50-150

Column to be used to flag recovery values

FORM II 8082

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: P1200039.D

Lab ID: LCS 240-177040/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	333	254	76	40-140	
Aroclor-1260	333	267	80	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P1200041.D

Lab ID: MRL 240-177609/9 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0436 J	87	70-130	
Aroclor-1016	0.0500	0.0522	104	70-130	
Aroclor-1260	0.0500	0.0445 J	89	70-130	
Aroclor-1260	0.0500	0.0459 J	92	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P1200047.D

Lab ID: MRL 240-177609/15 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0470 J	94	70-130	
Aroclor-1016	0.0500	0.0533	107	70-130	
Aroclor-1260	0.0500	0.0481 J	96	70-130	
Aroclor-1260	0.0500	0.0469 J	94	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS METHOD REPORTING LIMIT CHECK RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Water Level: Low Lab File ID: P1200048.D

Lab ID: MRL 240-177830/19 Client ID:

COMPOUND	SPIKE ADDED (ng/uL)	MRL CONCENTRATION (ng/uL)	MRL % REC	QC LIMITS REC	#
Aroclor-1016	0.0500	0.0444 J	89	70-130	
Aroclor-1016	0.0500	0.0478 J	96	70-130	
Aroclor-1260	0.0500	0.0436 J	87	70-130	
Aroclor-1260	0.0500	0.0441 J	88	70-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: P1200043.D

Lab ID: 240-49071-2 MS Client ID: 079SS-0342M-0001,0002-SO MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Aroclor-1016	346	34 U	284	82	40-140	
Aroclor-1260	346	34 U	269	78	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: P1200044.D

Lab ID: 240-49071-2 MSD Client ID: 079SS-0342M-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Aroclor-1016	336	254	76	11	30	40-140	
Aroclor-1260	336	238	71	12	30	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: MB 240-177040/4-A

Matrix: Solid Date Extracted: 04/20/2015 09:04

Lab File ID:(1) P1200045.D Lab File ID:(2) P1200045.D

Date Analyzed:(1) 04/23/2015 20:20 Date Analyzed:(2) 04/23/2015 20:20

Instrument ID:(1) A2HP12 Instrument ID:(2) A2HP12

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) CLP-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
079SS-0342M-0001,0002-SO	240-49071-2	04/23/2015 19:26	04/23/2015 19:26
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	04/23/2015 19:44	04/23/2015 19:44
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	04/23/2015 20:02	04/23/2015 20:02
	LCS 240-177040/5-A	04/24/2015 19:08	04/24/2015 19:08

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD05 240-177497/31 Date Analyzed: 04/23/2015 01:58

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1200031.D Heated Purge: (Y/N) N

Calibration ID: 28067

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		112838549	3.06				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-177497/34		101265924	3.06				
ICV 240-177497/35		94448576	3.06				
ICV 240-177497/36		113245885	3.06				
ICV 240-177497/37		100476911	3.06				
ICV 240-177497/38		122923849	3.06				
ICV 240-177497/39		120362952	3.06				
ICV 240-177497/40		110991859	3.06				
ICV 240-177497/41		92306438	3.06				

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: STD05 240-177497/31 Date Analyzed: 04/23/2015 01:58

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1200031.D Heated Purge: (Y/N) N

Calibration ID: 28068

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		87214525	3.60				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-177497/34		78438556	3.60				
ICV 240-177497/35		74457143	3.60				
ICV 240-177497/36		87805407	3.60				
ICV 240-177497/37		78412188	3.60				
ICV 240-177497/38		94578482	3.60				
ICV 240-177497/39		92554572	3.60				
ICV 240-177497/40		86135796	3.60				
ICV 240-177497/41		72484441	3.60				

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177609/3 Date Analyzed: 04/23/2015 17:19

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1200035.D Heated Purge: (Y/N) N

Calibration ID: 28067

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		85040902	3.06				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
RTC 240-177609/4 CCV		86142165	3.06				
RTC 240-177609/5 CCV		85788849	3.06				
RTC 240-177609/6 CCV		88689981	3.06				
RTC 240-177609/7 CCV		85974595	3.06				
MRL 240-177609/9		102134958	3.06				
240-49071-2	079SS-0342M-0001,0002-SO	93802149	3.06				
240-49071-2 MS	079SS-0342M-0001,0002-SO MS	90134001	3.06				
240-49071-2 MSD	079SS-0342M-0001,0002-SO MSD	94516636	3.06				
MB 240-177040/4-A		77882584	3.06				
MRL 240-177609/15		98337132	3.06				
CCV 240-177609/16		87543112	3.06				

Column used to flag values outside QC limits

FORM VIII 8082

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177609/3 Date Analyzed: 04/23/2015 17:19

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1200035.D Heated Purge: (Y/N) N

Calibration ID: 28068

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		65927587	3.60				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
RTC 240-177609/4 CCV		67618637	3.60				
RTC 240-177609/5 CCV		67905971	3.60				
RTC 240-177609/6 CCV		69571483	3.60				
RTC 240-177609/7 CCV		67846022	3.60				
MRL 240-177609/9		79046088	3.60				
240-49071-2	079SS-0342M-0001,0002-SO	71442401	3.60				
240-49071-2 MS	079SS-0342M-0001,0002-SO MS	69047454	3.60				
240-49071-2 MSD	079SS-0342M-0001,0002-SO MSD	71966580	3.60				
MB 240-177040/4-A		60796595	3.60				
MRL 240-177609/15		76915427	3.60				
CCV 240-177609/16		67782080	3.60				

Column used to flag values outside QC limits

FORM VIII 8082

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177830/3 Date Analyzed: 04/24/2015 17:01

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P1200032.D Heated Purge: (Y/N) N

Calibration ID: 28067

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		82731995	3.06				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
RTC 240-177830/4 CCV		85391083	3.06				
RTC 240-177830/5 CCV		84126891	3.06				
RTC 240-177830/6 CCV		86878859	3.06				
RTC 240-177830/7 CCV		86589698	3.06				
LCS 240-177040/5-A		92900789	3.06				
CCV 240-177830/11		87008976	3.06				
MRL 240-177830/19		102543806	3.06				

Column used to flag values outside QC limits

FORM VIII 8082

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 240-177830/3 Date Analyzed: 04/24/2015 17:01

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1200032.D Heated Purge: (Y/N) N

Calibration ID: 28068

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		65114592	3.60				
UPPER LIMIT							
LOWER LIMIT							
LAB SAMPLE ID	CLIENT SAMPLE ID						
RTC 240-177830/4 CCV		66459192	3.60				
RTC 240-177830/5 CCV		65687938	3.60				
RTC 240-177830/6 CCV		68819071	3.60				
RTC 240-177830/7 CCV		67942918	3.60				
LCS 240-177040/5-A		72964154	3.60				
CCV 240-177830/11		68007460	3.60				
MRL 240-177830/19		80175418	3.60				

Column used to flag values outside QC limits

FORM VIII 8082

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO MS Lab Sample ID: 240-49071-2 MS

Instrument ID (1): A2HP12 Instrument ID (2): A2HP12

Date Analyzed (1): 04/23/2015 19:44 Date Analyzed (2): 04/23/2015 19:44

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	5.83	5.80	5.86	263	284	4.2
		2	6.43	6.40	6.46	346		
		3	7.06	7.03	7.09	292		
		4	7.24	7.21	7.27	263		
		5	7.51	7.48	7.54	257		
	2	1	4.91	4.88	4.94	301	296	
		2	5.43	5.40	5.46	291		
		3	6.07	6.04	6.10	371		
		4	6.25	6.22	6.28	223		
Aroclor-1260	1	1	9.43	9.40	9.46	269	269	1.2
		2	9.68	9.65	9.71	274		
		3	10.11	10.08	10.14	275		
		4	10.83	10.80	10.86	266		
		5	11.20	11.17	11.23	259		
	2	1	8.33	8.30	8.36	262	272	
		2	8.68	8.65	8.71	288		
		3	9.00	8.97	9.03	277		
		4	9.81	9.78	9.84	252		
		5	10.14	10.11	10.17	280		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO MS Lab Sample ID: 240-49071-2 MSD

Instrument ID (1): A2HP12 Instrument ID (2): A2HP12

Date Analyzed (1): 04/23/2015 20:02 Date Analyzed (2): 04/23/2015 20:02

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	5.83	5.80	5.86	245	254	0.7
		2	6.43	6.40	6.46	313		
		3	7.06	7.03	7.09	257		
		4	7.24	7.21	7.27	231		
		5	7.51	7.48	7.54	227		
	2	1	4.91	4.88	4.94	253	253	
		2	5.43	5.40	5.46	257		
		3	6.08	6.04	6.10	306		
		4	6.25	6.22	6.28	194		
Aroclor-1260	1	1	9.43	9.40	9.46	245	238	1.4
		2	9.68	9.65	9.71	243		
		3	10.11	10.08	10.14	246		
		4	10.83	10.80	10.86	228		
		5	11.20	11.17	11.23	227		
	2	1	8.33	8.30	8.36	230	241	
		2	8.67	8.65	8.71	255		
		3	9.00	8.97	9.03	248		
		4	9.81	9.78	9.84	224		
		5	10.14	10.11	10.17	246		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-177040/5-A

Instrument ID (1): A2HP12 Instrument ID (2): A2HP12

Date Analyzed (1): 04/24/2015 19:08 Date Analyzed (2): 04/24/2015 19:08

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor-1016	1	1	5.83	5.80	5.86	223	254	1.0
		2	6.43	6.40	6.46	300		
		3	7.06	7.02	7.08	266		
		4	7.24	7.20	7.26	239		
		5	7.51	7.48	7.54	243		
	2	1	4.91	4.88	4.94	248	257	
		2	5.43	5.40	5.46	255		
		3	6.07	6.04	6.10	291		
		4	6.25	6.22	6.28	240		
		5	6.33	6.30	6.36	250		
Aroclor-1260	1	1	9.42	9.39	9.45	264	267	1.5
		2	9.68	9.65	9.71	264		
		3	10.11	10.08	10.14	289		
		4	10.83	10.79	10.85	264		
		5	11.20	11.17	11.23	253		
	2	1	8.33	8.30	8.36	260	271	
		2	8.67	8.64	8.70	276		
		3	9.00	8.97	9.03	279		
		4	9.81	9.78	9.84	256		
		5	10.14	10.11	10.17	282		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2

Matrix: Solid Lab File ID: P1200042.D

Analysis Method: 8082 Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:04

Sample wt/vol: 29.51(g) Date Analyzed: 04/23/2015 19:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177609 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	73		40-140
2051-24-3	DCB Decachlorobiphenyl	70		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200042.D
Lims ID: 240-49071-A-2-S Lab Sample ID: 240-49071-2
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: Client
Inject. Date: 23-Apr-2015 19:26:23 ALS Bottle#: 42 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-010
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:16:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total						
1		1.000			ND	
* 14 1-Bromo-2-nitrobenzene						
1	3.060	3.058	0.002	93802149	0.0500	
2	3.597	3.596	0.001	71442401	0.0500	
$ 2 Tetrachloro-m-xylene						
1	4.320	4.318	0.002	23180955	0.0146	
2	5.027	5.027	0.000	18640940	0.0147	
					RPD = 0.81	
3 PCB-1221						
1		4.630			ND	
1		4.849				
1		4.906				
2		5.532				
2		5.747				
2		5.834				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
6 PCB-1016						
1		4.907			ND	
1		5.427				
1		6.073				
1		6.250				
1		6.331				
2		5.834				
2		6.431				
2		7.056				
2		7.237				
2		7.514				
5 PCB-1242						
1		4.908			ND	
1		5.427				
1		6.074				
1		6.250				
1		6.331				
2		5.835				
2		6.430				
2		7.055				
2		7.236				
2		7.514				
4 PCB-1232						
1		4.908			ND	
1		5.428				
1		6.074				
1		6.250				
1		6.797				
2		5.835				
2		6.430				
2		7.055				
2		7.235				
2		7.514				
7 PCB-1248						
1		5.426			ND	
1		6.797				
1		7.371				
1		7.619				
1		8.106				
2		7.052				
2		7.513				
2		8.005				
2		8.389				
2		9.187				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
8 PCB-1254						
1		7.288			ND	
1		7.622				
1		8.106				
1		8.447				
1		9.005				
2		8.384				
2		8.628				
2		9.187				
2		9.464				
2		10.111				
10 PCB-1260						
1		8.334			ND	
1		8.675				
1		9.004				
1		9.808				
1		10.138				
2		9.426				
2		9.682				
2		10.110				
2		10.827				
2		11.203				
9 PCB-1262						
1		8.675			ND	
1		9.148				
1		9.435				
1		9.807				
1		10.185				
2		9.681				
2		10.218				
2		10.551				
2		10.826				
2		11.200				
11 PCB-1268						
1		10.185			ND	
1		10.229				
1		10.446				
1		10.835				
1		11.126				
2		11.196				
2		11.241				
2		11.491				
2		11.765				
2		12.066				
$ 12 DCB Decachlorobiphenyl						
1	11.315	11.313	0.002	23417905	0.0139	
2	12.299	12.298	0.001	17219277	0.0160	
					RPD = 13.67	
16 1260 Res 1						
1	10.145	10.138	0.008	178463	NR	
2	9.682	9.682	0.000	912221	NR	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
13 1260 Res 2						
1	10.198	10.185	0.013	39028		NR
2	9.770	9.778	-0.009	1482398		NR
15 1260 Res 3						
1		10.235			ND	
2		9.798				

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

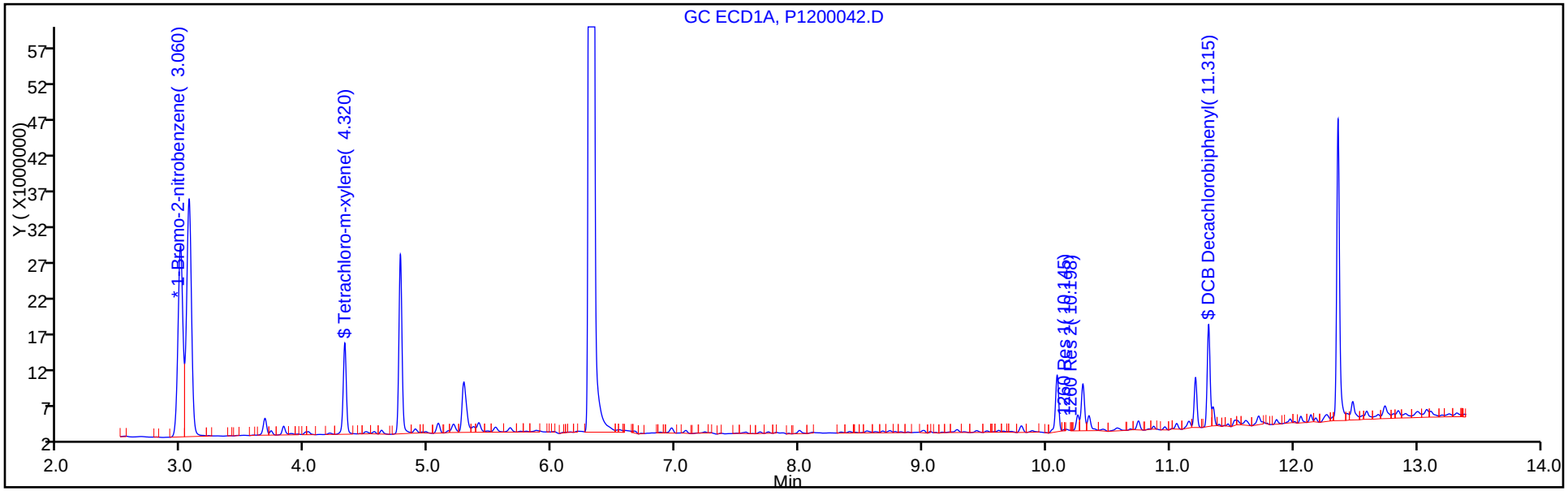
Report Date: 24-Apr-2015 10:24:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

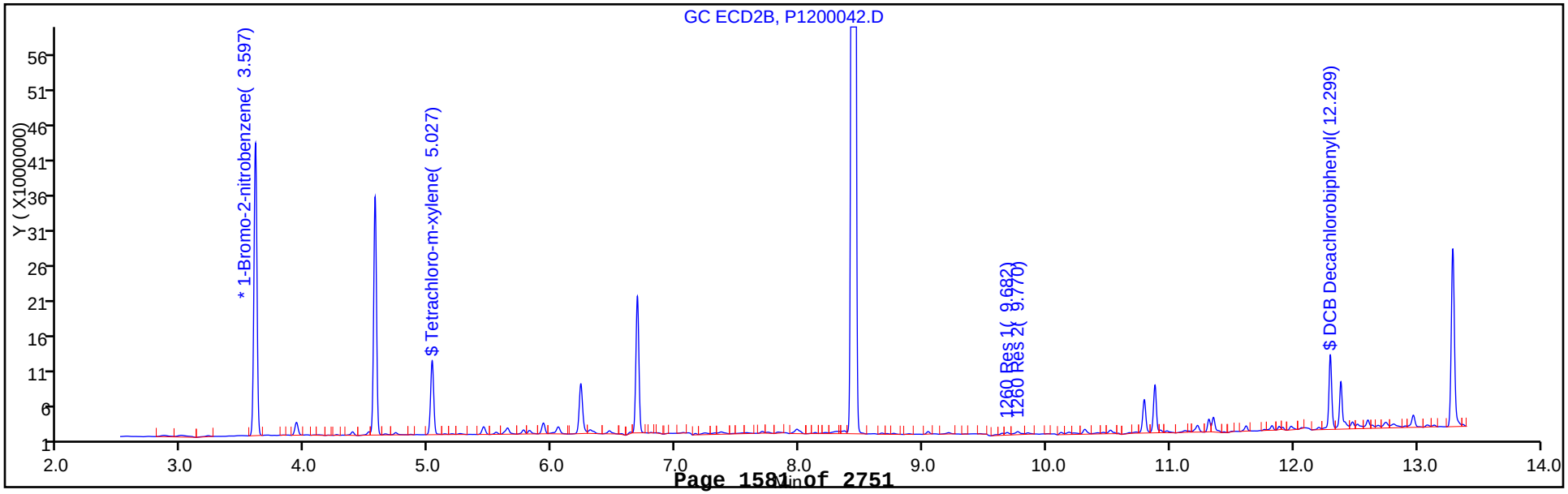
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200042.D

Injection Date:	23-Apr-2015 19:26:23	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	240-49071-A-2-S	Lab Sample ID:	240-49071-2	Worklist Smp#:	10
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2

Matrix: Solid | Lab File ID: P1200042.D

Analysis Method: 8082 | Date Collected: 04/06/2015 16:30

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:04

Sample wt/vol: 29.51(g) | Date Analyzed: 04/23/2015 19:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177609 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	34	U	52	34	17
12674-11-2	Aroclor-1016	34	U	68	34	12
11141-16-5	Aroclor-1232	34	U	47	34	21
53469-21-9	Aroclor-1242	34	U	42	34	11
12672-29-6	Aroclor-1248	34	U	57	34	8.3
11097-69-1	Aroclor-1254	34	U	57	34	15
11096-82-5	Aroclor-1260	34	U	57	34	9.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	74		40-140
2051-24-3	DCB Decachlorobiphenyl	80		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200042.D
Lims ID: 240-49071-A-2-S Lab Sample ID: 240-49071-2
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: Client
Inject. Date: 23-Apr-2015 19:26:23 ALS Bottle#: 42 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-010
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:16:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total						
1		1.000			ND	
* 14 1-Bromo-2-nitrobenzene						
1	3.060	3.058	0.002	93802149	0.0500	
2	3.597	3.596	0.001	71442401	0.0500	
$ 2 Tetrachloro-m-xylene						
1	4.320	4.318	0.002	23180955	0.0146	
2	5.027	5.027	0.000	18640940	0.0147	
					RPD = 0.81	
3 PCB-1221						
1		4.630			ND	
1		4.849				
1		4.906				
2		5.532				
2		5.747				
2		5.834				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
6 PCB-1016						
1		4.907			ND	
1		5.427				
1		6.073				
1		6.250				
1		6.331				
2		5.834				
2		6.431				
2		7.056				
2		7.237				
2		7.514				
5 PCB-1242						
1		4.908			ND	
1		5.427				
1		6.074				
1		6.250				
1		6.331				
2		5.835				
2		6.430				
2		7.055				
2		7.236				
2		7.514				
4 PCB-1232						
1		4.908			ND	
1		5.428				
1		6.074				
1		6.250				
1		6.797				
2		5.835				
2		6.430				
2		7.055				
2		7.235				
2		7.514				
7 PCB-1248						
1		5.426			ND	
1		6.797				
1		7.371				
1		7.619				
1		8.106				
2		7.052				
2		7.513				
2		8.005				
2		8.389				
2		9.187				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
8 PCB-1254						
1		7.288			ND	
1		7.622				
1		8.106				
1		8.447				
1		9.005				
2		8.384				
2		8.628				
2		9.187				
2		9.464				
2		10.111				
10 PCB-1260						
1		8.334			ND	
1		8.675				
1		9.004				
1		9.808				
1		10.138				
2		9.426				
2		9.682				
2		10.110				
2		10.827				
2		11.203				
9 PCB-1262						
1		8.675			ND	
1		9.148				
1		9.435				
1		9.807				
1		10.185				
2		9.681				
2		10.218				
2		10.551				
2		10.826				
2		11.200				
11 PCB-1268						
1		10.185			ND	
1		10.229				
1		10.446				
1		10.835				
1		11.126				
2		11.196				
2		11.241				
2		11.491				
2		11.765				
2		12.066				
$ 12 DCB Decachlorobiphenyl						
1	11.315	11.313	0.002	23417905	0.0139	
2	12.299	12.298	0.001	17219277	0.0160	
					RPD = 13.67	
16 1260 Res 1						
1	10.145	10.138	0.008	178463	NR	
2	9.682	9.682	0.000	912221	NR	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
13 1260 Res 2						
1	10.198	10.185	0.013	39028		NR
2	9.770	9.778	-0.009	1482398		NR
15 1260 Res 3						
1		10.235			ND	
2		9.798				

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

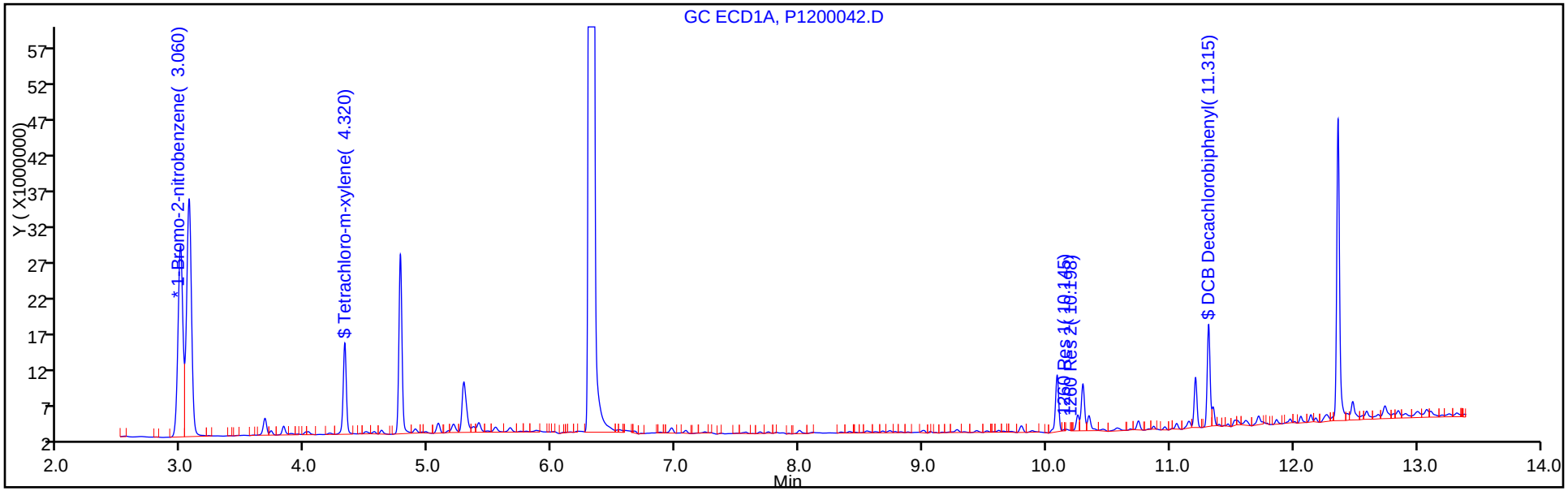
Report Date: 24-Apr-2015 10:24:12 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

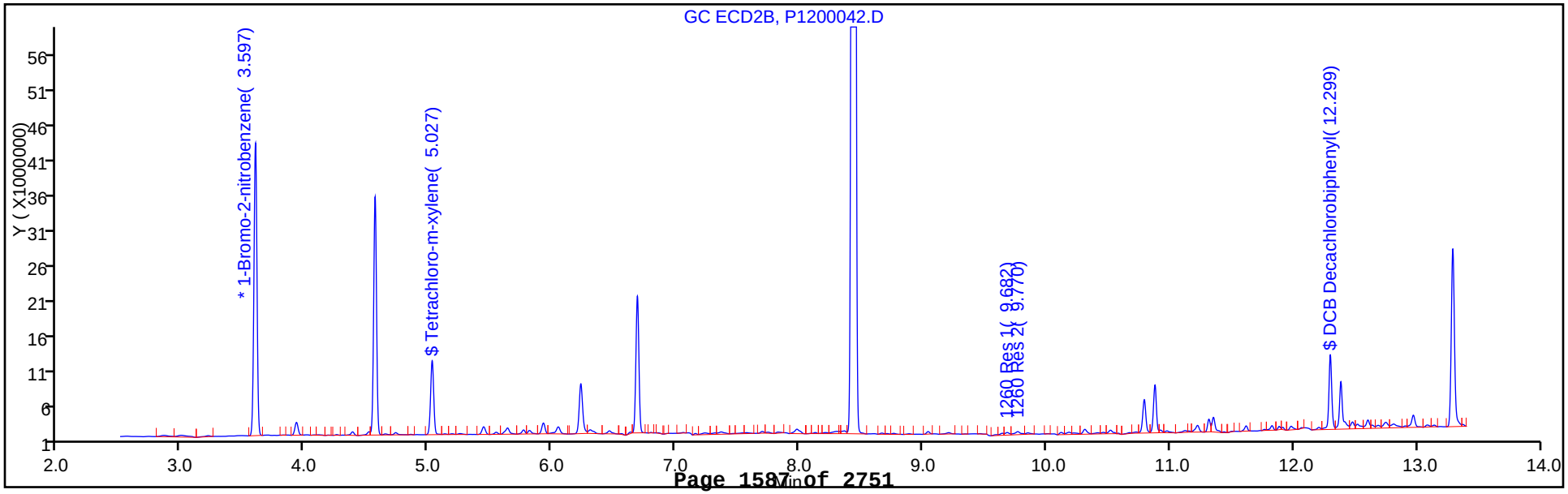
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200042.D

Injection Date:	23-Apr-2015 19:26:23	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	240-49071-A-2-S	Lab Sample ID:	240-49071-2	Worklist Smp#:	10
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 17:49 Calibration End Date: 04/22/2015 19:20 Calibration ID: 28043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/4	P1200004.D
Level 2	STD01 240-177497/5	P1200005.D
Level 3	STD02 240-177497/6	P1200006.D
Level 4	STD05 240-177497/7	P1200007.D
Level 5	STD1 240-177497/8	P1200008.D
Level 6	STD2 240-177497/9	P1200009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0224 0.0178	0.0202	0.0157	0.0175	0.0161	Ave		0.0183				14.1		20.0			
PCB-1232 Peak 2	0.0170 0.0132	0.0159	0.0120	0.0131	0.0120	Ave		0.0139				15.0		20.0			
PCB-1232 Peak 3	0.0165 0.0237	0.0211	0.0178	0.0212	0.0206	Ave		0.0201				12.9		20.0			
PCB-1232 Peak 4	0.0137 0.0123	0.0144	0.0108	0.0122	0.0116	Ave		0.0125				10.6		20.0			
PCB-1232 Peak 5	0.0138 0.0115	0.0127	0.0100	0.0114	0.0106	Ave		0.0117				11.9		20.0			
PCB-1262 Peak 1	0.0488 0.0470	0.0442	0.0352	0.0429	0.0410	Ave		0.0432				11.2		20.0			
PCB-1262 Peak 2	0.0564 0.0581	0.0484	0.0437	0.0535	0.0526	Ave		0.0521				10.1		20.0			
PCB-1262 Peak 3	0.0573 0.0577	0.0527	0.0428	0.0529	0.0501	Ave		0.0522				10.5		20.0			
PCB-1262 Peak 4	0.1088 0.1231	0.1060	0.0861	0.1089	0.1053	Ave		0.1064				11.2		20.0			
PCB-1262 Peak 5	0.0436 0.0462	0.0420	0.0341	0.0414	0.0397	Ave		0.0412				10.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 17:49 Calibration End Date: 04/22/2015 19:20 Calibration ID: 28043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/4	P1200004.D
Level 2	STD01 240-177497/5	P1200005.D
Level 3	STD02 240-177497/6	P1200006.D
Level 4	STD05 240-177497/7	P1200007.D
Level 5	STD1 240-177497/8	P1200008.D
Level 6	STD2 240-177497/9	P1200009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	1843315 56740654	3461841	6578426	15609775	29189189	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	1394999 42114077	2725186	5031940	11733258	21716102	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	1350966 75483206	3631548	7447308	18912166	37273817	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	1127476 39400801	2471268	4529987	10921017	21053691	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Ave	1134211 36825563	2182713	4188421	10181723	19257063	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	4010327 150024907	7600918	14755872	38280497	74275548	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	4630165 185406853	8321074	18335926	47745785	95175979	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	4702593 184057970	9050894	17939294	47190166	90751979	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	8936184 392916864	18206589	36083040	97191970	190785015	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	3582627 147516287	7209213	14275006	36960661	71864297	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200004.D
Lims ID: STD005 1232 1262
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 17:49:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-004
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:27:54 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:53:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.078	3.078	0.000	82119895	0.0500	0.0500	
2	3.595	3.595	0.000	68491725	0.0500	0.0500	
4 PCB-1232							
1	4.922	4.922	0.000	1843315	0.0500	0.0614	
1	5.443	5.443	0.000	1394999	0.0500	0.0613	
1	6.095	6.095	0.000	1350966	0.0500	0.0409	
1	6.264	6.264	0.000	1127476	0.0500	0.0548	
1	6.813	6.813	0.000	1134211	0.0500	0.0591	
		Average of Peak Amounts =				0.0555	
2	5.833	5.833	0.000	1624692	0.0500	0.0645	
2	6.434	6.434	0.000	786212	0.0500	0.0520	
2	7.053	7.053	0.000	2371870	0.0500	0.0593	
2	7.234	7.234	0.000	1015881	0.0500	0.0607	
2	7.511	7.511	0.000	564113	0.0500	0.0497	
		Average of Peak Amounts =				0.0572	
						RPD = 3.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.693	8.693	0.000	4010327	0.0500	0.0565	
1	9.166	9.166	0.000	4630165	0.0500	0.0541	
1	9.453	9.453	0.000	4702593	0.0500	0.0548	
1	9.827	9.827	0.000	8936184	0.0500	0.0512	
1	10.203	10.203	0.000	3582627	0.0500	0.0530	
		Average of Peak Amounts =				0.0539	
2	9.678	9.678	0.000	2833104	0.0500	0.0602	
2	10.217	10.217	0.000	3816821	0.0500	0.0581	
2	10.548	10.548	0.000	3609142	0.0500	0.0575	
2	10.823	10.823	0.000	6852168	0.0500	0.0542	
2	11.198	11.198	0.000	5016848	0.0500	0.0561	
		Average of Peak Amounts =				0.0572	
						RPD = 5.95	

Reagents:

SG3262@.05PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

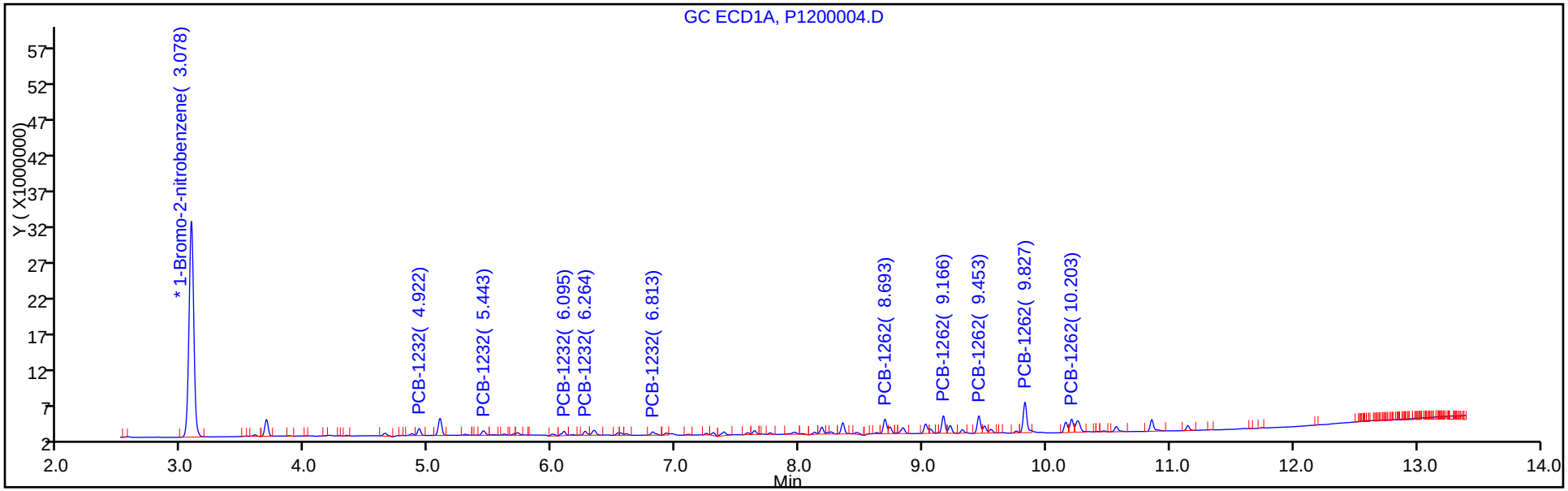
Report Date: 23-Apr-2015 06:27:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

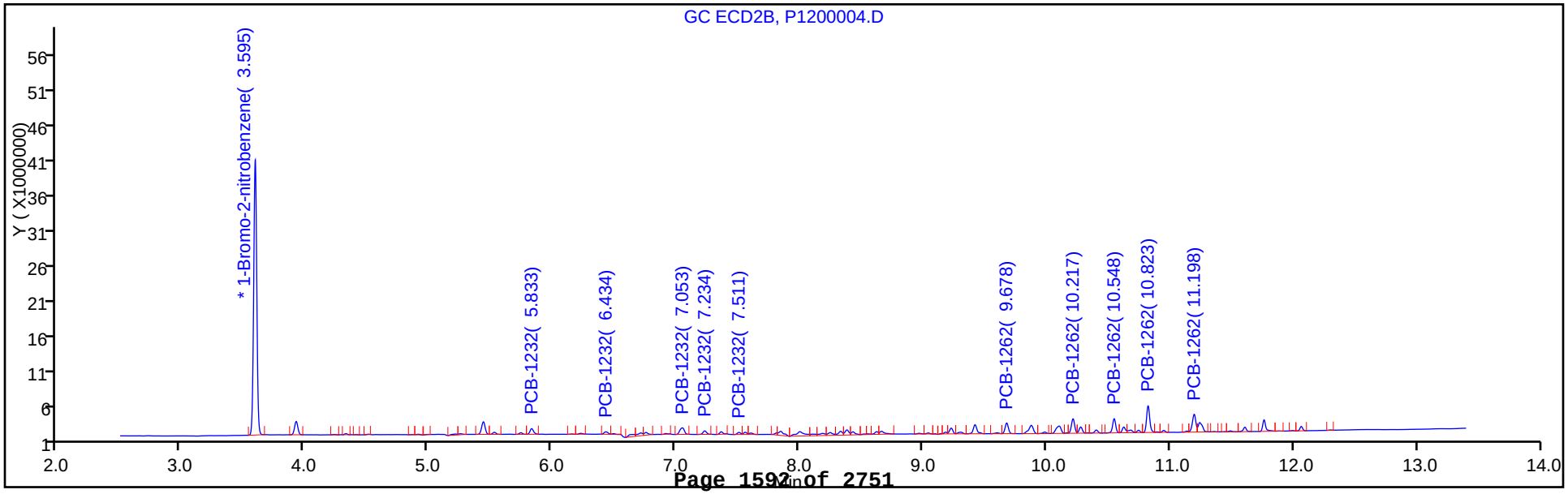
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200004.D

Injection Date:	22-Apr-2015 17:49:30	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1232 1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200005.D
Lims ID: STD01 1232 1262
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 18:07:44 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-005
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:27:56 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:16:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.079	3.083	-0.004	85901701	0.0500	0.0500	
2	3.595	3.593	0.001	71398853	0.0500	0.0500	
4 PCB-1232							M
1	4.923	4.922	0.001	3461841	0.1000	0.1102	
1	5.444	5.443	0.001	2725186	0.1000	0.1144	
1	6.095	6.095	0.000	3631548	0.1000	0.1050	
1	6.267	6.264	0.003	2471268	0.1000	0.1149	
1	6.814	6.813	0.001	2182713	0.1000	0.1088	
		Average of Peak Amounts =				0.1107	
2	5.833	5.833	0.000	3026790	0.1000	0.1152	
2	6.434	6.434	0.000	1410619	0.1000	0.0894	M
2	7.053	7.053	0.000	4598796	0.1000	0.1103	
2	7.234	7.234	0.000	1828453	0.1000	0.1048	
2	7.512	7.511	0.001	982206	0.1000	0.1070	
		Average of Peak Amounts =				0.1053	
						RPD = 4.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.695	8.693	0.002	7600918	0.1000	0.1024	
1	9.168	9.166	0.002	8321074	0.1000	0.0929	
1	9.456	9.453	0.003	9050894	0.1000	0.1009	
1	9.828	9.827	0.001	18206589	0.1000	0.0996	
1	10.207	10.203	0.004	7209213	0.1000	0.1019	
		Average of Peak Amounts =				0.0996	
2	9.679	9.678	0.001	5358423	0.1000	0.1093	
2	10.216	10.217	-0.001	7303281	0.1000	0.1066	
2	10.550	10.548	0.002	6935213	0.1000	0.1060	
2	10.824	10.823	0.001	13599641	0.1000	0.1032	
2	11.197	11.198	-0.001	9725650	0.1000	0.1043	
		Average of Peak Amounts =				0.1059	
						RPD = 6.15	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG3262@0.1PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

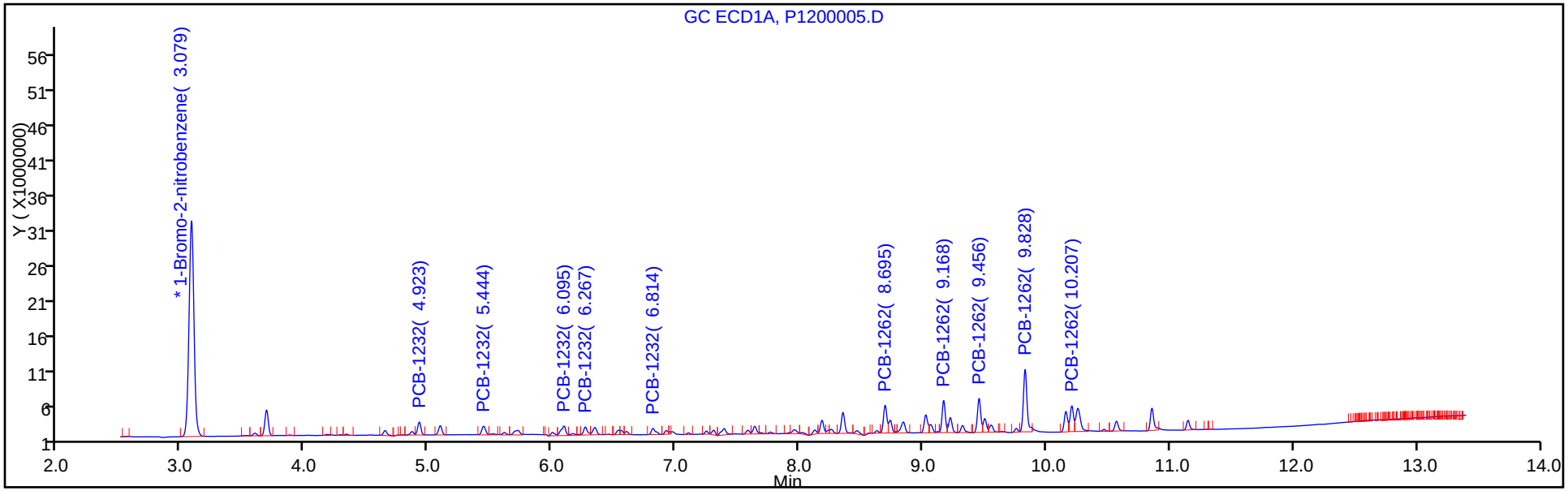
Report Date: 23-Apr-2015 06:27:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

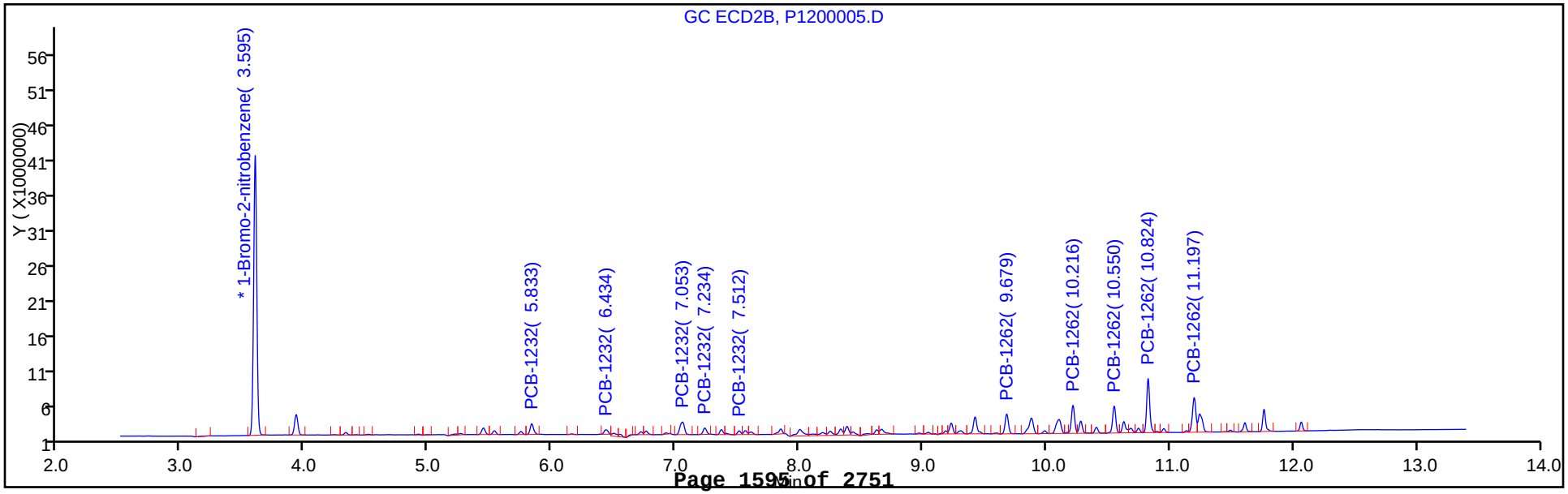
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200005.D

Injection Date:	22-Apr-2015 18:07:44	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1232 1262			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200006.D
Lims ID: STD02 1232 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 18:25:48 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-006
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:27:58 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.080	3.083	-0.003	104807125	0.0500	0.0500	
2	3.595	3.593	0.002	86994777	0.0500	0.0500	
4 PCB-1232							
1	4.924	4.922	0.002	6578426	0.2000	0.1717	
1	5.445	5.443	0.002	5031940	0.2000	0.1731	
1	6.095	6.095	0.000	7447308	0.2000	0.1765	
1	6.267	6.264	0.003	4529987	0.2000	0.1726	
1	6.815	6.813	0.002	4188421	0.2000	0.1711	
		Average of Peak Amounts =				0.1730	
2	5.833	5.833	0.000	5619285	0.2000	0.1755	
2	6.434	6.434	0.000	4256748	0.2000	0.2215	
2	7.054	7.053	0.001	8799581	0.2000	0.1732	
2	7.235	7.234	0.001	3847048	0.2000	0.1810	
2	7.512	7.511	0.001	1825697	0.2000	0.1821	
		Average of Peak Amounts =				0.1866	
						RPD = 7.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.696	8.693	0.003	14755872	0.2000	0.1630	
1	9.169	9.166	0.003	18335926	0.2000	0.1678	
1	9.455	9.453	0.002	17939294	0.2000	0.1638	
1	9.829	9.827	0.002	36083040	0.2000	0.1618	
1	10.207	10.203	0.004	14275006	0.2000	0.1655	
		Average of Peak Amounts =				0.1644	
2	9.679	9.678	0.001	10247282	0.2000	0.1715	
2	10.216	10.217	-0.001	14341533	0.2000	0.1719	
2	10.550	10.548	0.002	13649072	0.2000	0.1713	
2	10.825	10.823	0.002	27452176	0.2000	0.1709	
2	11.197	11.198	-0.001	19481198	0.2000	0.1714	
		Average of Peak Amounts =				0.1714	
						RPD = 4.18	

Reagents:

SG3262@.2PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

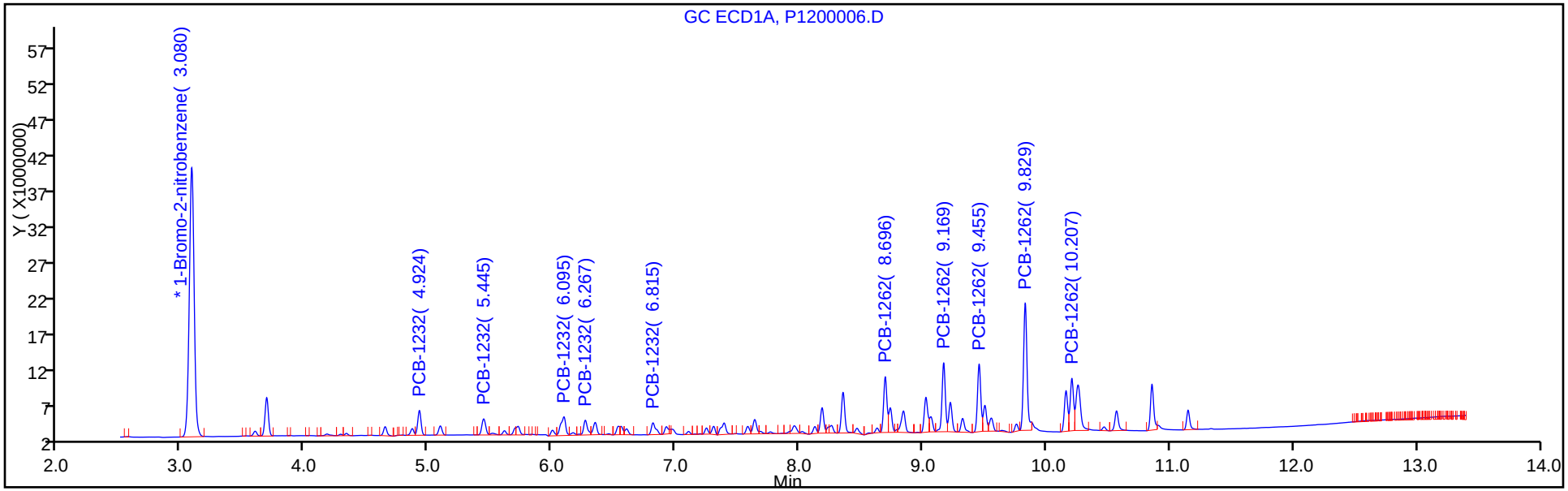
Report Date: 23-Apr-2015 06:28:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

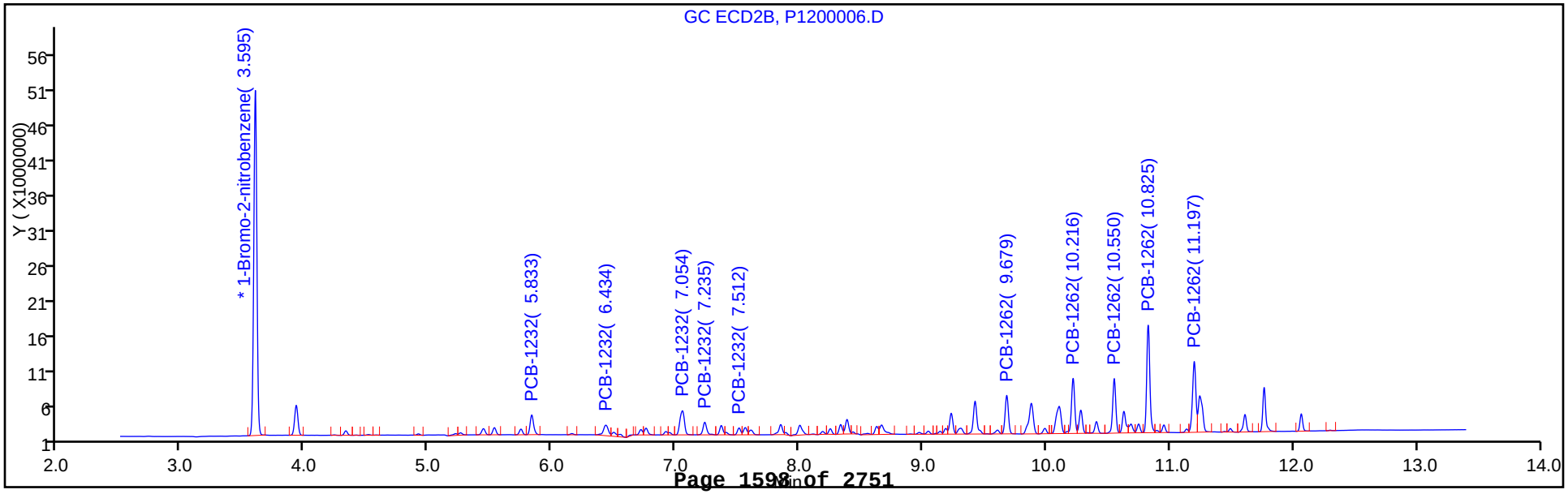
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200006.D

Injection Date:	22-Apr-2015 18:25:48	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1232 1262			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200007.D
Lims ID: STD05 1232 1262
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2015 18:43:51 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-007
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:52:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.078	3.083	-0.005	89246622	0.0500	0.0500	
2	3.593	3.593	-0.001	75488247	0.0500	0.0500	
4 PCB-1232							
1	4.923	4.922	0.001	15609775	0.5000	0.4784	
1	5.443	5.443	0.000	11733258	0.5000	0.4741	
1	6.094	6.095	-0.001	18912166	0.5000	0.5264	
1	6.268	6.264	0.004	10921017	0.5000	0.4886	
1	6.815	6.813	0.002	10181723	0.5000	0.4883	
		Average of Peak Amounts =				0.4912	
2	5.832	5.833	-0.001	13091448	0.5000	0.4712	
2	6.431	6.434	-0.003	8826383	0.5000	0.5293	
2	7.052	7.053	-0.001	21311087	0.5000	0.4833	
2	7.233	7.234	-0.001	9080648	0.5000	0.4922	
2	7.510	7.511	-0.001	4099830	0.5000	0.5281	
		Average of Peak Amounts =				0.5008	
						RPD = 1.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.695	8.693	0.002	38280497	0.5000	0.4965	
1	9.168	9.166	0.002	47745785	0.5000	0.5133	
1	9.456	9.453	0.003	47190166	0.5000	0.5062	
1	9.828	9.827	0.001	97191970	0.5000	0.5119	
1	10.208	10.203	0.005	36960661	0.5000	0.5031	
		Average of Peak Amounts =				0.5062	
2	9.678	9.678	0.000	25017509	0.5000	0.4825	
2	10.215	10.217	-0.002	35502280	0.5000	0.4903	
2	10.549	10.548	0.001	34042487	0.5000	0.4922	
2	10.823	10.823	0.000	70177782	0.5000	0.5035	
2	11.197	11.198	-0.001	48615480	0.5000	0.4931	
		Average of Peak Amounts =				0.4923	
						RPD = 2.77	

Reagents:

SG3262@0.5PPM_00004	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

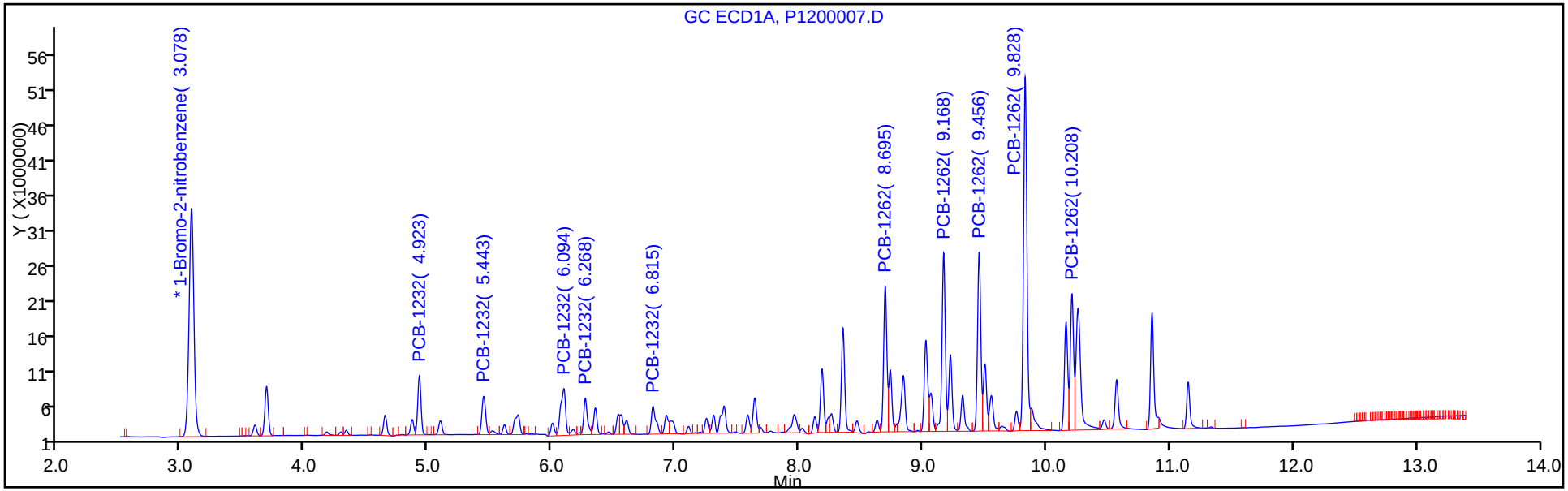
Report Date: 23-Apr-2015 06:28:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

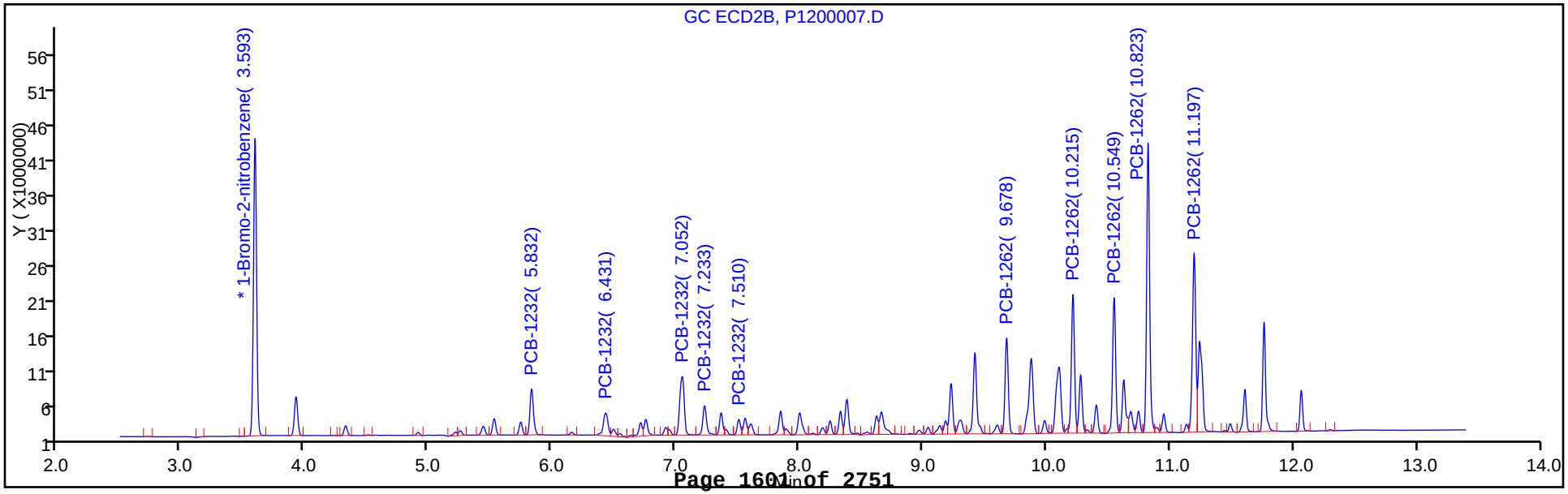
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200007.D

Injection Date:	22-Apr-2015 18:43:51	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1232 1262			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200008.D
Lims ID: STD1 1232 1262
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2015 19:02:09 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-008
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:04 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:20:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.085	3.083	0.001	90556939	0.0500	0.0500	
2	3.596	3.593	0.002	76892530	0.0500	0.0500	
4 PCB-1232							
1	4.926	4.922	0.004	29189189	1.00	0.8817	
1	5.446	5.443	0.003	21716102	1.00	0.8648	
1	6.096	6.095	0.001	37273817	1.00	1.02	
1	6.270	6.264	0.006	21053691	1.00	0.9284	
1	6.817	6.813	0.004	19257063	1.00	0.9102	
		Average of Peak Amounts =				0.9215	
2	5.833	5.833	0.000	23858392	1.00	0.8431	
2	6.432	6.434	-0.002	15646623	1.00	0.9212	
2	7.054	7.053	0.001	40426166	1.00	0.9001	
2	7.234	7.234	0.000	16816660	1.00	0.8949	
2	7.511	7.511	0.000	7343285	1.00	0.9558	
		Average of Peak Amounts =				0.9030	
						RPD = 2.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.698	8.693	0.005	74275548	1.00	0.9493	
1	9.171	9.166	0.005	95175979	1.00	1.01	
1	9.458	9.453	0.005	90751979	1.00	0.9593	
1	9.831	9.827	0.004	190785015	1.00	0.99	
1	10.209	10.203	0.006	71864297	1.00	0.9640	
		Average of Peak Amounts =				0.9743	
2	9.680	9.678	0.002	47514659	1.00	0.8997	
2	10.216	10.217	-0.001	67865054	1.00	0.9200	
2	10.549	10.548	0.001	65224987	1.00	0.9259	
2	10.824	10.823	0.001	135893925	1.00	0.9572	
2	11.196	11.198	-0.002	94660216	1.00	0.9425	
		Average of Peak Amounts =				0.9291	
						RPD = 4.75	

Reagents:

SG3262@1.0PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

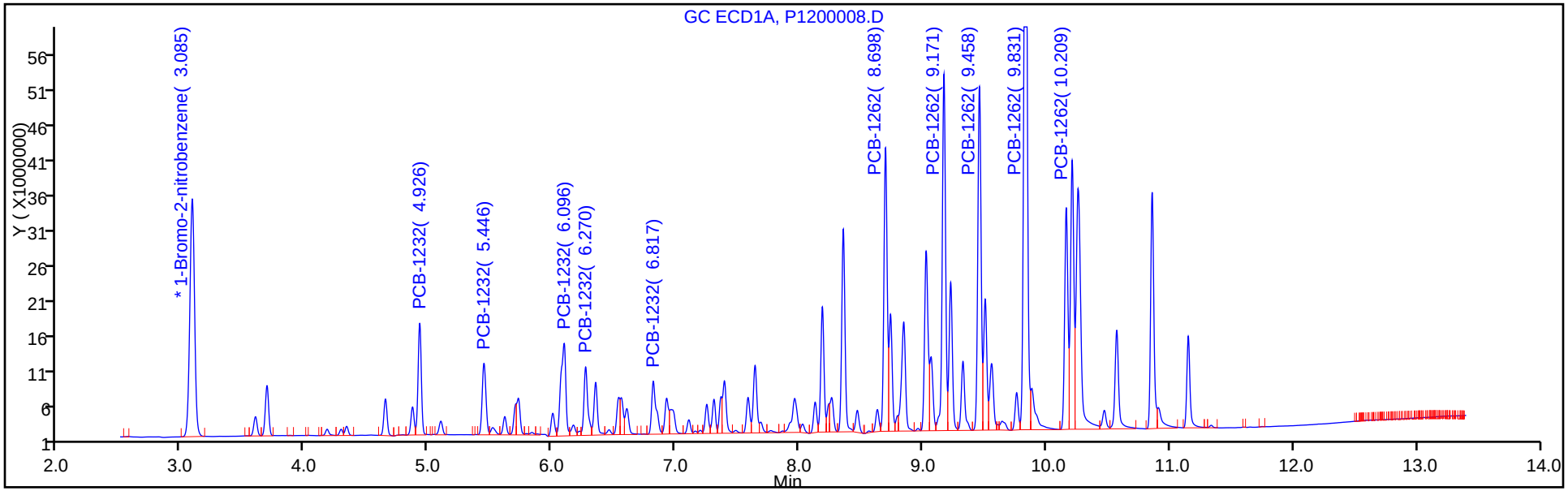
Report Date: 23-Apr-2015 06:28:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

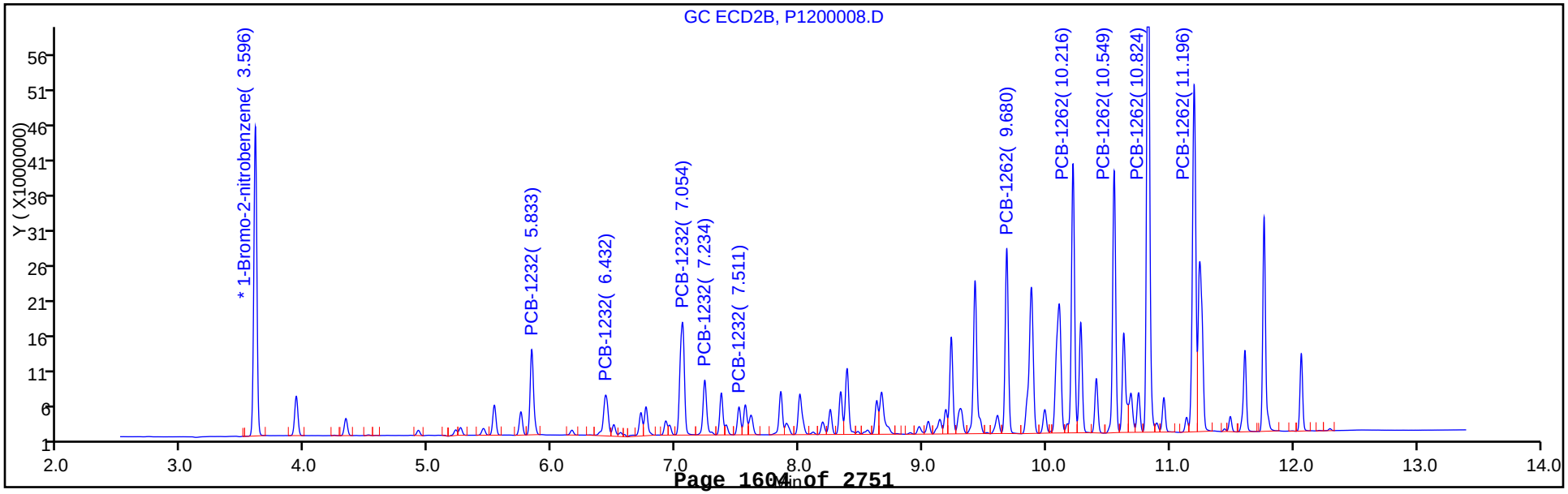
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200008.D

Injection Date:	22-Apr-2015 19:02:09	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1232 1262			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200009.D
Lims ID: STD2 1232 1262
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2015 19:20:21 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-009
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:06 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.084	3.083	0.000	79778076	0.0500	0.0500	
2	3.595	3.593	0.001	69385534	0.0500	0.0500	
4 PCB-1232							
1	4.925	4.922	0.003	56740654	2.00	1.95	
1	5.446	5.443	0.003	42114077	2.00	1.90	
1	6.095	6.095	0.000	75483206	2.00	2.35	
1	6.270	6.264	0.006	39400801	2.00	1.97	
1	6.818	6.813	0.005	36825563	2.00	1.98	
		Average of Peak Amounts =				2.03	
2	5.833	5.833	0.000	45765971	2.00	1.79	
2	6.432	6.434	-0.002	30004191	2.00	1.96	
2	7.053	7.053	0.000	79349239	2.00	1.96	
2	7.234	7.234	0.000	32355810	2.00	1.91	
2	7.511	7.511	0.000	13785461	2.00	2.03	
		Average of Peak Amounts =				1.93	
						RPD = 5.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.699	8.693	0.006	150024907	2.00	2.18	
1	9.172	9.166	0.006	185406853	2.00	2.23	
1	9.459	9.453	0.006	184057970	2.00	2.21	
1	9.831	9.827	0.004	392916864	2.00	2.32	
1	10.210	10.203	0.007	147516287	2.00	2.25	
		Average of Peak Amounts =				2.24	
2	9.679	9.678	0.001	93429970	2.00	1.96	
2	10.215	10.217	-0.002	134727385	2.00	2.02	
2	10.550	10.548	0.002	130028065	2.00	2.05	
2	10.824	10.823	0.001	273053604	2.00	2.13	
2	11.197	11.198	-0.001	190265097	2.00	2.10	
		Average of Peak Amounts =				2.05	
						RPD = 8.54	

Reagents:

SG3262@2.0ppm_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

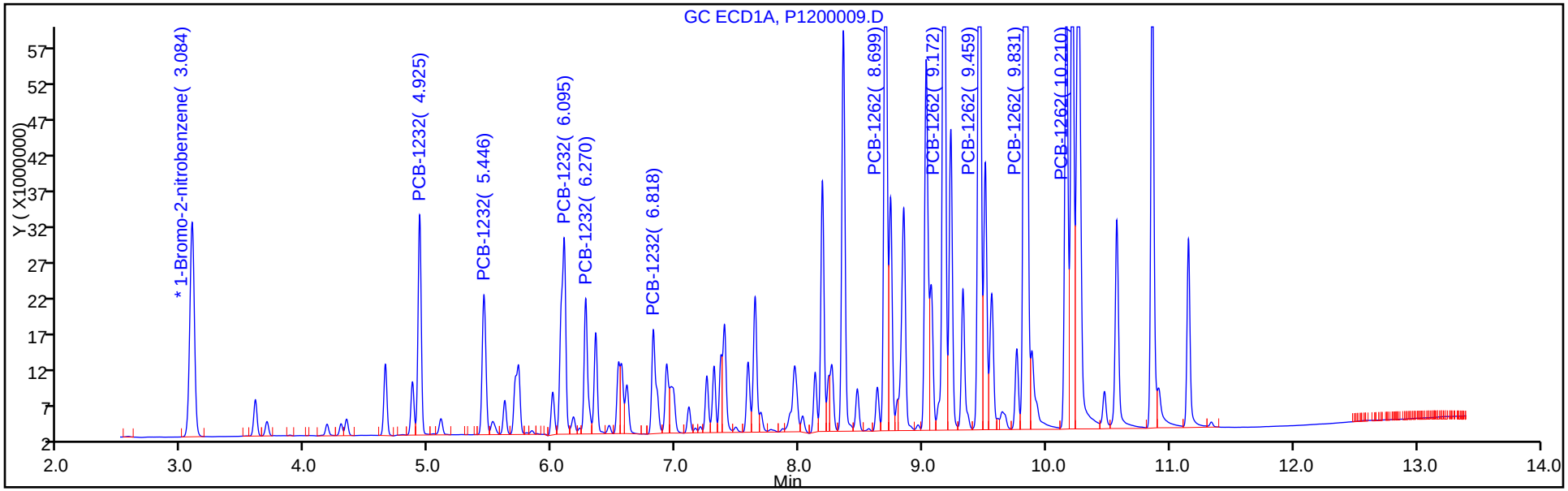
Report Date: 23-Apr-2015 06:28:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

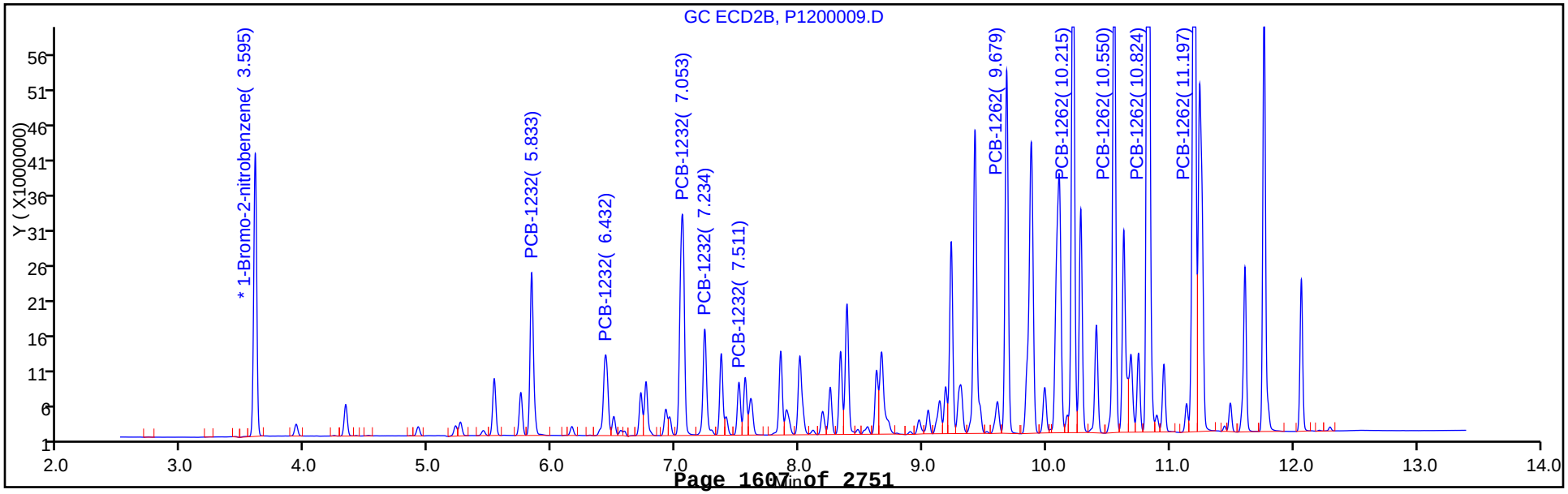
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200009.D

Injection Date:	22-Apr-2015 19:20:21	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1232 1262			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 17:49 Calibration End Date: 04/22/2015 19:20 Calibration ID: 28044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/4	P1200004.D
Level 2	STD01 240-177497/5	P1200005.D
Level 3	STD02 240-177497/6	P1200006.D
Level 4	STD05 240-177497/7	P1200007.D
Level 5	STD1 240-177497/8	P1200008.D
Level 6	STD2 240-177497/9	P1200009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1232 Peak 1	0.0237 0.0165	0.0212	0.0161	0.0173	0.0155	Ave		0.0184				17.9		20.0			
PCB-1232 Peak 2	0.0115 0.0108	0.0099	0.0122	0.0117	0.0102	Ave		0.0110				8.3		20.0			
PCB-1232 Peak 3	0.0346 0.0286	0.0322	0.0253	0.0282	0.0263	Ave		0.0292				12.2		20.0			
PCB-1232 Peak 4	0.0148 0.0117	0.0128	0.0111	0.0120	0.0109	Ave		0.0122				11.9		20.0			
PCB-1232 Peak 5	0.0082 0.0050	0.0069	0.0052	0.0054	0.0048	Lin1	0.0002	0.0048							0.9980		0.9900
PCB-1262 Peak 1	0.0414 0.0337	0.0375	0.0294	0.0331	0.0309	Ave		0.0343				12.8		20.0			
PCB-1262 Peak 2	0.0557 0.0485	0.0511	0.0412	0.0470	0.0441	Ave		0.0480				10.7		20.0			
PCB-1262 Peak 3	0.0527 0.0468	0.0486	0.0392	0.0451	0.0424	Ave		0.0458				10.3		20.0			
PCB-1262 Peak 4	0.1000 0.0984	0.0952	0.0789	0.0930	0.0884	Ave		0.0923				8.4		20.0			
PCB-1262 Peak 5	0.0732 0.0686	0.0681	0.0560	0.0644	0.0616	Ave		0.0653				9.3		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 17:49 Calibration End Date: 04/22/2015 19:20 Calibration ID: 28044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/4	P1200004.D
Level 2	STD01 240-177497/5	P1200005.D
Level 3	STD02 240-177497/6	P1200006.D
Level 4	STD05 240-177497/7	P1200007.D
Level 5	STD1 240-177497/8	P1200008.D
Level 6	STD2 240-177497/9	P1200009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	BNB	Ave	1624692 45765971	3026790	5619285	13091448	23858392	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 2	BNB	Ave	786212 30004191	1410619	4256748	8826383	15646623	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 3	BNB	Ave	2371870 79349239	4598796	8799581	21311087	40426166	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 4	BNB	Ave	1015881 32355810	1828453	3847048	9080648	16816660	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1232 Peak 5	BNB	Lin1	564113 13785461	982206	1825697	4099830	7343285	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 1	BNB	Ave	2833104 93429970	5358423	10247282	25017509	47514659	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 2	BNB	Ave	3816821 134727385	7303281	14341533	35502280	67865054	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 3	BNB	Ave	3609142 130028065	6935213	13649072	34042487	65224987	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 4	BNB	Ave	6852168 273053604	13599641	27452176	70177782	135893925	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1262 Peak 5	BNB	Ave	5016848 190265097	9725650	19481198	48615480	94660216	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200004.D
Lims ID: STD005 1232 1262
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 17:49:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-004
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:27:54 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:53:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.078	3.078	0.000	82119895	0.0500	0.0500	
2	3.595	3.595	0.000	68491725	0.0500	0.0500	
4 PCB-1232							
1	4.922	4.922	0.000	1843315	0.0500	0.0614	
1	5.443	5.443	0.000	1394999	0.0500	0.0613	
1	6.095	6.095	0.000	1350966	0.0500	0.0409	
1	6.264	6.264	0.000	1127476	0.0500	0.0548	
1	6.813	6.813	0.000	1134211	0.0500	0.0591	
		Average of Peak Amounts =				0.0555	
2	5.833	5.833	0.000	1624692	0.0500	0.0645	
2	6.434	6.434	0.000	786212	0.0500	0.0520	
2	7.053	7.053	0.000	2371870	0.0500	0.0593	
2	7.234	7.234	0.000	1015881	0.0500	0.0607	
2	7.511	7.511	0.000	564113	0.0500	0.0497	
		Average of Peak Amounts =				0.0572	
						RPD = 3.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.693	8.693	0.000	4010327	0.0500	0.0565	
1	9.166	9.166	0.000	4630165	0.0500	0.0541	
1	9.453	9.453	0.000	4702593	0.0500	0.0548	
1	9.827	9.827	0.000	8936184	0.0500	0.0512	
1	10.203	10.203	0.000	3582627	0.0500	0.0530	
		Average of Peak Amounts =				0.0539	
2	9.678	9.678	0.000	2833104	0.0500	0.0602	
2	10.217	10.217	0.000	3816821	0.0500	0.0581	
2	10.548	10.548	0.000	3609142	0.0500	0.0575	
2	10.823	10.823	0.000	6852168	0.0500	0.0542	
2	11.198	11.198	0.000	5016848	0.0500	0.0561	
		Average of Peak Amounts =				0.0572	
						RPD = 5.95	

Reagents:

SG3262@.05PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

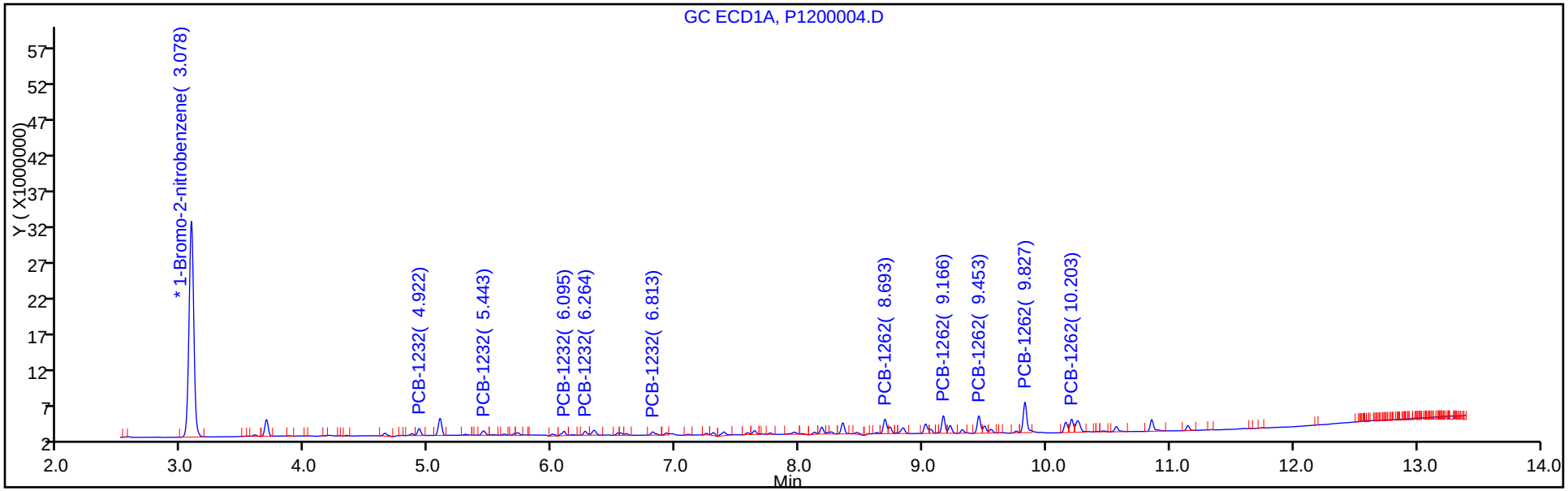
Report Date: 23-Apr-2015 06:27:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

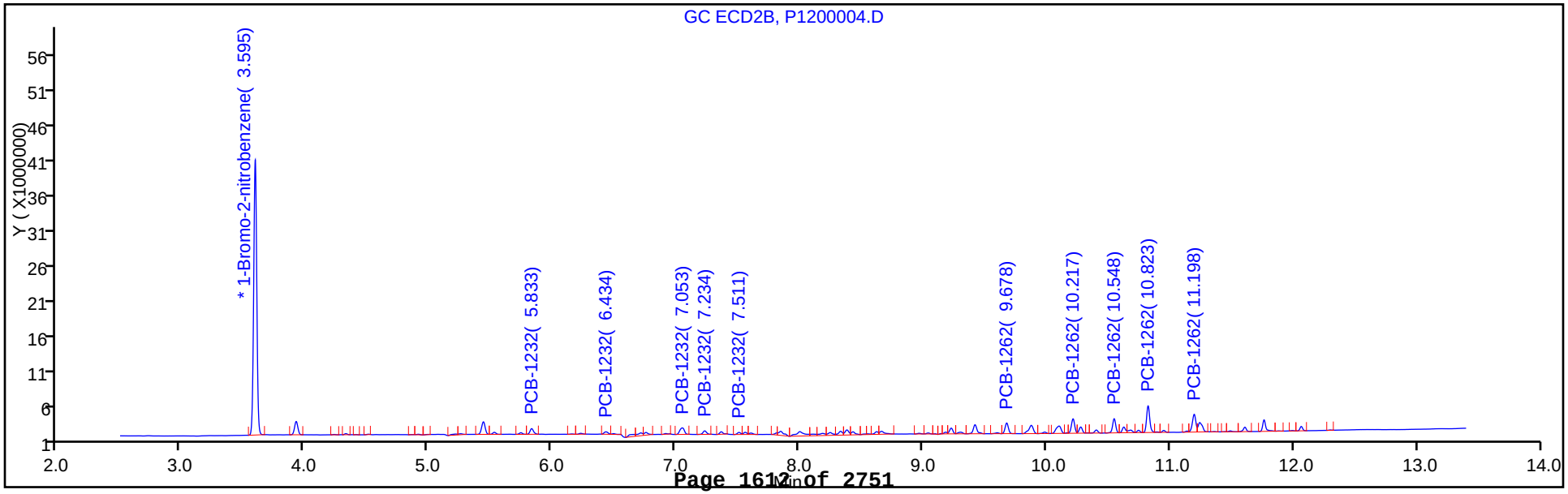
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200004.D

Injection Date:	22-Apr-2015 17:49:30	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1232 1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200005.D
Lims ID: STD01 1232 1262
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 18:07:44 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-005
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:27:56 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:16:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.079	3.083	-0.004	85901701	0.0500	0.0500	
2	3.595	3.593	0.001	71398853	0.0500	0.0500	
4 PCB-1232							M
1	4.923	4.922	0.001	3461841	0.1000	0.1102	
1	5.444	5.443	0.001	2725186	0.1000	0.1144	
1	6.095	6.095	0.000	3631548	0.1000	0.1050	
1	6.267	6.264	0.003	2471268	0.1000	0.1149	
1	6.814	6.813	0.001	2182713	0.1000	0.1088	
		Average of Peak Amounts =				0.1107	
2	5.833	5.833	0.000	3026790	0.1000	0.1152	
2	6.434	6.434	0.000	1410619	0.1000	0.0894	M
2	7.053	7.053	0.000	4598796	0.1000	0.1103	
2	7.234	7.234	0.000	1828453	0.1000	0.1048	
2	7.512	7.511	0.001	982206	0.1000	0.1070	
		Average of Peak Amounts =				0.1053	
						RPD = 4.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.695	8.693	0.002	7600918	0.1000	0.1024	
1	9.168	9.166	0.002	8321074	0.1000	0.0929	
1	9.456	9.453	0.003	9050894	0.1000	0.1009	
1	9.828	9.827	0.001	18206589	0.1000	0.0996	
1	10.207	10.203	0.004	7209213	0.1000	0.1019	
		Average of Peak Amounts =				0.0996	
2	9.679	9.678	0.001	5358423	0.1000	0.1093	
2	10.216	10.217	-0.001	7303281	0.1000	0.1066	
2	10.550	10.548	0.002	6935213	0.1000	0.1060	
2	10.824	10.823	0.001	13599641	0.1000	0.1032	
2	11.197	11.198	-0.001	9725650	0.1000	0.1043	
		Average of Peak Amounts =				0.1059	
						RPD = 6.15	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG3262@0.1PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

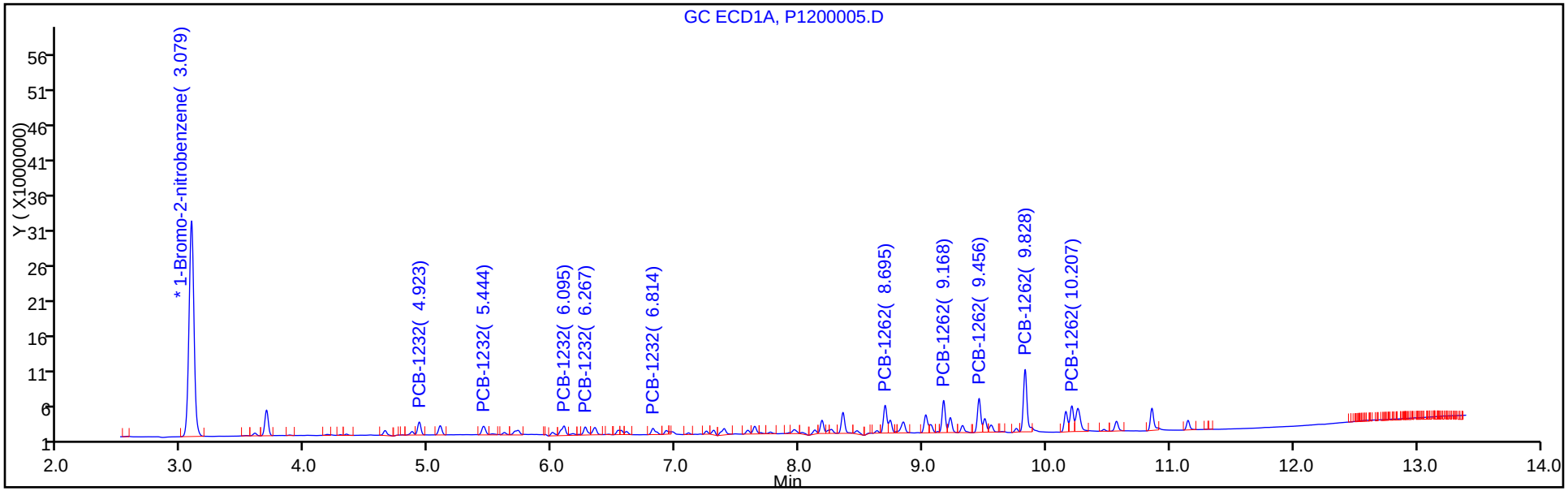
Report Date: 23-Apr-2015 06:27:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

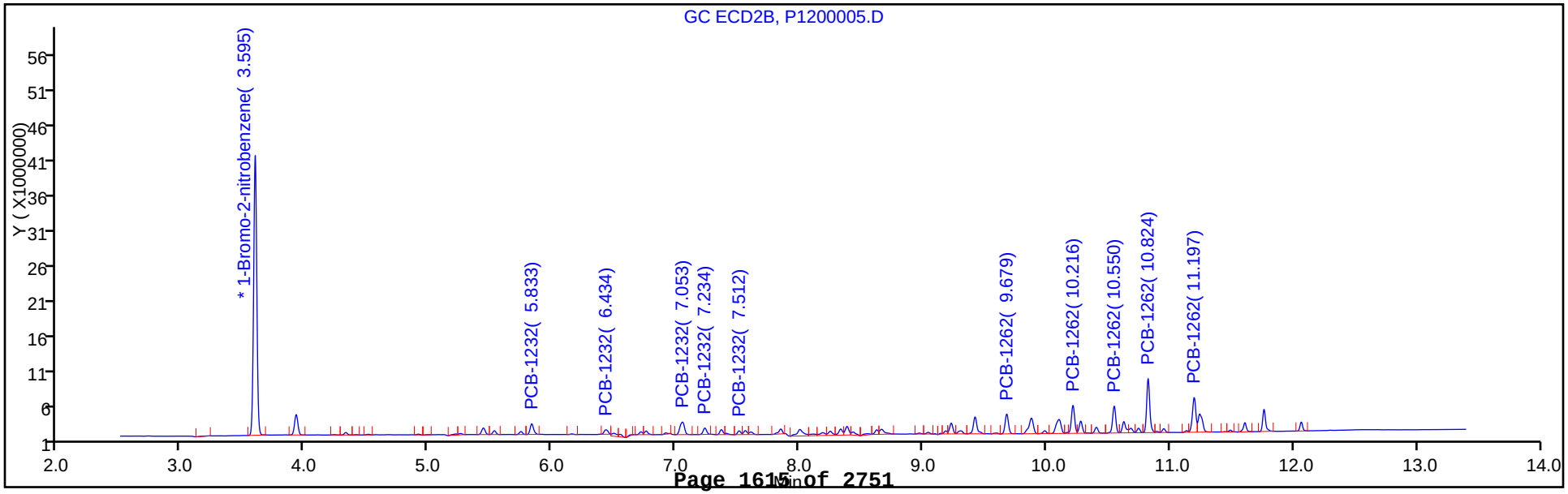
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200005.D

Injection Date:	22-Apr-2015 18:07:44	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1232 1262			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 06:27:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200005.D

Injection Date: 22-Apr-2015 18:07:44 Instrument ID: A2HP12

Lims ID: STD01 1232 1262

Client ID:

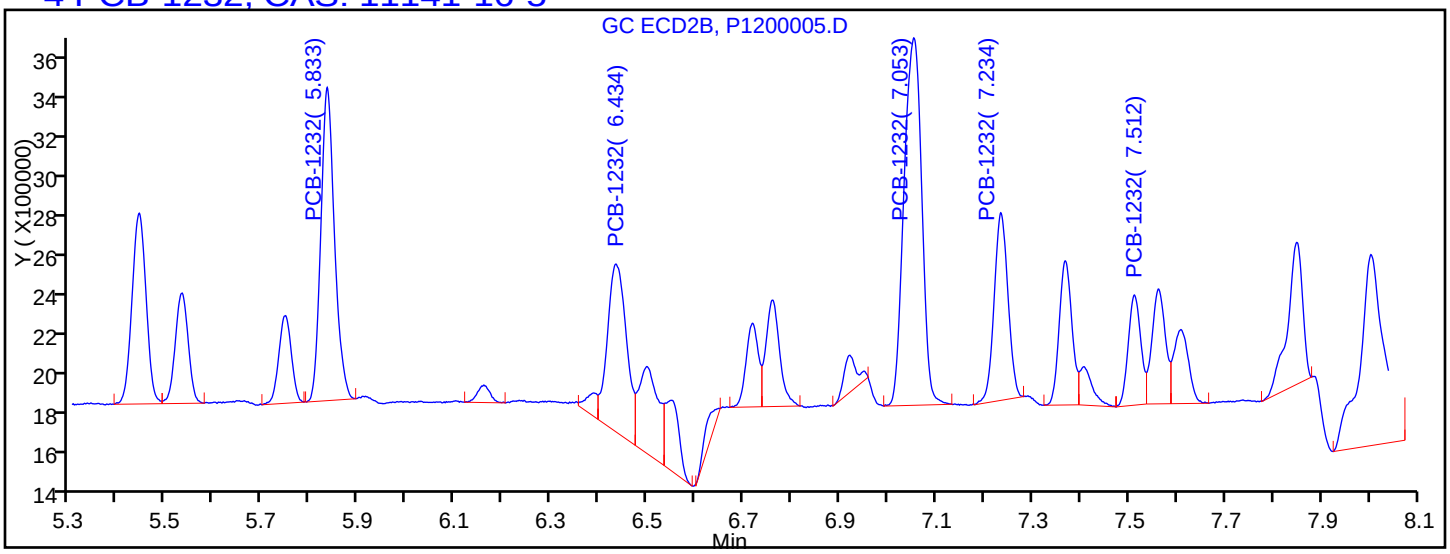
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

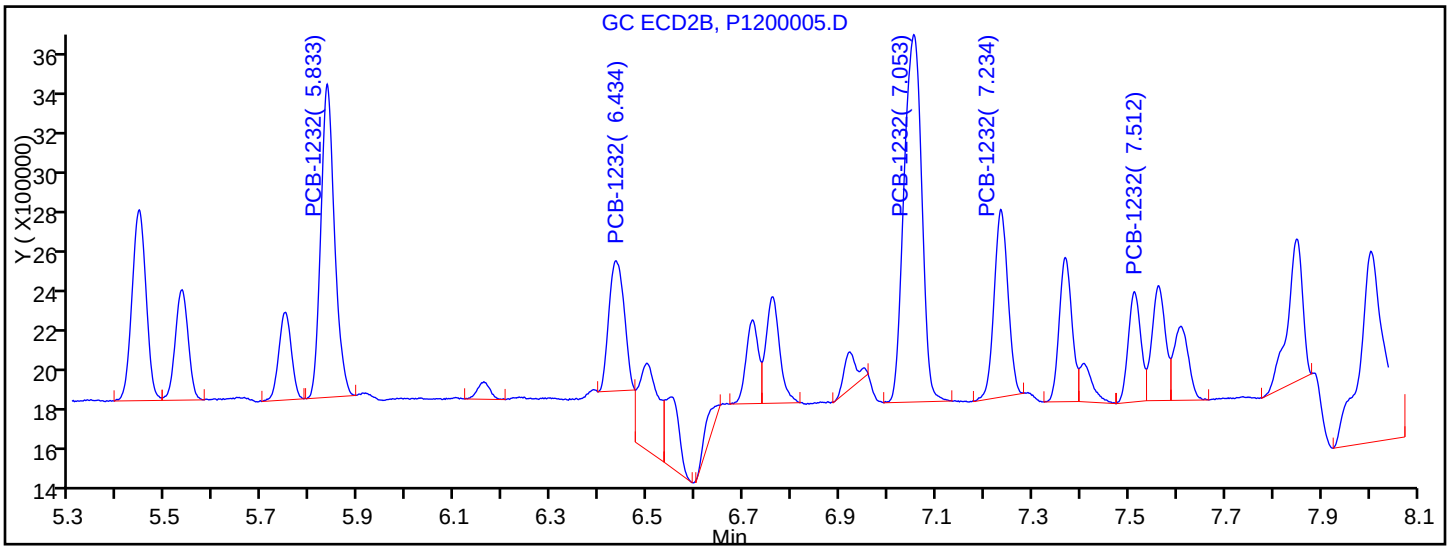
Column: Detector GC ecd2b

4 PCB-1232, CAS: 11141-16-5



Processing Integration Results

RT = 5.833	Response = 3026790	
RT = 6.434	Response = 2273242	M
RT = 7.053	Response = 4598796	
RT = 7.234	Response = 1828453	
RT = 7.512	Response = 982206	



Manual Integration Results

RT = 5.833	Response = 3026790	
RT = 6.434	Response = 1410619	M
RT = 7.053	Response = 4598796	
RT = 7.234	Response = 1828453	
RT = 7.512	Response = 982206	

Reviewer: hassl, 23-Apr-2015 06:16:06

Audit Action: Manually Integrated

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200006.D
Lims ID: STD02 1232 1262
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 18:25:48 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-006
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:27:58 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.080	3.083	-0.003	104807125	0.0500	0.0500	
2	3.595	3.593	0.002	86994777	0.0500	0.0500	
4 PCB-1232							
1	4.924	4.922	0.002	6578426	0.2000	0.1717	
1	5.445	5.443	0.002	5031940	0.2000	0.1731	
1	6.095	6.095	0.000	7447308	0.2000	0.1765	
1	6.267	6.264	0.003	4529987	0.2000	0.1726	
1	6.815	6.813	0.002	4188421	0.2000	0.1711	
		Average of Peak Amounts =				0.1730	
2	5.833	5.833	0.000	5619285	0.2000	0.1755	
2	6.434	6.434	0.000	4256748	0.2000	0.2215	
2	7.054	7.053	0.001	8799581	0.2000	0.1732	
2	7.235	7.234	0.001	3847048	0.2000	0.1810	
2	7.512	7.511	0.001	1825697	0.2000	0.1821	
		Average of Peak Amounts =				0.1866	
						RPD = 7.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.696	8.693	0.003	14755872	0.2000	0.1630	
1	9.169	9.166	0.003	18335926	0.2000	0.1678	
1	9.455	9.453	0.002	17939294	0.2000	0.1638	
1	9.829	9.827	0.002	36083040	0.2000	0.1618	
1	10.207	10.203	0.004	14275006	0.2000	0.1655	
		Average of Peak Amounts =				0.1644	
2	9.679	9.678	0.001	10247282	0.2000	0.1715	
2	10.216	10.217	-0.001	14341533	0.2000	0.1719	
2	10.550	10.548	0.002	13649072	0.2000	0.1713	
2	10.825	10.823	0.002	27452176	0.2000	0.1709	
2	11.197	11.198	-0.001	19481198	0.2000	0.1714	
		Average of Peak Amounts =				0.1714	
						RPD = 4.18	

Reagents:

SG3262@.2PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

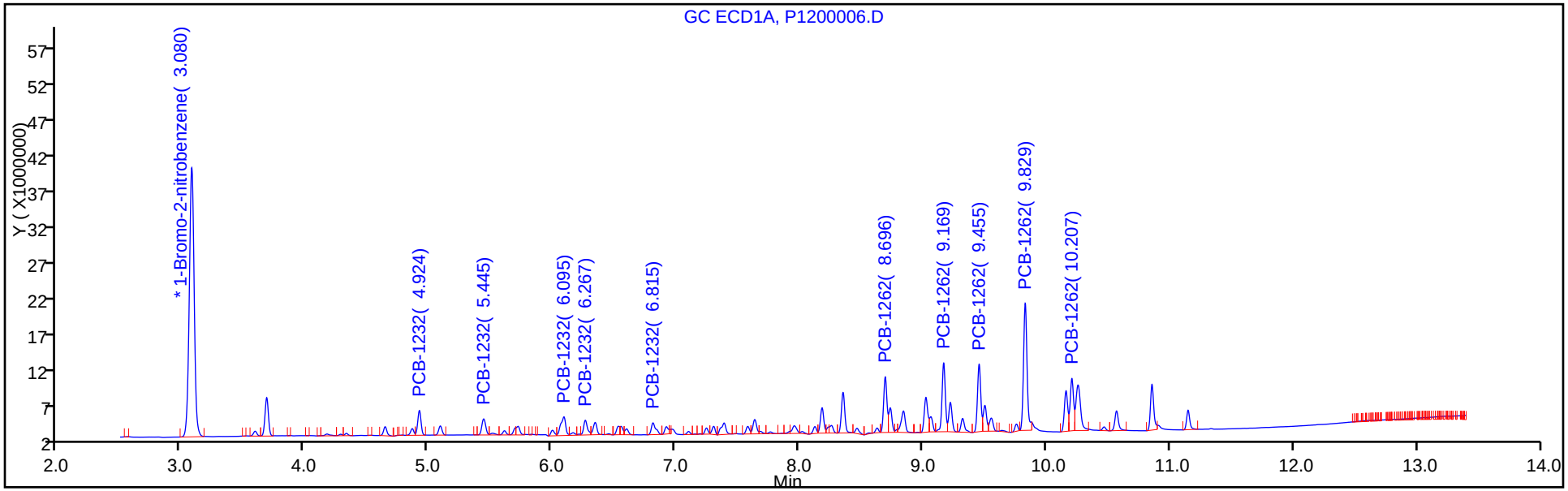
Report Date: 23-Apr-2015 06:28:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

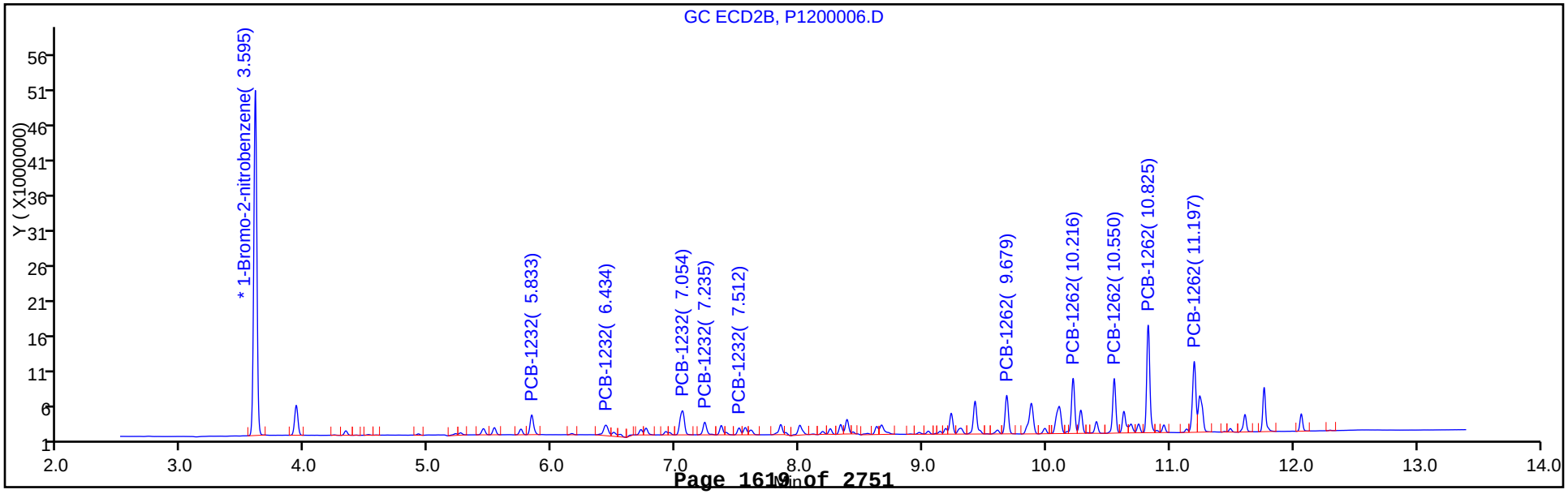
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200006.D

Injection Date:	22-Apr-2015 18:25:48	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1232 1262			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200007.D
Lims ID: STD05 1232 1262
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2015 18:43:51 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-007
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:52:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.078	3.083	-0.005	89246622	0.0500	0.0500	
2	3.593	3.593	-0.001	75488247	0.0500	0.0500	
4 PCB-1232							
1	4.923	4.922	0.001	15609775	0.5000	0.4784	
1	5.443	5.443	0.000	11733258	0.5000	0.4741	
1	6.094	6.095	-0.001	18912166	0.5000	0.5264	
1	6.268	6.264	0.004	10921017	0.5000	0.4886	
1	6.815	6.813	0.002	10181723	0.5000	0.4883	
		Average of Peak Amounts =				0.4912	
2	5.832	5.833	-0.001	13091448	0.5000	0.4712	
2	6.431	6.434	-0.003	8826383	0.5000	0.5293	
2	7.052	7.053	-0.001	21311087	0.5000	0.4833	
2	7.233	7.234	-0.001	9080648	0.5000	0.4922	
2	7.510	7.511	-0.001	4099830	0.5000	0.5281	
		Average of Peak Amounts =				0.5008	
						RPD = 1.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.695	8.693	0.002	38280497	0.5000	0.4965	
1	9.168	9.166	0.002	47745785	0.5000	0.5133	
1	9.456	9.453	0.003	47190166	0.5000	0.5062	
1	9.828	9.827	0.001	97191970	0.5000	0.5119	
1	10.208	10.203	0.005	36960661	0.5000	0.5031	
		Average of Peak Amounts =				0.5062	
2	9.678	9.678	0.000	25017509	0.5000	0.4825	
2	10.215	10.217	-0.002	35502280	0.5000	0.4903	
2	10.549	10.548	0.001	34042487	0.5000	0.4922	
2	10.823	10.823	0.000	70177782	0.5000	0.5035	
2	11.197	11.198	-0.001	48615480	0.5000	0.4931	
		Average of Peak Amounts =				0.4923	
						RPD = 2.77	

Reagents:

SG3262@0.5PPM_00004	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

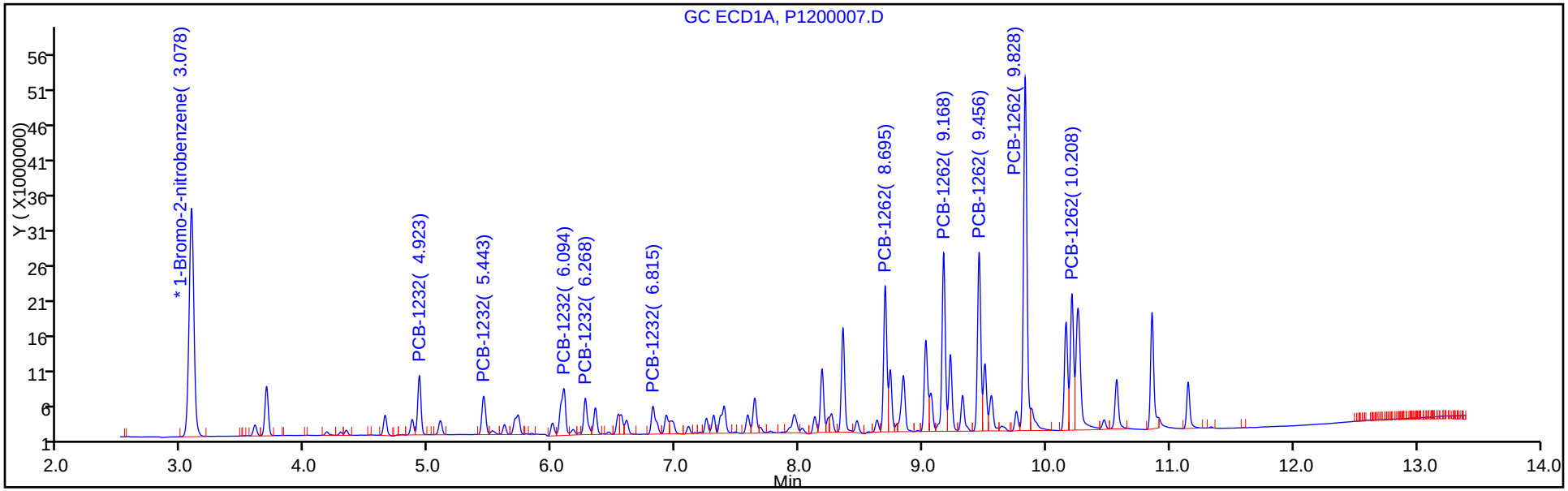
Report Date: 23-Apr-2015 06:28:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

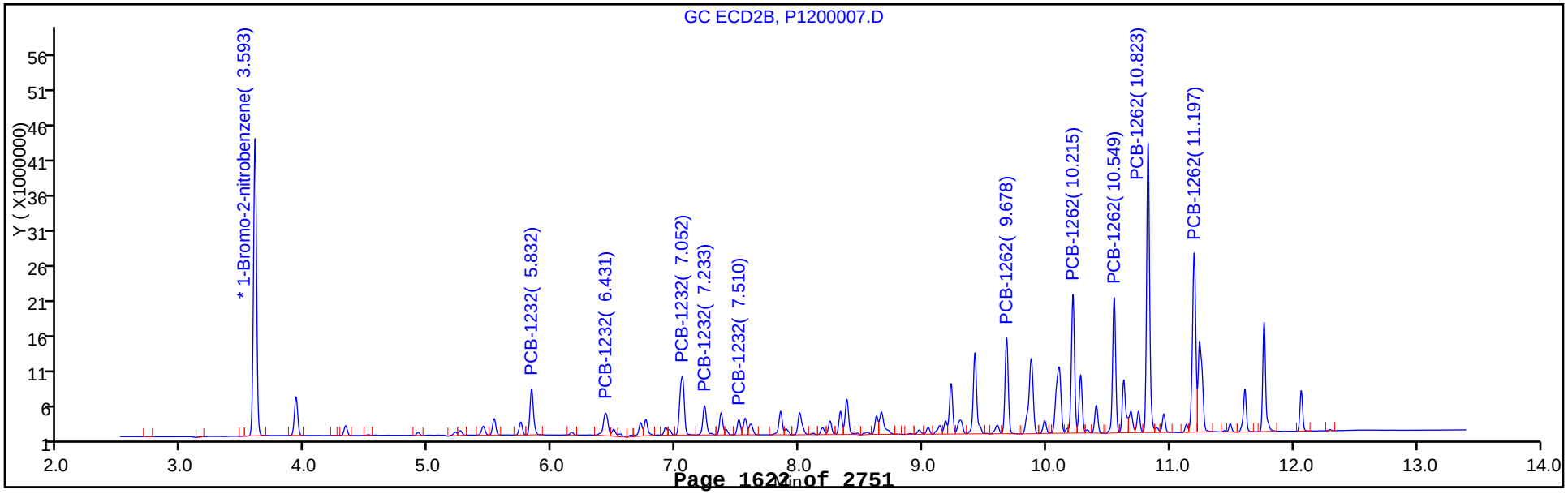
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200007.D

Injection Date:	22-Apr-2015 18:43:51	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1232 1262			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200008.D
Lims ID: STD1 1232 1262
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2015 19:02:09 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-008
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:04 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:20:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.085	3.083	0.001	90556939	0.0500	0.0500	
2	3.596	3.593	0.002	76892530	0.0500	0.0500	
4 PCB-1232							
1	4.926	4.922	0.004	29189189	1.00	0.8817	
1	5.446	5.443	0.003	21716102	1.00	0.8648	
1	6.096	6.095	0.001	37273817	1.00	1.02	
1	6.270	6.264	0.006	21053691	1.00	0.9284	
1	6.817	6.813	0.004	19257063	1.00	0.9102	
		Average of Peak Amounts =				0.9215	
2	5.833	5.833	0.000	23858392	1.00	0.8431	
2	6.432	6.434	-0.002	15646623	1.00	0.9212	
2	7.054	7.053	0.001	40426166	1.00	0.9001	
2	7.234	7.234	0.000	16816660	1.00	0.8949	
2	7.511	7.511	0.000	7343285	1.00	0.9558	
		Average of Peak Amounts =				0.9030	
						RPD = 2.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.698	8.693	0.005	74275548	1.00	0.9493	
1	9.171	9.166	0.005	95175979	1.00	1.01	
1	9.458	9.453	0.005	90751979	1.00	0.9593	
1	9.831	9.827	0.004	190785015	1.00	0.99	
1	10.209	10.203	0.006	71864297	1.00	0.9640	
		Average of Peak Amounts =				0.9743	
2	9.680	9.678	0.002	47514659	1.00	0.8997	
2	10.216	10.217	-0.001	67865054	1.00	0.9200	
2	10.549	10.548	0.001	65224987	1.00	0.9259	
2	10.824	10.823	0.001	135893925	1.00	0.9572	
2	11.196	11.198	-0.002	94660216	1.00	0.9425	
		Average of Peak Amounts =				0.9291	
						RPD = 4.75	

Reagents:

SG3262@1.0PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

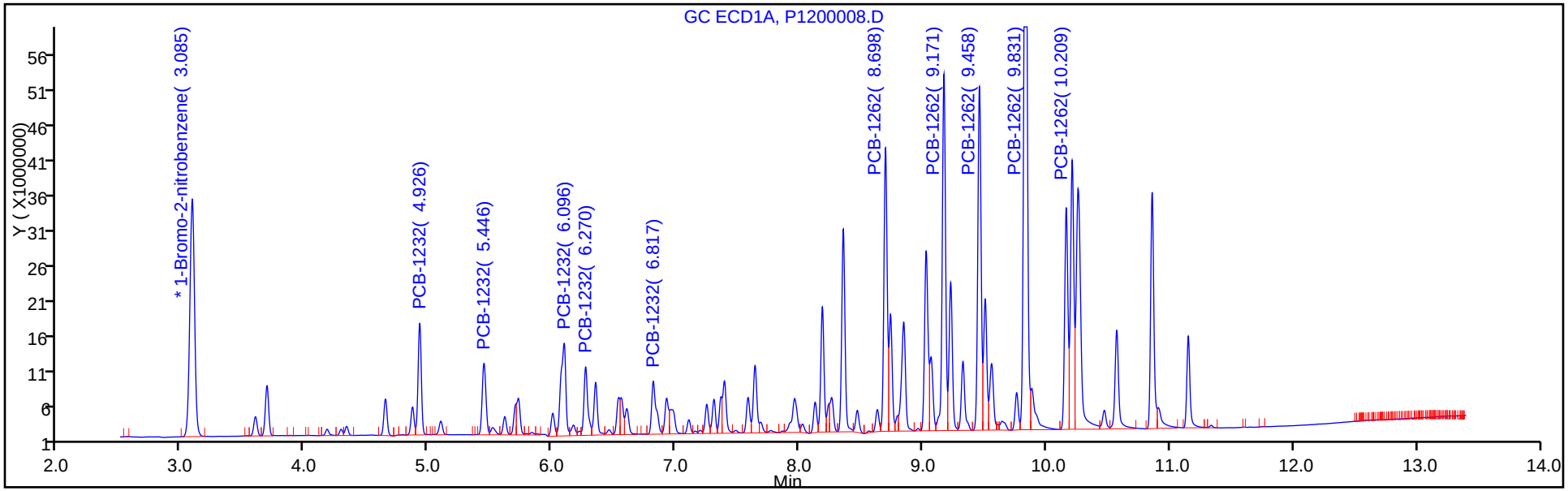
Report Date: 23-Apr-2015 06:28:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

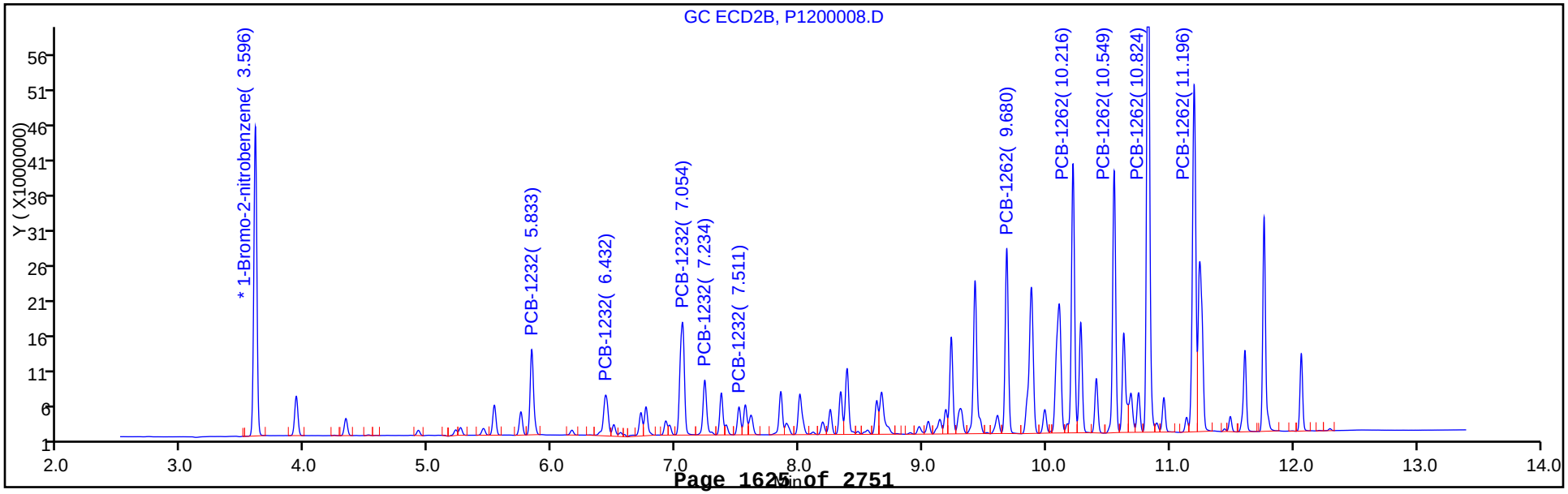
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200008.D

Injection Date:	22-Apr-2015 19:02:09	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1232 1262			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200009.D
Lims ID: STD2 1232 1262
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2015 19:20:21 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-009
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:06 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.084	3.083	0.000	79778076	0.0500	0.0500	
2	3.595	3.593	0.001	69385534	0.0500	0.0500	
4 PCB-1232							
1	4.925	4.922	0.003	56740654	2.00	1.95	
1	5.446	5.443	0.003	42114077	2.00	1.90	
1	6.095	6.095	0.000	75483206	2.00	2.35	
1	6.270	6.264	0.006	39400801	2.00	1.97	
1	6.818	6.813	0.005	36825563	2.00	1.98	
		Average of Peak Amounts =				2.03	
2	5.833	5.833	0.000	45765971	2.00	1.79	
2	6.432	6.434	-0.002	30004191	2.00	1.96	
2	7.053	7.053	0.000	79349239	2.00	1.96	
2	7.234	7.234	0.000	32355810	2.00	1.91	
2	7.511	7.511	0.000	13785461	2.00	2.03	
		Average of Peak Amounts =				1.93	
						RPD = 5.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.699	8.693	0.006	150024907	2.00	2.18	
1	9.172	9.166	0.006	185406853	2.00	2.23	
1	9.459	9.453	0.006	184057970	2.00	2.21	
1	9.831	9.827	0.004	392916864	2.00	2.32	
1	10.210	10.203	0.007	147516287	2.00	2.25	
		Average of Peak Amounts =				2.24	
2	9.679	9.678	0.001	93429970	2.00	1.96	
2	10.215	10.217	-0.002	134727385	2.00	2.02	
2	10.550	10.548	0.002	130028065	2.00	2.05	
2	10.824	10.823	0.001	273053604	2.00	2.13	
2	11.197	11.198	-0.001	190265097	2.00	2.10	
		Average of Peak Amounts =				2.05	
						RPD = 8.54	

Reagents:

SG3262@2.0ppm_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

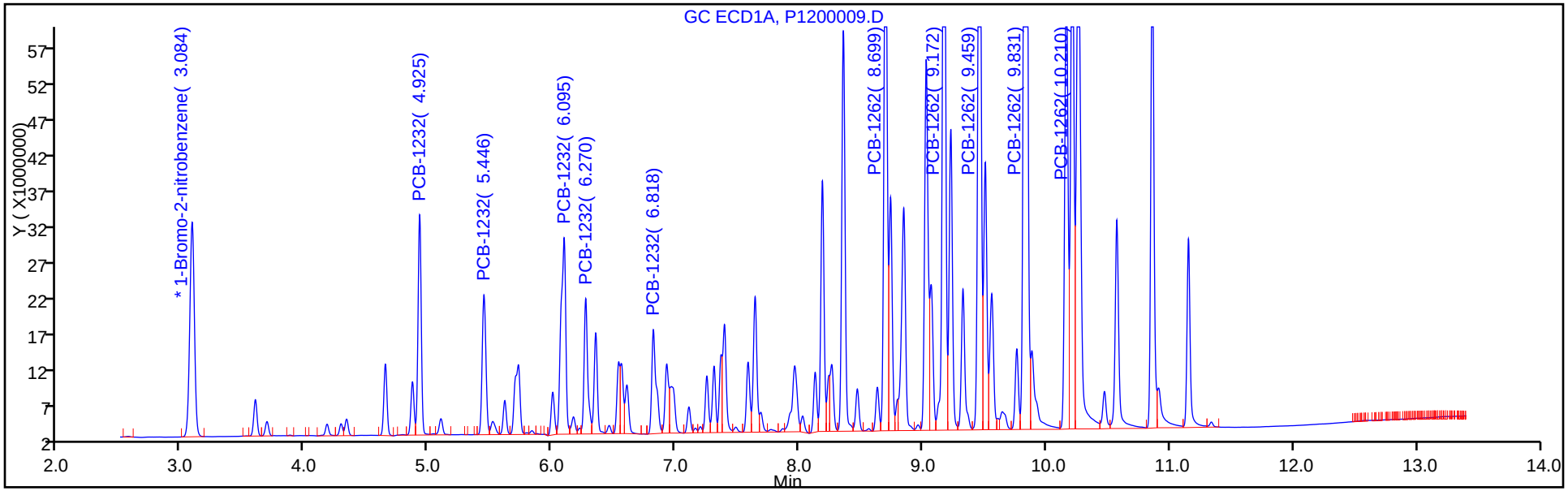
Report Date: 23-Apr-2015 06:28:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

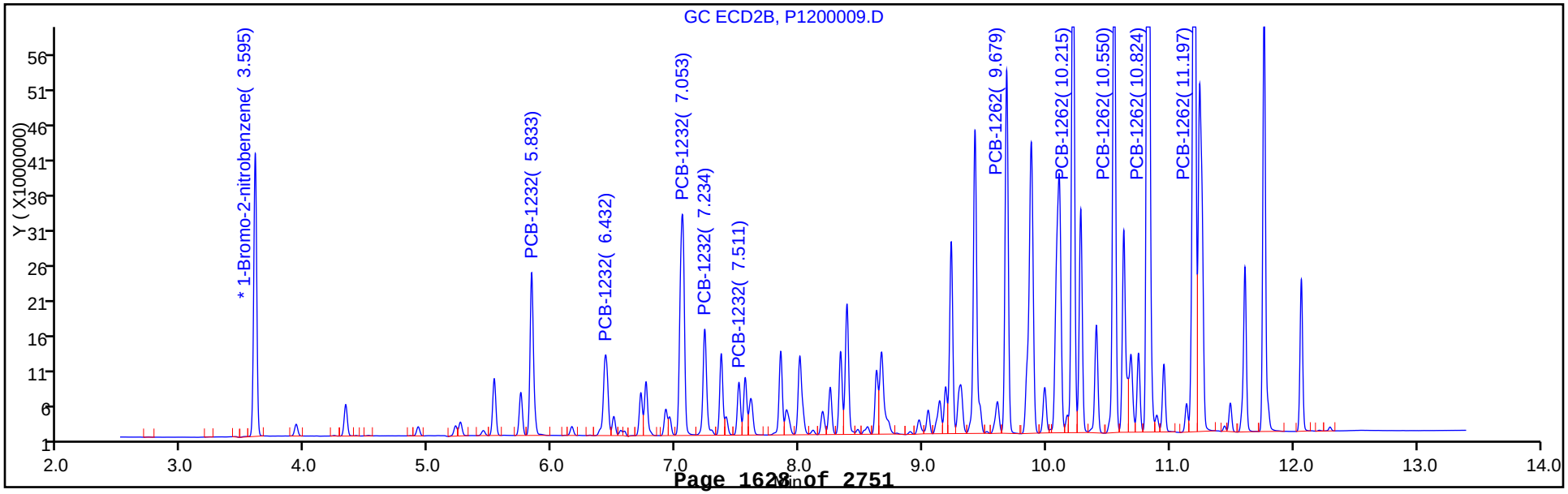
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200009.D

Injection Date:	22-Apr-2015 19:20:21	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1232 1262			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 19:38 Calibration End Date: 04/22/2015 21:08 Calibration ID: 28049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/10	P1200010.D
Level 2	STD01 240-177497/11	P1200011.D
Level 3	STD02 240-177497/12	P1200012.D
Level 4	STD05 240-177497/13	P1200013.D
Level 5	STD1 240-177497/14	P1200014.D
Level 6	STD2 240-177497/15	P1200015.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0146 0.0119	0.0126	0.0110	0.0117	0.0120	Ave		0.0123				10.3		20.0			
PCB-1242 Peak 2	0.0270 0.0229	0.0234	0.0204	0.0222	0.0233	Ave		0.0232				9.3		20.0			
PCB-1242 Peak 3	0.0331 0.0456	0.0382	0.0347	0.0407	0.0452	Ave		0.0396				13.2		20.0			
PCB-1242 Peak 4	0.0224 0.0224	0.0207	0.0185	0.0206	0.0223	Ave		0.0211				7.4		20.0			
PCB-1242 Peak 5	0.0233 0.0150	0.0171	0.0136	0.0136	0.0150	Lin1	0.0003	0.0145							0.9950		0.9900
PCB-1268 Peak 1	0.1171 0.1374	0.1025	0.0979	0.1172	0.1318	Ave		0.1173				13.2		20.0			
PCB-1268 Peak 2	0.1370 0.1430	0.1239	0.1139	0.1327	0.1425	Ave		0.1322				8.6		20.0			
PCB-1268 Peak 3	0.1070 0.1178	0.0967	0.0894	0.1055	0.1148	Ave		0.1052				10.2		20.0			
PCB-1268 Peak 4	0.0416 0.0473	0.0379	0.0363	0.0417	0.0465	Ave		0.0419				10.5		20.0			
PCB-1268 Peak 5	0.3528 0.4165	0.3204	0.3048	0.3593	0.4008	Ave		0.3591				12.1		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 19:38 Calibration End Date: 04/22/2015 21:08 Calibration ID: 28049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/10	P1200010.D
Level 2	STD01 240-177497/11	P1200011.D
Level 3	STD02 240-177497/12	P1200012.D
Level 4	STD05 240-177497/13	P1200013.D
Level 5	STD1 240-177497/14	P1200014.D
Level 6	STD2 240-177497/15	P1200015.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	1224375 38881607	2372993	4198544	10666880	19487273	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	2256926 75258297	4411142	7818925	20266578	37959430	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	2770907 149499082	7201715	13291867	37181079	73537532	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	1872929 73632326	3907779	7073883	18806092	36233596	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Lin1	1950090 49262466	3233474	5221997	12464246	24386137	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	9798942 450731522	19343869	37537412	107127599	214566787	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	11468188 469027430	23368463	43656374	121291746	232027257	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	8959798 386500117	18243546	34290644	96397323	186855878	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	3485828 155128898	7156782	13912342	38100176	75691977	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	29535717 1366352858	60442238	116862603	328300689	652574099	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200010.D
Lims ID: STD005 1242 1268
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 19:38:24 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-010
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:08 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:16:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.083	3.083	0.000	83711302	0.0500	0.0500	
2	3.593	3.593	0.000	71709732	0.0500	0.0500	
5 PCB-1242							
1	4.926	4.926	0.000	1224375	0.0500	0.0596	
1	5.447	5.447	0.000	2256926	0.0500	0.0581	
1	6.099	6.099	0.000	2770907	0.0500	0.0418	
1	6.270	6.270	0.000	1872929	0.0500	0.0529	
1	6.348	6.348	0.000	1950090	0.0500	0.0610	
		Average of Peak Amounts =				0.0547	
2	5.832	5.832	0.000	1163437	0.0500	0.0658	
2	6.433	6.433	0.000	1333945	0.0500	0.0473	
2	7.053	7.053	0.000	4037558	0.0500	0.0568	
2	7.234	7.234	0.000	1583320	0.0500	0.0567	
2	7.511	7.511	0.000	903790	0.0500	0.0627	
		Average of Peak Amounts =				0.0578	
						RPD = 5.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	9798942	0.0500	0.0499	
1	10.254	10.254	0.000	11468188	0.0500	0.0518	
1	10.470	10.470	0.000	8959798	0.0500	0.0509	
1	10.858	10.858	0.000	3485828	0.0500	0.0497	
1	11.150	11.150	0.000	29535717	0.0500	0.0491	
		Average of Peak Amounts =				0.0503	
2	11.193	11.193	0.000	7803482	0.0500	0.0530	
2	11.239	11.239	0.000	7797150	0.0500	0.0533	
2	11.489	11.489	0.000	6420768	0.0500	0.0534	
2	11.762	11.762	0.000	2820051	0.0500	0.0544	
2	12.063	12.063	0.000	20446008	0.0500	0.0505	
		Average of Peak Amounts =				0.0529	
						RPD = 5.12	

Reagents:

SG4268@.05PPM_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

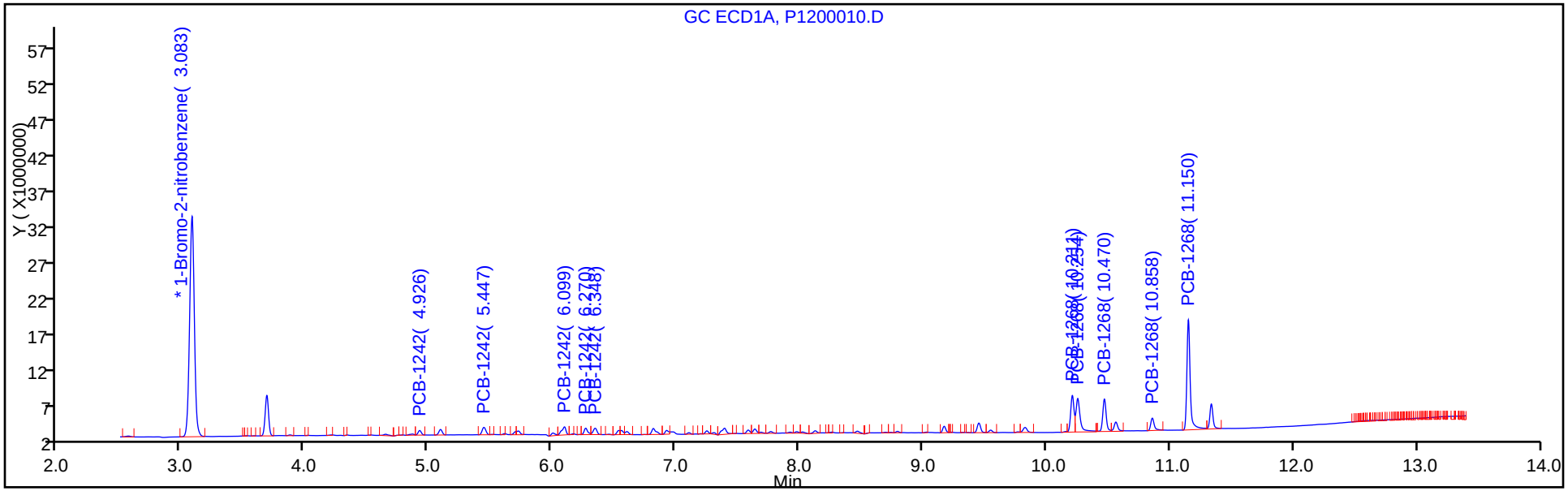
Report Date: 23-Apr-2015 06:28:10 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

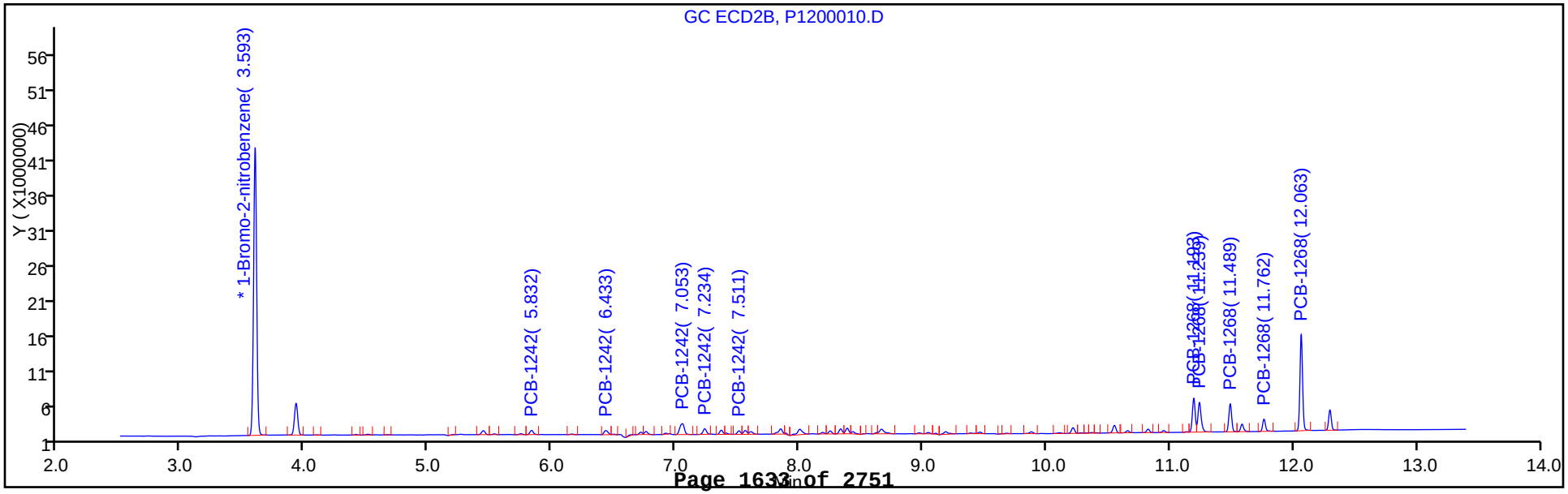
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200010.D

Injection Date:	22-Apr-2015 19:38:24	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1242 1268			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200011.D
Lims ID: STD01 1242 1268
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 19:56:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-011
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:11 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:54:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.083	3.083	-0.001	94329031	0.0500	0.0500	
2	3.594	3.593	0.001	80857033	0.0500	0.0500	
5 PCB-1242							
1	4.927	4.926	0.001	2372993	0.1000	0.1025	
1	5.446	5.447	-0.001	4411142	0.1000	0.1008	
1	6.096	6.099	-0.003	7201715	0.1000	0.0965	
1	6.270	6.270	0.000	3907779	0.1000	0.0980	
1	6.348	6.348	0.000	3233474	0.1000	0.0990	
		Average of Peak Amounts =				0.0993	
2	5.832	5.832	0.000	2092742	0.1000	0.1049	
2	6.428	6.433	-0.005	3548109	0.1000	0.1115	
2	7.053	7.053	0.000	7679681	0.1000	0.0958	
2	7.233	7.234	-0.001	3335526	0.1000	0.1060	
2	7.511	7.511	0.000	1687170	0.1000	0.1038	
		Average of Peak Amounts =				0.1044	
						RPD = 4.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	19343869	0.1000	0.0874	
1	10.254	10.254	0.000	23368463	0.1000	0.0937	
1	10.470	10.470	0.000	18243546	0.1000	0.0919	
1	10.858	10.858	0.000	7156782	0.1000	0.0906	
1	11.150	11.150	0.000	60442238	0.1000	0.0892	
		Average of Peak Amounts =				0.0906	
2	11.194	11.193	0.001	15449552	0.1000	0.0931	
2	11.240	11.239	0.001	15360805	0.1000	0.0931	
2	11.489	11.489	0.000	12646302	0.1000	0.0933	
2	11.763	11.762	0.001	6004369	0.1000	0.1027	
2	12.063	12.063	0.000	41851156	0.1000	0.0917	
		Average of Peak Amounts =				0.0948	
						RPD = 4.56	

Reagents:

SG4268@.1PPM_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

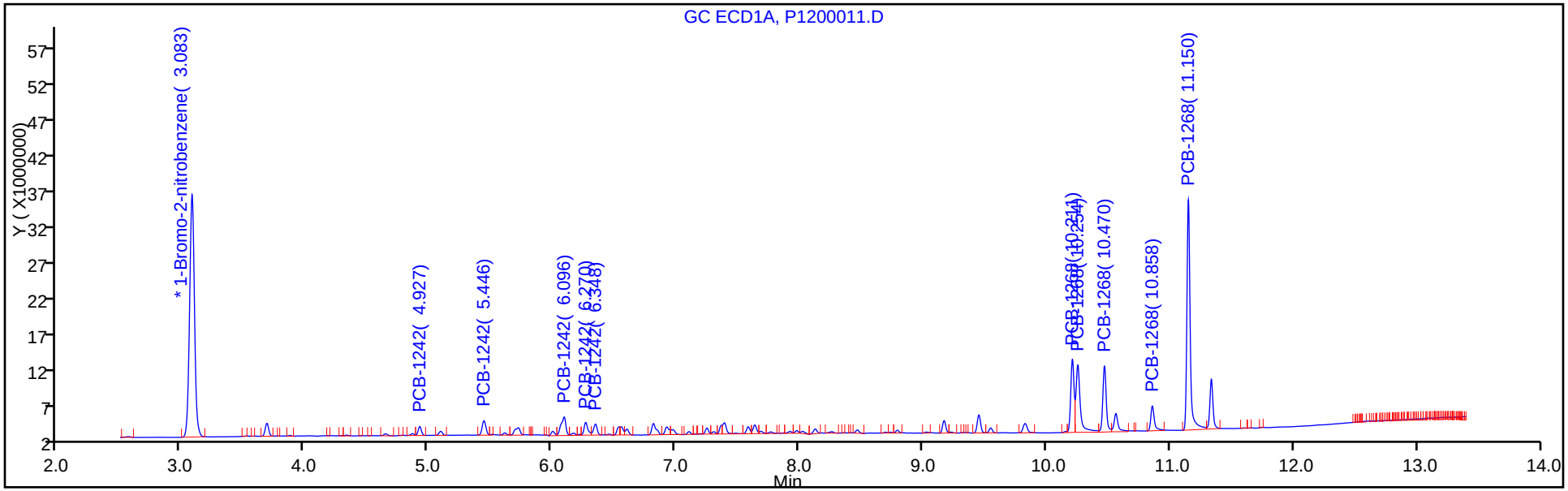
Report Date: 23-Apr-2015 06:28:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

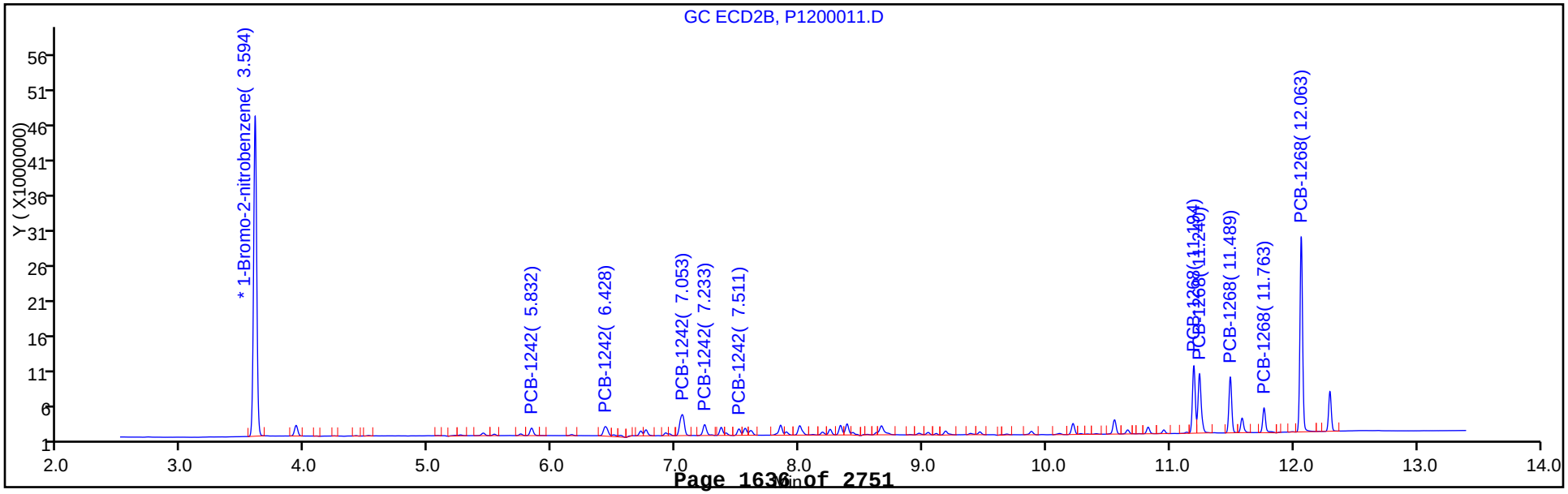
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200011.D

Injection Date:	22-Apr-2015 19:56:28	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1242 1268			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200012.D
Lims ID: STD02 1242 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 20:14:31 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-012
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:15 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.082	3.083	-0.001	95838430	0.0500	0.0500	
2	3.594	3.593	0.001	82348803	0.0500	0.0500	
5 PCB-1242							
1	4.926	4.926	0.000	4198544	0.2000	0.1784	
1	5.447	5.447	0.000	7818925	0.2000	0.1759	
1	6.097	6.099	-0.002	13291867	0.2000	0.1753	
1	6.271	6.270	0.001	7073883	0.2000	0.1746	
1	6.351	6.348	0.003	5221997	0.2000	0.1688	
		Average of Peak Amounts =				0.1746	
2	5.833	5.832	0.001	3594252	0.2000	0.1769	
2	6.431	6.433	-0.002	5964933	0.2000	0.1840	
2	7.054	7.053	0.001	14107840	0.2000	0.1727	
2	7.233	7.234	-0.001	5499211	0.2000	0.1715	
2	7.511	7.511	0.000	2960420	0.2000	0.1788	
		Average of Peak Amounts =				0.1768	
						RPD = 1.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	37537412	0.2000	0.1669	
1	10.255	10.254	0.001	43656374	0.2000	0.1723	
1	10.471	10.470	0.001	34290644	0.2000	0.1700	
1	10.857	10.858	-0.001	13912342	0.2000	0.1733	
1	11.150	11.150	0.000	116862603	0.2000	0.1698	
		Average of Peak Amounts =				0.1705	
2	11.193	11.193	0.000	29049882	0.2000	0.1718	
2	11.239	11.239	0.000	28776995	0.2000	0.1713	
2	11.489	11.489	0.000	23775395	0.2000	0.1722	
2	11.762	11.762	0.000	10191795	0.2000	0.1712	
2	12.063	12.063	0.000	80220056	0.2000	0.1726	
		Average of Peak Amounts =				0.1718	
						RPD = 0.80	

Reagents:

SG4268@.2PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

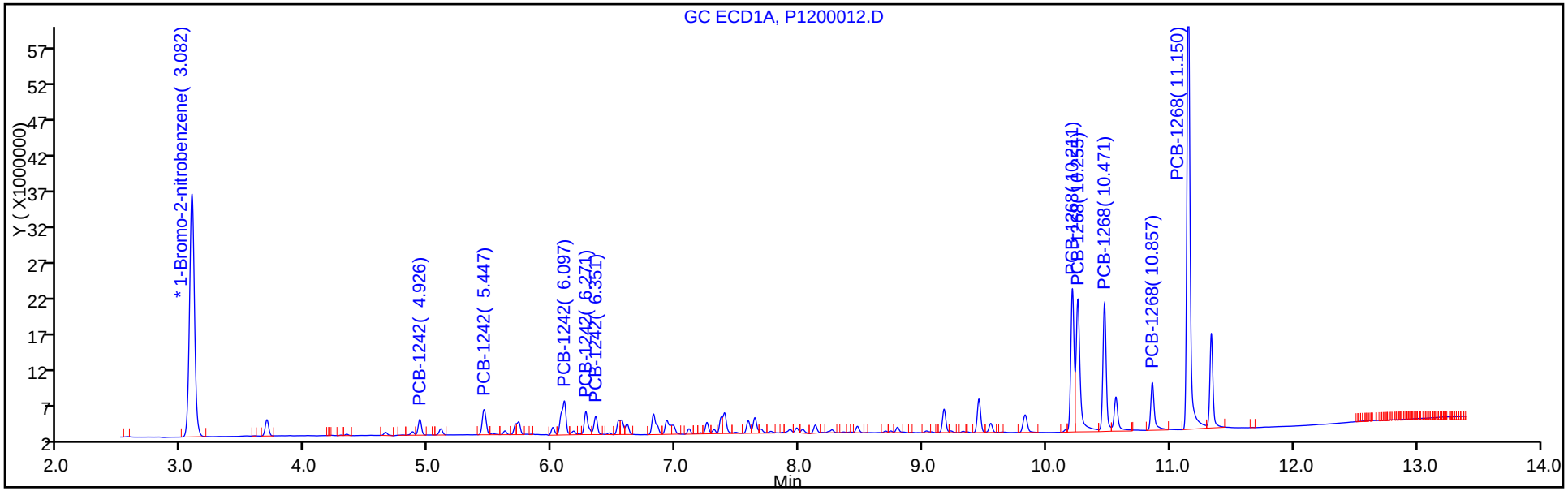
Report Date: 23-Apr-2015 06:28:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

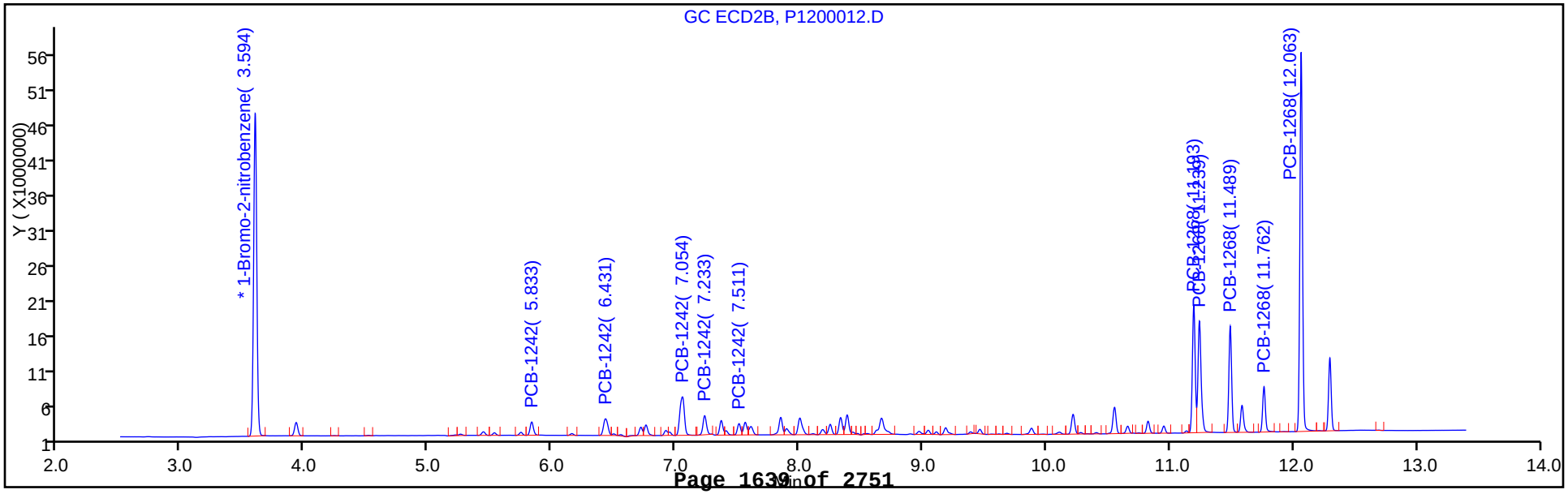
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200012.D

Injection Date:	22-Apr-2015 20:14:31	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1242 1268			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200013.D
Lims ID: STD05 1242 1268
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2015 20:32:42 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-013
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:17 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:59:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.085	3.083	0.002	91383389	0.0500	0.0500	
2	3.594	3.593	0.001	79168448	0.0500	0.0500	
5 PCB-1242							M
1	4.928	4.926	0.002	10666880	0.5000	0.4755	
1	5.448	5.447	0.001	20266578	0.5000	0.4781	
1	6.098	6.099	-0.001	37181079	0.5000	0.5142	M
1	6.271	6.270	0.001	18806092	0.5000	0.4868	M
1	6.353	6.348	0.005	12464246	0.5000	0.4516	M
		Average of Peak Amounts =				0.4812	
2	5.833	5.832	0.001	9015130	0.5000	0.4615	
2	6.429	6.433	-0.004	15287801	0.5000	0.4905	
2	7.054	7.053	0.001	37967607	0.5000	0.4835	
2	7.233	7.234	-0.001	14122347	0.5000	0.4582	
2	7.510	7.511	-0.001	7440975	0.5000	0.4674	
		Average of Peak Amounts =				0.4722	
						RPD = 1.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	107127599	0.5000	0.4996	
1	10.254	10.254	0.000	121291746	0.5000	0.5022	
1	10.470	10.470	0.000	96397323	0.5000	0.5013	
1	10.859	10.858	0.001	38100176	0.5000	0.4977	
1	11.150	11.150	0.000	328300689	0.5000	0.5002	
		Average of Peak Amounts =				0.5002	
2	11.194	11.193	0.001	80541654	0.5000	0.4956	
2	11.239	11.239	0.000	79695926	0.5000	0.4936	
2	11.489	11.489	0.000	65737647	0.5000	0.4952	
2	11.762	11.762	0.000	27343839	0.5000	0.4777	
2	12.064	12.063	0.001	223269489	0.5000	0.4998	
		Average of Peak Amounts =				0.4924	
						RPD = 1.58	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG4268@0.5PPM_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

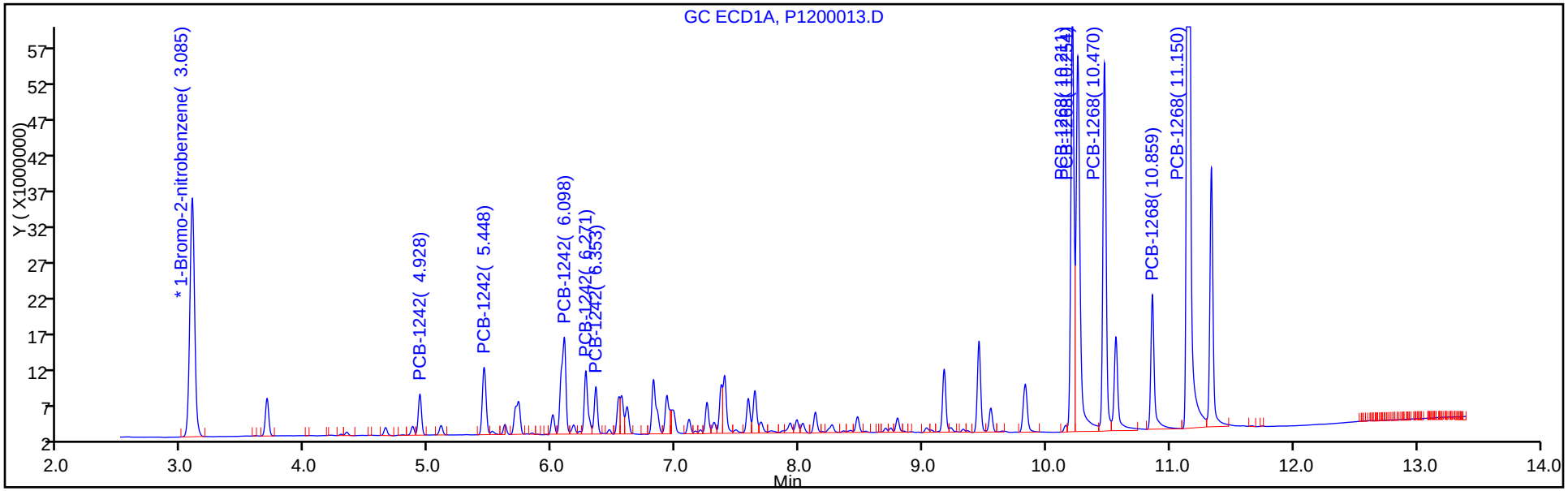
Report Date: 23-Apr-2015 06:28:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

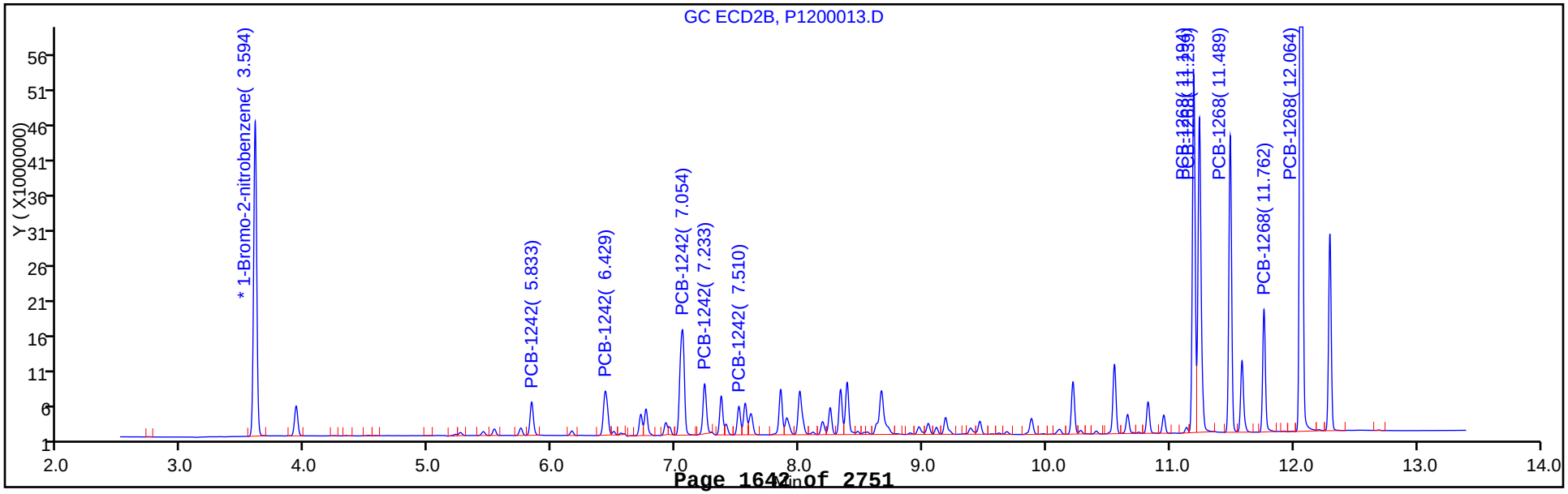
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200013.D

Injection Date:	22-Apr-2015 20:32:42	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1242 1268			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 06:28:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200013.D

Injection Date: 22-Apr-2015 20:32:42 Instrument ID: A2HP12

Lims ID: STD05 1242 1268

Client ID:

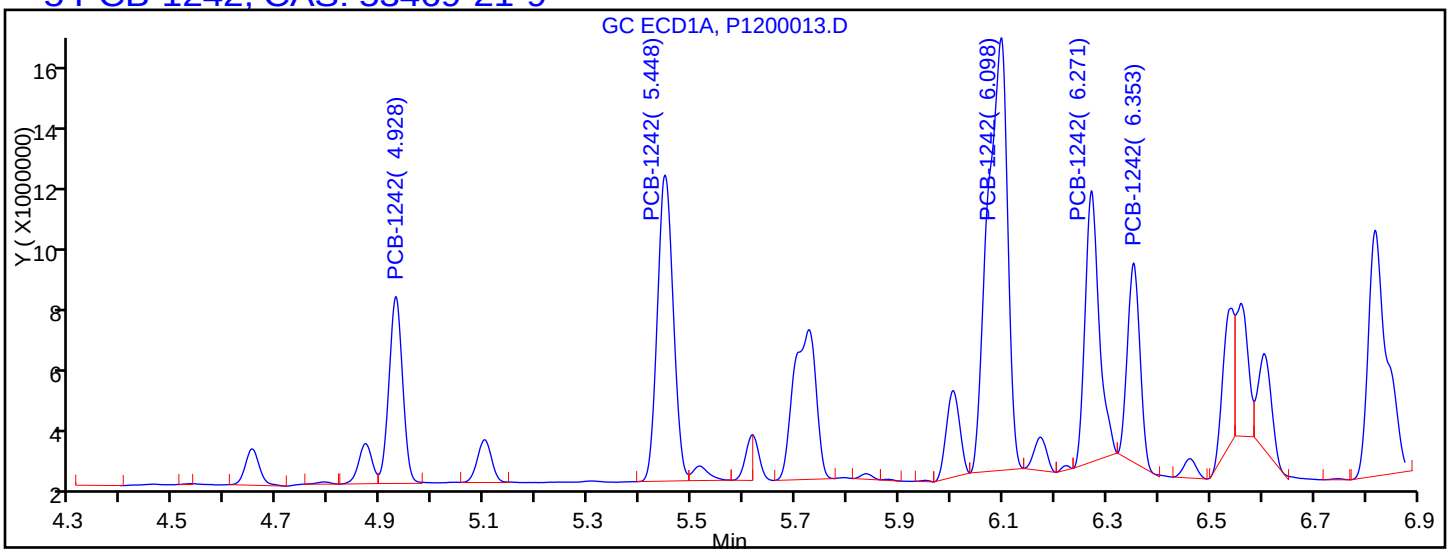
Operator ID: ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

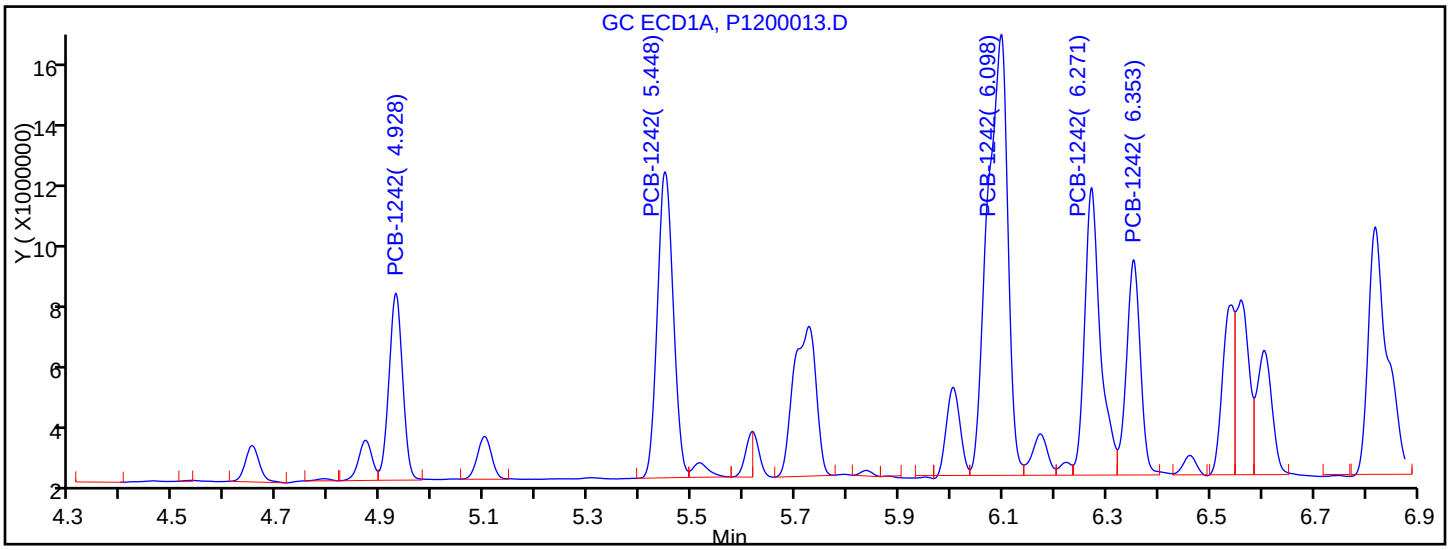
Column: Detector GC ECD1A

5 PCB-1242, CAS: 53469-21-9



Processing Integration Results

RT = 4.928	Response = 10666880	
RT = 5.448	Response = 20266578	
RT = 6.098	Response = 35647704	M
RT = 6.271	Response = 16005751	M
RT = 6.353	Response = 10448065	M



Manual Integration Results

RT = 4.928	Response = 10666880	
RT = 5.448	Response = 20266578	
RT = 6.098	Response = 37181079	M
RT = 6.271	Response = 18806092	M
RT = 6.353	Response = 12464246	M

Reviewer: hassl, 23-Apr-2015 06:18:09

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200014.D
Lims ID: STD1 1242 1268
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2015 20:50:46 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-014
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:20 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.087	3.083	0.003	81414888	0.0500	0.0500	
2	3.595	3.593	0.002	70711446	0.0500	0.0500	
5 PCB-1242							
1	4.928	4.926	0.002	19487273	1.00	0.9750	
1	5.448	5.447	0.001	37959430	1.00	1.01	
1	6.097	6.099	-0.002	73537532	1.00	1.14	
1	6.272	6.270	0.002	36233596	1.00	1.05	
1	6.352	6.348	0.004	24386137	1.00	1.01	
		Average of Peak Amounts =				1.04	
2	5.832	5.832	0.000	16307260	1.00	0.9346	
2	6.429	6.433	-0.004	28641920	1.00	1.03	
2	7.052	7.053	-0.001	72843335	1.00	1.04	
2	7.232	7.234	-0.002	28145854	1.00	1.02	
2	7.511	7.511	0.000	13573682	1.00	0.9547	
		Average of Peak Amounts =				1.00	
						RPD = 4.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.210	10.211	-0.001	214566787	1.00	1.12	
1	10.253	10.254	-0.001	232027257	1.00	1.08	
1	10.469	10.470	-0.001	186855878	1.00	1.09	
1	10.857	10.858	-0.001	75691977	1.00	1.11	
1	11.150	11.150	0.000	652574099	1.00	1.12	
		Average of Peak Amounts =				1.10	
2	11.192	11.193	-0.001	155129055	1.00	1.07	
2	11.238	11.239	-0.001	154581540	1.00	1.07	
2	11.488	11.489	-0.001	126381653	1.00	1.07	
2	11.762	11.762	0.000	52731334	1.00	1.03	
2	12.063	12.063	0.000	435806643	1.00	1.09	
		Average of Peak Amounts =				1.07	
						RPD = 3.47	

Reagents:

SG42/68@1.0PP_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

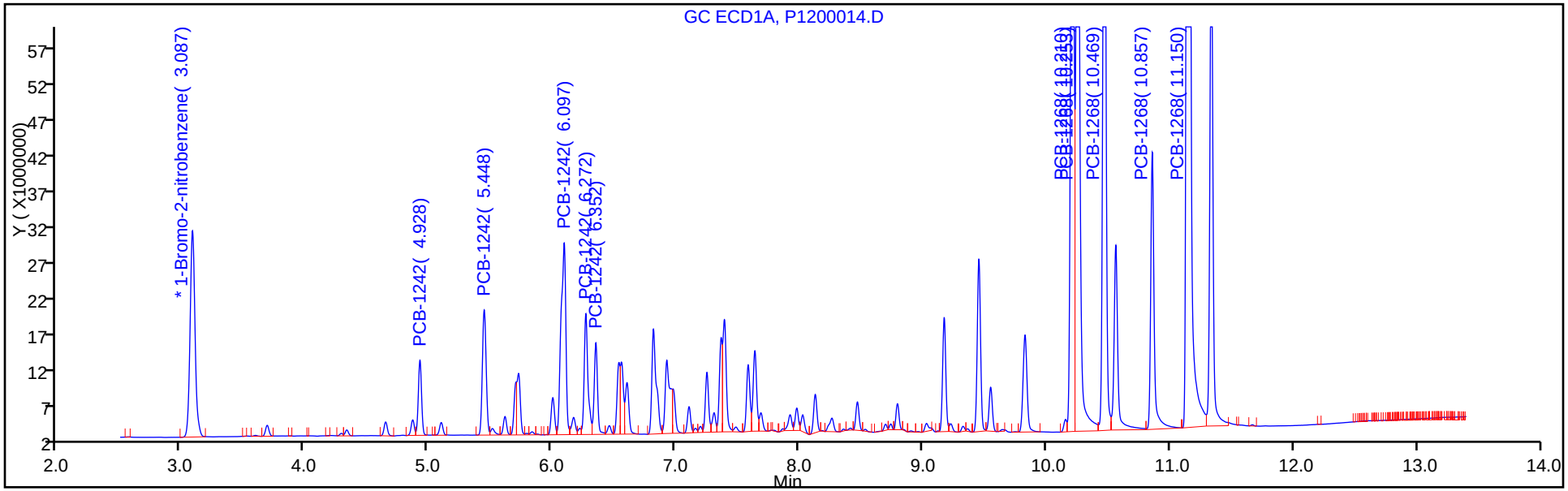
Report Date: 23-Apr-2015 06:28:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

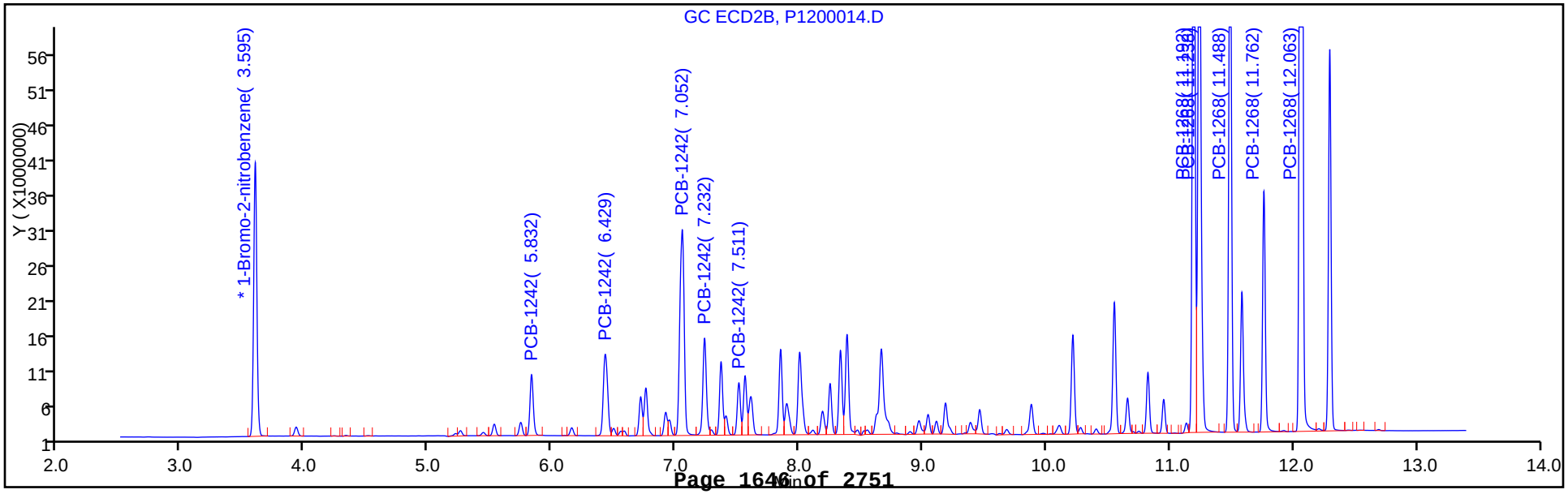
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200014.D

Injection Date:	22-Apr-2015 20:50:46	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1242 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200015.D
Lims ID: STD2 1242 1268
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2015 21:08:49 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-015
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:22 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.086	3.083	0.002	82018879	0.0500	0.0500	
2	3.594	3.593	0.001	71094223	0.0500	0.0500	
5 PCB-1242							
1	4.927	4.926	0.001	38881607	2.00	1.93	
1	5.447	5.447	0.000	75258297	2.00	1.98	
1	6.096	6.099	-0.003	149499082	2.00	2.30	
1	6.272	6.270	0.002	73632326	2.00	2.12	
1	6.352	6.348	0.004	49262466	2.00	2.05	
		Average of Peak Amounts =				2.08	
2	5.832	5.832	0.000	31361232	2.00	1.79	
2	6.428	6.433	-0.005	56547063	2.00	2.02	
2	7.052	7.053	-0.001	146428049	2.00	2.08	
2	7.232	7.234	-0.002	55909493	2.00	2.02	
2	7.510	7.511	-0.001	26453978	2.00	1.85	
		Average of Peak Amounts =				1.95	
						RPD = 6.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	450731522	2.00	2.34	
1	10.254	10.254	0.000	469027430	2.00	2.16	
1	10.470	10.470	0.000	386500117	2.00	2.24	
1	10.857	10.858	-0.001	155128898	2.00	2.26	
1	11.150	11.150	0.000	1366352858	2.00	2.32	
		Average of Peak Amounts =				2.26	
2	11.192	11.193	-0.001	318153059	2.00	2.18	
2	11.237	11.239	-0.002	315185383	2.00	2.17	
2	11.487	11.489	-0.002	257894997	2.00	2.16	
2	11.762	11.762	0.000	107172623	2.00	2.08	
2	12.062	12.063	-0.001	896143979	2.00	2.23	
		Average of Peak Amounts =				2.17	
						RPD = 4.39	

Reagents:

SG4268@2.0PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

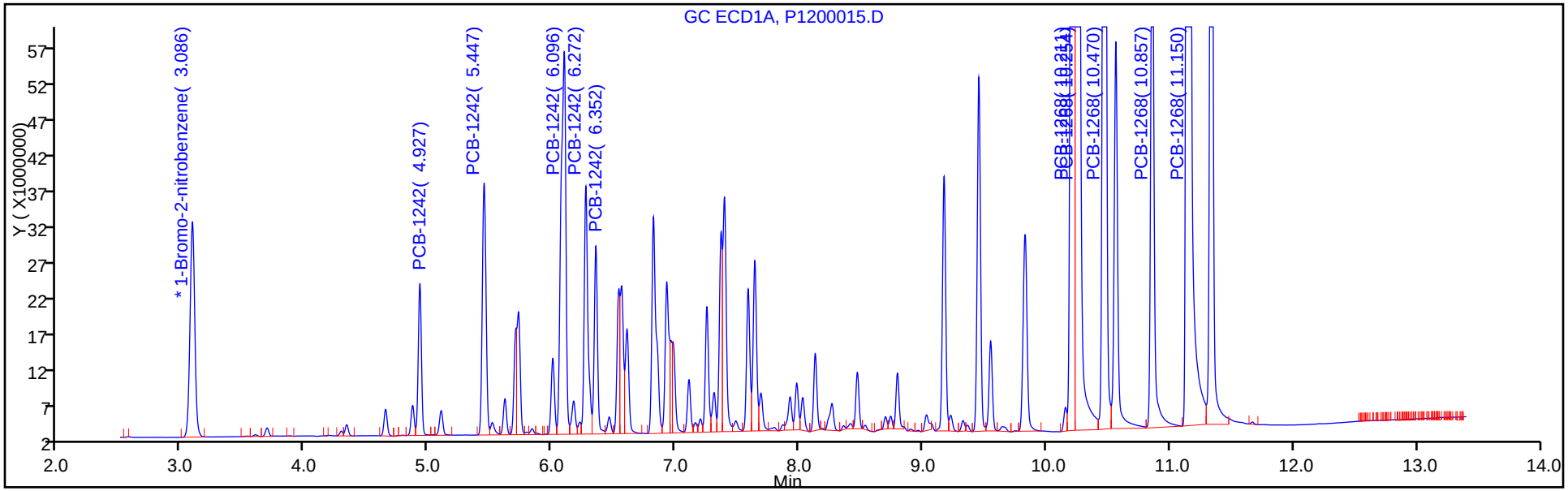
Report Date: 23-Apr-2015 06:28:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

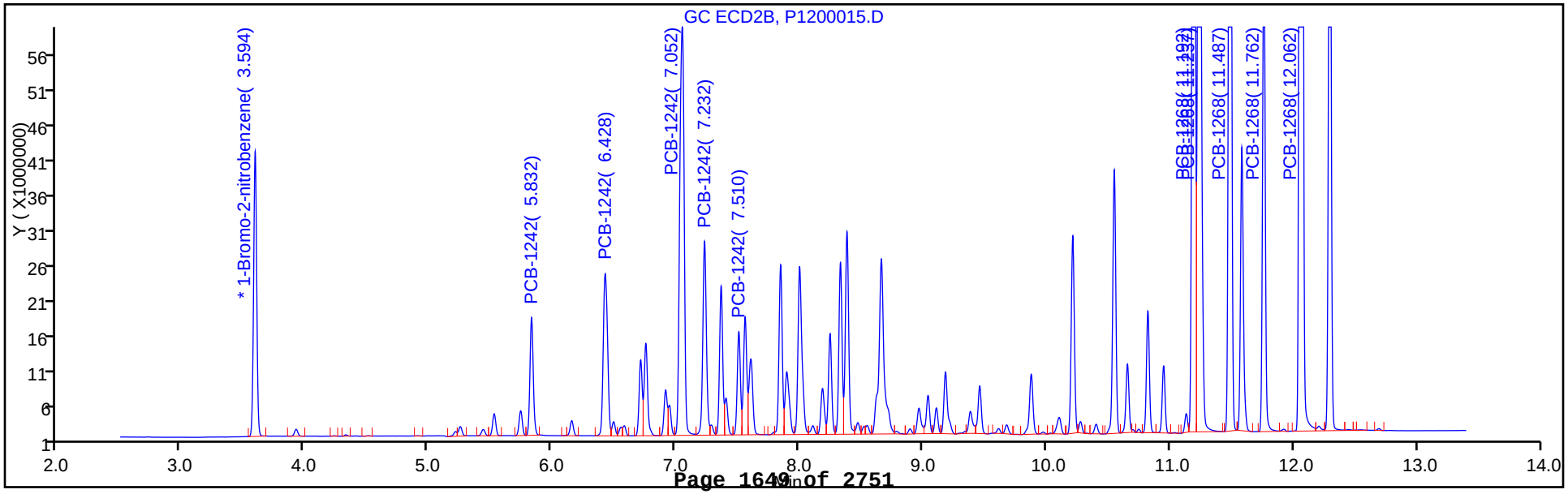
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200015.D

Injection Date:	22-Apr-2015 21:08:49	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1242 1268			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 19:38 Calibration End Date: 04/22/2015 21:08 Calibration ID: 28050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/10	P1200010.D
Level 2	STD01 240-177497/11	P1200011.D
Level 3	STD02 240-177497/12	P1200012.D
Level 4	STD05 240-177497/13	P1200013.D
Level 5	STD1 240-177497/14	P1200014.D
Level 6	STD2 240-177497/15	P1200015.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0162 0.0110	0.0129	0.0109	0.0114	0.0115	Ave		0.0123				16.5		20.0			
PCB-1242 Peak 2	0.0186 0.0199	0.0219	0.0181	0.0193	0.0203	Ave		0.0197				6.9		20.0			
PCB-1242 Peak 3	0.0563 0.0515	0.0475	0.0428	0.0480	0.0515	Ave		0.0496				9.2		20.0			
PCB-1242 Peak 4	0.0221 0.0197	0.0206	0.0167	0.0178	0.0199	Ave		0.0195				9.9		20.0			
PCB-1242 Peak 5	0.0126 0.0093	0.0104	0.0090	0.0094	0.0096	Ave		0.0101				13.3		20.0			
PCB-1268 Peak 1	0.1088 0.1119	0.0955	0.0882	0.1017	0.1097	Ave		0.1026				9.1		20.0			
PCB-1268 Peak 2	0.1087 0.1108	0.0950	0.0874	0.1007	0.1093	Ave		0.1020				9.2		20.0			
PCB-1268 Peak 3	0.0895 0.0907	0.0782	0.0722	0.0830	0.0894	Ave		0.0838				8.9		20.0			
PCB-1268 Peak 4	0.0393 0.0377	0.0371	0.0309	0.0345	0.0373	Ave		0.0362				8.2		20.0			
PCB-1268 Peak 5	0.2851 0.3151	0.2588	0.2435	0.2820	0.3082	Ave		0.2821				9.8		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 19:38 | Calibration End Date: 04/22/2015 21:08 | Calibration ID: 28050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/10	P1200010.D
Level 2	STD01 240-177497/11	P1200011.D
Level 3	STD02 240-177497/12	P1200012.D
Level 4	STD05 240-177497/13	P1200013.D
Level 5	STD1 240-177497/14	P1200014.D
Level 6	STD2 240-177497/15	P1200015.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	1163437 31361232	2092742	3594252	9015130	16307260	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	1333945 56547063	3548109	5964933	15287801	28641920	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	4037558 146428049	7679681	14107840	37967607	72843335	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	1583320 55909493	3335526	5499211	14122347	28145854	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	903790 26453978	1687170	2960420	7440975	13573682	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 1	BNB	Ave	7803482 318153059	15449552	29049882	80541654	155129055	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 2	BNB	Ave	7797150 315185383	15360805	28776995	79695926	154581540	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 3	BNB	Ave	6420768 257894997	12646302	23775395	65737647	126381653	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 4	BNB	Ave	2820051 107172623	6004369	10191795	27343839	52731334	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1268 Peak 5	BNB	Ave	20446008 896143979	41851156	80220056	223269489	435806643	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200010.D
Lims ID: STD005 1242 1268
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 19:38:24 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-010
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:08 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:16:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.083	3.083	0.000	83711302	0.0500	0.0500	
2	3.593	3.593	0.000	71709732	0.0500	0.0500	
5 PCB-1242							
1	4.926	4.926	0.000	1224375	0.0500	0.0596	
1	5.447	5.447	0.000	2256926	0.0500	0.0581	
1	6.099	6.099	0.000	2770907	0.0500	0.0418	
1	6.270	6.270	0.000	1872929	0.0500	0.0529	
1	6.348	6.348	0.000	1950090	0.0500	0.0610	
		Average of Peak Amounts =				0.0547	
2	5.832	5.832	0.000	1163437	0.0500	0.0658	
2	6.433	6.433	0.000	1333945	0.0500	0.0473	
2	7.053	7.053	0.000	4037558	0.0500	0.0568	
2	7.234	7.234	0.000	1583320	0.0500	0.0567	
2	7.511	7.511	0.000	903790	0.0500	0.0627	
		Average of Peak Amounts =				0.0578	
						RPD = 5.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	9798942	0.0500	0.0499	
1	10.254	10.254	0.000	11468188	0.0500	0.0518	
1	10.470	10.470	0.000	8959798	0.0500	0.0509	
1	10.858	10.858	0.000	3485828	0.0500	0.0497	
1	11.150	11.150	0.000	29535717	0.0500	0.0491	
		Average of Peak Amounts =				0.0503	
2	11.193	11.193	0.000	7803482	0.0500	0.0530	
2	11.239	11.239	0.000	7797150	0.0500	0.0533	
2	11.489	11.489	0.000	6420768	0.0500	0.0534	
2	11.762	11.762	0.000	2820051	0.0500	0.0544	
2	12.063	12.063	0.000	20446008	0.0500	0.0505	
		Average of Peak Amounts =				0.0529	
						RPD = 5.12	

Reagents:

SG4268@.05PPM_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

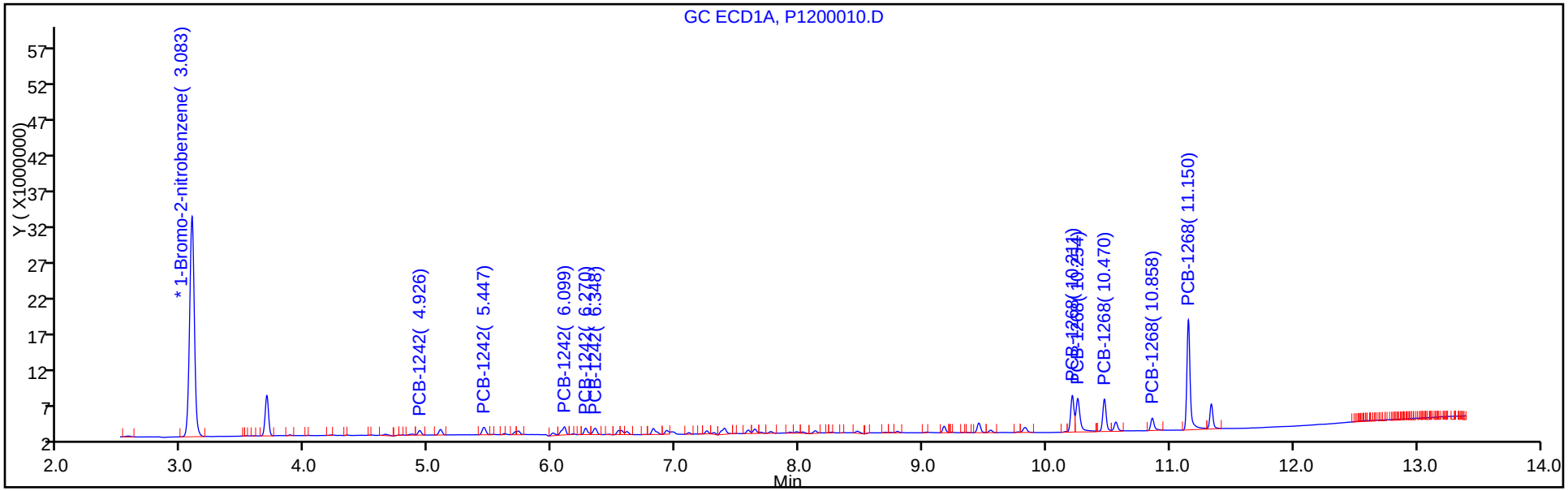
Report Date: 23-Apr-2015 06:28:10 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

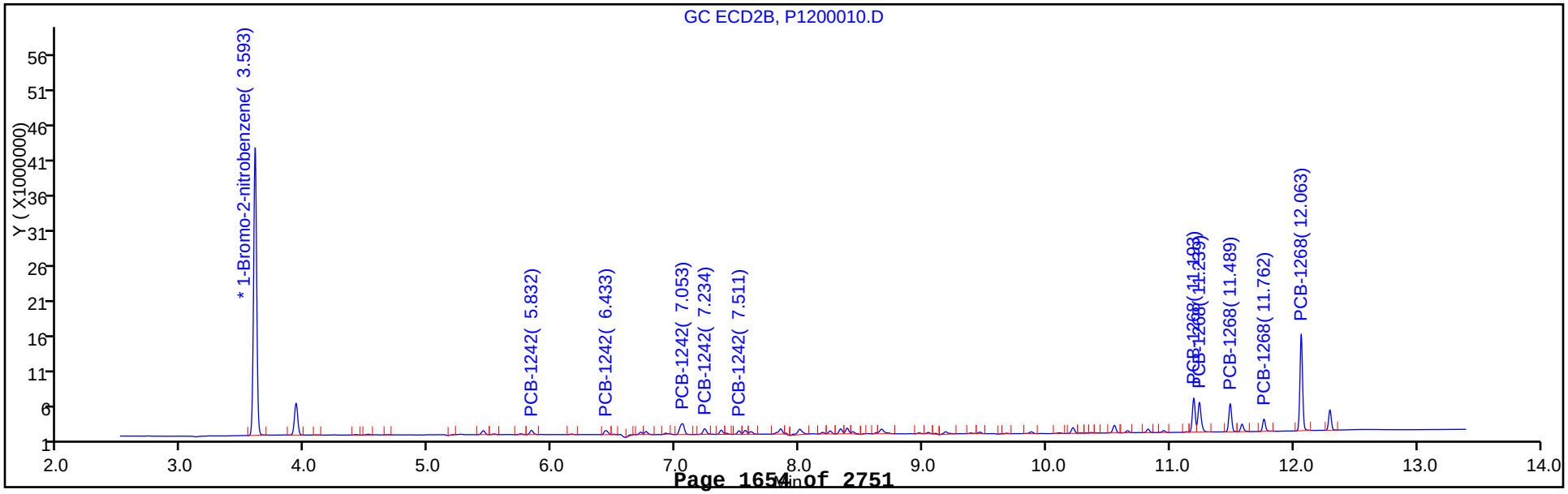
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200010.D

Injection Date:	22-Apr-2015 19:38:24	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1242 1268			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200011.D
Lims ID: STD01 1242 1268
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 19:56:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-011
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:11 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:54:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.083	3.083	-0.001	94329031	0.0500	0.0500	
2	3.594	3.593	0.001	80857033	0.0500	0.0500	
5 PCB-1242							
1	4.927	4.926	0.001	2372993	0.1000	0.1025	
1	5.446	5.447	-0.001	4411142	0.1000	0.1008	
1	6.096	6.099	-0.003	7201715	0.1000	0.0965	
1	6.270	6.270	0.000	3907779	0.1000	0.0980	
1	6.348	6.348	0.000	3233474	0.1000	0.0990	
		Average of Peak Amounts =				0.0993	
2	5.832	5.832	0.000	2092742	0.1000	0.1049	
2	6.428	6.433	-0.005	3548109	0.1000	0.1115	
2	7.053	7.053	0.000	7679681	0.1000	0.0958	
2	7.233	7.234	-0.001	3335526	0.1000	0.1060	
2	7.511	7.511	0.000	1687170	0.1000	0.1038	
		Average of Peak Amounts =				0.1044	
						RPD = 4.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	19343869	0.1000	0.0874	
1	10.254	10.254	0.000	23368463	0.1000	0.0937	
1	10.470	10.470	0.000	18243546	0.1000	0.0919	
1	10.858	10.858	0.000	7156782	0.1000	0.0906	
1	11.150	11.150	0.000	60442238	0.1000	0.0892	
		Average of Peak Amounts =				0.0906	
2	11.194	11.193	0.001	15449552	0.1000	0.0931	
2	11.240	11.239	0.001	15360805	0.1000	0.0931	
2	11.489	11.489	0.000	12646302	0.1000	0.0933	
2	11.763	11.762	0.001	6004369	0.1000	0.1027	
2	12.063	12.063	0.000	41851156	0.1000	0.0917	
		Average of Peak Amounts =				0.0948	
						RPD = 4.56	

Reagents:

SG4268@.1PPM_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

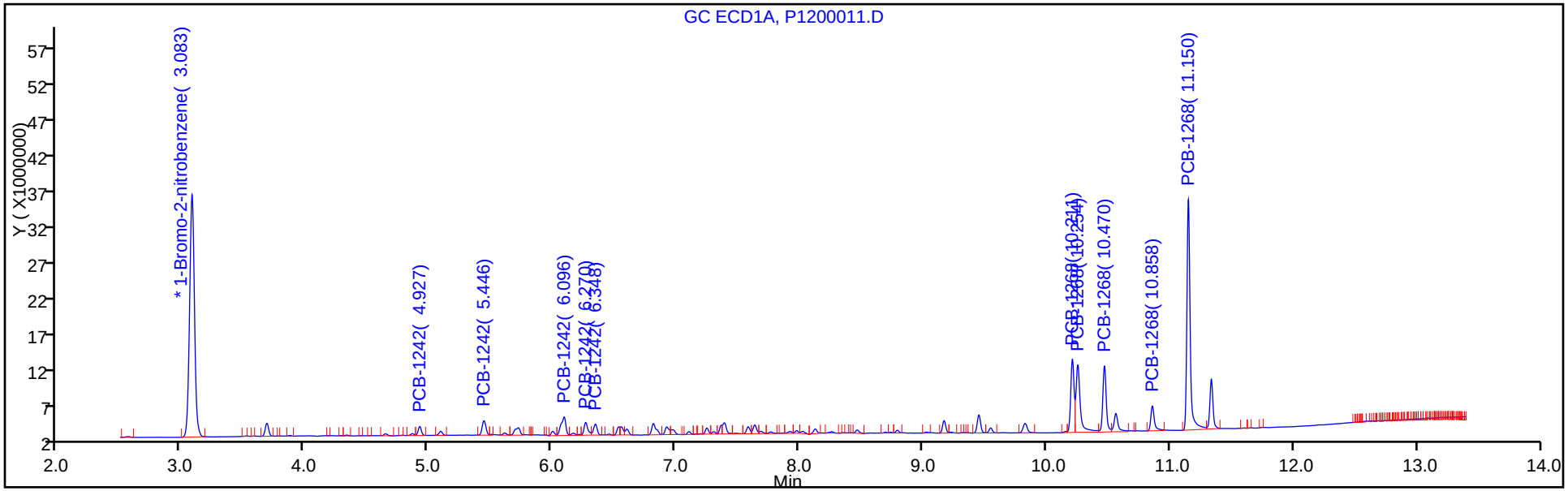
Report Date: 23-Apr-2015 06:28:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

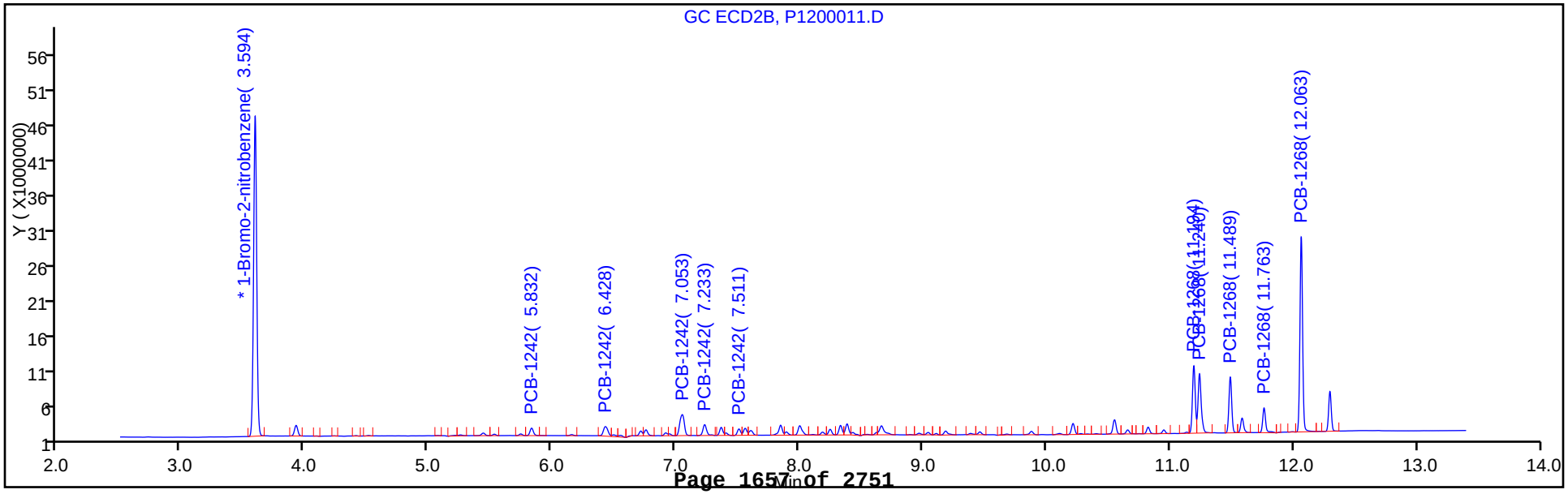
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200011.D

Injection Date:	22-Apr-2015 19:56:28	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1242 1268			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200012.D
Lims ID: STD02 1242 1268
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 20:14:31 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-012
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:15 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.082	3.083	-0.001	95838430	0.0500	0.0500	
2	3.594	3.593	0.001	82348803	0.0500	0.0500	
5 PCB-1242							
1	4.926	4.926	0.000	4198544	0.2000	0.1784	
1	5.447	5.447	0.000	7818925	0.2000	0.1759	
1	6.097	6.099	-0.002	13291867	0.2000	0.1753	
1	6.271	6.270	0.001	7073883	0.2000	0.1746	
1	6.351	6.348	0.003	5221997	0.2000	0.1688	
		Average of Peak Amounts =				0.1746	
2	5.833	5.832	0.001	3594252	0.2000	0.1769	
2	6.431	6.433	-0.002	5964933	0.2000	0.1840	
2	7.054	7.053	0.001	14107840	0.2000	0.1727	
2	7.233	7.234	-0.001	5499211	0.2000	0.1715	
2	7.511	7.511	0.000	2960420	0.2000	0.1788	
		Average of Peak Amounts =				0.1768	
						RPD = 1.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	37537412	0.2000	0.1669	
1	10.255	10.254	0.001	43656374	0.2000	0.1723	
1	10.471	10.470	0.001	34290644	0.2000	0.1700	
1	10.857	10.858	-0.001	13912342	0.2000	0.1733	
1	11.150	11.150	0.000	116862603	0.2000	0.1698	
		Average of Peak Amounts =				0.1705	
2	11.193	11.193	0.000	29049882	0.2000	0.1718	
2	11.239	11.239	0.000	28776995	0.2000	0.1713	
2	11.489	11.489	0.000	23775395	0.2000	0.1722	
2	11.762	11.762	0.000	10191795	0.2000	0.1712	
2	12.063	12.063	0.000	80220056	0.2000	0.1726	
		Average of Peak Amounts =				0.1718	
						RPD = 0.80	

Reagents:

SG4268@.2PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

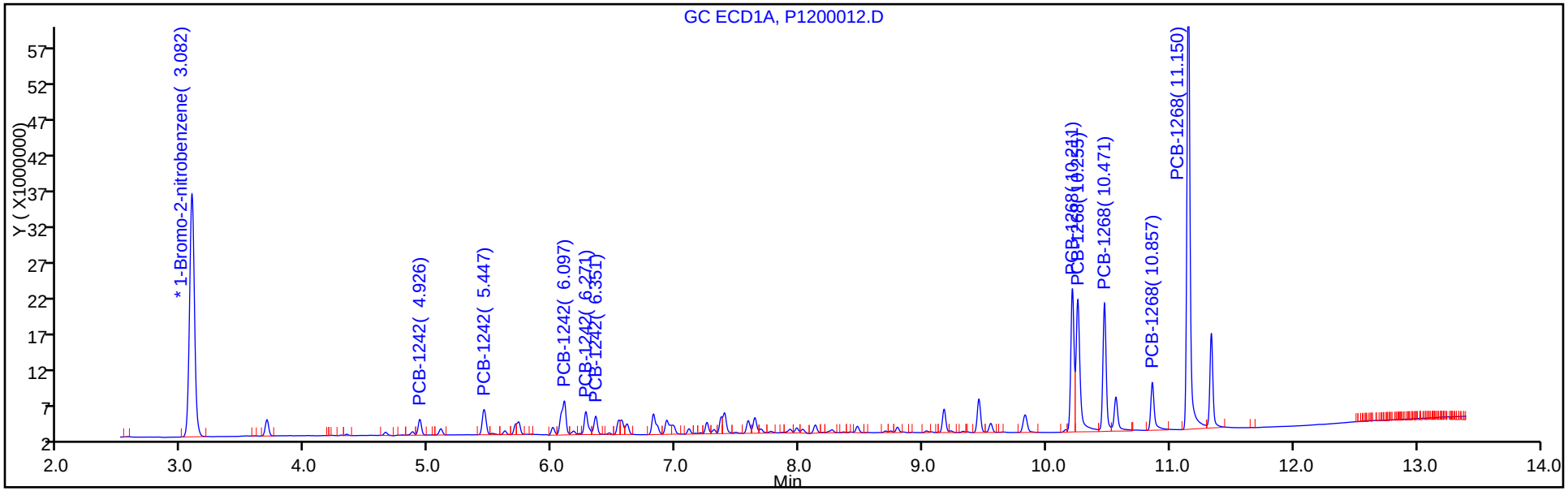
Report Date: 23-Apr-2015 06:28:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

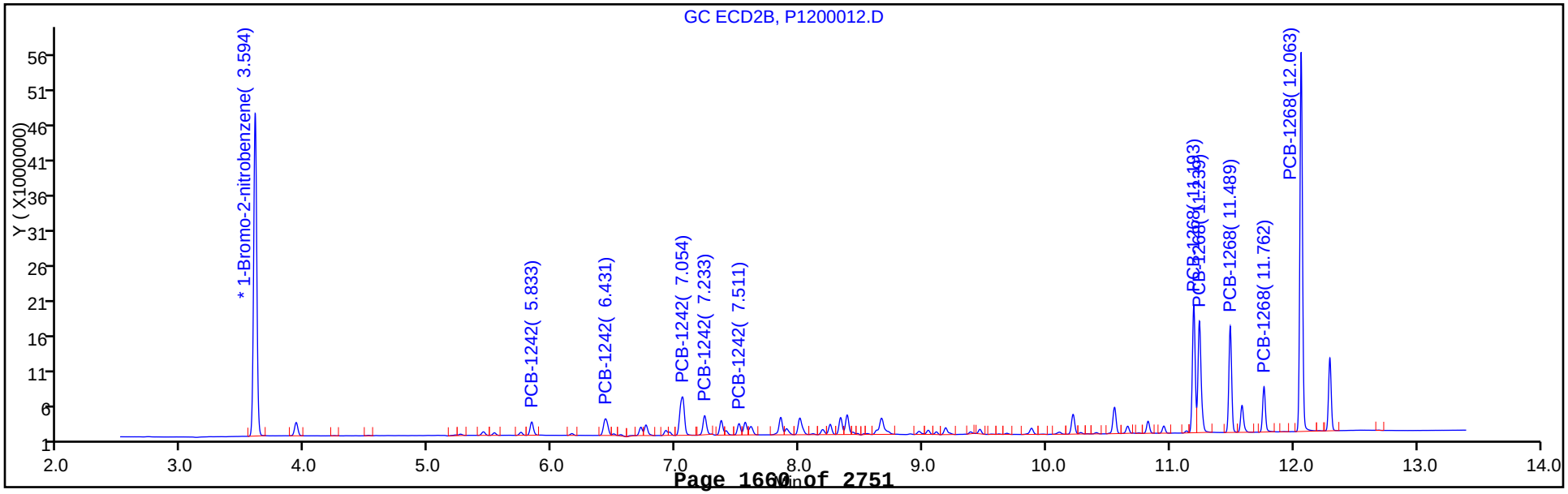
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200012.D

Injection Date:	22-Apr-2015 20:14:31	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1242 1268			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200013.D
Lims ID: STD05 1242 1268
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2015 20:32:42 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-013
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:17 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 05:59:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.085	3.083	0.002	91383389	0.0500	0.0500	
2	3.594	3.593	0.001	79168448	0.0500	0.0500	
5 PCB-1242							M
1	4.928	4.926	0.002	10666880	0.5000	0.4755	
1	5.448	5.447	0.001	20266578	0.5000	0.4781	
1	6.098	6.099	-0.001	37181079	0.5000	0.5142	M
1	6.271	6.270	0.001	18806092	0.5000	0.4868	M
1	6.353	6.348	0.005	12464246	0.5000	0.4516	M
		Average of Peak Amounts =				0.4812	
2	5.833	5.832	0.001	9015130	0.5000	0.4615	
2	6.429	6.433	-0.004	15287801	0.5000	0.4905	
2	7.054	7.053	0.001	37967607	0.5000	0.4835	
2	7.233	7.234	-0.001	14122347	0.5000	0.4582	
2	7.510	7.511	-0.001	7440975	0.5000	0.4674	
		Average of Peak Amounts =				0.4722	
						RPD = 1.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	107127599	0.5000	0.4996	
1	10.254	10.254	0.000	121291746	0.5000	0.5022	
1	10.470	10.470	0.000	96397323	0.5000	0.5013	
1	10.859	10.858	0.001	38100176	0.5000	0.4977	
1	11.150	11.150	0.000	328300689	0.5000	0.5002	
		Average of Peak Amounts =				0.5002	
2	11.194	11.193	0.001	80541654	0.5000	0.4956	
2	11.239	11.239	0.000	79695926	0.5000	0.4936	
2	11.489	11.489	0.000	65737647	0.5000	0.4952	
2	11.762	11.762	0.000	27343839	0.5000	0.4777	
2	12.064	12.063	0.001	223269489	0.5000	0.4998	
		Average of Peak Amounts =				0.4924	
						RPD = 1.58	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG4268@0.5PPM_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

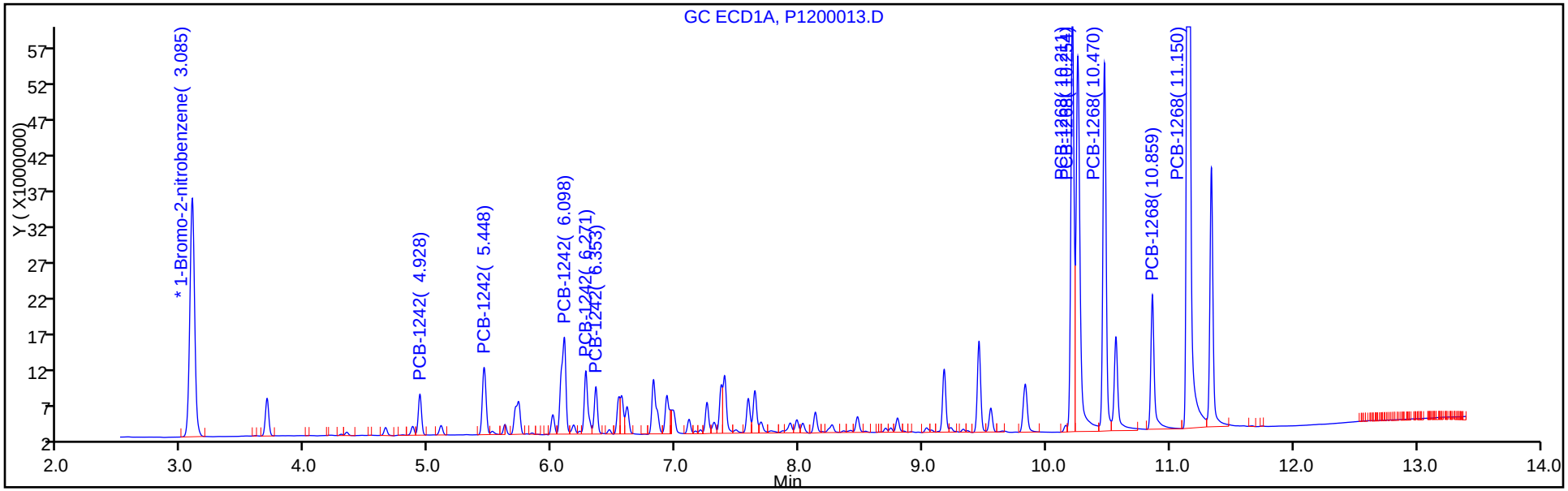
Report Date: 23-Apr-2015 06:28:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

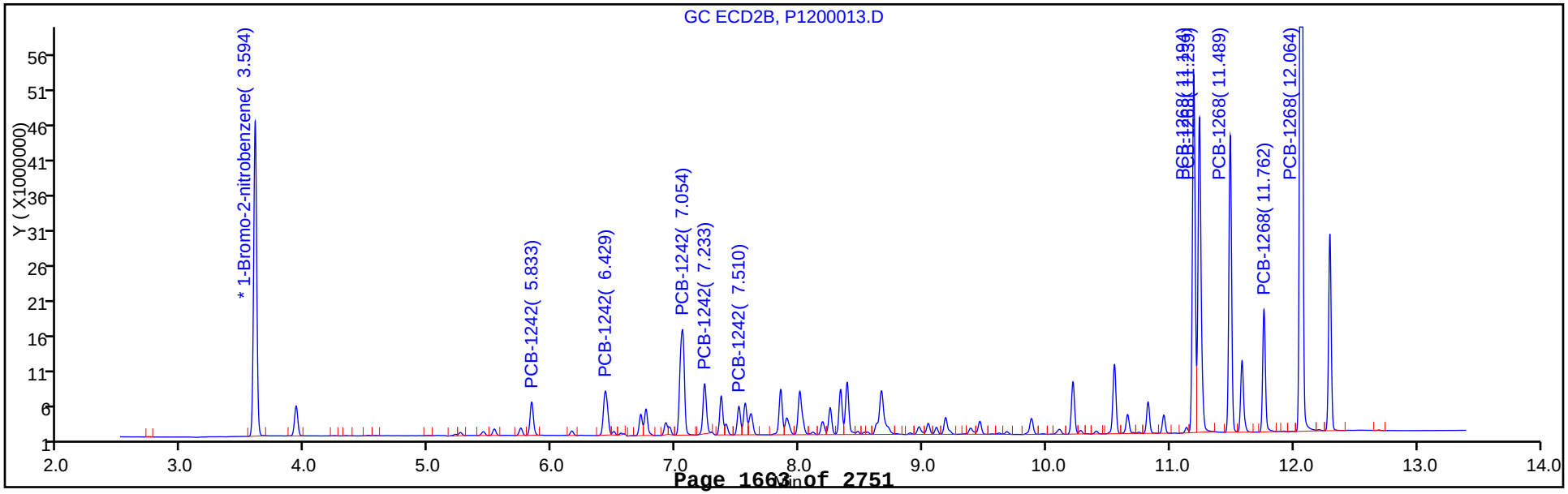
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200013.D

Injection Date:	22-Apr-2015 20:32:42	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1242 1268			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200014.D
Lims ID: STD1 1242 1268
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2015 20:50:46 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-014
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:20 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.087	3.083	0.003	81414888	0.0500	0.0500	
2	3.595	3.593	0.002	70711446	0.0500	0.0500	
5 PCB-1242							
1	4.928	4.926	0.002	19487273	1.00	0.9750	
1	5.448	5.447	0.001	37959430	1.00	1.01	
1	6.097	6.099	-0.002	73537532	1.00	1.14	
1	6.272	6.270	0.002	36233596	1.00	1.05	
1	6.352	6.348	0.004	24386137	1.00	1.01	
		Average of Peak Amounts =				1.04	
2	5.832	5.832	0.000	16307260	1.00	0.9346	
2	6.429	6.433	-0.004	28641920	1.00	1.03	
2	7.052	7.053	-0.001	72843335	1.00	1.04	
2	7.232	7.234	-0.002	28145854	1.00	1.02	
2	7.511	7.511	0.000	13573682	1.00	0.9547	
		Average of Peak Amounts =				1.00	
						RPD = 4.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.210	10.211	-0.001	214566787	1.00	1.12	
1	10.253	10.254	-0.001	232027257	1.00	1.08	
1	10.469	10.470	-0.001	186855878	1.00	1.09	
1	10.857	10.858	-0.001	75691977	1.00	1.11	
1	11.150	11.150	0.000	652574099	1.00	1.12	
		Average of Peak Amounts =				1.10	
2	11.192	11.193	-0.001	155129055	1.00	1.07	
2	11.238	11.239	-0.001	154581540	1.00	1.07	
2	11.488	11.489	-0.001	126381653	1.00	1.07	
2	11.762	11.762	0.000	52731334	1.00	1.03	
2	12.063	12.063	0.000	435806643	1.00	1.09	
		Average of Peak Amounts =				1.07	
						RPD = 3.47	

Reagents:

SG42/68@1.0PP_00003	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

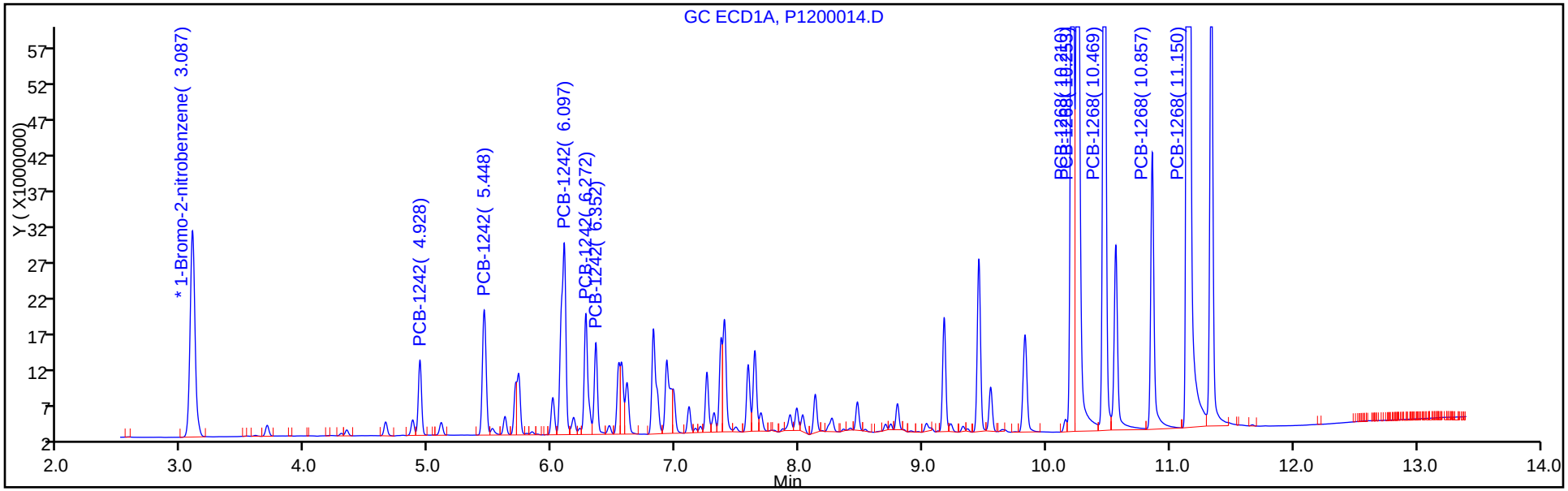
Report Date: 23-Apr-2015 06:28:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

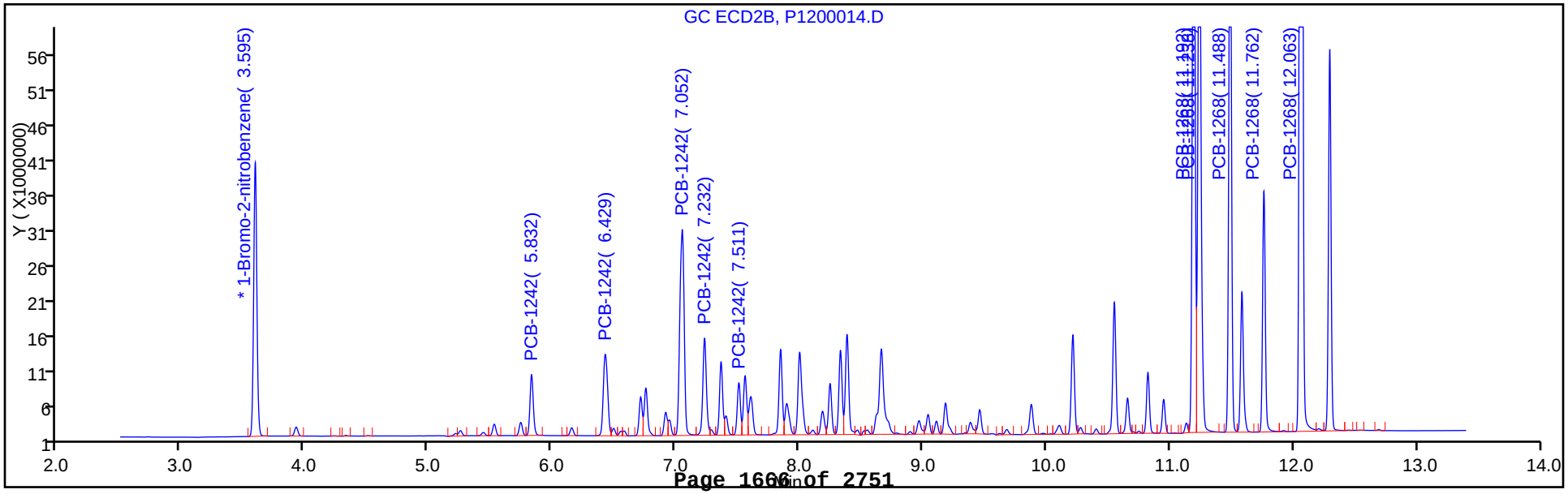
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200014.D

Injection Date:	22-Apr-2015 20:50:46	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1242 1268			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200015.D
Lims ID: STD2 1242 1268
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2015 21:08:49 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-015
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:22 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.086	3.083	0.002	82018879	0.0500	0.0500	
2	3.594	3.593	0.001	71094223	0.0500	0.0500	
5 PCB-1242							
1	4.927	4.926	0.001	38881607	2.00	1.93	
1	5.447	5.447	0.000	75258297	2.00	1.98	
1	6.096	6.099	-0.003	149499082	2.00	2.30	
1	6.272	6.270	0.002	73632326	2.00	2.12	
1	6.352	6.348	0.004	49262466	2.00	2.05	
		Average of Peak Amounts =				2.08	
2	5.832	5.832	0.000	31361232	2.00	1.79	
2	6.428	6.433	-0.005	56547063	2.00	2.02	
2	7.052	7.053	-0.001	146428049	2.00	2.08	
2	7.232	7.234	-0.002	55909493	2.00	2.02	
2	7.510	7.511	-0.001	26453978	2.00	1.85	
		Average of Peak Amounts =				1.95	
						RPD = 6.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.211	10.211	0.000	450731522	2.00	2.34	
1	10.254	10.254	0.000	469027430	2.00	2.16	
1	10.470	10.470	0.000	386500117	2.00	2.24	
1	10.857	10.858	-0.001	155128898	2.00	2.26	
1	11.150	11.150	0.000	1366352858	2.00	2.32	
		Average of Peak Amounts =				2.26	
2	11.192	11.193	-0.001	318153059	2.00	2.18	
2	11.237	11.239	-0.002	315185383	2.00	2.17	
2	11.487	11.489	-0.002	257894997	2.00	2.16	
2	11.762	11.762	0.000	107172623	2.00	2.08	
2	12.062	12.063	-0.001	896143979	2.00	2.23	
		Average of Peak Amounts =				2.17	
						RPD = 4.39	

Reagents:

SG4268@2.0PPM_00002	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

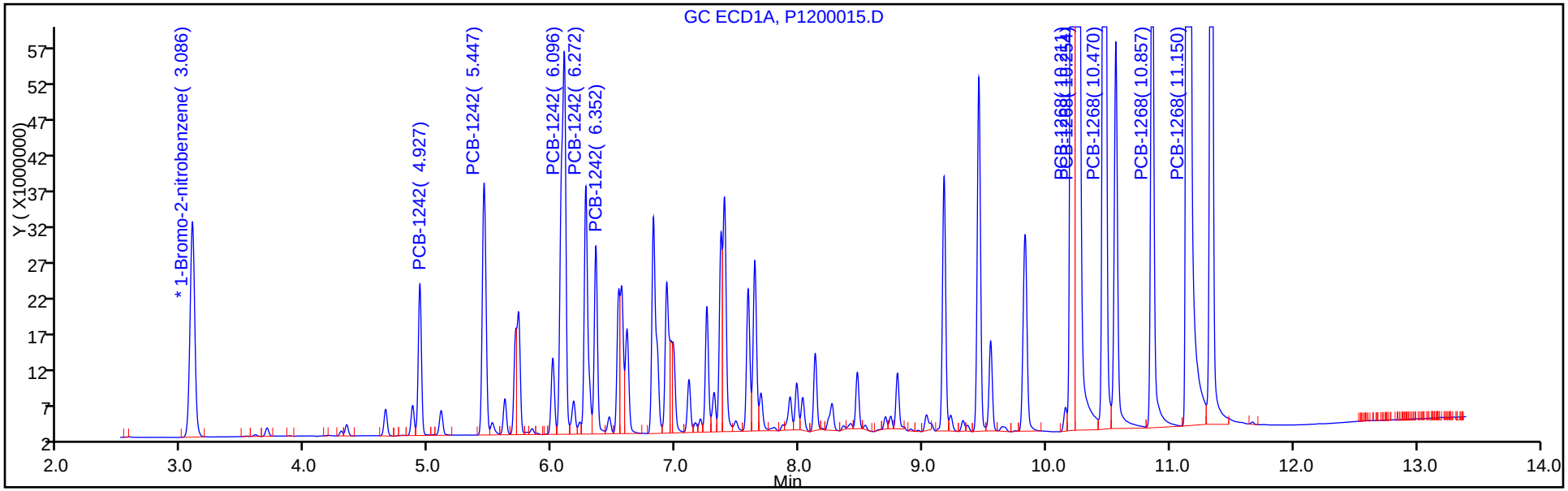
Report Date: 23-Apr-2015 06:28:24 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

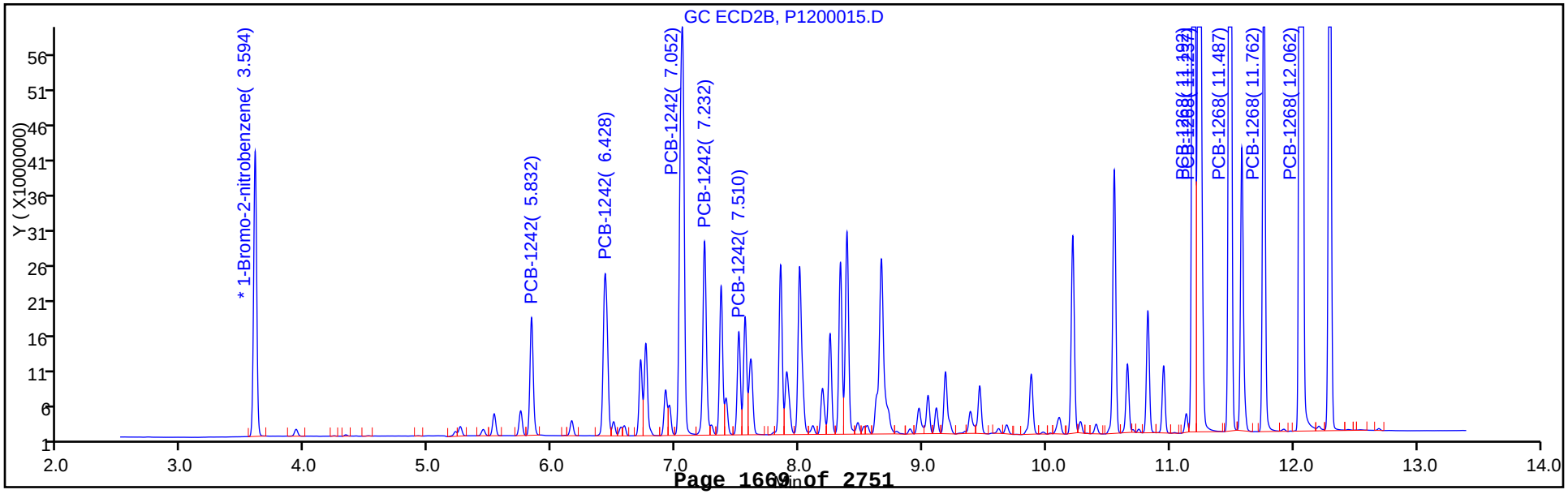
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200015.D

Injection Date:	22-Apr-2015 21:08:49	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1242 1268			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-1 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 21:26 | Calibration End Date: 04/22/2015 22:57 | Calibration ID: 28055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/16	P1200016.D
Level 2	STD01 240-177497/17	P1200017.D
Level 3	STD02 240-177497/18	P1200018.D
Level 4	STD05 240-177497/19	P1200019.D
Level 5	STD1 240-177497/20	P1200020.D
Level 6	STD2 240-177497/21	P1200021.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0121 0.0101	0.0140	0.0102	0.0114	0.0107	Ave		0.0114				13.0		20.0			
PCB-1248 Peak 2	0.0371 0.0342	0.0382	0.0336	0.0366	0.0356	Ave		0.0359				4.9		20.0			
PCB-1248 Peak 3	0.0457 0.0305	0.0316	0.0280	0.0304	0.0319	Ave		0.0330				19.3		20.0			
PCB-1248 Peak 4	0.0275 0.0270	0.0279	0.0250	0.0271	0.0278	Ave		0.0271				4.0		20.0			
PCB-1248 Peak 5	0.0202 0.0183	0.0197	0.0169	0.0178	0.0190	Ave		0.0186				6.5		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-1 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 21:26 | Calibration End Date: 04/22/2015 22:57 | Calibration ID: 28055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/16	P1200016.D
Level 2	STD01 240-177497/17	P1200017.D
Level 3	STD02 240-177497/18	P1200018.D
Level 4	STD05 240-177497/19	P1200019.D
Level 5	STD1 240-177497/20	P1200020.D
Level 6	STD2 240-177497/21	P1200021.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	1137791 37801055	2372960	3745204	9487851	18582641	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	3482336 128524128	6489860	12364978	30594215	61900136	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	4288602 114358185	5369994	10299972	25392161	55525544	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	2581216 101364228	4739559	9196996	22674505	48387283	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	1891316 68558243	3340273	6234582	14864967	33130453	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200016.D
Lims ID: STD005 1248
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 21:26:54 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-016
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:26 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:00:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.086	3.086	0.000	93751955	0.0500	0.0500	
2	3.594	3.594	0.000	81373671	0.0500	0.0500	
7 PCB-1248							
1	5.447	5.447	0.000	1137791	0.0500	0.0532	
1	6.818	6.818	0.000	3482336	0.0500	0.0517	
1	7.395	7.395	0.000	4288602	0.0500	0.0693	
1	7.641	7.641	0.000	2581216	0.0500	0.0509	
1	8.130	8.130	0.000	1891316	0.0500	0.0541	
		Average of Peak Amounts =				0.0558	
2	7.050	7.050	0.000	2699157	0.0500	0.0472	
2	7.511	7.511	0.000	1684024	0.0500	0.0511	
2	8.002	8.002	0.000	3531191	0.0500	0.0601	
2	8.386	8.386	0.000	2925074	0.0500	0.0481	
2	9.184	9.184	0.000	1949176	0.0500	0.0569	
		Average of Peak Amounts =				0.0527	
						RPD = 5.84	

Reagents:

SG1248@.05ppm_00015 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

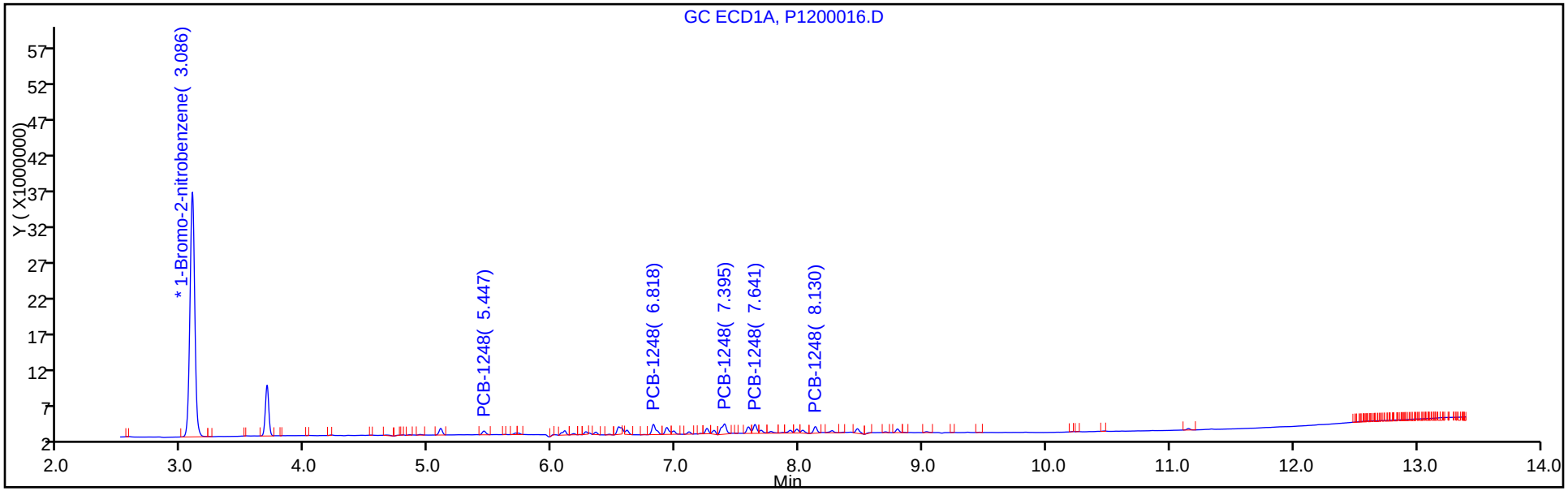
Report Date: 23-Apr-2015 09:04:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

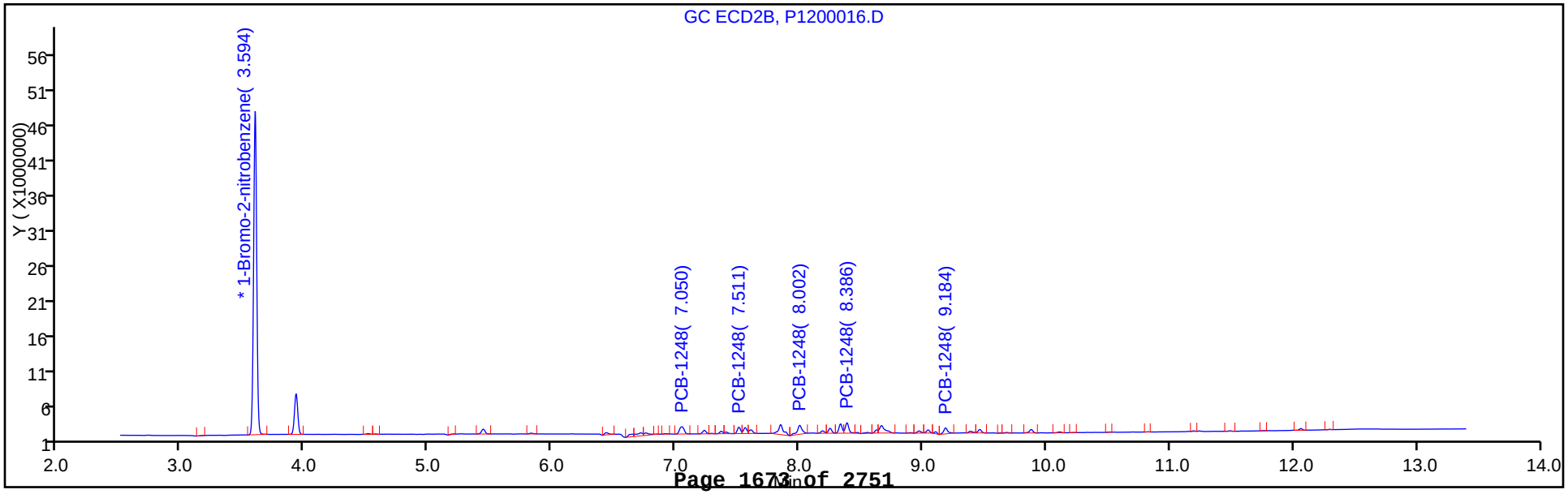
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200016.D

Injection Date:	22-Apr-2015 21:26:54	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1248			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200017.D
Lims ID: STD01 1248
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 21:45:05 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-017
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:23 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.086	-0.027	84938750	0.0500	0.0500	
2	3.598	3.594	0.004	66865837	0.0500	0.0500	
7 PCB-1248							
1	5.426	5.447	-0.021	2372960	0.1000	0.1226	
1	6.797	6.818	-0.021	6489860	0.1000	0.1064	
1	7.372	7.395	-0.023	5369994	0.1000	0.0957	
1	7.618	7.641	-0.023	4739559	0.1000	0.1031	
1	8.106	8.130	-0.024	3340273	0.1000	0.1055	
		Average of Peak Amounts =				0.1067	
2	7.052	7.050	0.002	4961430	0.1000	0.1056	
2	7.514	7.511	0.003	3011908	0.1000	0.1112	
2	8.007	8.002	0.005	5850390	0.1000	0.1213	
2	8.390	8.386	0.004	5418776	0.1000	0.1084	
2	9.187	9.184	0.003	3435291	0.1000	0.1220	
		Average of Peak Amounts =				0.1137	
					RPD =	6.38	

Reagents:

SG1248@0.1PPM_00012 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

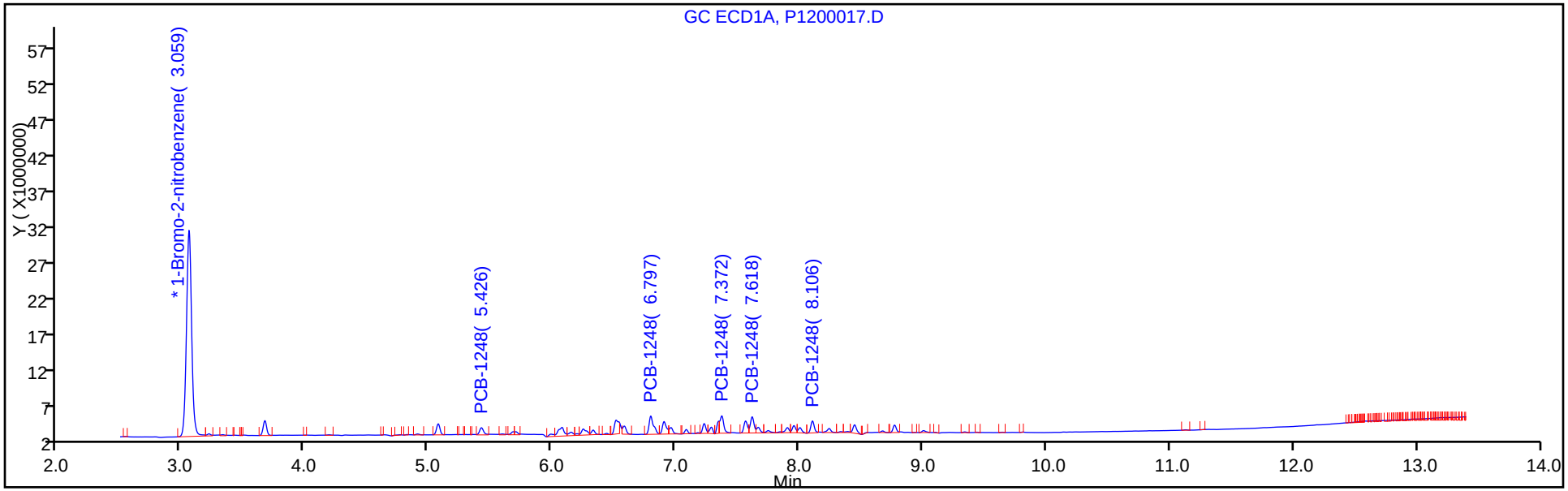
Report Date: 23-Apr-2015 09:04:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

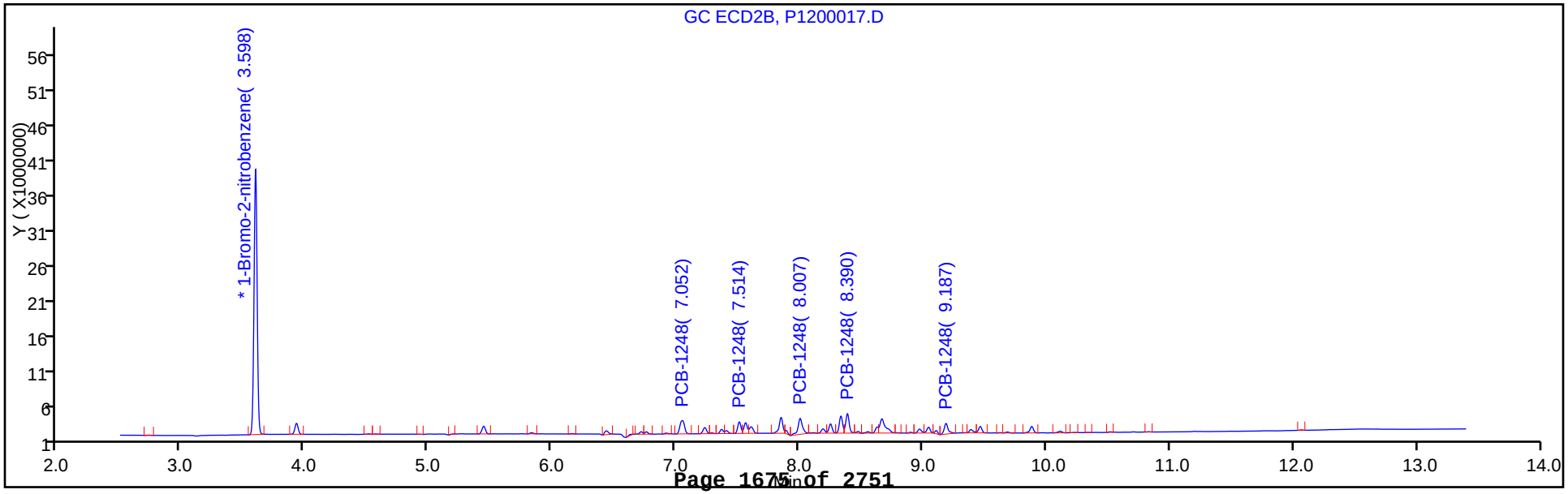
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200017.D

Injection Date:	22-Apr-2015 21:45:05	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1248			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200018.D
Lims ID: STD02 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 22:03:07 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-018
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:21 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.086	-0.027	92010271	0.0500	0.0500	
2	3.597	3.594	0.003	72081837	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	3745204	0.2000	0.1786	
1	6.797	6.818	-0.021	12364978	0.2000	0.1872	
1	7.372	7.395	-0.023	10299972	0.2000	0.1695	
1	7.618	7.641	-0.023	9196996	0.2000	0.1847	
1	8.105	8.130	-0.025	6234582	0.2000	0.1817	
		Average of Peak Amounts =				0.1803	
2	7.053	7.050	0.003	9593788	0.2000	0.1895	
2	7.514	7.511	0.003	5729133	0.2000	0.1962	
2	8.007	8.002	0.005	9760342	0.2000	0.1877	
2	8.389	8.386	0.003	10429204	0.2000	0.1935	
2	9.188	9.184	0.004	5832997	0.2000	0.1922	
		Average of Peak Amounts =				0.1918	
						RPD = 6.16	

Reagents:

SG1248@0.2ppm_00012 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

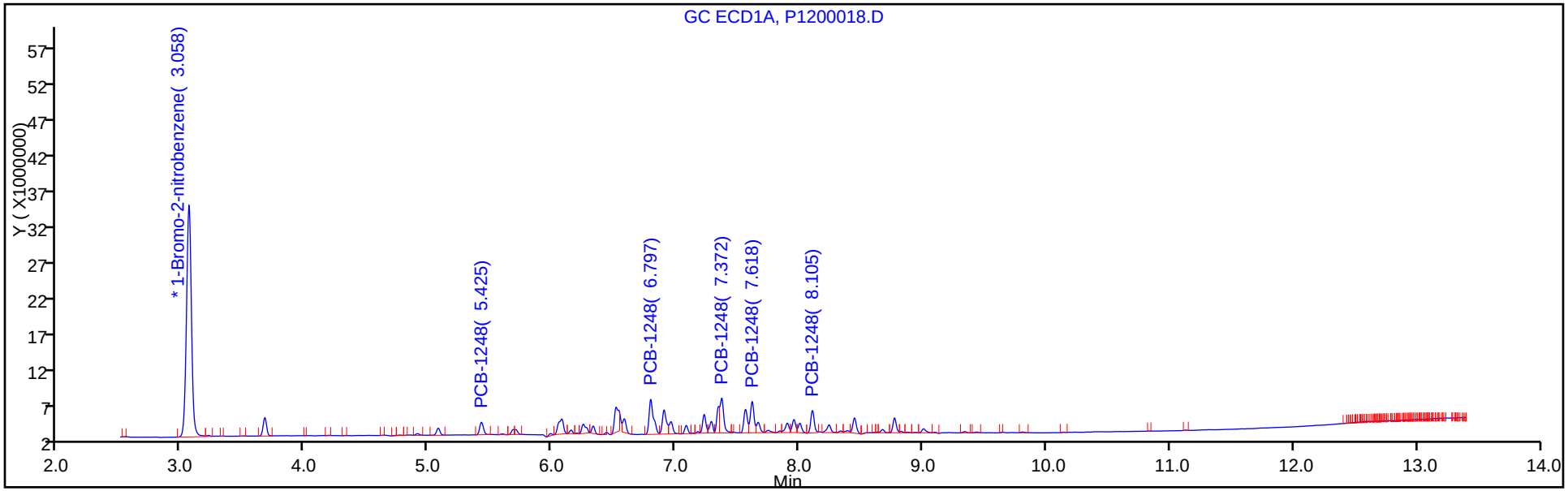
Report Date: 23-Apr-2015 09:04:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

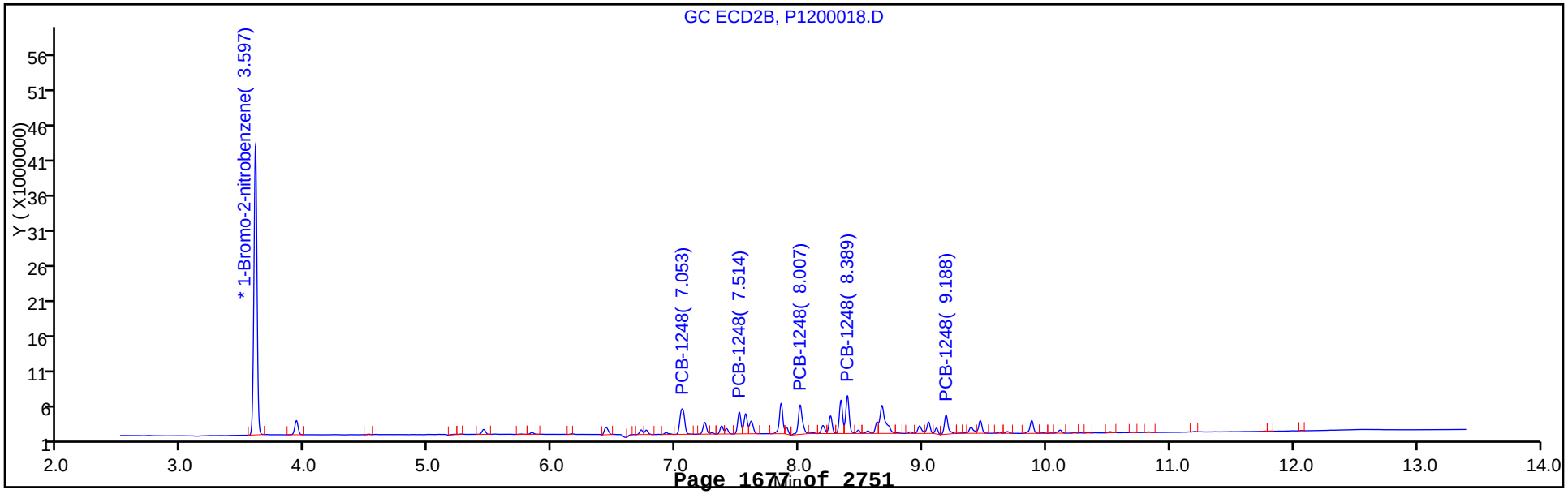
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200018.D

Injection Date:	22-Apr-2015 22:03:07	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1248			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200019.D
Lims ID: STD05 1248
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2015 22:21:09 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-019
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:18 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.086	-0.028	83556317	0.0500	0.0500	
2	3.597	3.594	0.003	66191382	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	9487851	0.5000	0.4982	
1	6.797	6.818	-0.021	30594215	0.5000	0.5101	
1	7.371	7.395	-0.024	25392161	0.5000	0.4602	
1	7.617	7.641	-0.024	22674505	0.5000	0.5014	
1	8.105	8.130	-0.025	14864967	0.5000	0.4771	
		Average of Peak Amounts =				0.4894	
2	7.052	7.050	0.002	25446252	0.5000	0.5473	
2	7.512	7.511	0.001	13711340	0.5000	0.5114	
2	8.006	8.002	0.004	21918733	0.5000	0.4590	
2	8.388	8.386	0.002	25179044	0.5000	0.5087	
2	9.187	9.184	0.003	13025102	0.5000	0.4673	
		Average of Peak Amounts =				0.4987	
						RPD = 1.89	

Reagents:

SG1248@0.5ppm_00015 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

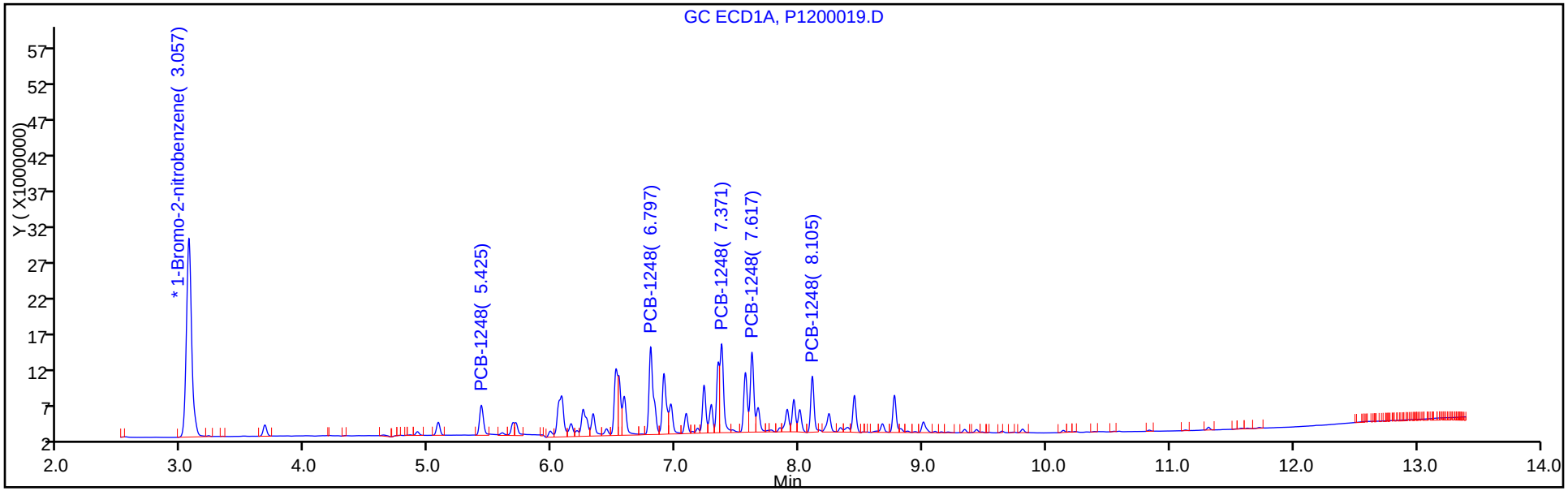
Report Date: 23-Apr-2015 09:04:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

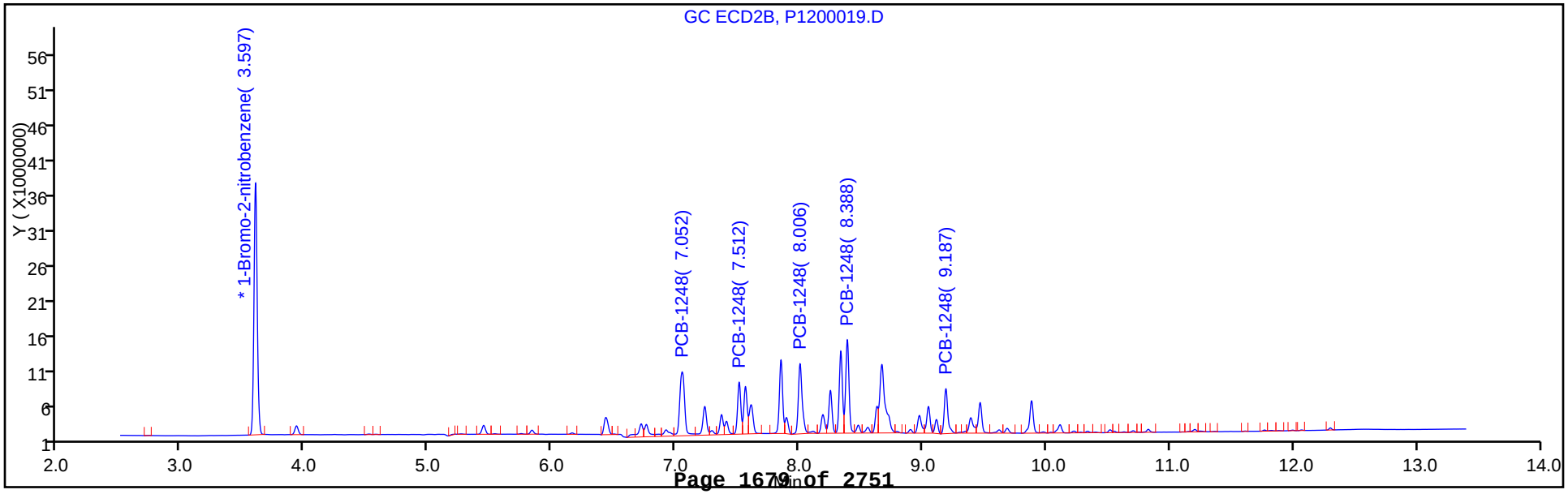
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200019.D

Injection Date:	22-Apr-2015 22:21:09	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1248			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200020.D
Lims ID: STD1 1248
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2015 22:39:12 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-020
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:16 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:14:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.086	-0.028	87031945	0.0500	0.0500	
2	3.596	3.594	0.002	68245603	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	18582641	1.00	0.9367	
1	6.796	6.818	-0.022	61900136	1.00	0.99	
1	7.370	7.395	-0.025	55525544	1.00	0.9662	
1	7.618	7.641	-0.023	48387283	1.00	1.03	
1	8.105	8.130	-0.025	33130453	1.00	1.02	
		Average of Peak Amounts =				0.9884	
2	7.052	7.050	0.002	48380191	1.00	1.01	
2	7.514	7.511	0.003	26595401	1.00	0.9620	
2	8.006	8.002	0.004	43511838	1.00	0.8837	
2	8.390	8.386	0.004	51350533	1.00	1.01	
2	9.188	9.184	0.004	25698189	1.00	0.8943	
		Average of Peak Amounts =				0.9511	
						RPD = 3.85	

Reagents:

SG1248@1.0ppm_00010 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

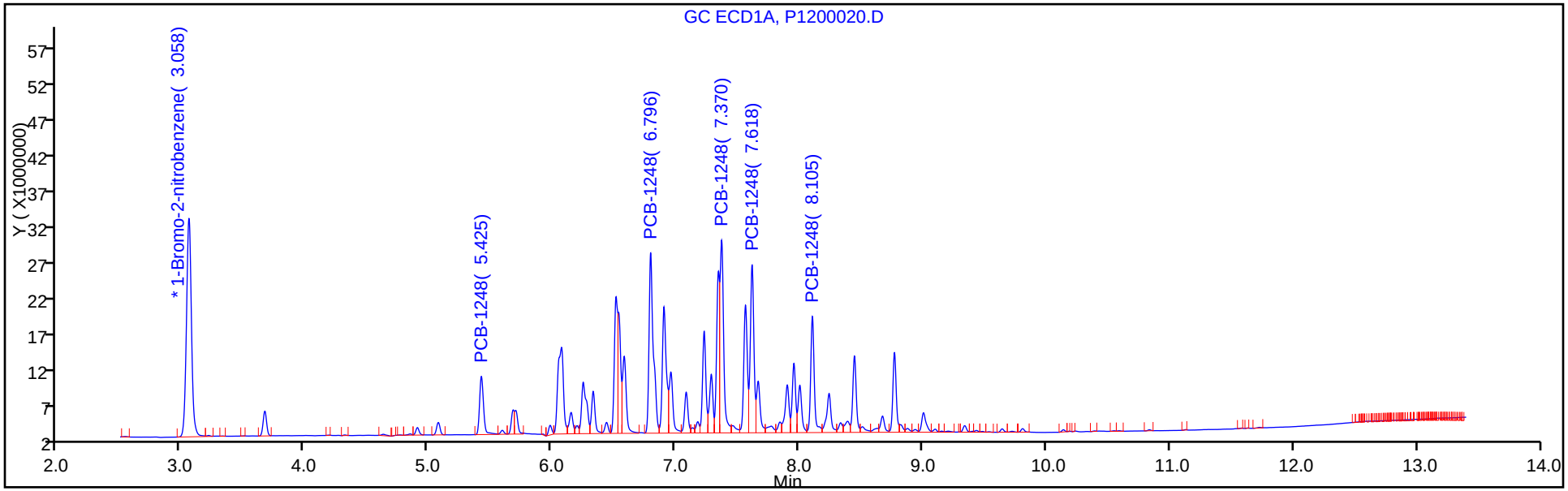
Report Date: 23-Apr-2015 09:04:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

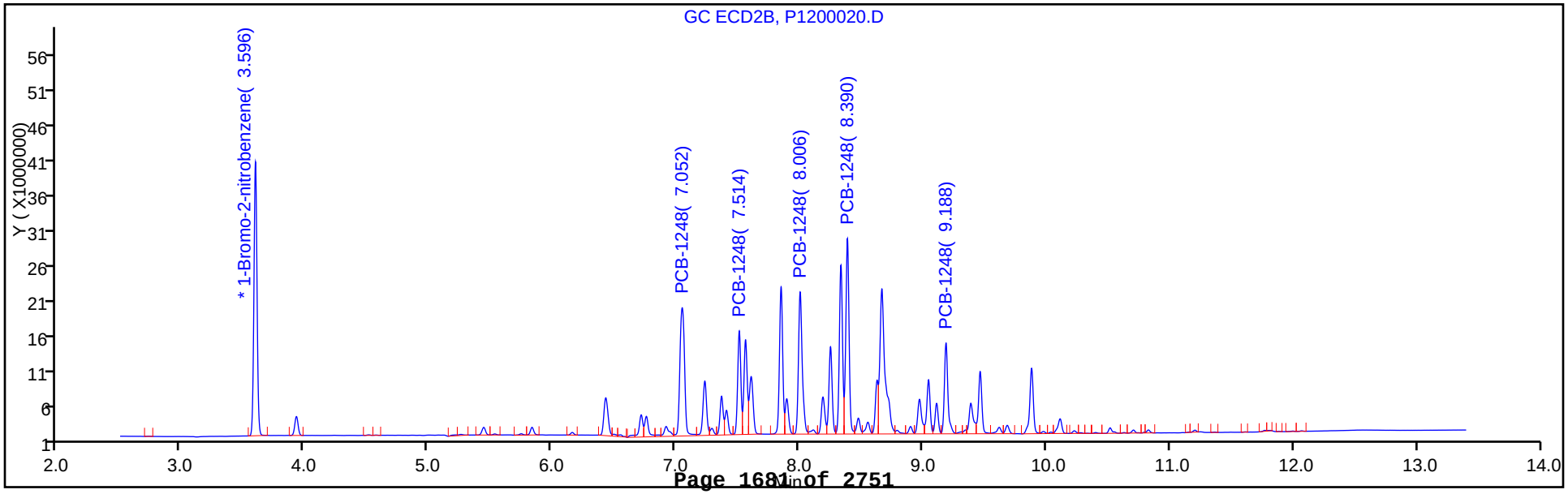
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200020.D

Injection Date:	22-Apr-2015 22:39:12	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1248			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200021.D
Lims ID: STD2 1248
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2015 22:57:22 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-021
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:13 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.086	-0.027	93854932	0.0500	0.0500	
2	3.597	3.594	0.003	73527354	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	37801055	2.00	1.77	
1	6.796	6.818	-0.022	128524128	2.00	1.91	
1	7.371	7.395	-0.024	114358185	2.00	1.85	
1	7.618	7.641	-0.023	101364228	2.00	2.00	
1	8.106	8.130	-0.024	68558243	2.00	1.96	
		Average of Peak Amounts =				1.89	
2	7.051	7.050	0.001	97948186	2.00	1.90	
2	7.514	7.511	0.003	53640865	2.00	1.80	
2	8.006	8.002	0.004	89606637	2.00	1.69	
2	8.390	8.386	0.004	105967813	2.00	1.93	
2	9.187	9.184	0.003	52780784	2.00	1.70	
		Average of Peak Amounts =				1.80	
						RPD = 4.93	

Reagents:

SG1248@2.0ppm_00010 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

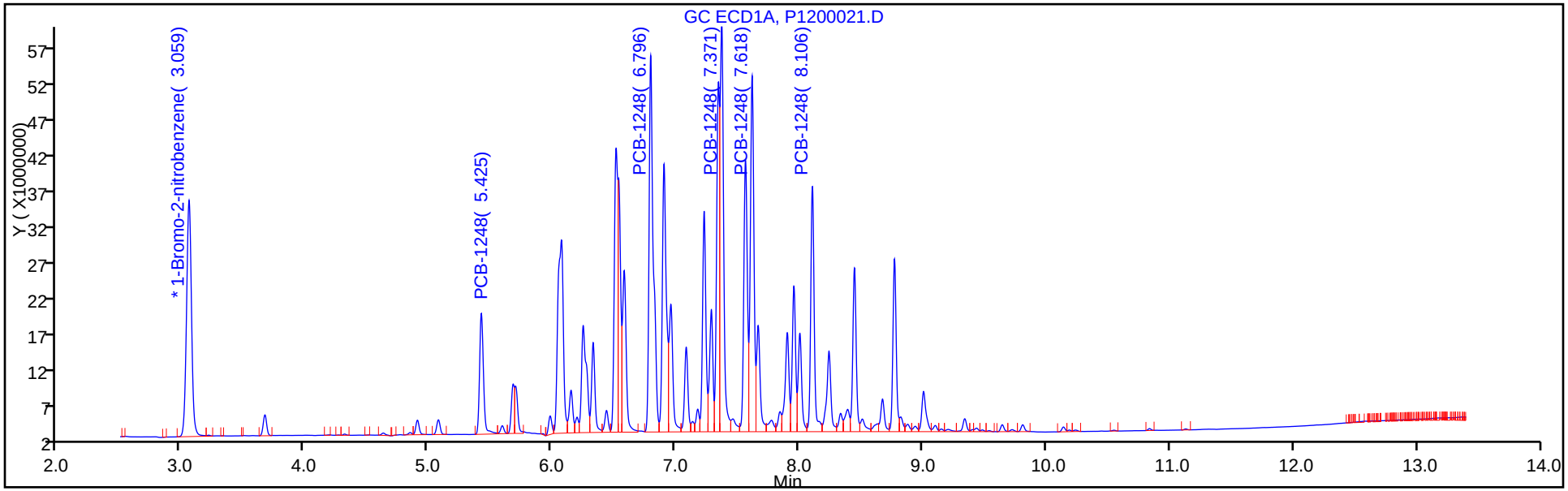
Report Date: 23-Apr-2015 09:04:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

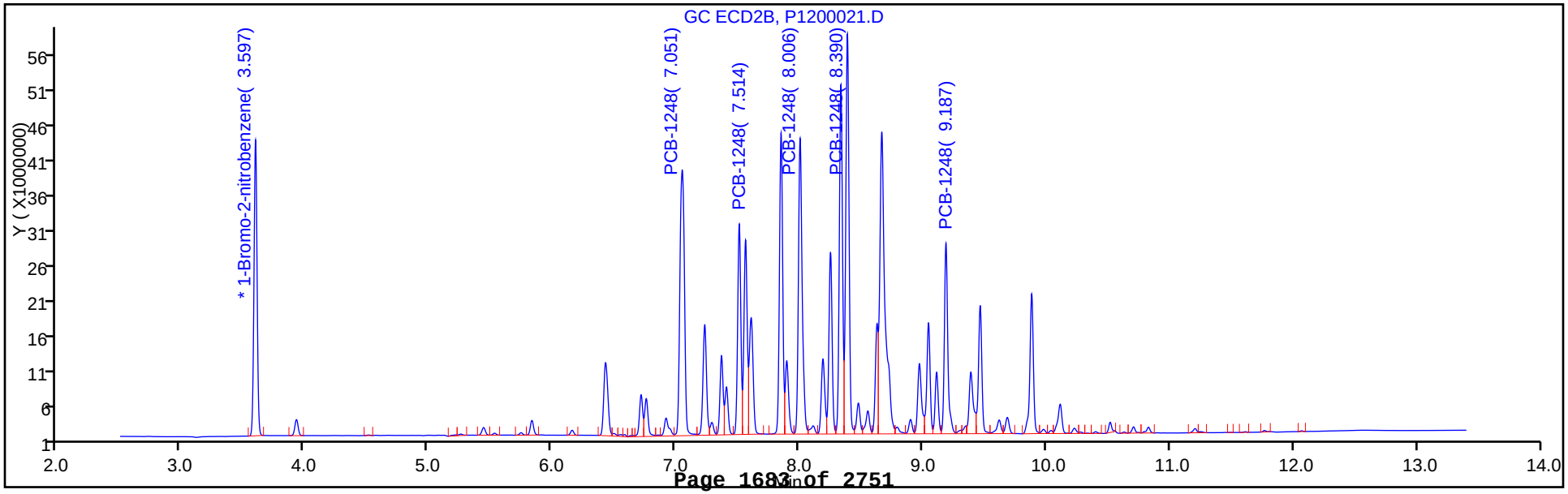
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200021.D

Injection Date:	22-Apr-2015 22:57:22	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1248			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 21:26 | Calibration End Date: 04/22/2015 22:57 | Calibration ID: 28056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/16	P1200016.D
Level 2	STD01 240-177497/17	P1200017.D
Level 3	STD02 240-177497/18	P1200018.D
Level 4	STD05 240-177497/19	P1200019.D
Level 5	STD1 240-177497/20	P1200020.D
Level 6	STD2 240-177497/21	P1200021.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0332 0.0333	0.0371	0.0333	0.0384	0.0354	Ave		0.0351				6.4		20.0			
PCB-1248 Peak 2	0.0207 0.0182	0.0225	0.0199	0.0207	0.0195	Ave		0.0203				7.1		20.0			
PCB-1248 Peak 3	0.0434 0.0305	0.0437	0.0339	0.0331	0.0319	Ave		0.0361				16.4		20.0			
PCB-1248 Peak 4	0.0359 0.0360	0.0405	0.0362	0.0380	0.0376	Ave		0.0374				4.7		20.0			
PCB-1248 Peak 5	0.0240 0.0179	0.0257	0.0202	0.0197	0.0188	Ave		0.0211				14.6		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 21:26 | Calibration End Date: 04/22/2015 22:57 | Calibration ID: 28056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/16	P1200016.D
Level 2	STD01 240-177497/17	P1200017.D
Level 3	STD02 240-177497/18	P1200018.D
Level 4	STD05 240-177497/19	P1200019.D
Level 5	STD1 240-177497/20	P1200020.D
Level 6	STD2 240-177497/21	P1200021.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	2699157 97948186	4961430	9593788	25446252	48380191	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	1684024 53640865	3011908	5729133	13711340	26595401	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	3531191 89606637	5850390	9760342	21918733	43511838	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	2925074 105967813	5418776	10429204	25179044	51350533	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	1949176 52780784	3435291	5832997	13025102	25698189	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200016.D
Lims ID: STD005 1248
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 21:26:54 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-016
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:26 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:00:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.086	3.086	0.000	93751955	0.0500	0.0500	
2	3.594	3.594	0.000	81373671	0.0500	0.0500	
7 PCB-1248							
1	5.447	5.447	0.000	1137791	0.0500	0.0532	
1	6.818	6.818	0.000	3482336	0.0500	0.0517	
1	7.395	7.395	0.000	4288602	0.0500	0.0693	
1	7.641	7.641	0.000	2581216	0.0500	0.0509	
1	8.130	8.130	0.000	1891316	0.0500	0.0541	
		Average of Peak Amounts =				0.0558	
2	7.050	7.050	0.000	2699157	0.0500	0.0472	
2	7.511	7.511	0.000	1684024	0.0500	0.0511	
2	8.002	8.002	0.000	3531191	0.0500	0.0601	
2	8.386	8.386	0.000	2925074	0.0500	0.0481	
2	9.184	9.184	0.000	1949176	0.0500	0.0569	
		Average of Peak Amounts =				0.0527	
						RPD = 5.84	

Reagents:

SG1248@.05ppm_00015 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

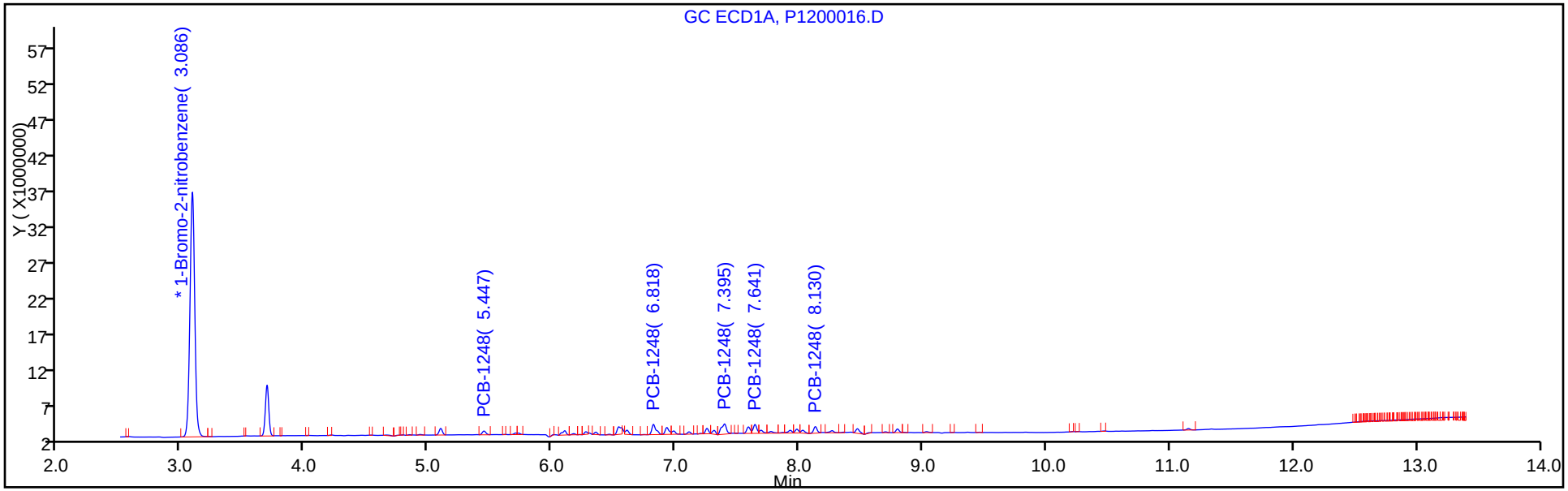
Report Date: 23-Apr-2015 09:04:27 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

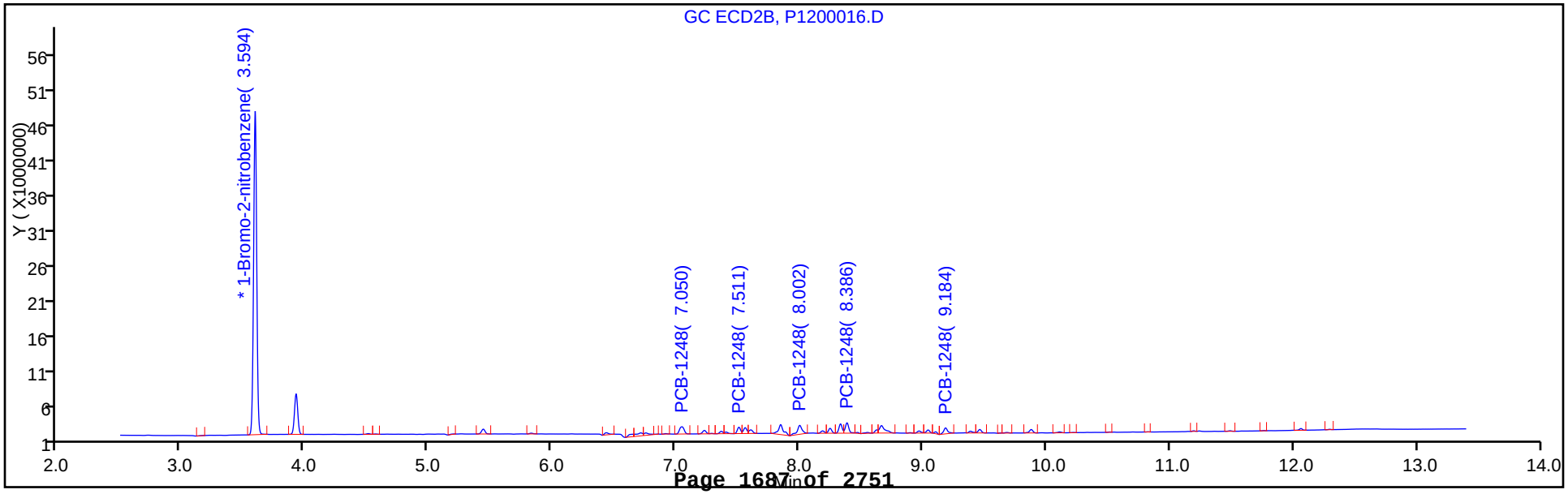
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200016.D

Injection Date:	22-Apr-2015 21:26:54	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1248			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200017.D
Lims ID: STD01 1248
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 21:45:05 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-017
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:23 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.086	-0.027	84938750	0.0500	0.0500	
2	3.598	3.594	0.004	66865837	0.0500	0.0500	
7 PCB-1248							
1	5.426	5.447	-0.021	2372960	0.1000	0.1226	
1	6.797	6.818	-0.021	6489860	0.1000	0.1064	
1	7.372	7.395	-0.023	5369994	0.1000	0.0957	
1	7.618	7.641	-0.023	4739559	0.1000	0.1031	
1	8.106	8.130	-0.024	3340273	0.1000	0.1055	
		Average of Peak Amounts =				0.1067	
2	7.052	7.050	0.002	4961430	0.1000	0.1056	
2	7.514	7.511	0.003	3011908	0.1000	0.1112	
2	8.007	8.002	0.005	5850390	0.1000	0.1213	
2	8.390	8.386	0.004	5418776	0.1000	0.1084	
2	9.187	9.184	0.003	3435291	0.1000	0.1220	
		Average of Peak Amounts =				0.1137	
					RPD =	6.38	

Reagents:

SG1248@0.1PPM_00012 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

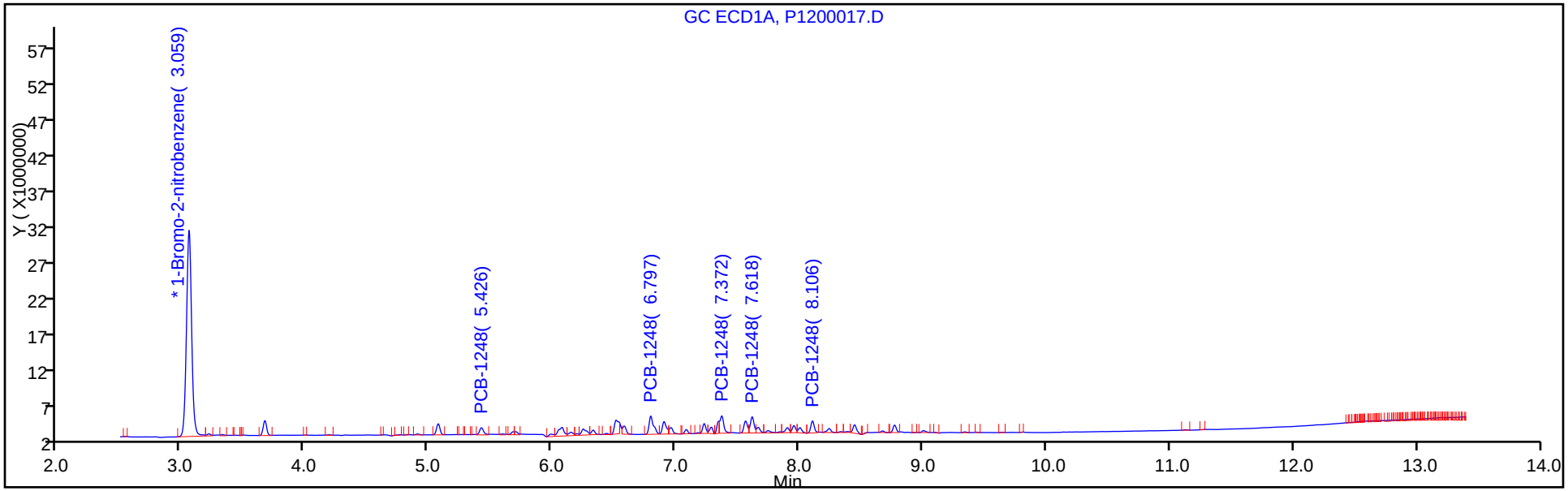
Report Date: 23-Apr-2015 09:04:25 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

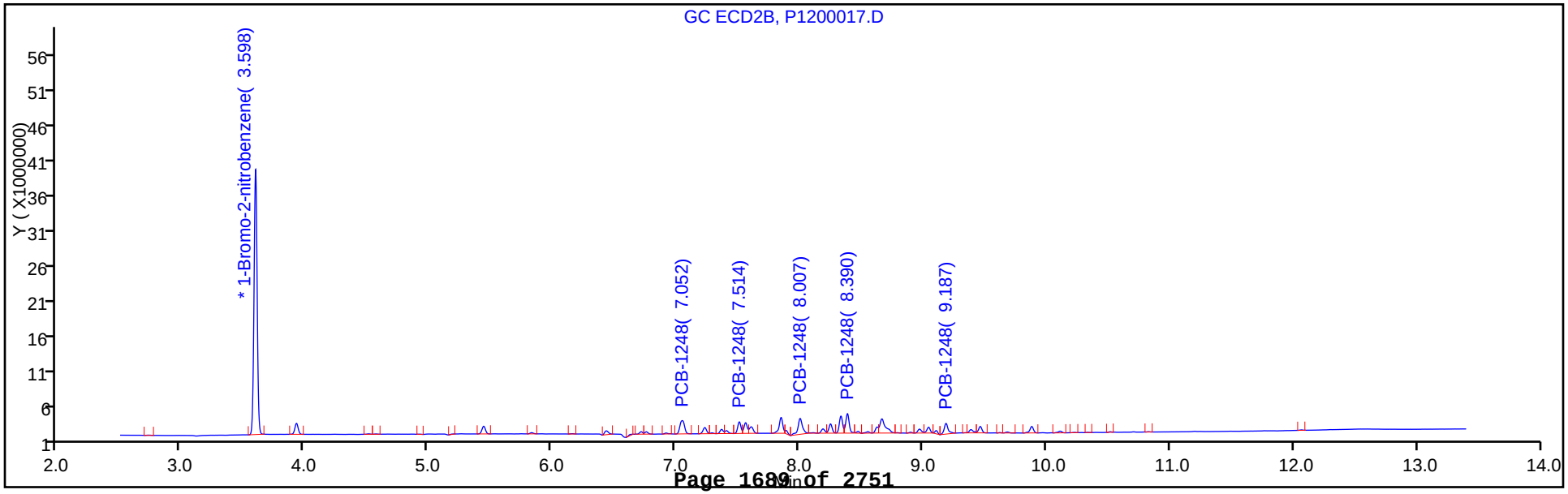
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200017.D

Injection Date:	22-Apr-2015 21:45:05	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1248			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200018.D
Lims ID: STD02 1248
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 22:03:07 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-018
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:21 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.086	-0.027	92010271	0.0500	0.0500	
2	3.597	3.594	0.003	72081837	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	3745204	0.2000	0.1786	
1	6.797	6.818	-0.021	12364978	0.2000	0.1872	
1	7.372	7.395	-0.023	10299972	0.2000	0.1695	
1	7.618	7.641	-0.023	9196996	0.2000	0.1847	
1	8.105	8.130	-0.025	6234582	0.2000	0.1817	
		Average of Peak Amounts =				0.1803	
2	7.053	7.050	0.003	9593788	0.2000	0.1895	
2	7.514	7.511	0.003	5729133	0.2000	0.1962	
2	8.007	8.002	0.005	9760342	0.2000	0.1877	
2	8.389	8.386	0.003	10429204	0.2000	0.1935	
2	9.188	9.184	0.004	5832997	0.2000	0.1922	
		Average of Peak Amounts =				0.1918	
						RPD = 6.16	

Reagents:

SG1248@0.2ppm_00012 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

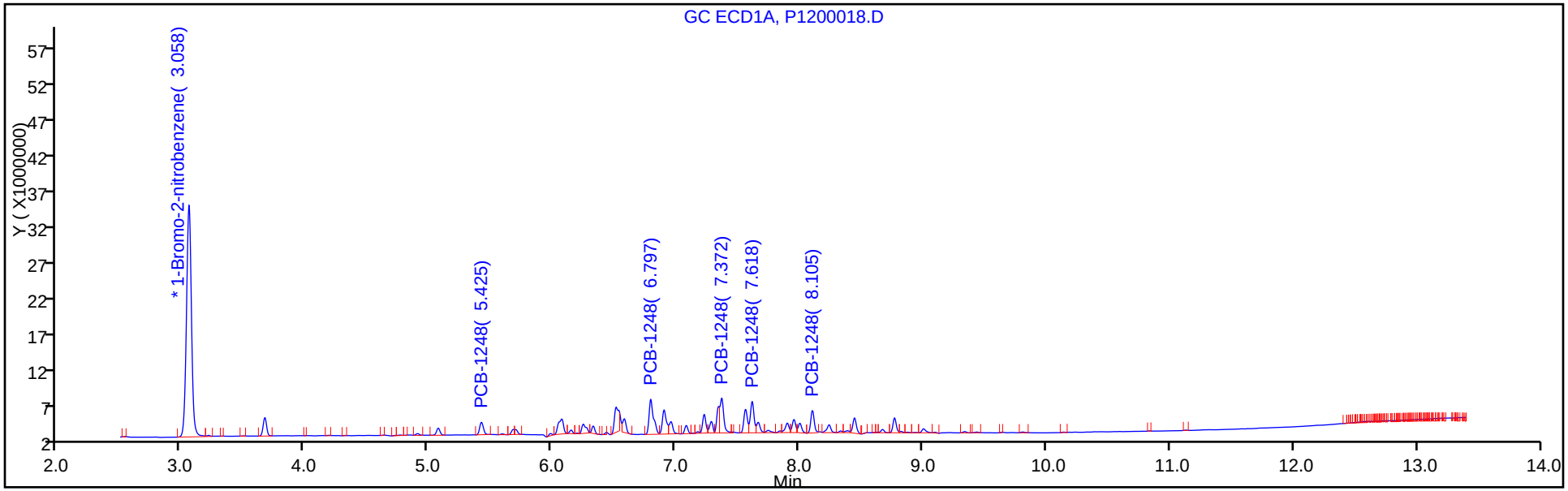
Report Date: 23-Apr-2015 09:04:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

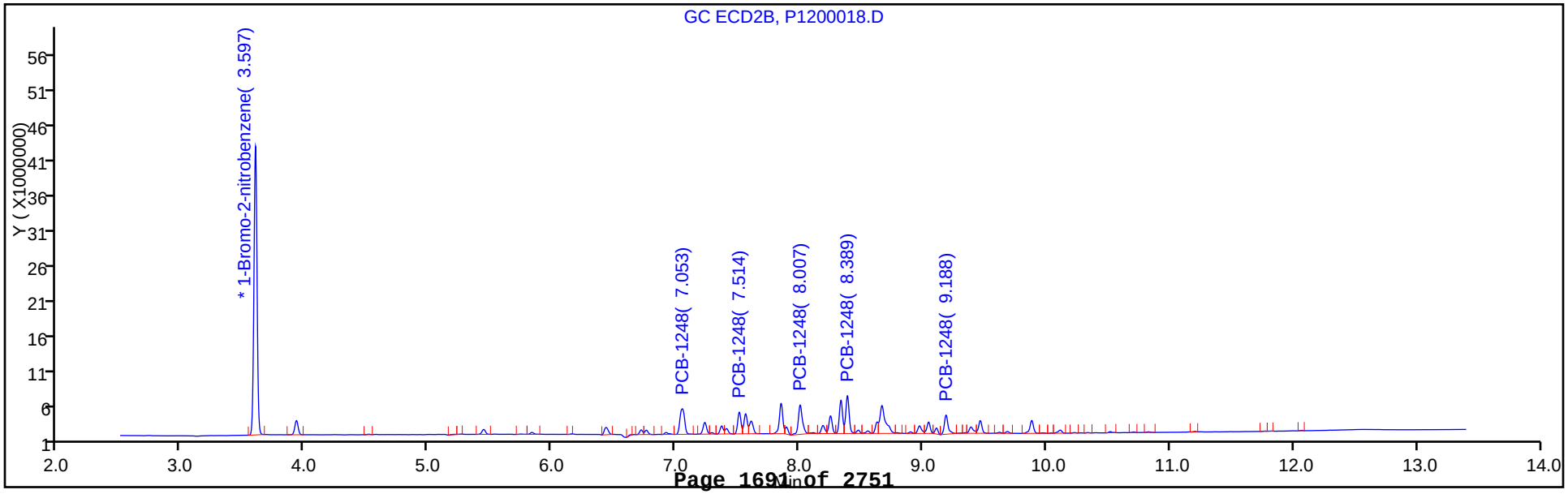
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200018.D

Injection Date:	22-Apr-2015 22:03:07	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1248			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200019.D
Lims ID: STD05 1248
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2015 22:21:09 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-019
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:18 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.086	-0.028	83556317	0.0500	0.0500	
2	3.597	3.594	0.003	66191382	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	9487851	0.5000	0.4982	
1	6.797	6.818	-0.021	30594215	0.5000	0.5101	
1	7.371	7.395	-0.024	25392161	0.5000	0.4602	
1	7.617	7.641	-0.024	22674505	0.5000	0.5014	
1	8.105	8.130	-0.025	14864967	0.5000	0.4771	
		Average of Peak Amounts =				0.4894	
2	7.052	7.050	0.002	25446252	0.5000	0.5473	
2	7.512	7.511	0.001	13711340	0.5000	0.5114	
2	8.006	8.002	0.004	21918733	0.5000	0.4590	
2	8.388	8.386	0.002	25179044	0.5000	0.5087	
2	9.187	9.184	0.003	13025102	0.5000	0.4673	
		Average of Peak Amounts =				0.4987	
						RPD = 1.89	

Reagents:

SG1248@0.5ppm_00015 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

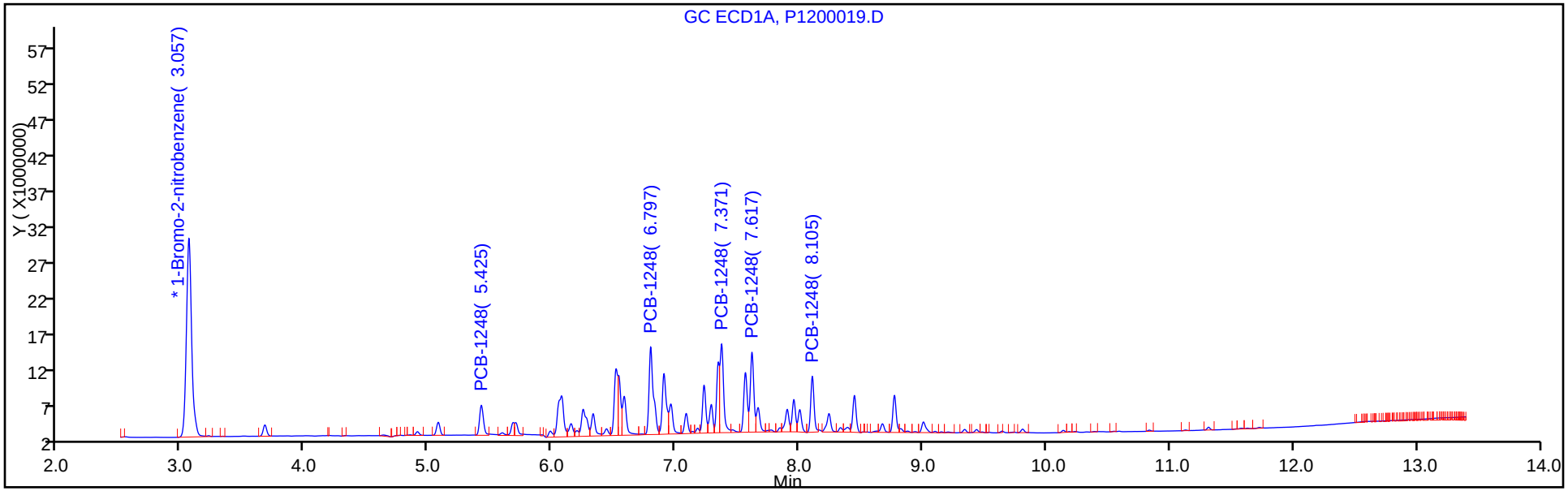
Report Date: 23-Apr-2015 09:04:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

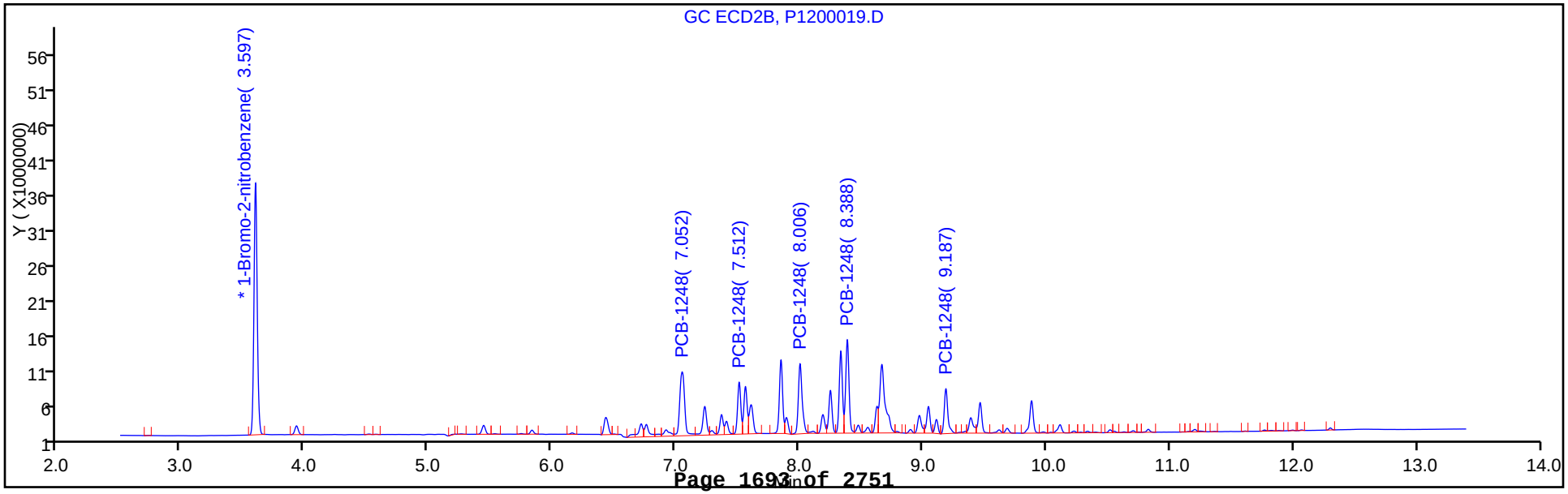
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200019.D

Injection Date:	22-Apr-2015 22:21:09	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1248			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200020.D
Lims ID: STD1 1248
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2015 22:39:12 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-020
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:16 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:14:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.086	-0.028	87031945	0.0500	0.0500	
2	3.596	3.594	0.002	68245603	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	18582641	1.00	0.9367	
1	6.796	6.818	-0.022	61900136	1.00	0.99	
1	7.370	7.395	-0.025	55525544	1.00	0.9662	
1	7.618	7.641	-0.023	48387283	1.00	1.03	
1	8.105	8.130	-0.025	33130453	1.00	1.02	
		Average of Peak Amounts =				0.9884	
2	7.052	7.050	0.002	48380191	1.00	1.01	
2	7.514	7.511	0.003	26595401	1.00	0.9620	
2	8.006	8.002	0.004	43511838	1.00	0.8837	
2	8.390	8.386	0.004	51350533	1.00	1.01	
2	9.188	9.184	0.004	25698189	1.00	0.8943	
		Average of Peak Amounts =				0.9511	
						RPD = 3.85	

Reagents:

SG1248@1.0ppm_00010 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

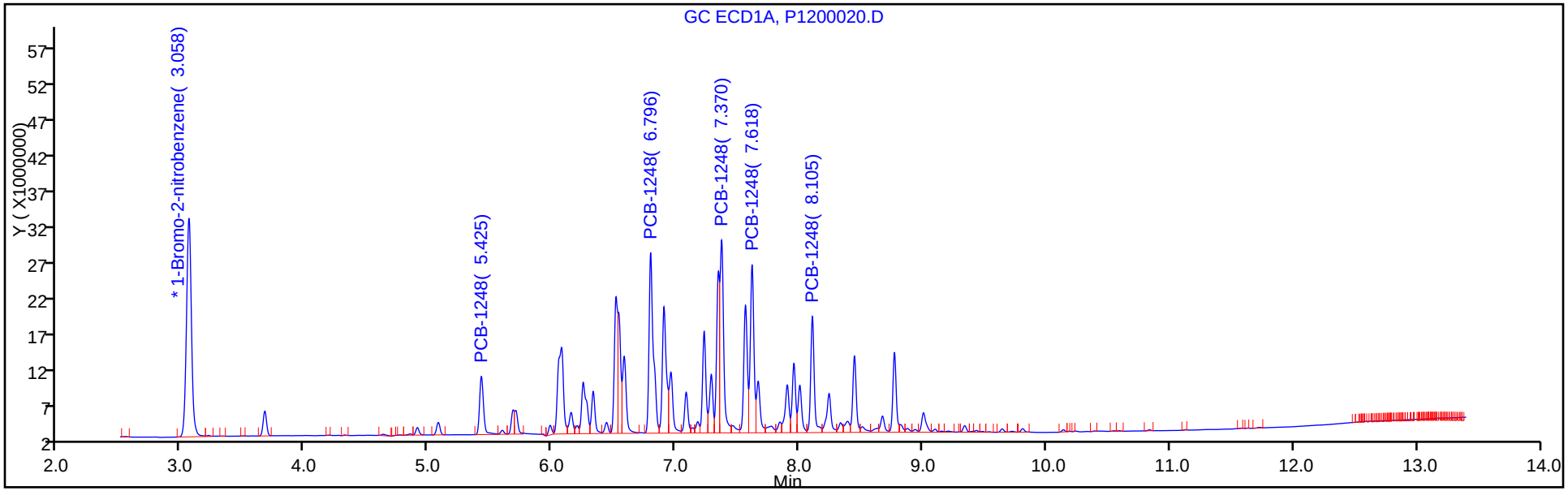
Report Date: 23-Apr-2015 09:04:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

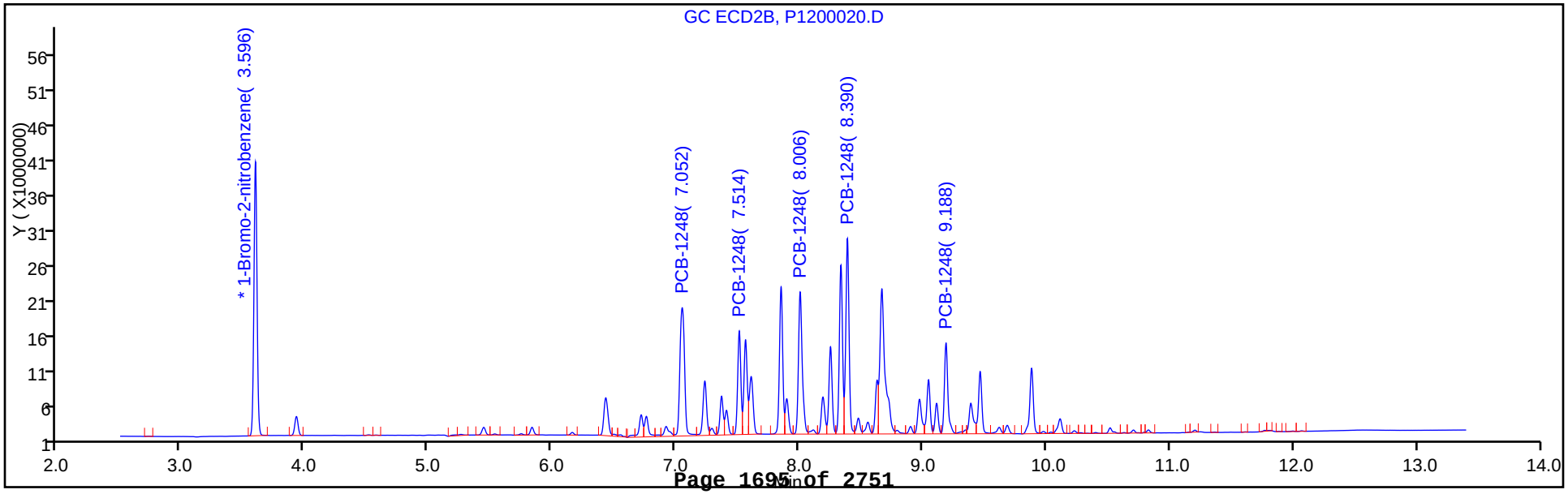
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200020.D

Injection Date:	22-Apr-2015 22:39:12	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1248			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200021.D
Lims ID: STD2 1248
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2015 22:57:22 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-021
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:04:13 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.086	-0.027	93854932	0.0500	0.0500	
2	3.597	3.594	0.003	73527354	0.0500	0.0500	
7 PCB-1248							
1	5.425	5.447	-0.022	37801055	2.00	1.77	
1	6.796	6.818	-0.022	128524128	2.00	1.91	
1	7.371	7.395	-0.024	114358185	2.00	1.85	
1	7.618	7.641	-0.023	101364228	2.00	2.00	
1	8.106	8.130	-0.024	68558243	2.00	1.96	
		Average of Peak Amounts =				1.89	
2	7.051	7.050	0.001	97948186	2.00	1.90	
2	7.514	7.511	0.003	53640865	2.00	1.80	
2	8.006	8.002	0.004	89606637	2.00	1.69	
2	8.390	8.386	0.004	105967813	2.00	1.93	
2	9.187	9.184	0.003	52780784	2.00	1.70	
		Average of Peak Amounts =				1.80	
						RPD = 4.93	

Reagents:

SG1248@2.0ppm_00010 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

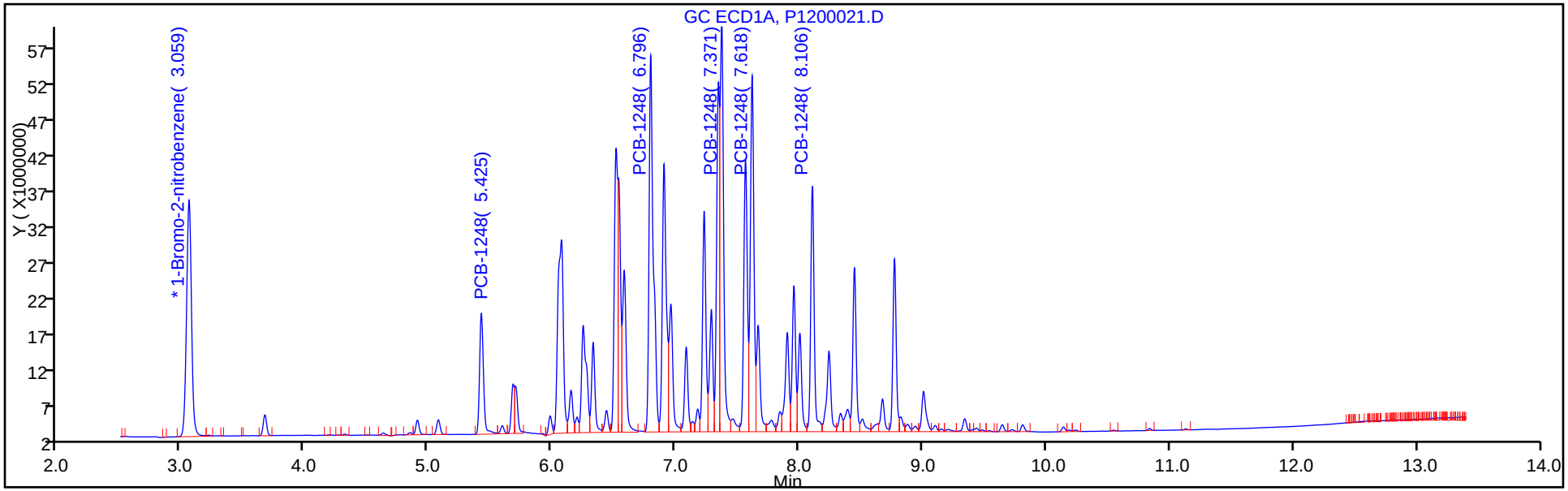
Report Date: 23-Apr-2015 09:04:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

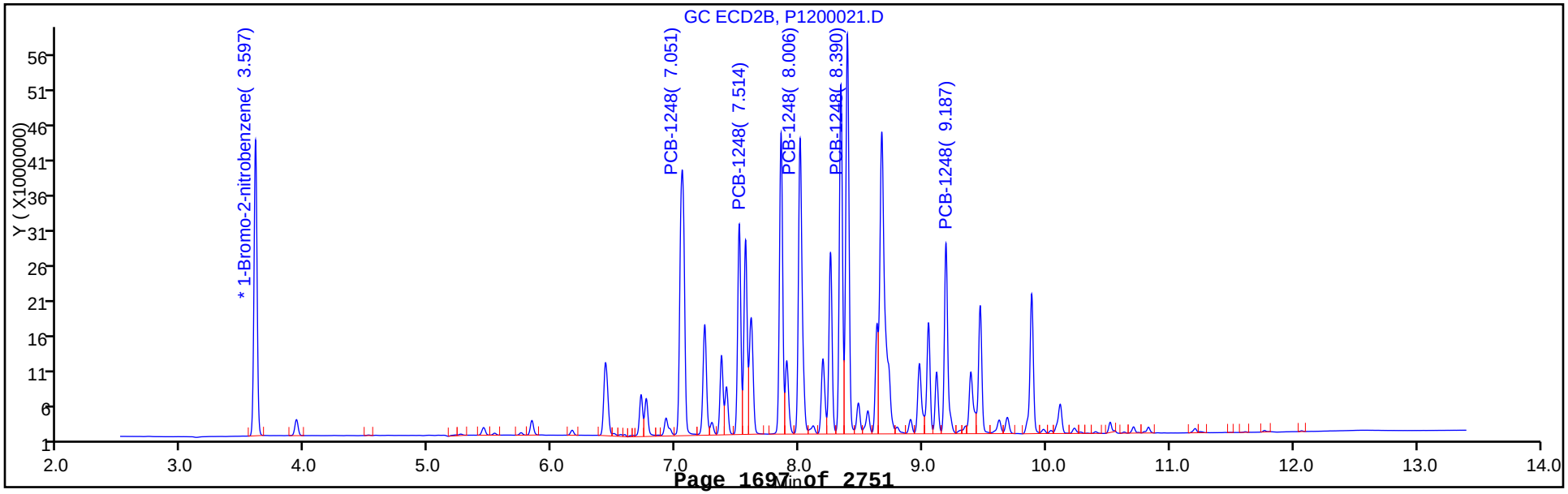
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200021.D

Injection Date:	22-Apr-2015 22:57:22	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1248			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 23:15 Calibration End Date: 04/23/2015 00:45 Calibration ID: 28061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/22	P1200022.D
Level 2	STD01 240-177497/23	P1200023.D
Level 3	STD02 240-177497/24	P1200024.D
Level 4	STD05 240-177497/25	P1200025.D
Level 5	STD1 240-177497/26	P1200026.D
Level 6	STD2 240-177497/27	P1200027.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0108 0.0071	0.0103	0.0087	0.0081	0.0070	Ave		0.0087				18.4		20.0			
PCB-1221 Peak 2	0.0057 0.0046	0.0062	0.0055	0.0054	0.0047	Ave		0.0053				11.3		20.0			
PCB-1221 Peak 3	0.0202 0.0192	0.0221	0.0200	0.0209	0.0191	Ave		0.0203				5.5		20.0			
PCB-1254 Peak 1	0.0306 0.0261	0.0289	0.0264	0.0277	0.0258	Ave		0.0276				6.8		20.0			
PCB-1254 Peak 2	0.0414 0.0382	0.0418	0.0385	0.0406	0.0375	Ave		0.0397				4.6		20.0			
PCB-1254 Peak 3	0.0583 0.0582	0.0602	0.0571	0.0605	0.0569	Ave		0.0585				2.6		20.0			
PCB-1254 Peak 4	0.0446 0.0418	0.0435	0.0410	0.0425	0.0408	Ave		0.0424				3.5		20.0			
PCB-1254 Peak 5	0.0569 0.0602	0.0622	0.0593	0.0624	0.0586	Ave		0.0599				3.5		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-1 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 23:15 | Calibration End Date: 04/23/2015 00:45 | Calibration ID: 28061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/22	P1200022.D
Level 2	STD01 240-177497/23	P1200023.D
Level 3	STD02 240-177497/24	P1200024.D
Level 4	STD05 240-177497/25	P1200025.D
Level 5	STD1 240-177497/26	P1200026.D
Level 6	STD2 240-177497/27	P1200027.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Ave	984736 26655924	1717828	3046929	6964963	13235273	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Ave	516565 17336422	1030117	1926920	4588798	8854123	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Ave	1845044 72320708	3672463	7021851	17908440	36059827	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Ave	2793931 98164403	4801898	9270925	23719602	48540908	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Ave	3772809 143559563	6934351	13511751	34756730	70615337	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Ave	5317309 218565719	9994397	20031940	51755443	107088625	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Ave	4070179 157216055	7222027	14377550	36361479	76872578	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	5191671 226326925	10327484	20777383	53368686	110439681	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200022.D
Lims ID: STD005 AR2154
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 23:15:26 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-022
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:38 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.086	-0.028	91221896	0.0500	0.0500	
2	3.597	3.594	0.002	70996082	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	984736	0.0500	0.0622	
1	4.848	4.848	0.000	516565	0.0500	0.0530	
1	4.907	4.907	0.000	1845044	0.0500	0.0499	
		Average of Peak Amounts =				0.0550	
2	5.533	5.533	0.000	745322	0.0500	0.0561	
2	5.748	5.748	0.000	508422	0.0500	0.0559	
2	5.835	5.835	0.000	1912939	0.0500	0.0566	
		Average of Peak Amounts =				0.0562	
						RPD = 2.11	
8 PCB-1254							
1	7.288	7.288	0.000	2793931	0.0500	0.0555	
1	7.622	7.622	0.000	3772809	0.0500	0.0521	
1	8.105	8.105	0.000	5317309	0.0500	0.0498	
1	8.447	8.447	0.000	4070179	0.0500	0.0526	
1	9.005	9.005	0.000	5191671	0.0500	0.0475	
		Average of Peak Amounts =				0.0515	
2	8.384	8.384	0.000	2491719	0.0500	0.0515	
2	8.627	8.627	0.000	2925404	0.0500	0.0532	
2	9.187	9.187	0.000	4271595	0.0500	0.0517	
2	9.465	9.465	0.000	2735193	0.0500	0.0479	
2	10.111	10.111	0.000	3990782	0.0500	0.0493	
		Average of Peak Amounts =				0.0507	
						RPD = 1.53	

Reagents:

SG2154@0.05PP_00008	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

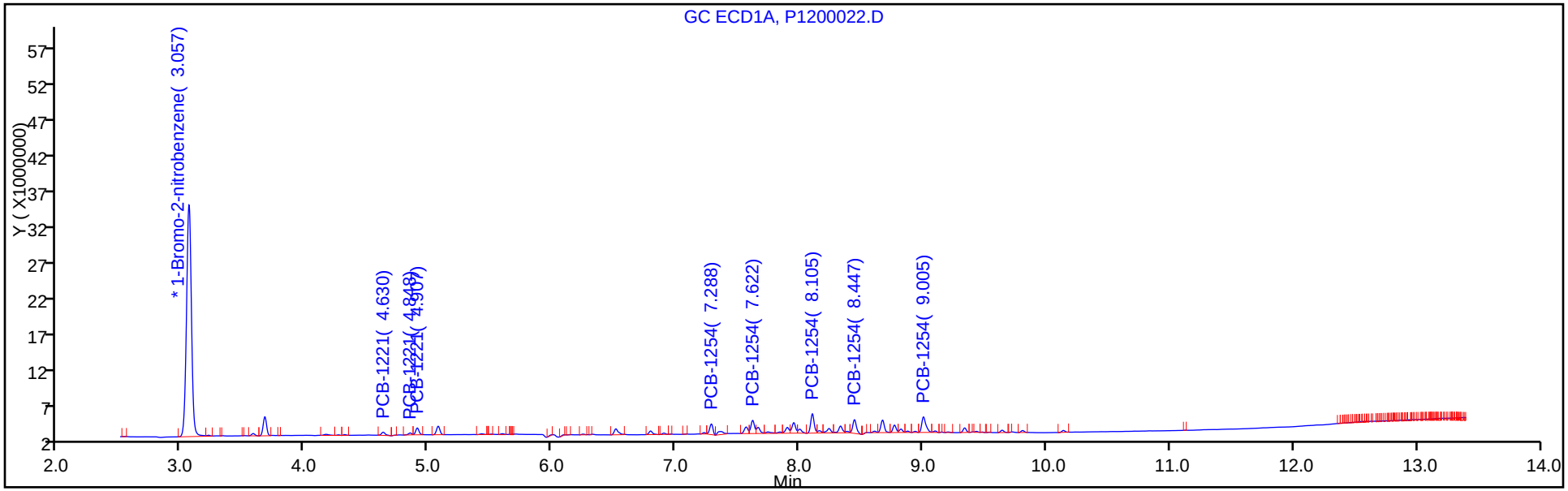
Report Date: 23-Apr-2015 06:28:40 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

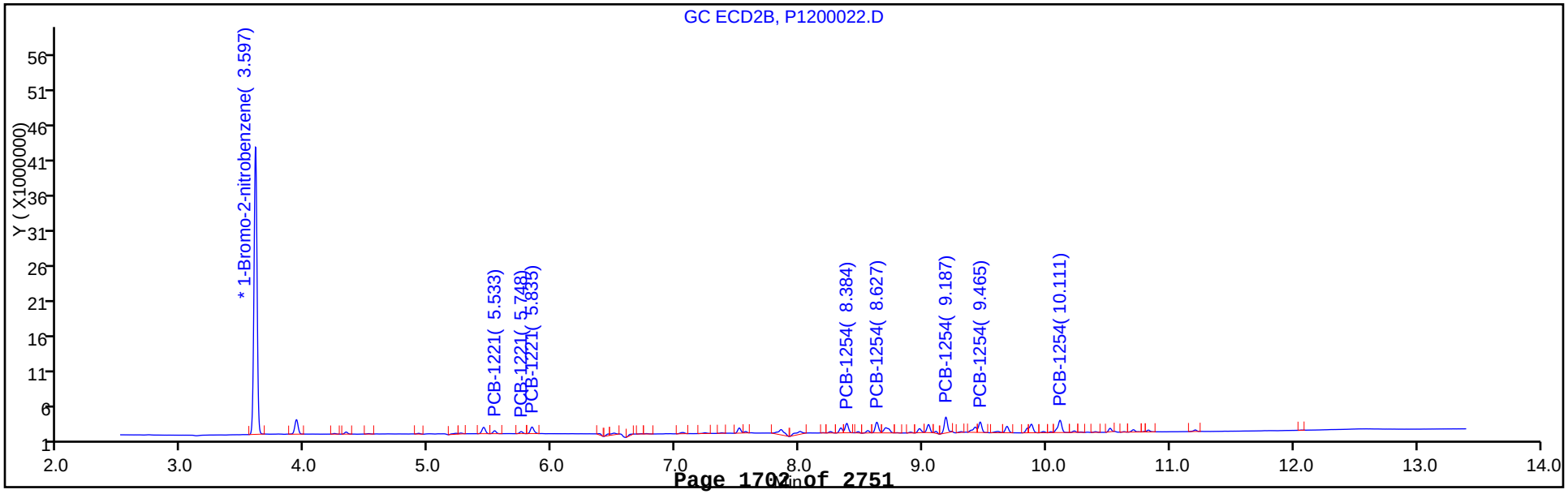
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200022.D

Injection Date:	22-Apr-2015 23:15:26	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 AR2154			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200023.D
Lims ID: STD01 AR2154
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 23:33:29 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-023
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:41 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:01:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	83013008	0.0500	0.0500	
2	3.596	3.597	0.000	63944067	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	1717828	0.1000	0.1192	
1	4.849	4.848	0.001	1030117	0.1000	0.1162	
1	4.906	4.907	-0.001	3672463	0.1000	0.1090	
		Average of Peak Amounts =				0.1148	
2	5.533	5.533	0.000	1406469	0.1000	0.1176	
2	5.748	5.748	0.000	964453	0.1000	0.1177	
2	5.835	5.835	0.000	3559756	0.1000	0.1169	
		Average of Peak Amounts =				0.1174	
						RPD = 2.22	
8 PCB-1254							
1	7.288	7.288	0.000	4801898	0.1000	0.1048	
1	7.624	7.622	0.002	6934351	0.1000	0.1053	
1	8.105	8.105	0.000	9994397	0.1000	0.1028	
1	8.446	8.447	-0.001	7222027	0.1000	0.1026	
1	9.005	9.005	0.000	10327484	0.1000	0.1038	
		Average of Peak Amounts =				0.1039	
2	8.385	8.384	0.001	4938308	0.1000	0.1133	
2	8.628	8.627	0.001	5510316	0.1000	0.1112	
2	9.187	9.187	0.000	7963812	0.1000	0.1071	
2	9.464	9.465	-0.001	5362061	0.1000	0.1043	
2	10.111	10.111	0.000	7890616	0.1000	0.1081	
		Average of Peak Amounts =				0.1088	
						RPD = 4.66	

Reagents:

SG2154@O.1PPM_00010	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

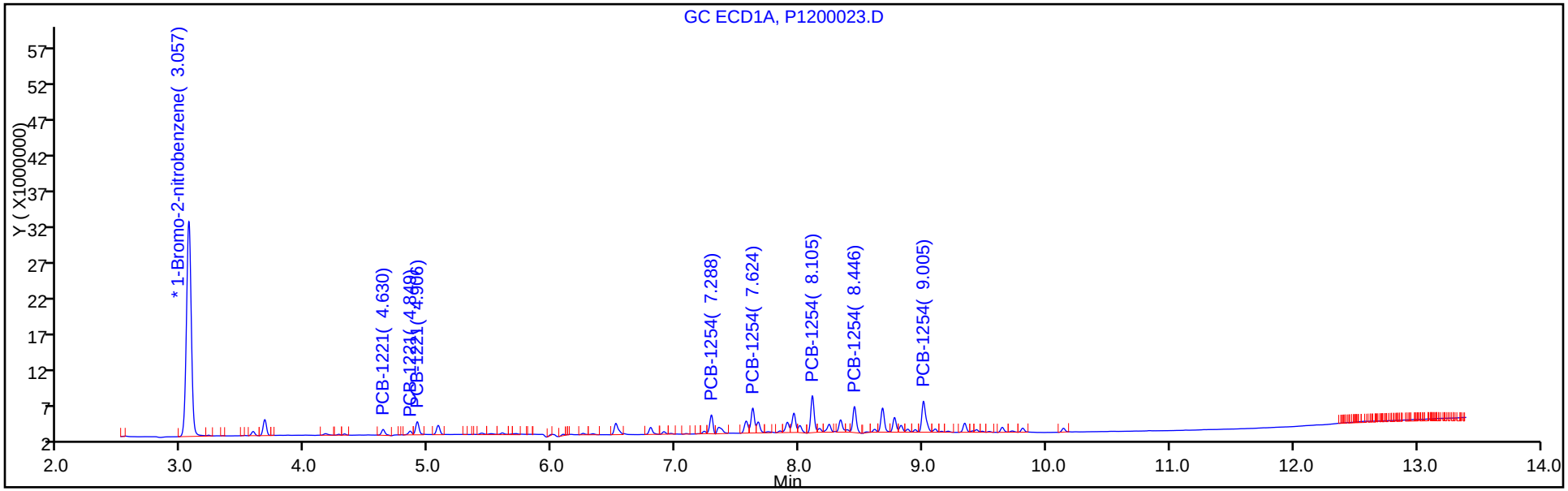
Report Date: 23-Apr-2015 06:28:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

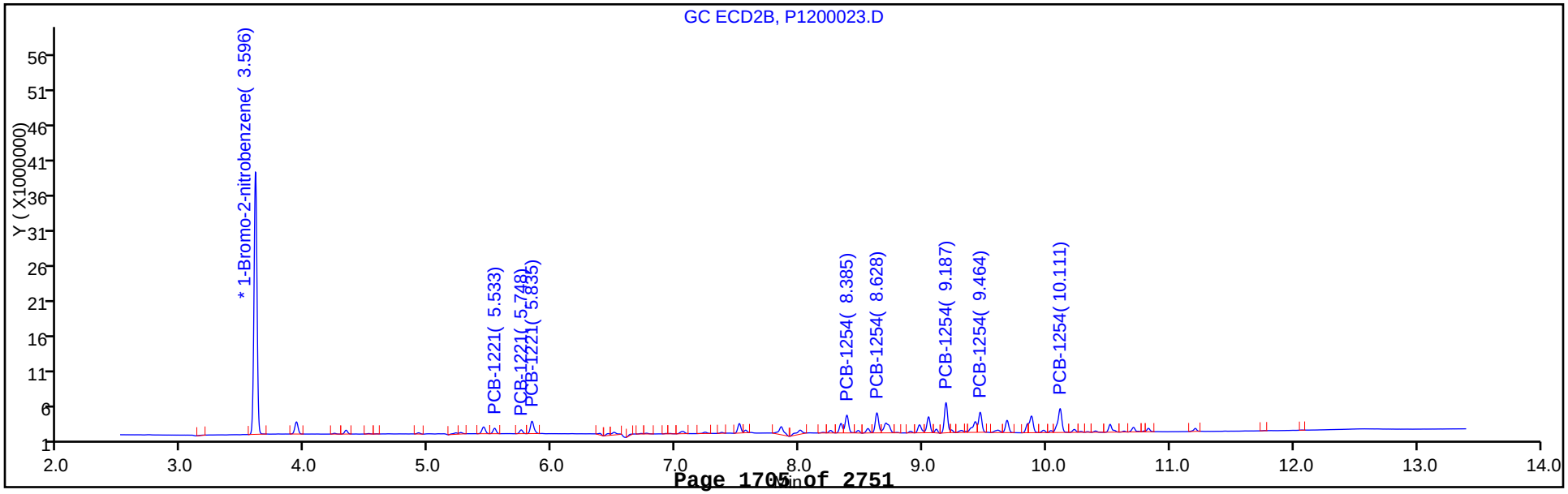
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200023.D

Injection Date:	22-Apr-2015 23:33:29	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 AR2154			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200024.D
Lims ID: STD02 AR2154
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 23:51:31 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-024
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:43 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:13:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	87650129	0.0500	0.0500	
2	3.597	3.597	0.001	68439438	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	3046929	0.2000	0.2002	
1	4.847	4.848	-0.001	1926920	0.2000	0.2058	
1	4.906	4.907	-0.001	7021851	0.2000	0.1975	
		Average of Peak Amounts =				0.2011	
2	5.532	5.533	-0.001	2631614	0.2000	0.2055	
2	5.747	5.748	-0.001	1824664	0.2000	0.2080	
2	5.836	5.835	0.001	6624762	0.2000	0.2032	
		Average of Peak Amounts =				0.2056	
						RPD = 2.18	
8 PCB-1254							
1	7.288	7.288	0.000	9270925	0.2000	0.1916	
1	7.622	7.622	0.000	13511751	0.2000	0.1943	
1	8.106	8.105	0.001	20031940	0.2000	0.1952	
1	8.446	8.447	-0.001	14377550	0.2000	0.1935	
1	9.005	9.005	0.000	20777383	0.2000	0.1977	
		Average of Peak Amounts =				0.1945	
2	8.384	8.384	0.000	9399428	0.2000	0.2016	
2	8.627	8.627	0.000	10566778	0.2000	0.1992	
2	9.187	9.187	0.000	15653964	0.2000	0.1967	
2	9.465	9.465	0.000	11289539	0.2000	0.2052	
2	10.111	10.111	0.000	15544025	0.2000	0.1990	
		Average of Peak Amounts =				0.2003	
						RPD = 2.97	

Reagents:

SG2154@0.2PPM_00009	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

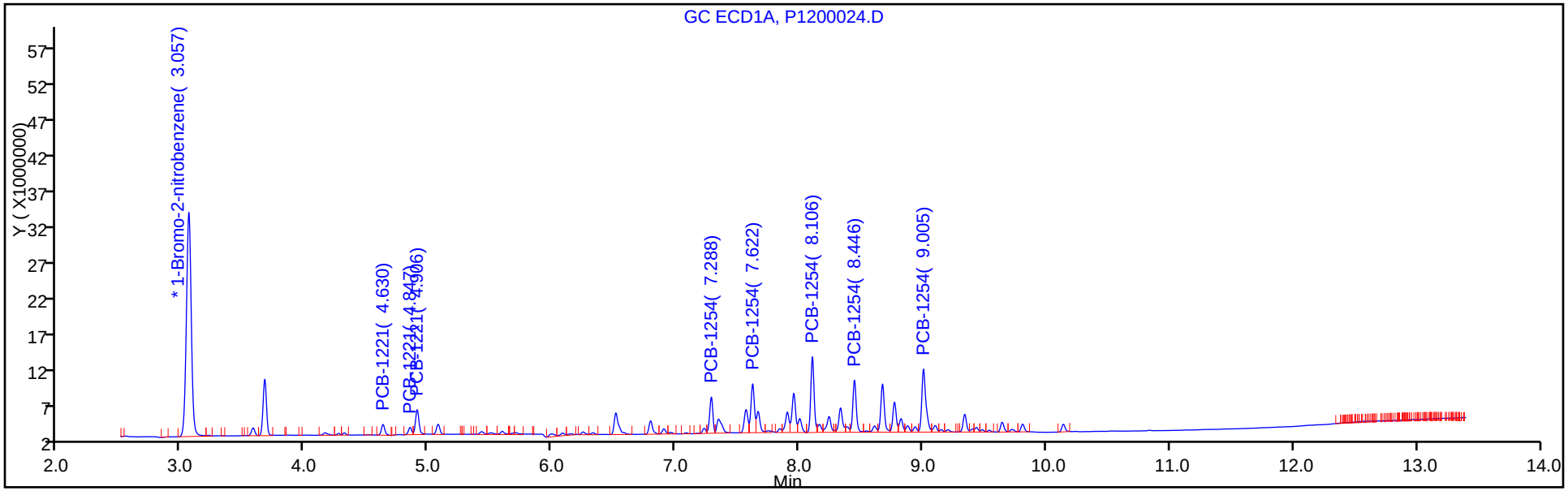
Report Date: 23-Apr-2015 06:28:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

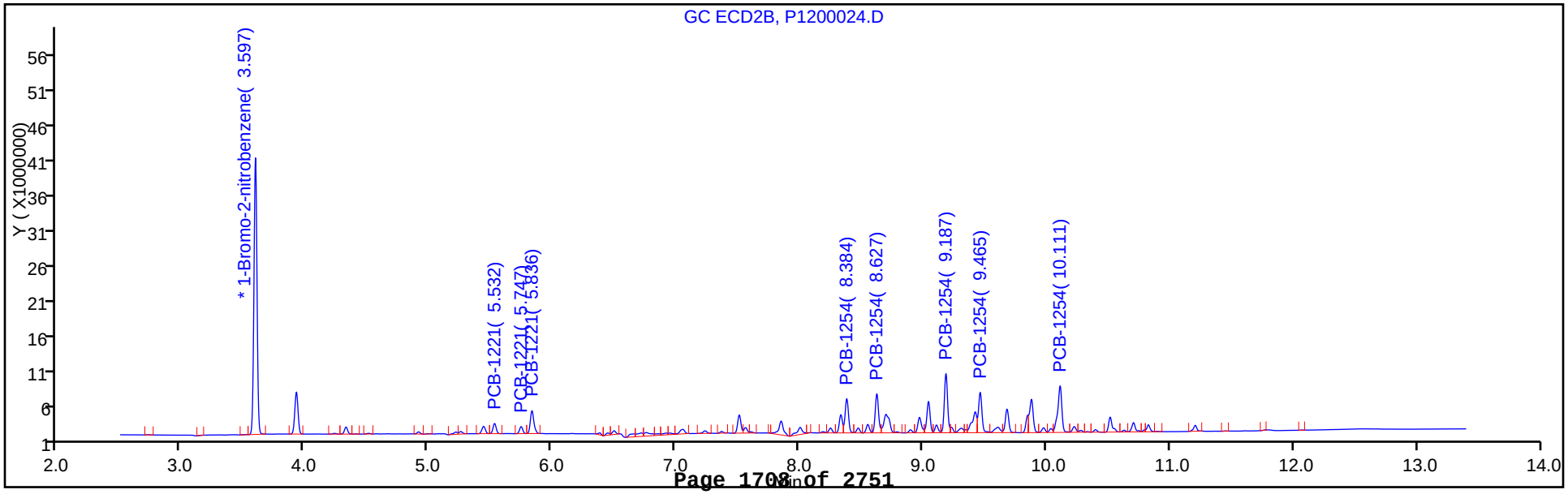
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200024.D

Injection Date:	22-Apr-2015 23:51:31	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 AR2154			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200025.D
Lims ID: STD05 AR2154
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Apr-2015 00:09:43 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-025
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:46 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:26:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.057	0.001	85520141	0.0500	0.0500	
2	3.597	3.597	0.000	66479769	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	6964963	0.5000	0.4690	
1	4.849	4.848	0.001	4588798	0.5000	0.5023	
1	4.907	4.907	0.000	17908440	0.5000	0.5162	
		Average of Peak Amounts =				0.4958	
2	5.533	5.533	0.000	6219136	0.5000	0.5000	
2	5.748	5.748	0.000	4276331	0.5000	0.5019	
2	5.836	5.835	0.001	15646900	0.5000	0.4941	
		Average of Peak Amounts =				0.4987	
					RPD =	0.57	
8 PCB-1254							
1	7.288	7.288	0.000	23719602	0.5000	0.5024	
1	7.623	7.622	0.001	34756730	0.5000	0.5123	
1	8.106	8.105	0.001	51755443	0.5000	0.5170	
1	8.447	8.447	0.000	36361479	0.5000	0.5016	
1	9.006	9.005	0.001	53368686	0.5000	0.5205	
		Average of Peak Amounts =				0.5107	
2	8.385	8.384	0.001	23295510	0.5000	0.5143	
2	8.628	8.627	0.001	26447645	0.5000	0.5134	
2	9.188	9.187	0.001	40429450	0.5000	0.5229	
2	9.465	9.465	0.000	28939646	0.5000	0.5414	
2	10.111	10.111	0.000	40170324	0.5000	0.5296	
		Average of Peak Amounts =				0.5243	
					RPD =	2.62	

Reagents:

SG2154@0.5PPM_00016	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

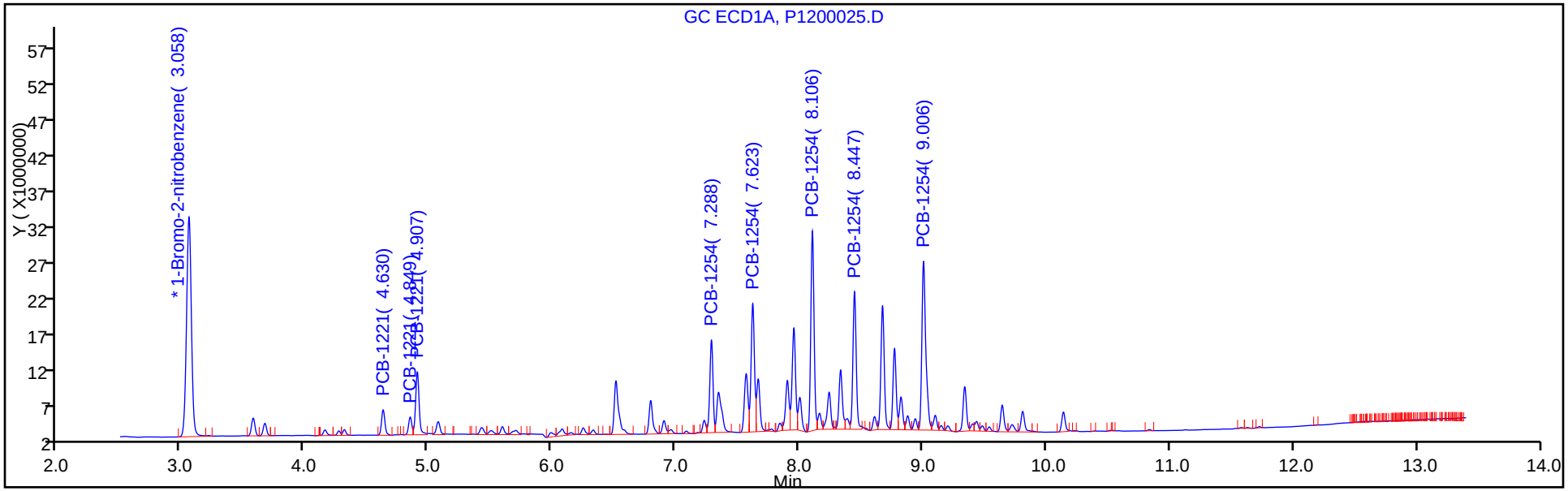
Report Date: 23-Apr-2015 06:28:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

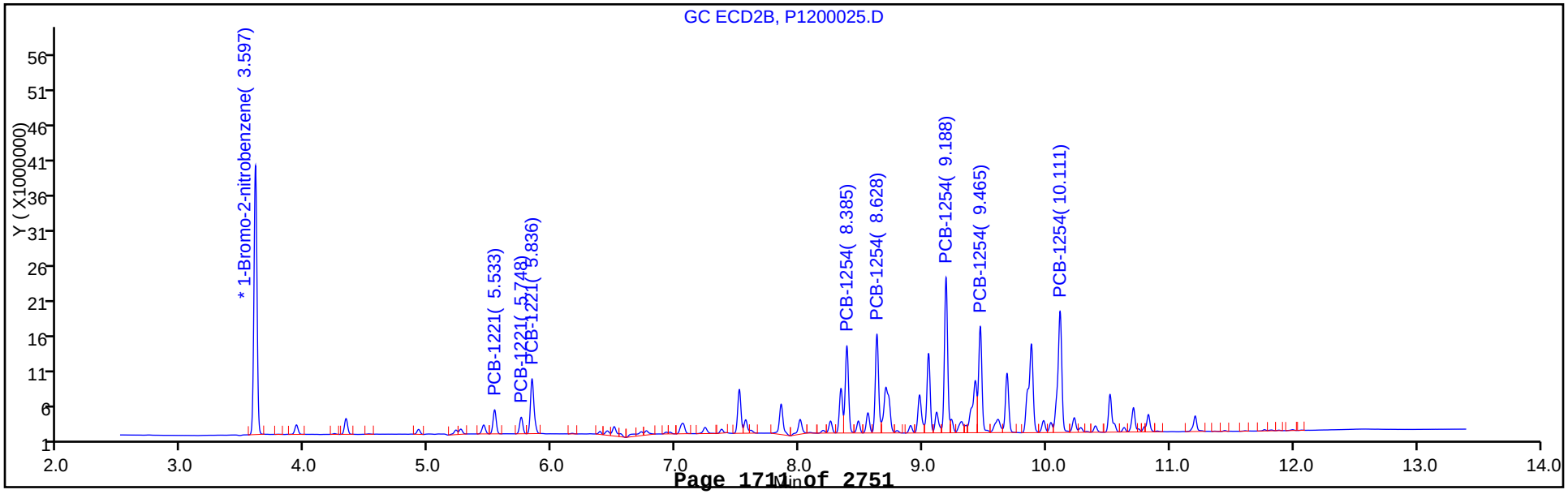
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200025.D

Injection Date:	23-Apr-2015 00:09:43	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 AR2154			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200026.D
Lims ID: STD1 AR2154
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Apr-2015 00:27:46 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-026
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:48 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	-0.001	94164289	0.0500	0.0500	
2	3.597	3.597	0.000	74235281	0.0500	0.0500	
3 PCB-1221							
1	4.629	4.630	-0.001	13235273	1.00	0.8093	
1	4.848	4.848	0.000	8854123	1.00	0.8803	
1	4.906	4.907	-0.001	36059827	1.00	0.9439	
		Average of Peak Amounts =				0.8778	
2	5.533	5.533	0.000	11738020	1.00	0.8451	
2	5.748	5.748	0.000	8104095	1.00	0.8518	
2	5.835	5.835	0.000	30495214	1.00	0.8623	
		Average of Peak Amounts =				0.8531	
						RPD = 2.86	
8 PCB-1254							
1	7.287	7.288	-0.001	48540908	1.00	0.9337	
1	7.622	7.622	0.000	70615337	1.00	0.9452	
1	8.104	8.105	-0.001	107088625	1.00	0.9715	
1	8.446	8.447	-0.001	76872578	1.00	0.9630	
1	9.004	9.005	-0.001	110439681	1.00	0.9783	
		Average of Peak Amounts =				0.9583	
2	8.383	8.384	-0.001	45624621	1.00	0.9020	
2	8.626	8.627	-0.001	51889213	1.00	0.9020	
2	9.186	9.187	-0.001	80224006	1.00	0.9292	
2	9.463	9.465	-0.002	56182676	1.00	0.9412	
2	10.110	10.111	-0.001	79187698	1.00	0.9349	
		Average of Peak Amounts =				0.9219	
						RPD = 3.88	

Reagents:

SG2154@1.0PPM_00010	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

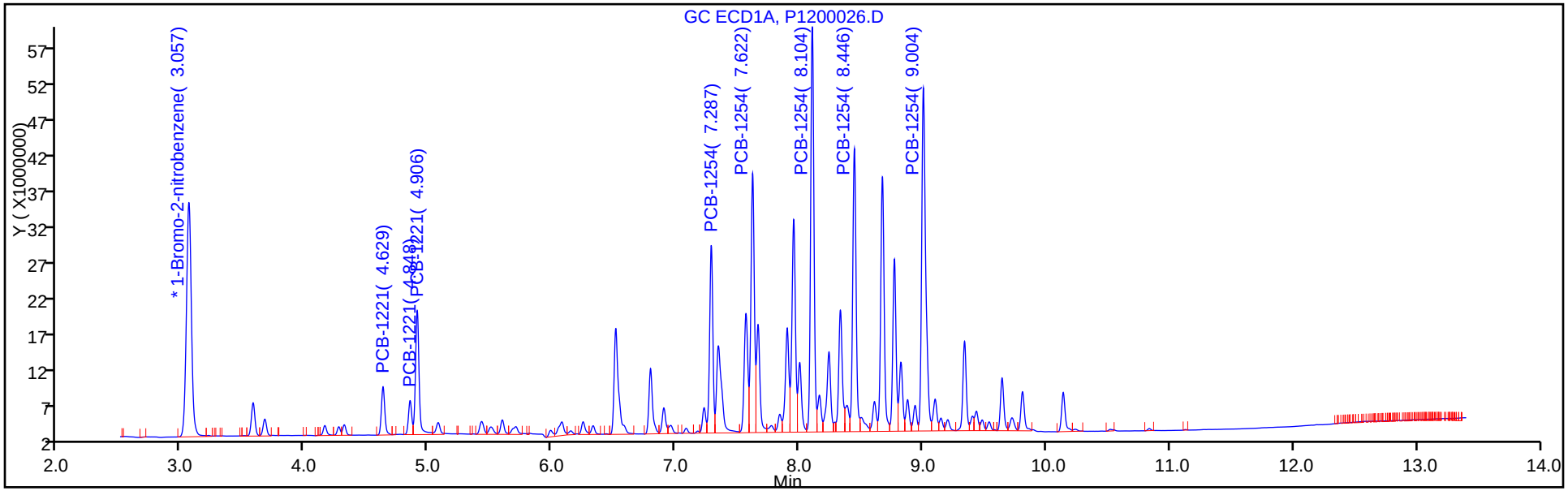
Report Date: 23-Apr-2015 06:28:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

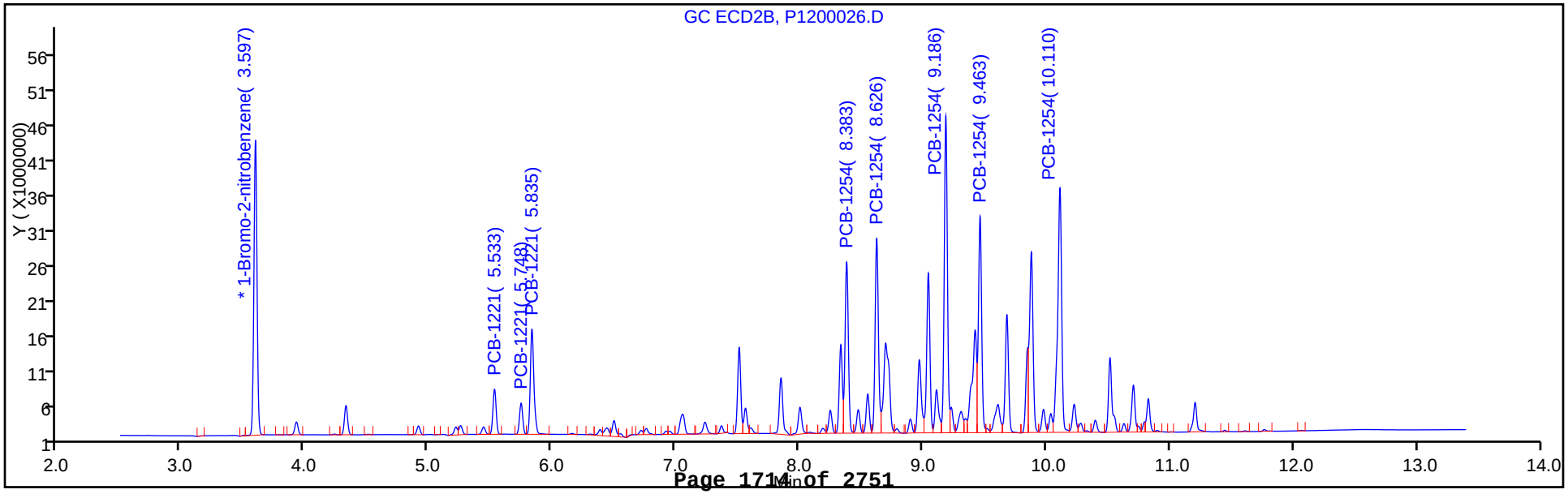
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200026.D

Injection Date:	23-Apr-2015 00:27:46	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 AR2154			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200027.D
Lims ID: STD2 AR2154
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Apr-2015 00:45:49 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-027
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:50 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.057	0.002	93923901	0.0500	0.0500	
2	3.597	3.597	0.001	74088471	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	26655924	2.00	1.63	
1	4.849	4.848	0.001	17336422	2.00	1.73	
1	4.906	4.907	-0.001	72320708	2.00	1.90	
		Average of Peak Amounts =				1.75	
2	5.533	5.533	0.000	22993571	2.00	1.66	
2	5.747	5.748	-0.001	15377924	2.00	1.62	
2	5.835	5.835	0.000	58863979	2.00	1.67	
		Average of Peak Amounts =				1.65	
						RPD = 6.15	
8 PCB-1254							
1	7.287	7.288	-0.001	98164403	2.00	1.89	
1	7.622	7.622	0.000	143559563	2.00	1.93	
1	8.105	8.105	0.000	218565719	2.00	1.99	
1	8.445	8.447	-0.002	157216055	2.00	1.97	
1	9.005	9.005	0.000	226326925	2.00	2.01	
		Average of Peak Amounts =				1.96	
2	8.384	8.384	0.000	90696219	2.00	1.80	
2	8.628	8.627	0.001	103262706	2.00	1.80	
2	9.187	9.187	0.000	161334909	2.00	1.87	
2	9.464	9.465	-0.001	113066914	2.00	1.90	
2	10.111	10.111	0.000	159621190	2.00	1.89	
		Average of Peak Amounts =				1.85	
						RPD = 5.65	

Reagents:

SG2154@2.0PPM_00009	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

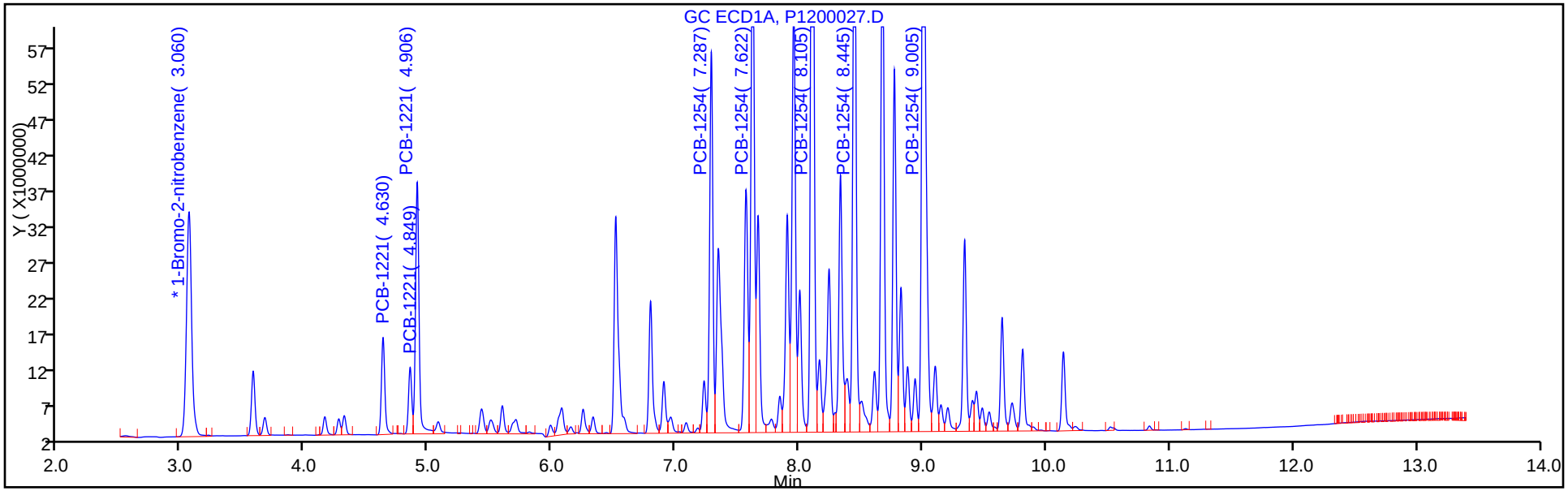
Report Date: 23-Apr-2015 06:28:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

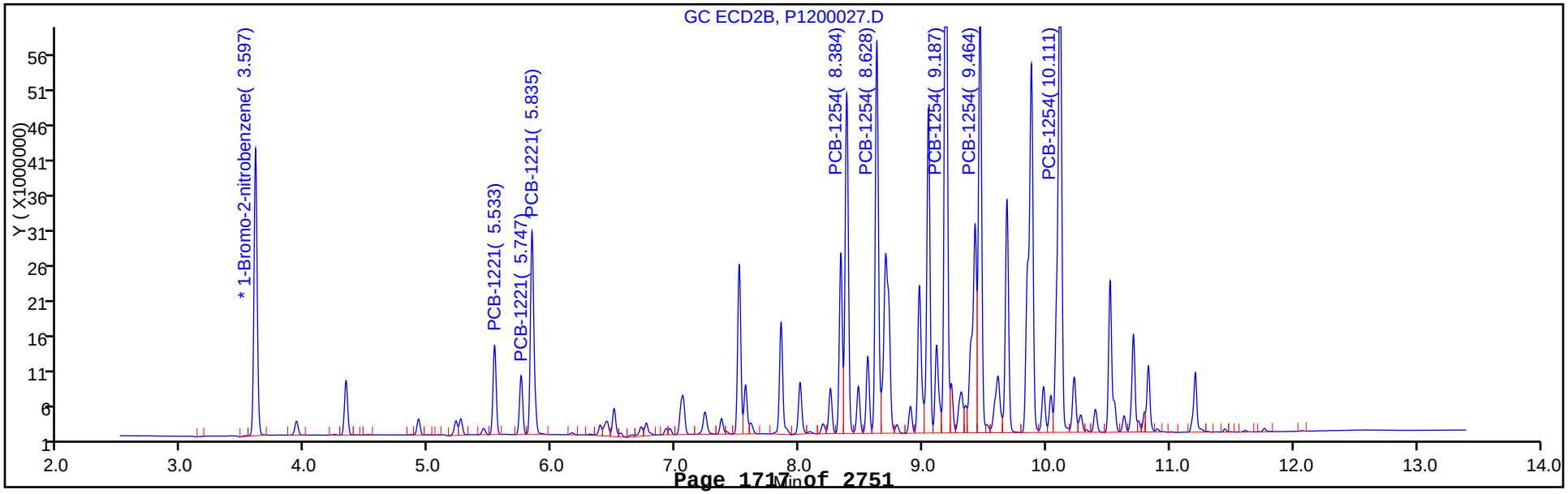
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200027.D

Injection Date:	23-Apr-2015 00:45:49	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 AR2154			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 23:15 | Calibration End Date: 04/23/2015 00:45 | Calibration ID: 28062

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/22	P1200022.D
Level 2	STD01 240-177497/23	P1200023.D
Level 3	STD02 240-177497/24	P1200024.D
Level 4	STD05 240-177497/25	P1200025.D
Level 5	STD1 240-177497/26	P1200026.D
Level 6	STD2 240-177497/27	P1200027.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0105 0.0078	0.0110	0.0096	0.0094	0.0079	Ave		0.0094				14.1		20.0			
PCB-1221 Peak 2	0.0072 0.0052	0.0075	0.0067	0.0064	0.0055	Ave		0.0064				14.5		20.0			
PCB-1221 Peak 3	0.0269 0.0199	0.0278	0.0242	0.0235	0.0205	Ave		0.0238				13.6		20.0			
PCB-1254 Peak 1	0.0351 0.0306	0.0386	0.0343	0.0350	0.0307	Ave		0.0341				8.9		20.0			
PCB-1254 Peak 2	0.0412 0.0348	0.0431	0.0386	0.0398	0.0349	Ave		0.0387				8.6		20.0			
PCB-1254 Peak 3	0.0602 0.0544	0.0623	0.0572	0.0608	0.0540	Ave		0.0582				5.9		20.0			
PCB-1254 Peak 4	0.0385 0.0382	0.0419	0.0412	0.0435	0.0378	Ave		0.0402				5.9		20.0			
PCB-1254 Peak 5	0.0562 0.0539	0.0617	0.0568	0.0604	0.0533	Ave		0.0571				6.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2015 23:15 Calibration End Date: 04/23/2015 00:45 Calibration ID: 28062

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/22	P1200022.D
Level 2	STD01 240-177497/23	P1200023.D
Level 3	STD02 240-177497/24	P1200024.D
Level 4	STD05 240-177497/25	P1200025.D
Level 5	STD1 240-177497/26	P1200026.D
Level 6	STD2 240-177497/27	P1200027.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Ave	745322 22993571	1406469	2631614	6219136	11738020	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 2	BNB	Ave	508422 15377924	964453	1824664	4276331	8104095	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1221 Peak 3	BNB	Ave	1912939 58863979	3559756	6624762	15646900	30495214	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 1	BNB	Ave	2491719 90696219	4938308	9399428	23295510	45624621	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 2	BNB	Ave	2925404 103262706	5510316	10566778	26447645	51889213	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 3	BNB	Ave	4271595 161334909	7963812	15653964	40429450	80224006	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 4	BNB	Ave	2735193 113066914	5362061	11289539	28939646	56182676	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1254 Peak 5	BNB	Ave	3990782 159621190	7890616	15544025	40170324	79187698	0.0500 2.00	0.100	0.200	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200022.D
Lims ID: STD005 AR2154
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2015 23:15:26 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-022
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:38 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.086	-0.028	91221896	0.0500	0.0500	
2	3.597	3.594	0.002	70996082	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	984736	0.0500	0.0622	
1	4.848	4.848	0.000	516565	0.0500	0.0530	
1	4.907	4.907	0.000	1845044	0.0500	0.0499	
		Average of Peak Amounts =				0.0550	
2	5.533	5.533	0.000	745322	0.0500	0.0561	
2	5.748	5.748	0.000	508422	0.0500	0.0559	
2	5.835	5.835	0.000	1912939	0.0500	0.0566	
		Average of Peak Amounts =				0.0562	
						RPD = 2.11	
8 PCB-1254							
1	7.288	7.288	0.000	2793931	0.0500	0.0555	
1	7.622	7.622	0.000	3772809	0.0500	0.0521	
1	8.105	8.105	0.000	5317309	0.0500	0.0498	
1	8.447	8.447	0.000	4070179	0.0500	0.0526	
1	9.005	9.005	0.000	5191671	0.0500	0.0475	
		Average of Peak Amounts =				0.0515	
2	8.384	8.384	0.000	2491719	0.0500	0.0515	
2	8.627	8.627	0.000	2925404	0.0500	0.0532	
2	9.187	9.187	0.000	4271595	0.0500	0.0517	
2	9.465	9.465	0.000	2735193	0.0500	0.0479	
2	10.111	10.111	0.000	3990782	0.0500	0.0493	
		Average of Peak Amounts =				0.0507	
						RPD = 1.53	

Reagents:

SG2154@0.05PP_00008	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

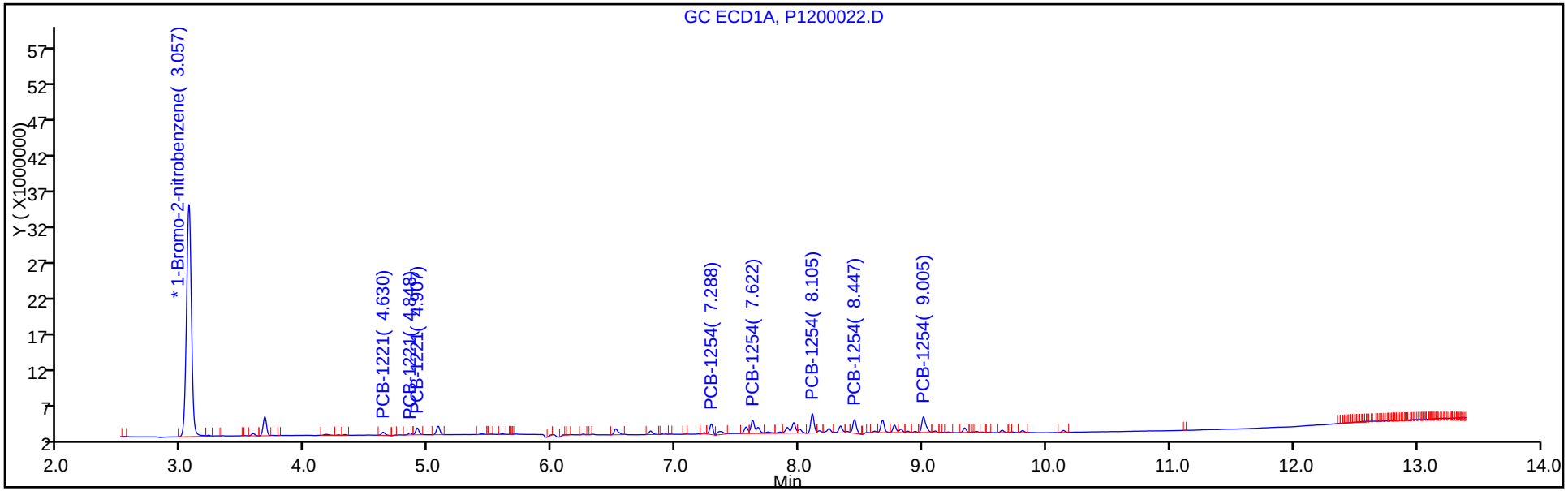
Report Date: 23-Apr-2015 06:28:40 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

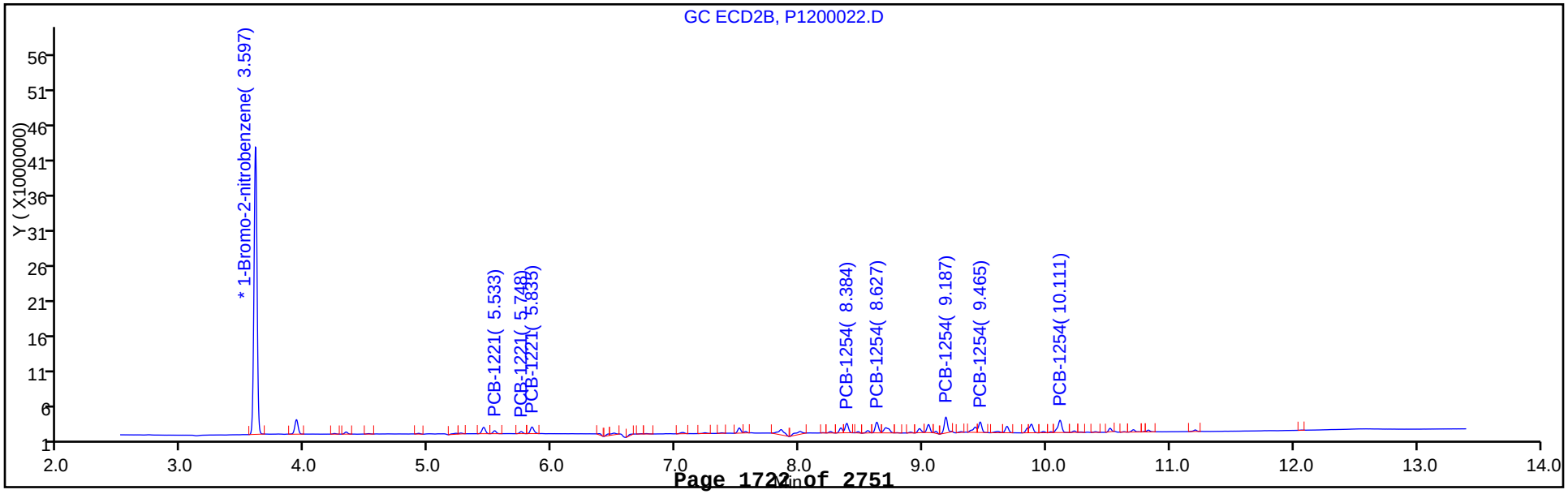
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200022.D

Injection Date:	22-Apr-2015 23:15:26	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 AR2154			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200023.D
Lims ID: STD01 AR2154
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2015 23:33:29 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-023
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:41 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:01:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	83013008	0.0500	0.0500	
2	3.596	3.597	0.000	63944067	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	1717828	0.1000	0.1192	
1	4.849	4.848	0.001	1030117	0.1000	0.1162	
1	4.906	4.907	-0.001	3672463	0.1000	0.1090	
		Average of Peak Amounts =				0.1148	
2	5.533	5.533	0.000	1406469	0.1000	0.1176	
2	5.748	5.748	0.000	964453	0.1000	0.1177	
2	5.835	5.835	0.000	3559756	0.1000	0.1169	
		Average of Peak Amounts =				0.1174	
						RPD = 2.22	
8 PCB-1254							
1	7.288	7.288	0.000	4801898	0.1000	0.1048	
1	7.624	7.622	0.002	6934351	0.1000	0.1053	
1	8.105	8.105	0.000	9994397	0.1000	0.1028	
1	8.446	8.447	-0.001	7222027	0.1000	0.1026	
1	9.005	9.005	0.000	10327484	0.1000	0.1038	
		Average of Peak Amounts =				0.1039	
2	8.385	8.384	0.001	4938308	0.1000	0.1133	
2	8.628	8.627	0.001	5510316	0.1000	0.1112	
2	9.187	9.187	0.000	7963812	0.1000	0.1071	
2	9.464	9.465	-0.001	5362061	0.1000	0.1043	
2	10.111	10.111	0.000	7890616	0.1000	0.1081	
		Average of Peak Amounts =				0.1088	
						RPD = 4.66	

Reagents:

SG2154@O.1PPM_00010	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

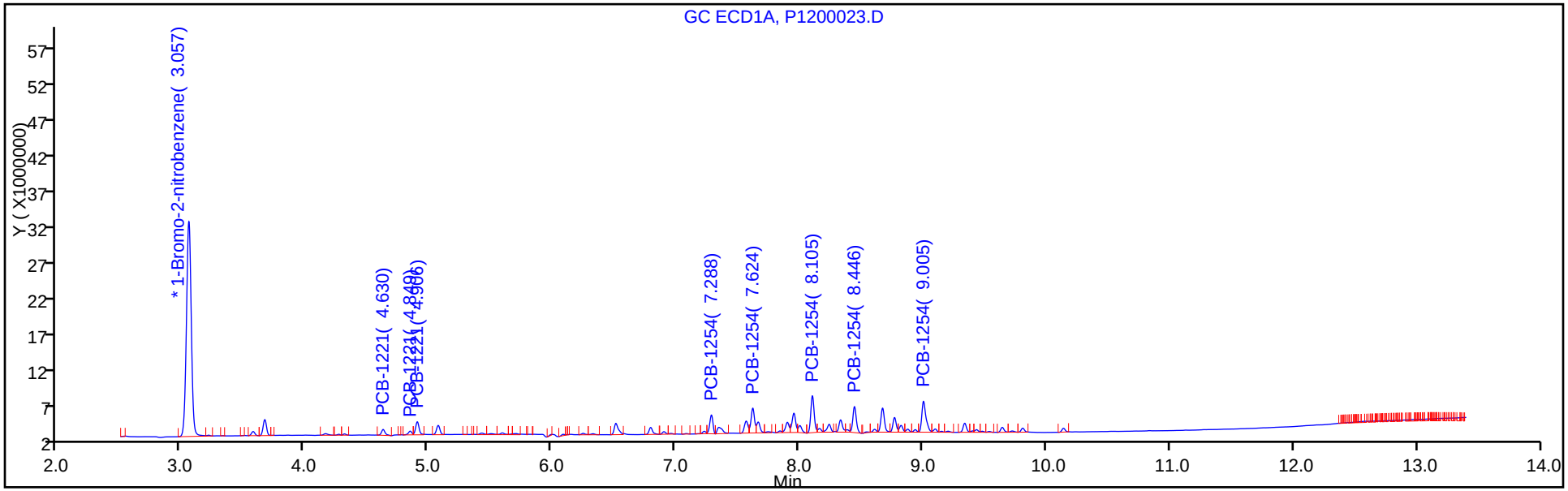
Report Date: 23-Apr-2015 06:28:43 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

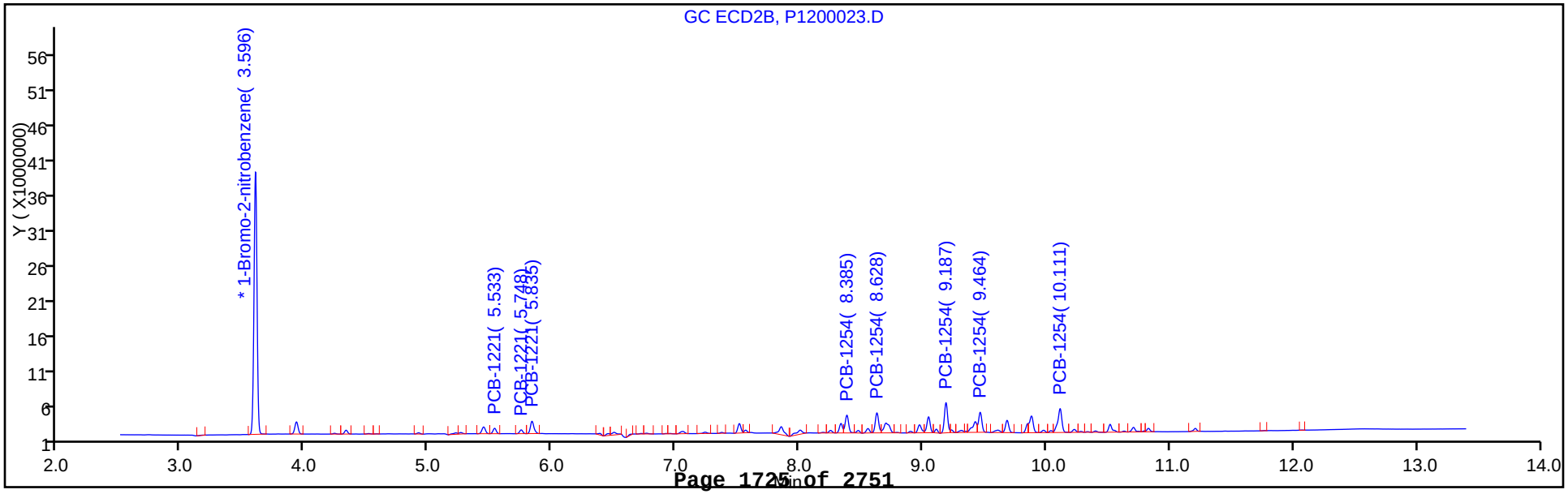
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200023.D

Injection Date:	22-Apr-2015 23:33:29	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 AR2154			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200024.D
Lims ID: STD02 AR2154
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Apr-2015 23:51:31 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-024
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:43 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:13:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	87650129	0.0500	0.0500	
2	3.597	3.597	0.001	68439438	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	3046929	0.2000	0.2002	
1	4.847	4.848	-0.001	1926920	0.2000	0.2058	
1	4.906	4.907	-0.001	7021851	0.2000	0.1975	
		Average of Peak Amounts =				0.2011	
2	5.532	5.533	-0.001	2631614	0.2000	0.2055	
2	5.747	5.748	-0.001	1824664	0.2000	0.2080	
2	5.836	5.835	0.001	6624762	0.2000	0.2032	
		Average of Peak Amounts =				0.2056	
						RPD = 2.18	
8 PCB-1254							
1	7.288	7.288	0.000	9270925	0.2000	0.1916	
1	7.622	7.622	0.000	13511751	0.2000	0.1943	
1	8.106	8.105	0.001	20031940	0.2000	0.1952	
1	8.446	8.447	-0.001	14377550	0.2000	0.1935	
1	9.005	9.005	0.000	20777383	0.2000	0.1977	
		Average of Peak Amounts =				0.1945	
2	8.384	8.384	0.000	9399428	0.2000	0.2016	
2	8.627	8.627	0.000	10566778	0.2000	0.1992	
2	9.187	9.187	0.000	15653964	0.2000	0.1967	
2	9.465	9.465	0.000	11289539	0.2000	0.2052	
2	10.111	10.111	0.000	15544025	0.2000	0.1990	
		Average of Peak Amounts =				0.2003	
						RPD = 2.97	

Reagents:

SG2154@0.2PPM_00009	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

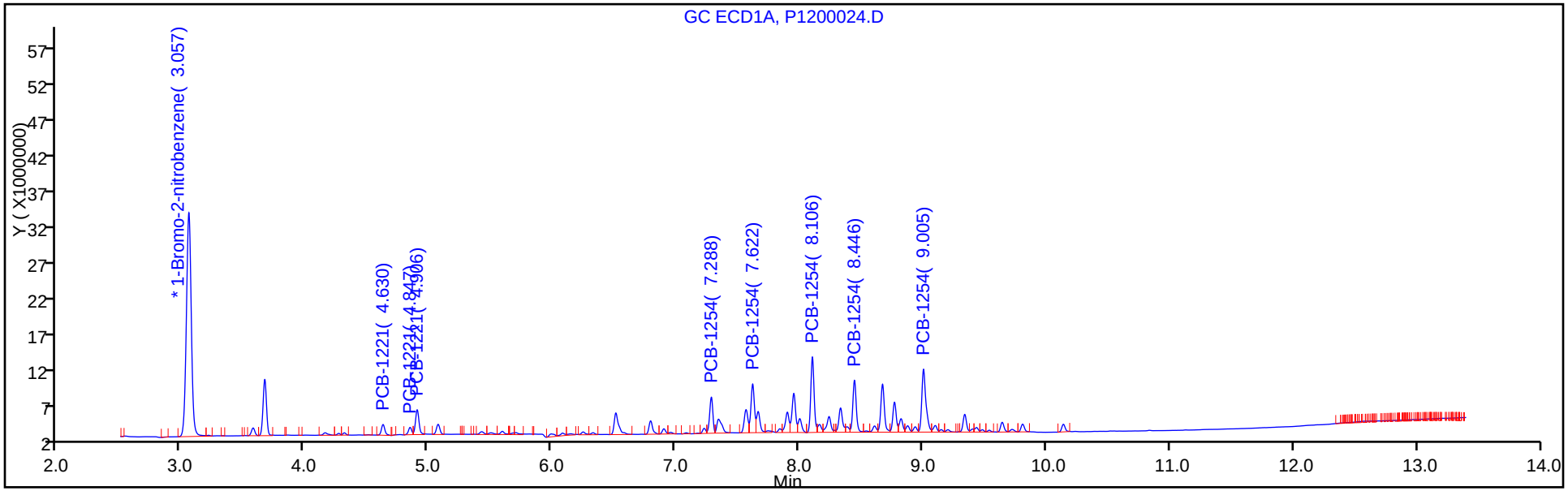
Report Date: 23-Apr-2015 06:28:45 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

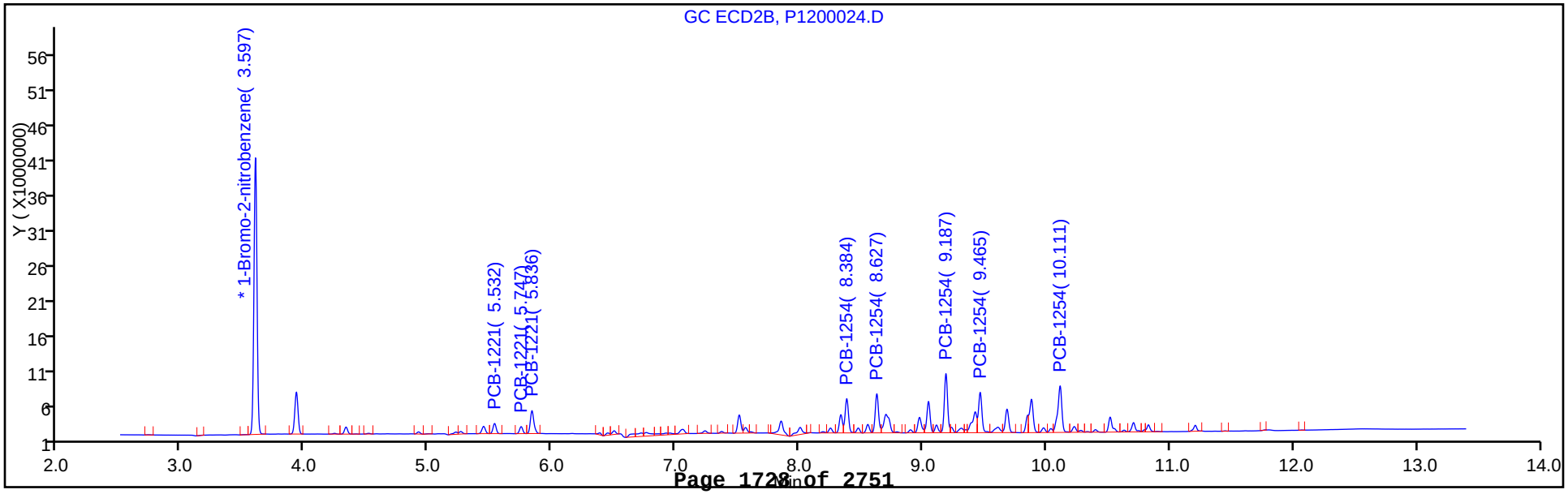
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200024.D

Injection Date:	22-Apr-2015 23:51:31	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 AR2154			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200025.D
Lims ID: STD05 AR2154
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Apr-2015 00:09:43 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-025
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:46 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:26:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.057	0.001	85520141	0.0500	0.0500	
2	3.597	3.597	0.000	66479769	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	6964963	0.5000	0.4690	
1	4.849	4.848	0.001	4588798	0.5000	0.5023	
1	4.907	4.907	0.000	17908440	0.5000	0.5162	
		Average of Peak Amounts =				0.4958	
2	5.533	5.533	0.000	6219136	0.5000	0.5000	
2	5.748	5.748	0.000	4276331	0.5000	0.5019	
2	5.836	5.835	0.001	15646900	0.5000	0.4941	
		Average of Peak Amounts =				0.4987	
					RPD =	0.57	
8 PCB-1254							
1	7.288	7.288	0.000	23719602	0.5000	0.5024	
1	7.623	7.622	0.001	34756730	0.5000	0.5123	
1	8.106	8.105	0.001	51755443	0.5000	0.5170	
1	8.447	8.447	0.000	36361479	0.5000	0.5016	
1	9.006	9.005	0.001	53368686	0.5000	0.5205	
		Average of Peak Amounts =				0.5107	
2	8.385	8.384	0.001	23295510	0.5000	0.5143	
2	8.628	8.627	0.001	26447645	0.5000	0.5134	
2	9.188	9.187	0.001	40429450	0.5000	0.5229	
2	9.465	9.465	0.000	28939646	0.5000	0.5414	
2	10.111	10.111	0.000	40170324	0.5000	0.5296	
		Average of Peak Amounts =				0.5243	
					RPD =	2.62	

Reagents:

SG2154@0.5PPM_00016	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

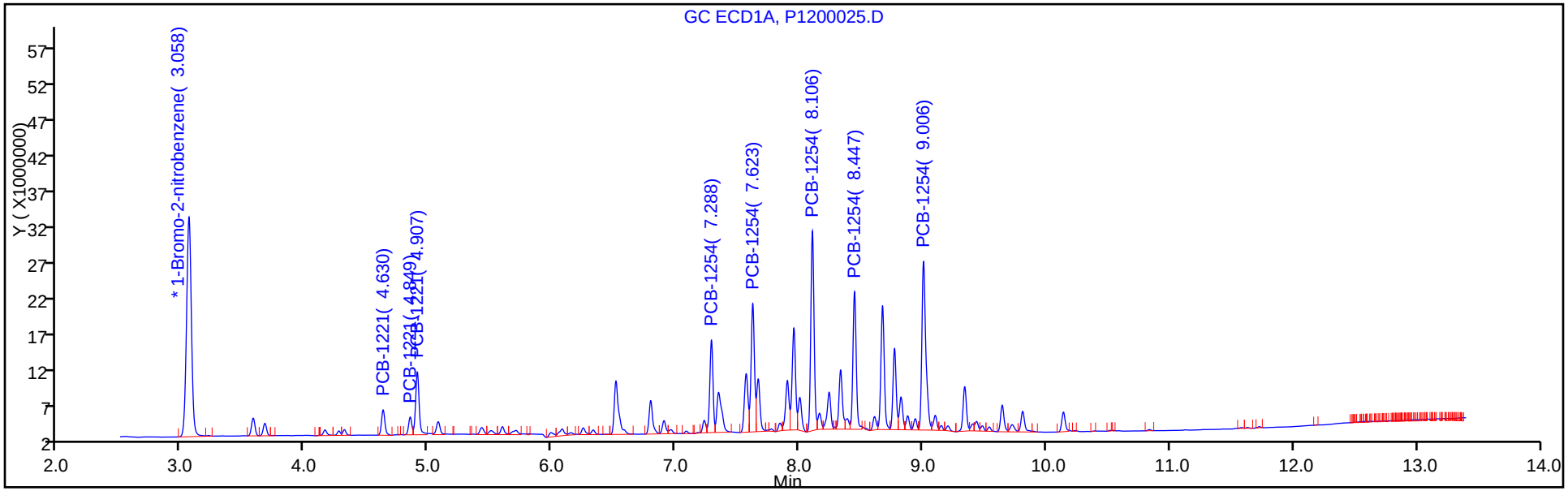
Report Date: 23-Apr-2015 06:28:47 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

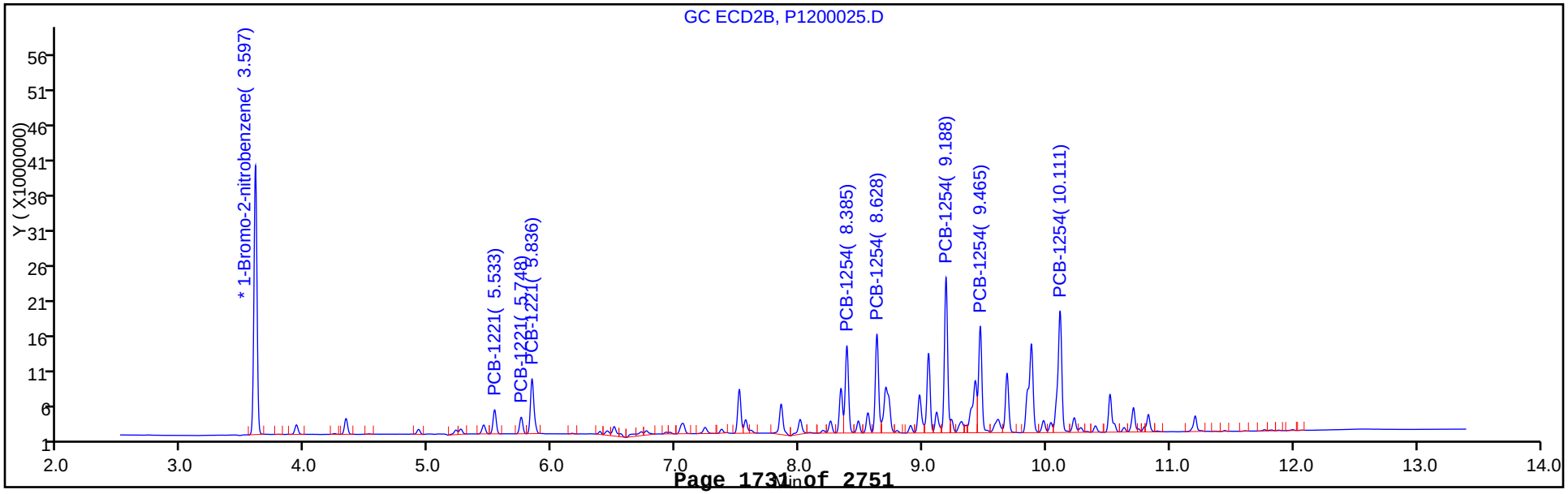
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200025.D

Injection Date:	23-Apr-2015 00:09:43	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 AR2154			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200026.D
Lims ID: STD1 AR2154
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Apr-2015 00:27:46 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-026
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:48 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	-0.001	94164289	0.0500	0.0500	
2	3.597	3.597	0.000	74235281	0.0500	0.0500	
3 PCB-1221							
1	4.629	4.630	-0.001	13235273	1.00	0.8093	
1	4.848	4.848	0.000	8854123	1.00	0.8803	
1	4.906	4.907	-0.001	36059827	1.00	0.9439	
		Average of Peak Amounts =				0.8778	
2	5.533	5.533	0.000	11738020	1.00	0.8451	
2	5.748	5.748	0.000	8104095	1.00	0.8518	
2	5.835	5.835	0.000	30495214	1.00	0.8623	
		Average of Peak Amounts =				0.8531	
						RPD = 2.86	
8 PCB-1254							
1	7.287	7.288	-0.001	48540908	1.00	0.9337	
1	7.622	7.622	0.000	70615337	1.00	0.9452	
1	8.104	8.105	-0.001	107088625	1.00	0.9715	
1	8.446	8.447	-0.001	76872578	1.00	0.9630	
1	9.004	9.005	-0.001	110439681	1.00	0.9783	
		Average of Peak Amounts =				0.9583	
2	8.383	8.384	-0.001	45624621	1.00	0.9020	
2	8.626	8.627	-0.001	51889213	1.00	0.9020	
2	9.186	9.187	-0.001	80224006	1.00	0.9292	
2	9.463	9.465	-0.002	56182676	1.00	0.9412	
2	10.110	10.111	-0.001	79187698	1.00	0.9349	
		Average of Peak Amounts =				0.9219	
						RPD = 3.88	

Reagents:

SG2154@1.0PPM_00010	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

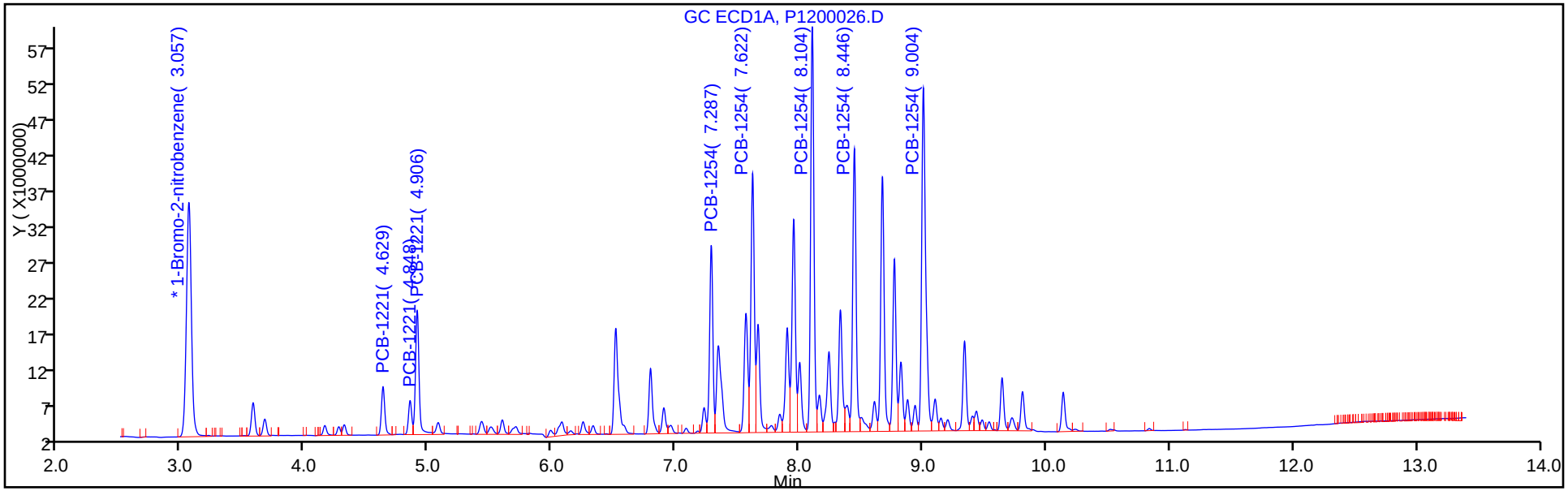
Report Date: 23-Apr-2015 06:28:49 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

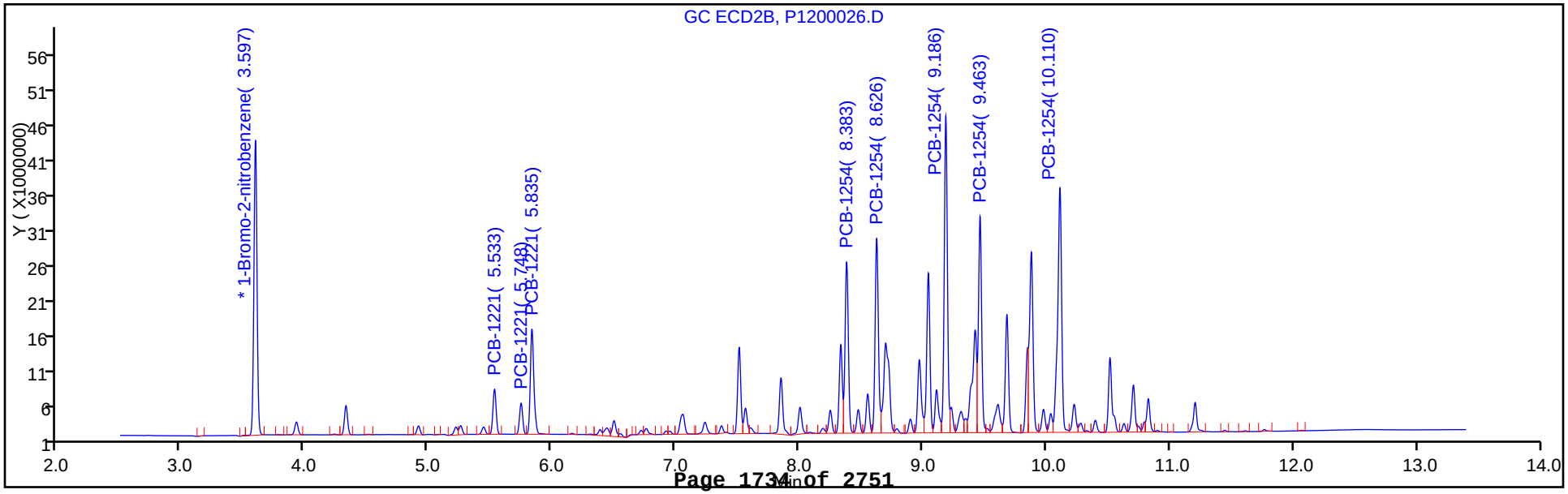
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200026.D

Injection Date:	23-Apr-2015 00:27:46	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 AR2154			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200027.D
Lims ID: STD2 AR2154
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Apr-2015 00:45:49 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-027
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:50 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.057	0.002	93923901	0.0500	0.0500	
2	3.597	3.597	0.001	74088471	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	26655924	2.00	1.63	
1	4.849	4.848	0.001	17336422	2.00	1.73	
1	4.906	4.907	-0.001	72320708	2.00	1.90	
		Average of Peak Amounts =				1.75	
2	5.533	5.533	0.000	22993571	2.00	1.66	
2	5.747	5.748	-0.001	15377924	2.00	1.62	
2	5.835	5.835	0.000	58863979	2.00	1.67	
		Average of Peak Amounts =				1.65	
						RPD = 6.15	
8 PCB-1254							
1	7.287	7.288	-0.001	98164403	2.00	1.89	
1	7.622	7.622	0.000	143559563	2.00	1.93	
1	8.105	8.105	0.000	218565719	2.00	1.99	
1	8.445	8.447	-0.002	157216055	2.00	1.97	
1	9.005	9.005	0.000	226326925	2.00	2.01	
		Average of Peak Amounts =				1.96	
2	8.384	8.384	0.000	90696219	2.00	1.80	
2	8.628	8.627	0.001	103262706	2.00	1.80	
2	9.187	9.187	0.000	161334909	2.00	1.87	
2	9.464	9.465	-0.001	113066914	2.00	1.90	
2	10.111	10.111	0.000	159621190	2.00	1.89	
		Average of Peak Amounts =				1.85	
						RPD = 5.65	

Reagents:

SG2154@2.0PPM_00009	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

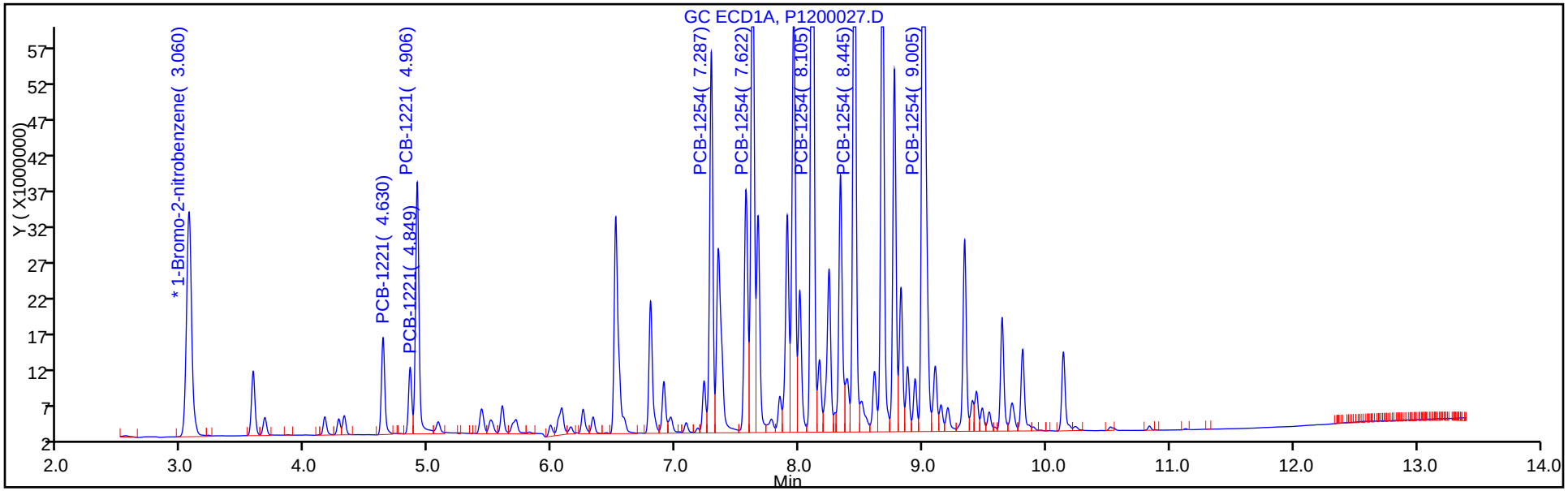
Report Date: 23-Apr-2015 06:28:57 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

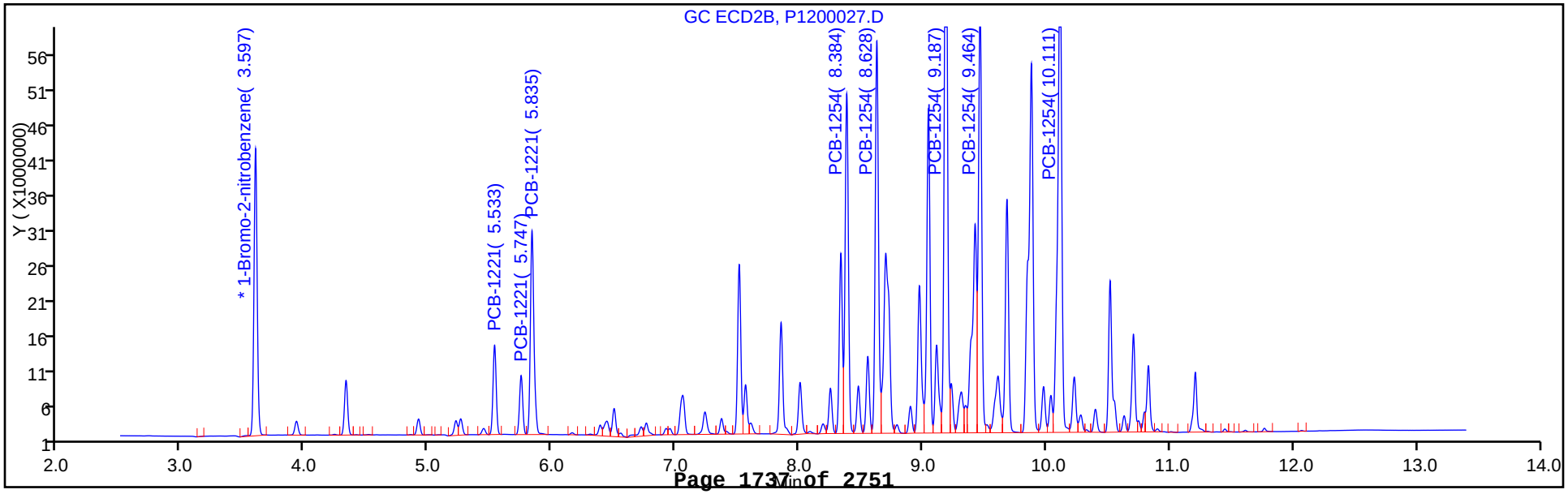
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200027.D

Injection Date:	23-Apr-2015 00:45:49	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 AR2154			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2015 01:03 Calibration End Date: 04/23/2015 02:34 Calibration ID: 28067

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/28	P1200028.D
Level 2	STD01 240-177497/29	P1200029.D
Level 3	STD02 240-177497/30	P1200030.D
Level 4	STD05 240-177497/31	P1200031.D
Level 5	STD1 240-177497/32	P1200032.D
Level 6	STD2 240-177497/33	P1200033.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0151 0.0128	0.0126	0.0143	0.0118	0.0137	Ave		0.0134				9.0		20.0			
PCB-1016 Peak 2	0.0317 0.0242	0.0271	0.0280	0.0232	0.0259	Ave		0.0267				11.4		20.0			
PCB-1016 Peak 3	0.0463 0.0469	0.0449	0.0466	0.0399	0.0455	Ave		0.0450				5.8		20.0			
PCB-1016 Peak 4	0.0306 0.0246	0.0302	0.0290	0.0234	0.0251	Ave		0.0272				11.5		20.0			
PCB-1016 Peak 5	0.0246 0.0169	0.0211	0.0198	0.0162	0.0167	Ave		0.0192				17.1		20.0			
PCB-1260 Peak 1	0.0451 0.0382	0.0390	0.0433	0.0347	0.0403	Ave		0.0401				9.2		20.0			
PCB-1260 Peak 2	0.0697 0.0615	0.0591	0.0653	0.0555	0.0645	Ave		0.0626				8.0		20.0			
PCB-1260 Peak 3	0.0807 0.0697	0.0642	0.0723	0.0621	0.0725	Ave		0.0703				9.5		20.0			
PCB-1260 Peak 4	0.0872 0.0968	0.0839	0.0955	0.0853	0.0997	Ave		0.0914				7.4		20.0			
PCB-1260 Peak 5	0.0461 0.0474	0.0422	0.0464	0.0412	0.0486	Ave		0.0453				6.5		20.0			
Tetrachloro-m-xylene	0.8896 0.8435	0.7848	0.8787	0.7892	0.8942	Ave		0.8467				5.9		20.0			
DCB Decachlorobiphenyl	1.0163 0.8564	0.8547	0.9332	0.8137	0.9002	Ave		0.8958				8.0		20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2015 01:03 Calibration End Date: 04/23/2015 02:34 Calibration ID: 28067

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/28	P1200028.D
Level 2	STD01 240-177497/29	P1200029.D
Level 3	STD02 240-177497/30	P1200030.D
Level 4	STD05 240-177497/31	P1200031.D
Level 5	STD1 240-177497/32	P1200032.D
Level 6	STD2 240-177497/33	P1200033.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	1361892 50946520	2375587	4972596	13299700	26187183	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	2870414 96713855	5099163	9759260	26141122	49517442	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	4187458 187177375	8450055	16255810	45065105	87142254	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	2768314 98170219	5681375	10103965	26449309	48119240	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	2225518 67292142	3970565	6918299	18247291	31916198	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Ave	4075499 152483651	7341829	15103880	39171385	77186698	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Ave	6308917 245233317	11123670	22773292	62575149	123485794	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Ave	7302643 278160854	12096532	25214811	70117684	138711515	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Ave	7888105 386069837	15796583	33298925	96266804	190894572	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	4168460 188911307	7955062	16194594	46494879	93100088	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Ave	4023751 168249257	7389496	15320590	44526106	85574468	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	BNB	Ave	4596781 170819905	8048354	16270049	45911067	86147913	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:

Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200028.D
Lims ID: STD005 1660
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Apr-2015 01:03:52 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-028
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:58 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.057	0.001	90461903	0.0500	0.0500	
2	3.597	3.597	0.000	71197399	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	4023751	0.002500	0.002627	
2	5.027	5.026	0.001	3527428	0.002500	0.002794	
						RPD = 6.16	
6 PCB-1016							
1	4.907	4.906	0.001	1361892	0.0500	0.0563	
1	5.426	5.426	0.000	2870414	0.0500	0.0595	
1	6.078	6.076	0.002	4187458	0.0500	0.0514	
1	6.249	6.249	0.000	2768314	0.0500	0.0563	
1	6.326	6.331	-0.005	2225518	0.0500	0.0640	
		Average of Peak Amounts =				0.0575	
2	5.835	5.835	0.000	1367288	0.0500	0.0620	
2	6.441	6.436	0.005	2274722	0.0500	0.0682	
2	7.055	7.056	-0.001	4799012	0.0500	0.0523	
2	7.236	7.236	0.000	1854682	0.0500	0.0504	
2	7.514	7.513	0.001	1239082	0.0500	0.0652	
		Average of Peak Amounts =				0.0596	
						RPD = 3.61	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.334	8.333	0.001	4075499	0.0500	0.0562	
1	8.674	8.674	0.000	6308917	0.0500	0.0557	
1	9.005	9.004	0.001	7302643	0.0500	0.0574	
1	9.808	9.807	0.001	7888105	0.0500	0.0477	
1	10.138	10.137	0.001	4168460	0.0500	0.0508	
		Average of Peak Amounts =				0.0536	
2	9.425	9.425	0.000	3562988	0.0500	0.0614	
2	9.681	9.681	0.000	3774777	0.0500	0.0580	
2	10.109	10.109	0.000	5445444	0.0500	0.0588	
2	10.826	10.826	0.000	6106193	0.0500	0.0510	
2	11.203	11.202	0.001	4426022	0.0500	0.0528	
		Average of Peak Amounts =				0.0564	
						RPD = 5.16	
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.312	0.002	4596781	0.002500	0.002836	
2	12.299	12.298	0.001	3180538	0.002500	0.002962	
						RPD = 4.33	

Reagents:

SG1660@.05PPM_00012	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

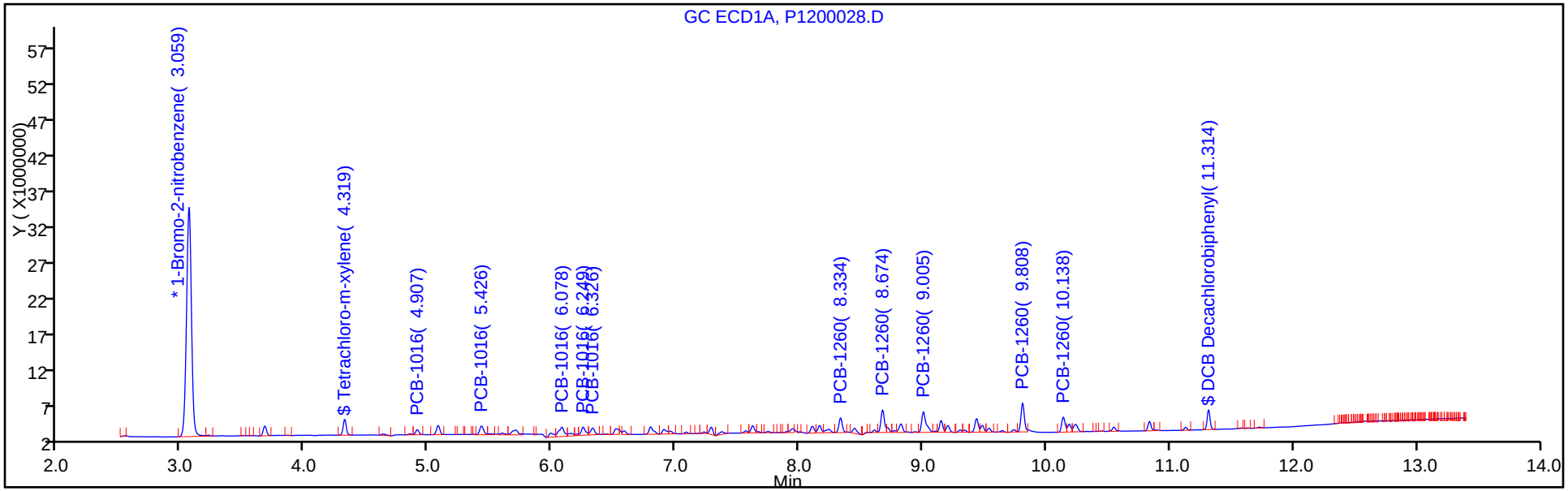
Report Date: 23-Apr-2015 06:28:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

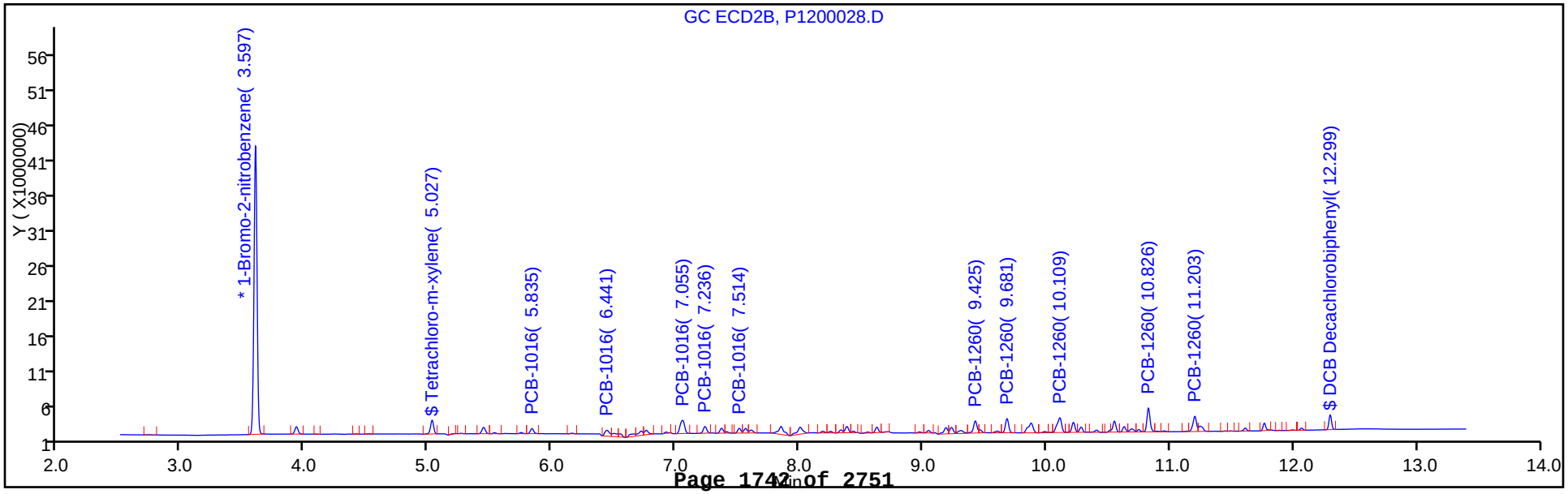
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200028.D

Injection Date:	23-Apr-2015 01:03:52	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1660			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200029.D
Lims ID: STD01 1660
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Apr-2015 01:22:03 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-029
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:25:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.059	0.001	94162116	0.0500	0.0500	
2	3.597	3.597	0.000	73212066	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.318	0.002	7389496	0.005000	0.004634	
2	5.027	5.026	0.001	6139145	0.005000	0.004728	
						RPD = 2.01	
6 PCB-1016							
1	4.907	4.906	0.001	2375587	0.1000	0.0944	
1	5.427	5.426	0.001	5099163	0.1000	0.1015	
1	6.078	6.076	0.002	8450055	0.1000	0.0996	
1	6.250	6.249	0.001	5681375	0.1000	0.1111	
1	6.331	6.331	0.000	3970565	0.1000	0.1098	
		Average of Peak Amounts =				0.1033	
2	5.835	5.835	0.000	2435610	0.1000	0.1074	
2	6.440	6.436	0.004	3631204	0.1000	0.1059	
2	7.055	7.056	-0.001	9263209	0.1000	0.0981	
2	7.236	7.236	0.000	3997317	0.1000	0.1057	
2	7.514	7.513	0.001	1978962	0.1000	0.1013	
		Average of Peak Amounts =				0.1037	
						RPD = 0.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.335	8.333	0.002	7341829	0.1000	0.0972	
1	8.675	8.674	0.001	11123670	0.1000	0.0944	
1	9.004	9.004	0.000	12096532	0.1000	0.0914	
1	9.808	9.807	0.001	15796583	0.1000	0.0918	
1	10.138	10.137	0.001	7955062	0.1000	0.0932	
		Average of Peak Amounts =				0.0936	
2	9.424	9.425	-0.001	5882166	0.1000	0.0986	
2	9.680	9.681	-0.001	6584279	0.1000	0.0984	
2	10.109	10.109	0.000	9139215	0.1000	0.0960	
2	10.825	10.826	-0.001	11957179	0.1000	0.0971	
2	11.202	11.202	0.000	8402124	0.1000	0.0975	
		Average of Peak Amounts =				0.0975	
						RPD = 4.11	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.312	0.001	8048354	0.005000	0.004771	
2	12.299	12.298	0.001	5542311	0.005000	0.005019	
						RPD = 5.07	

Reagents:

SG1660STD@0.1_00012	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

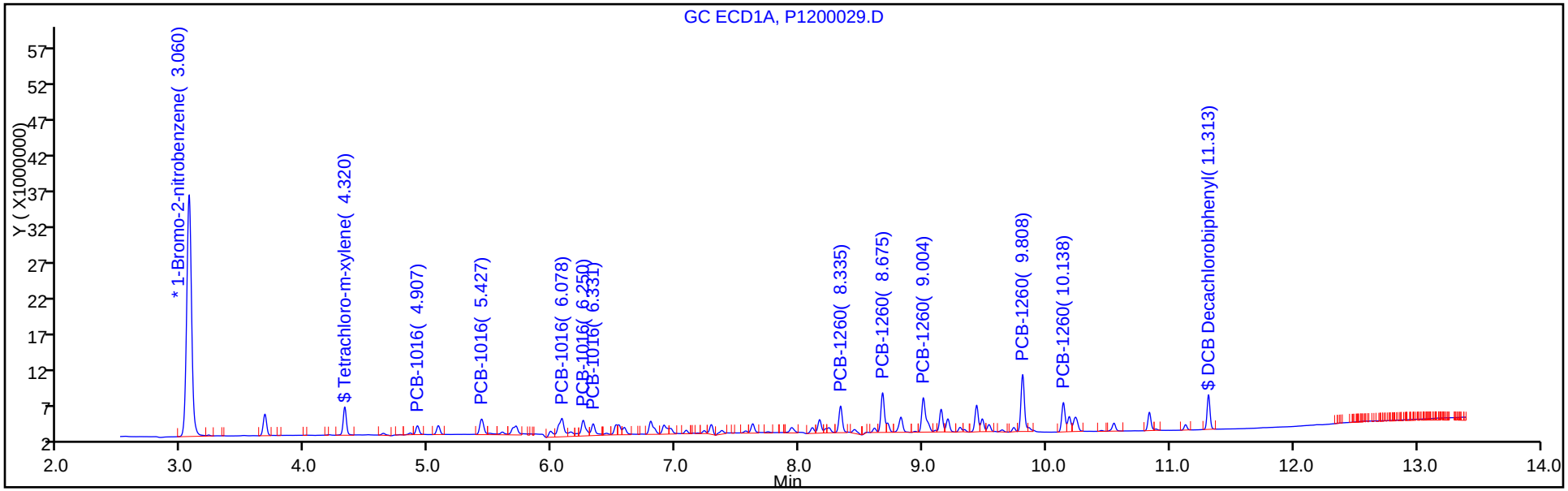
Report Date: 23-Apr-2015 06:29:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

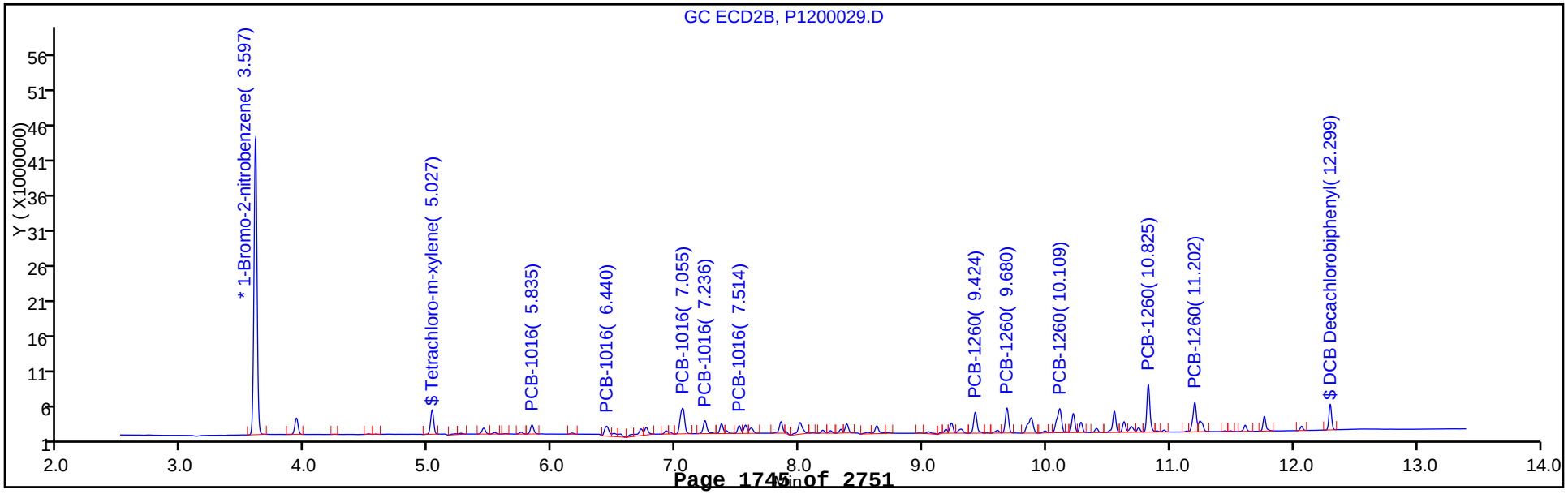
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200029.D

Injection Date:	23-Apr-2015 01:22:03	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1660			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200030.D
Lims ID: STD02 1660
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Apr-2015 01:40:05 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-030
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:05 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.059	0.000	87173649	0.0500	0.0500	
2	3.597	3.597	0.000	70798176	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.318	0.002	15320590	0.0100	0.0104	
2	5.028	5.026	0.002	12668191	0.0100	0.0101	
						RPD = 2.82	
6 PCB-1016							
1	4.908	4.906	0.002	4972596	0.2000	0.2135	
1	5.427	5.426	0.001	9759260	0.2000	0.2098	
1	6.077	6.076	0.001	16255810	0.2000	0.2071	
1	6.249	6.249	0.000	10103965	0.2000	0.2134	
1	6.331	6.331	0.000	6918299	0.2000	0.2066	
		Average of Peak Amounts =				0.2101	
2	5.837	5.835	0.002	4556179	0.2000	0.2078	
2	6.438	6.436	0.002	6469910	0.2000	0.1952	
2	7.056	7.056	0.000	18778514	0.2000	0.2056	
2	7.237	7.236	0.001	7977912	0.2000	0.2181	
2	7.514	7.513	0.001	3872475	0.2000	0.2050	
		Average of Peak Amounts =				0.2063	
						RPD = 1.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	15103880	0.2000	0.2160	
1	8.674	8.674	0.000	22773292	0.2000	0.2087	
1	9.004	9.004	0.000	25214811	0.2000	0.2058	
1	9.807	9.807	0.000	33298925	0.2000	0.2090	
1	10.137	10.137	0.000	16194594	0.2000	0.2049	
		Average of Peak Amounts =				0.2089	
2	9.425	9.425	0.000	11807273	0.2000	0.2047	
2	9.682	9.681	0.001	13152878	0.2000	0.2032	
2	10.109	10.109	0.000	18263221	0.2000	0.1984	
2	10.826	10.826	0.000	24166874	0.2000	0.2030	
2	11.202	11.202	0.000	16906747	0.2000	0.2028	
		Average of Peak Amounts =				0.2024	
						RPD = 3.15	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.312	0.001	16270049	0.0100	0.0104	
2	12.298	12.298	0.000	10980632	0.0100	0.0103	
						RPD = 1.30	

Reagents:

SG1660@0.2ppm_00011	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

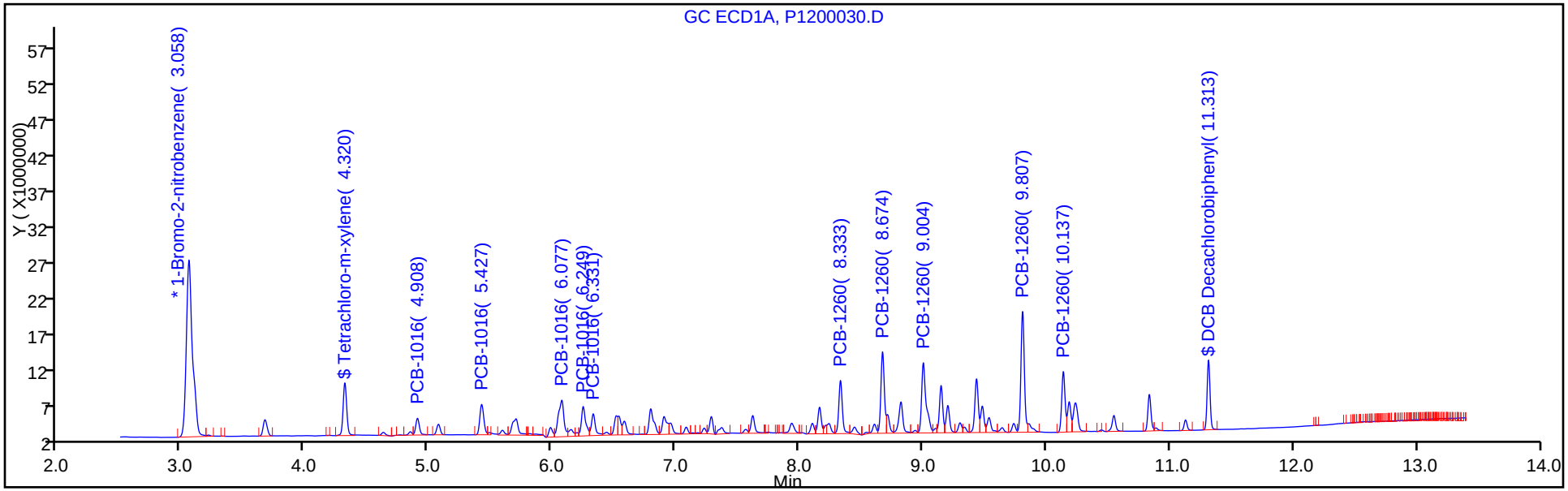
Report Date: 23-Apr-2015 06:29:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

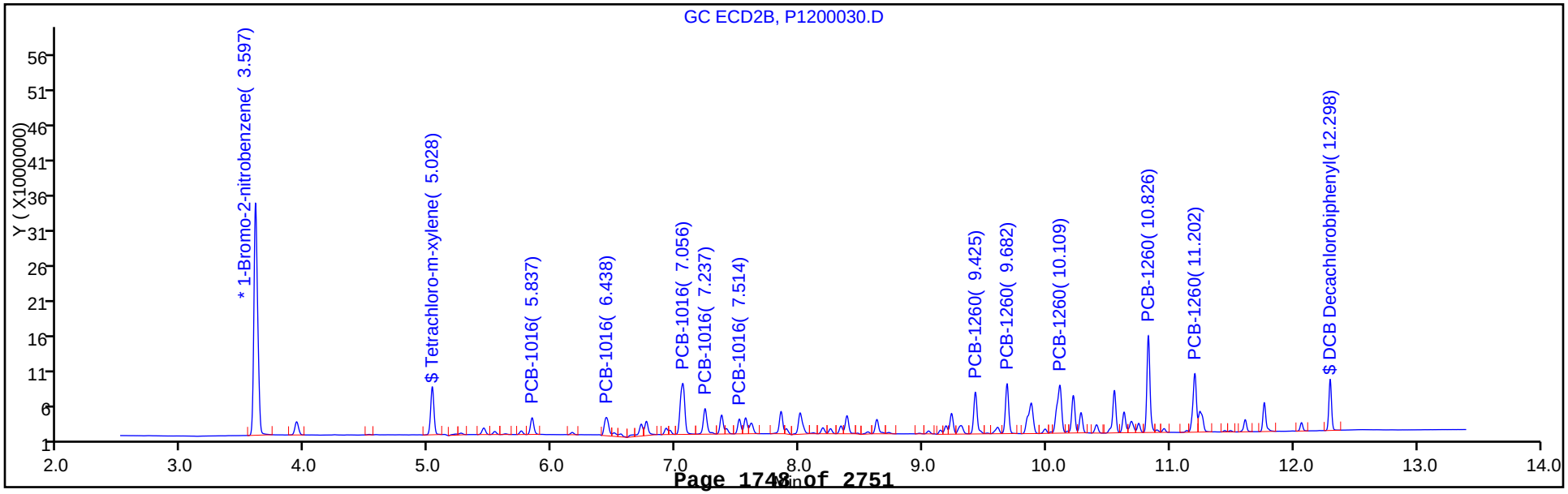
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200030.D

Injection Date:	23-Apr-2015 01:40:05	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1660			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200031.D
Lims ID: STD05 1660
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 23-Apr-2015 01:58:08 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-031
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:07 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.059	-0.002	112838549	0.0500	0.0500	
2	3.596	3.597	0.000	87214525	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	44526106	0.0250	0.0233	
2	5.026	5.026	0.000	36079658	0.0250	0.0233	
						RPD = 0.11	
6 PCB-1016							
1	4.906	4.906	0.000	13299700	0.5000	0.4411	
1	5.426	5.426	0.000	26141122	0.5000	0.4342	
1	6.076	6.076	0.000	45065105	0.5000	0.4435	
1	6.249	6.249	0.000	26449309	0.5000	0.4316	
1	6.331	6.331	0.000	18247291	0.5000	0.4210	
		Average of Peak Amounts =				0.4343	
2	5.835	5.835	0.000	11580772	0.5000	0.4288	
2	6.436	6.436	0.000	16482600	0.5000	0.4036	
2	7.056	7.056	0.000	52548785	0.5000	0.4671	
2	7.236	7.236	0.000	20736066	0.5000	0.4602	
2	7.513	7.513	0.000	10026631	0.5000	0.4309	
		Average of Peak Amounts =				0.4381	
						RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	39171385	0.5000	0.4328	
1	8.674	8.674	0.000	62575149	0.5000	0.4430	
1	9.004	9.004	0.000	70117684	0.5000	0.4422	
1	9.807	9.807	0.000	96266804	0.5000	0.4667	
1	10.137	10.137	0.000	46494879	0.5000	0.4545	
		Average of Peak Amounts =				0.4478	
2	9.425	9.425	0.000	30807807	0.5000	0.4336	
2	9.681	9.681	0.000	35495115	0.5000	0.4451	
2	10.109	10.109	0.000	50488455	0.5000	0.4452	
2	10.826	10.826	0.000	67913651	0.5000	0.4630	
2	11.202	11.202	0.000	46843486	0.5000	0.4562	
		Average of Peak Amounts =				0.4486	
						RPD = 0.17	
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.312	0.000	45911067	0.0250	0.0227	
2	12.298	12.298	0.000	29471321	0.0250	0.0224	
						RPD = 1.36	

Reagents:

SG1660@0.5PPM_00046 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

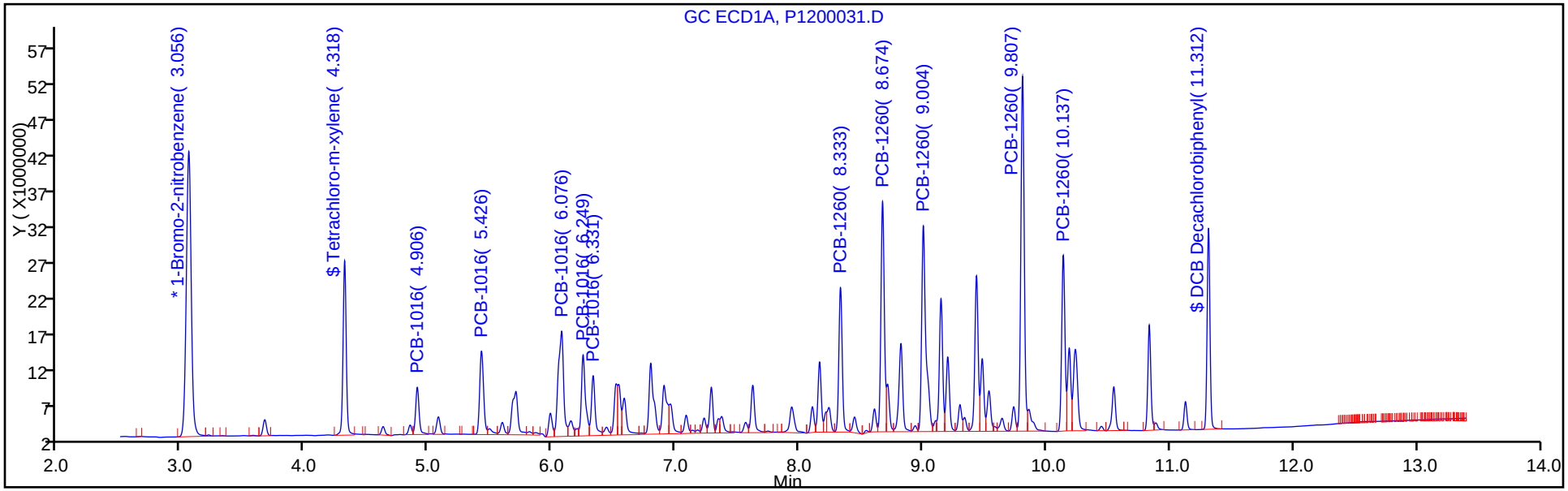
Report Date: 23-Apr-2015 06:29:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

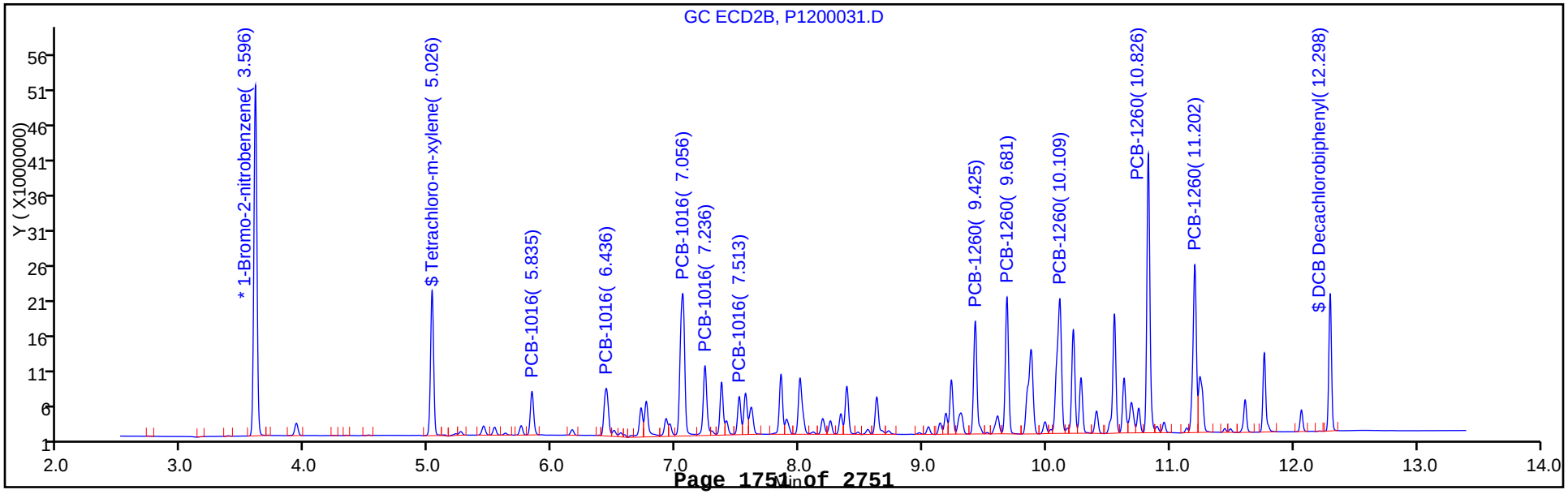
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200031.D

Injection Date:	23-Apr-2015 01:58:08	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1660			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200032.D
Lims ID: STD1 1660
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Apr-2015 02:16:13 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-032
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:10 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.056	0.002	95696587	0.0500	0.0500	
2	3.597	3.596	0.001	74599443	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	85574468	0.0500	0.0528	
2	5.026	5.026	0.000	67569228	0.0500	0.0511	
						RPD = 3.34	
6 PCB-1016							
1	4.907	4.906	0.001	26187183	1.00	1.02	
1	5.427	5.426	0.001	49517442	1.00	0.9697	
1	6.074	6.076	-0.002	87142254	1.00	1.01	
1	6.249	6.249	0.000	48119240	1.00	0.9258	
1	6.330	6.331	-0.001	31916198	1.00	0.8682	
		Average of Peak Amounts =				0.9598	
2	5.835	5.835	0.000	21687879	1.00	0.9388	
2	6.434	6.436	-0.002	31943812	1.00	0.9146	
2	7.055	7.056	-0.001	101364939	1.00	1.05	
2	7.235	7.236	-0.001	39092849	1.00	1.01	
2	7.513	7.513	0.000	18877654	1.00	0.9486	
		Average of Peak Amounts =				0.9739	
						RPD = 1.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.332	8.333	-0.001	77186698	1.00	1.01	
1	8.673	8.674	-0.001	123485794	1.00	1.03	
1	9.003	9.004	-0.001	138711515	1.00	1.03	
1	9.806	9.807	-0.001	190894572	1.00	1.09	
1	10.135	10.137	-0.002	93100088	1.00	1.07	
		Average of Peak Amounts =				1.05	
2	9.424	9.425	-0.001	59775147	1.00	0.9836	
2	9.680	9.681	-0.001	68935063	1.00	1.01	
2	10.109	10.109	0.000	98891846	1.00	1.02	
2	10.825	10.826	-0.001	133027660	1.00	1.06	
2	11.201	11.202	-0.001	91737122	1.00	1.04	
		Average of Peak Amounts =				1.02	
						RPD = 2.20	
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.312	0.000	86147913	0.0500	0.0502	
2	12.298	12.298	0.000	54756313	0.0500	0.0487	
						RPD = 3.20	

Reagents:

SG1660@1.0PPM_00011	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

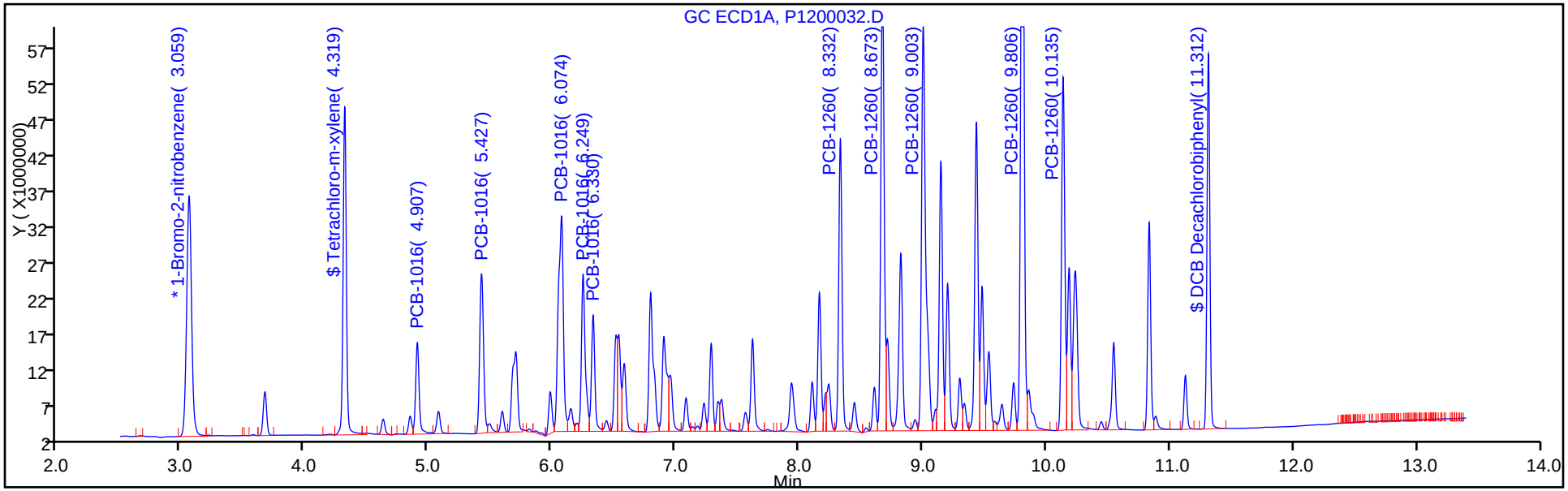
Report Date: 23-Apr-2015 06:29:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

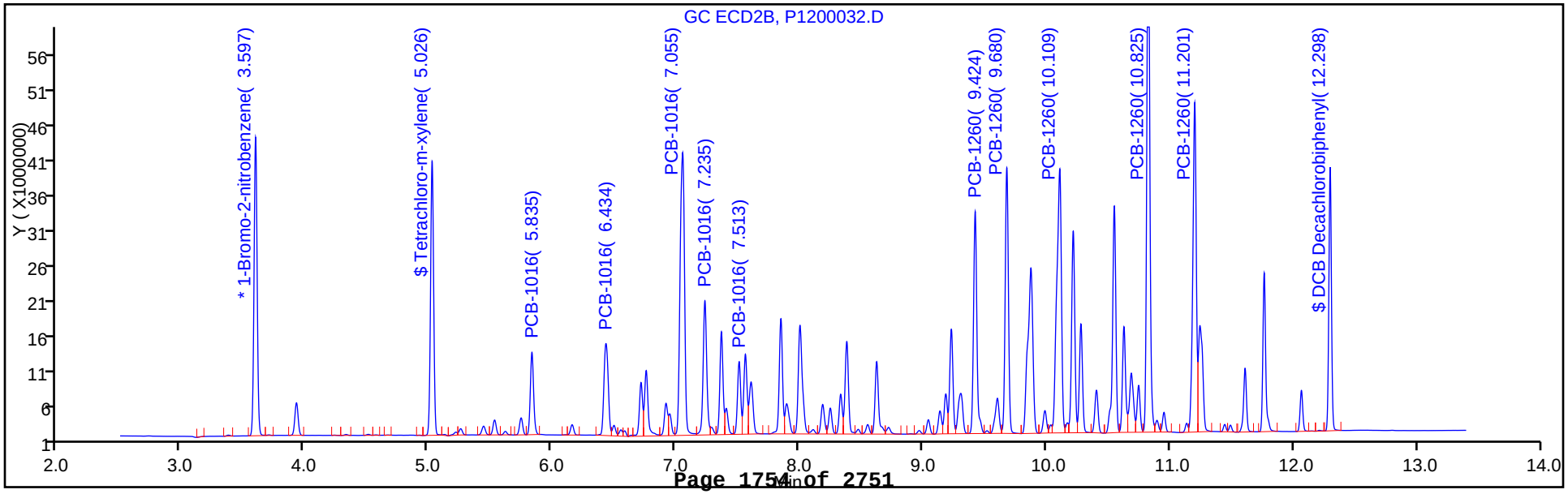
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200032.D

Injection Date:	23-Apr-2015 02:16:13	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1660			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D
Lims ID: STD2 1660
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Apr-2015 02:34:22 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-033
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.056	0.003	99731324	0.0500	0.0500	
2	3.597	3.596	0.001	78321003	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.318	0.002	168249257	0.1000	0.0996	
2	5.027	5.026	0.001	135175925	0.1000	0.0973	
						RPD = 2.34	
6 PCB-1016							
1	4.907	4.906	0.001	50946520	2.00	1.91	
1	5.427	5.426	0.001	96713855	2.00	1.82	
1	6.075	6.076	-0.001	187177375	2.00	2.08	
1	6.250	6.249	0.001	98170219	2.00	1.81	
1	6.331	6.331	0.000	67292142	2.00	1.76	
		Average of Peak Amounts =				1.88	
2	5.835	5.835	0.000	41228518	2.00	1.70	
2	6.434	6.436	-0.002	64400237	2.00	1.76	
2	7.056	7.056	0.000	193724266	2.00	1.92	
2	7.236	7.236	0.000	73652740	2.00	1.82	
2	7.514	7.513	0.001	35374114	2.00	1.69	
		Average of Peak Amounts =				1.78	
						RPD = 5.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	152483651	2.00	1.91	
1	8.674	8.674	0.000	245233317	2.00	1.96	
1	9.004	9.004	0.000	278160854	2.00	1.98	
1	9.807	9.807	0.000	386069837	2.00	2.12	
1	10.137	10.137	0.000	188911307	2.00	2.09	
		Average of Peak Amounts =				2.01	
2	9.426	9.425	0.001	116185929	2.00	1.82	
2	9.681	9.681	0.000	134699280	2.00	1.88	
2	10.110	10.109	0.001	195891028	2.00	1.92	
2	10.826	10.826	0.000	265578693	2.00	2.02	
2	11.201	11.202	-0.001	184123727	2.00	2.00	
		Average of Peak Amounts =				1.93	
						RPD = 4.30	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.312	0.001	170819905	0.1000	0.0956	
2	12.298	12.298	0.000	107929269	0.1000	0.0914	
						RPD = 4.54	

Reagents:

SG1660@2.0PPM_00012	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

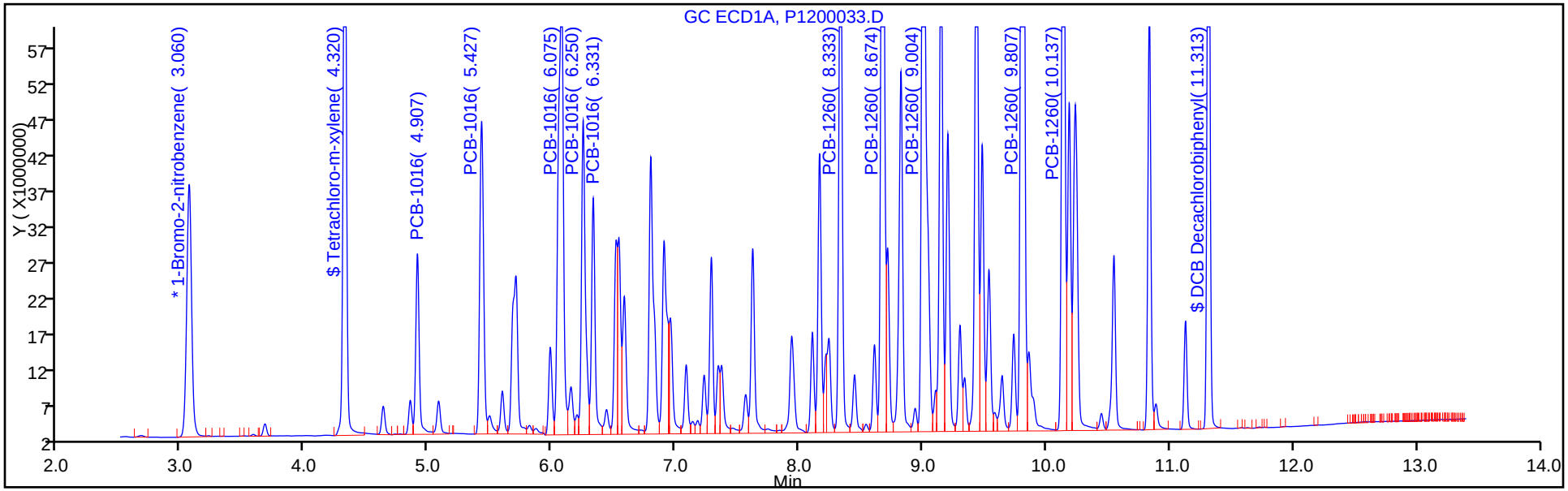
Report Date: 23-Apr-2015 06:29:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

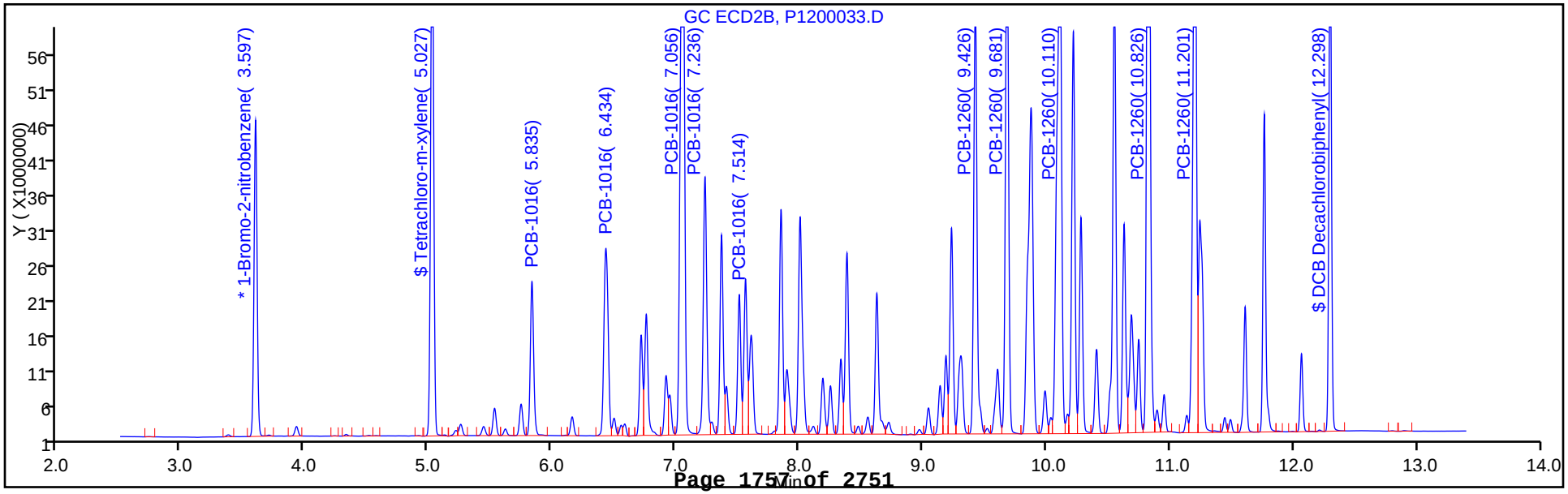
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Injection Date:	23-Apr-2015 02:34:22	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1660			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-49071-1 Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2015 01:03 Calibration End Date: 04/23/2015 02:34 Calibration ID: 28068

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/28	P1200028.D
Level 2	STD01 240-177497/29	P1200029.D
Level 3	STD02 240-177497/30	P1200030.D
Level 4	STD05 240-177497/31	P1200031.D
Level 5	STD1 240-177497/32	P1200032.D
Level 6	STD2 240-177497/33	P1200033.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0192 0.0132	0.0166	0.0161	0.0133	0.0145	Ave		0.0155				14.9		20.0			
PCB-1016 Peak 2	0.0319 0.0206	0.0248	0.0228	0.0189	0.0214	Ave		0.0234				19.8		20.0			
PCB-1016 Peak 3	0.0674 0.0618	0.0633	0.0663	0.0603	0.0679	Ave		0.0645				4.9		20.0			
PCB-1016 Peak 4	0.0260 0.0235	0.0273	0.0282	0.0238	0.0262	Ave		0.0258				7.2		20.0			
PCB-1016 Peak 5	0.0174 0.0113	0.0135	0.0137	0.0115	0.0127	Ave		0.0133				16.7		20.0			
PCB-1260 Peak 1	0.0500 0.0371	0.0402	0.0417	0.0353	0.0401	Ave		0.0407				12.6		20.0			
PCB-1260 Peak 2	0.0530 0.0430	0.0450	0.0464	0.0407	0.0462	Ave		0.0457				9.1		20.0			
PCB-1260 Peak 3	0.0765 0.0625	0.0624	0.0645	0.0579	0.0663	Ave		0.0650				9.7		20.0			
PCB-1260 Peak 4	0.0858 0.0848	0.0817	0.0853	0.0779	0.0892	Ave		0.0841				4.6		20.0			
PCB-1260 Peak 5	0.0622 0.0588	0.0574	0.0597	0.0537	0.0615	Ave		0.0589				5.2		20.0			
Tetrachloro-m-xylene	0.9909 0.8630	0.8385	0.8947	0.8274	0.9058	Ave		0.8867				6.7		20.0			
DCB Decachlorobiphenyl	0.8934 0.6890	0.7570	0.7755	0.6758	0.7340	Ave		0.7541				10.4		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton | Job No.: 240-49071-1 | Analy Batch No.: 177497

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 | GC Column: CLP-2 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/23/2015 01:03 | Calibration End Date: 04/23/2015 02:34 | Calibration ID: 28068

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 240-177497/28	P1200028.D
Level 2	STD01 240-177497/29	P1200029.D
Level 3	STD02 240-177497/30	P1200030.D
Level 4	STD05 240-177497/31	P1200031.D
Level 5	STD1 240-177497/32	P1200032.D
Level 6	STD2 240-177497/33	P1200033.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	1367288 41228518	2435610	4556179	11580772	21687879	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	2274722 64400237	3631204	6469910	16482600	31943812	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	4799012 193724266	9263209	18778514	52548785	101364939	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	1854682 73652740	3997317	7977912	20736066	39092849	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	1239082 35374114	1978962	3872475	10026631	18877654	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 1	BNB	Ave	3562988 116185929	5882166	11807273	30807807	59775147	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 2	BNB	Ave	3774777 134699280	6584279	13152878	35495115	68935063	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 3	BNB	Ave	5445444 195891028	9139215	18263221	50488455	98891846	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 4	BNB	Ave	6106193 265578693	11957179	24166874	67913651	133027660	0.0500 2.00	0.100	0.200	0.500	1.00
PCB-1260 Peak 5	BNB	Ave	4426022 184123727	8402124	16906747	46843486	91737122	0.0500 2.00	0.100	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Ave	3527428 135175925	6139145	12668191	36079658	67569228	0.00250 0.100	0.00500	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl	BNB	Ave	3180538 107929269	5542311	10980632	29471321	54756313	0.00250 0.100	0.00500	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200028.D
Lims ID: STD005 1660
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Apr-2015 01:03:52 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-028
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:28:58 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.057	0.001	90461903	0.0500	0.0500	
2	3.597	3.597	0.000	71197399	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	4023751	0.002500	0.002627	
2	5.027	5.026	0.001	3527428	0.002500	0.002794	
						RPD = 6.16	
6 PCB-1016							
1	4.907	4.906	0.001	1361892	0.0500	0.0563	
1	5.426	5.426	0.000	2870414	0.0500	0.0595	
1	6.078	6.076	0.002	4187458	0.0500	0.0514	
1	6.249	6.249	0.000	2768314	0.0500	0.0563	
1	6.326	6.331	-0.005	2225518	0.0500	0.0640	
		Average of Peak Amounts =				0.0575	
2	5.835	5.835	0.000	1367288	0.0500	0.0620	
2	6.441	6.436	0.005	2274722	0.0500	0.0682	
2	7.055	7.056	-0.001	4799012	0.0500	0.0523	
2	7.236	7.236	0.000	1854682	0.0500	0.0504	
2	7.514	7.513	0.001	1239082	0.0500	0.0652	
		Average of Peak Amounts =				0.0596	
						RPD = 3.61	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.334	8.333	0.001	4075499	0.0500	0.0562	
1	8.674	8.674	0.000	6308917	0.0500	0.0557	
1	9.005	9.004	0.001	7302643	0.0500	0.0574	
1	9.808	9.807	0.001	7888105	0.0500	0.0477	
1	10.138	10.137	0.001	4168460	0.0500	0.0508	
		Average of Peak Amounts =				0.0536	
2	9.425	9.425	0.000	3562988	0.0500	0.0614	
2	9.681	9.681	0.000	3774777	0.0500	0.0580	
2	10.109	10.109	0.000	5445444	0.0500	0.0588	
2	10.826	10.826	0.000	6106193	0.0500	0.0510	
2	11.203	11.202	0.001	4426022	0.0500	0.0528	
		Average of Peak Amounts =				0.0564	
						RPD = 5.16	
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.312	0.002	4596781	0.002500	0.002836	
2	12.299	12.298	0.001	3180538	0.002500	0.002962	
						RPD = 4.33	

Reagents:

SG1660@.05PPM_00012	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

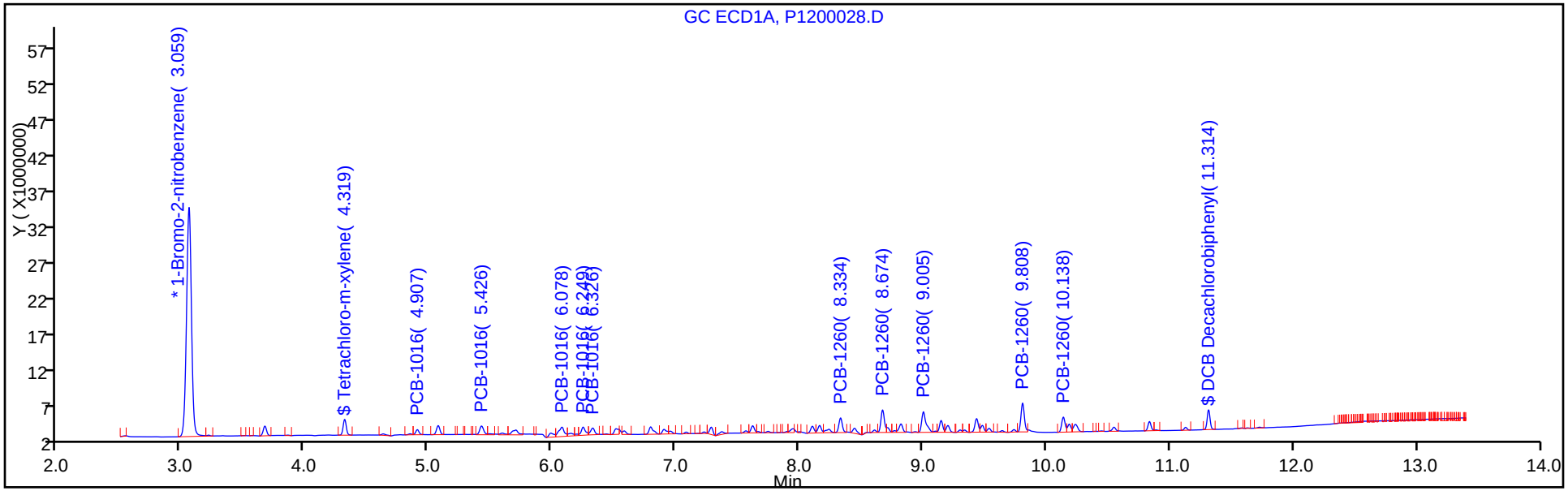
Report Date: 23-Apr-2015 06:29:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

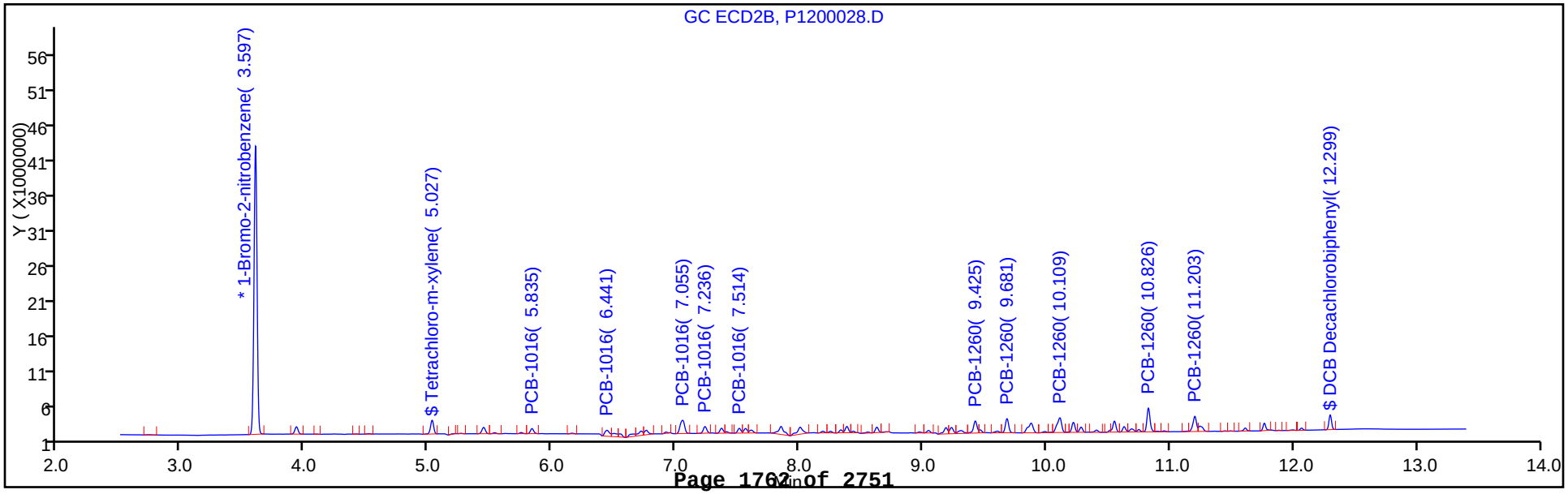
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200028.D

Injection Date:	23-Apr-2015 01:03:52	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD005 1660			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200029.D
Lims ID: STD01 1660
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Apr-2015 01:22:03 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-029
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:25:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.059	0.001	94162116	0.0500	0.0500	
2	3.597	3.597	0.000	73212066	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.318	0.002	7389496	0.005000	0.004634	
2	5.027	5.026	0.001	6139145	0.005000	0.004728	
						RPD = 2.01	
6 PCB-1016							
1	4.907	4.906	0.001	2375587	0.1000	0.0944	
1	5.427	5.426	0.001	5099163	0.1000	0.1015	
1	6.078	6.076	0.002	8450055	0.1000	0.0996	
1	6.250	6.249	0.001	5681375	0.1000	0.1111	
1	6.331	6.331	0.000	3970565	0.1000	0.1098	
		Average of Peak Amounts =				0.1033	
2	5.835	5.835	0.000	2435610	0.1000	0.1074	
2	6.440	6.436	0.004	3631204	0.1000	0.1059	
2	7.055	7.056	-0.001	9263209	0.1000	0.0981	
2	7.236	7.236	0.000	3997317	0.1000	0.1057	
2	7.514	7.513	0.001	1978962	0.1000	0.1013	
		Average of Peak Amounts =				0.1037	
						RPD = 0.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.335	8.333	0.002	7341829	0.1000	0.0972	
1	8.675	8.674	0.001	11123670	0.1000	0.0944	
1	9.004	9.004	0.000	12096532	0.1000	0.0914	
1	9.808	9.807	0.001	15796583	0.1000	0.0918	
1	10.138	10.137	0.001	7955062	0.1000	0.0932	
		Average of Peak Amounts =				0.0936	
2	9.424	9.425	-0.001	5882166	0.1000	0.0986	
2	9.680	9.681	-0.001	6584279	0.1000	0.0984	
2	10.109	10.109	0.000	9139215	0.1000	0.0960	
2	10.825	10.826	-0.001	11957179	0.1000	0.0971	
2	11.202	11.202	0.000	8402124	0.1000	0.0975	
		Average of Peak Amounts =				0.0975	
						RPD = 4.11	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.312	0.001	8048354	0.005000	0.004771	
2	12.299	12.298	0.001	5542311	0.005000	0.005019	
						RPD = 5.07	

Reagents:

SG1660STD@0.1_00012	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

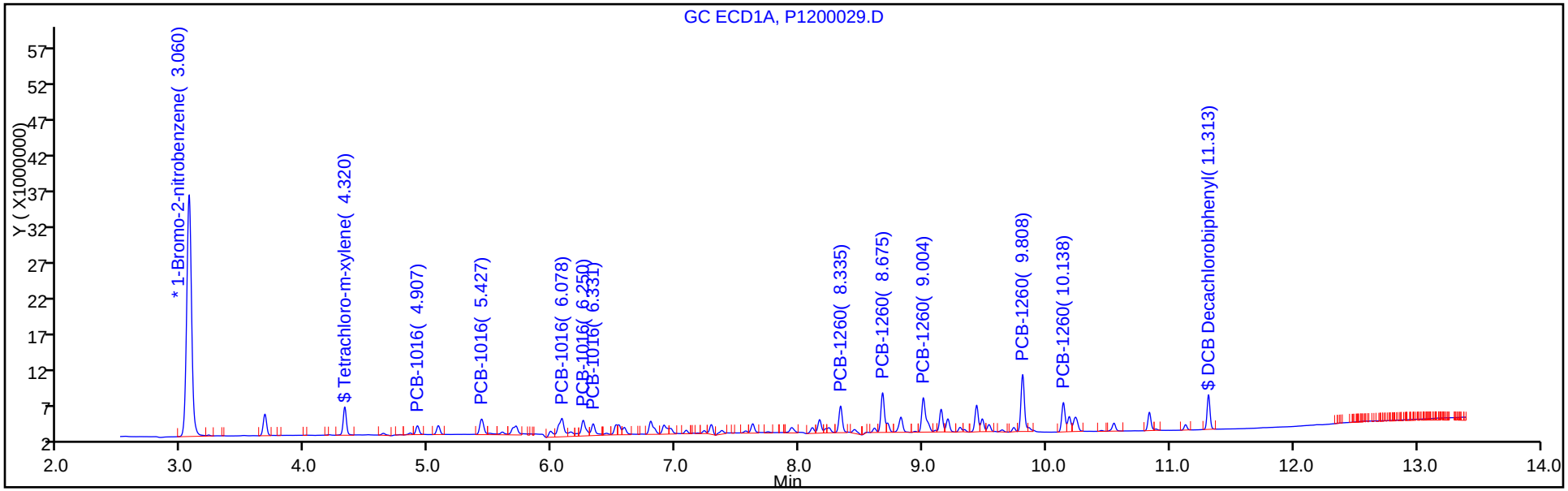
Report Date: 23-Apr-2015 06:29:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

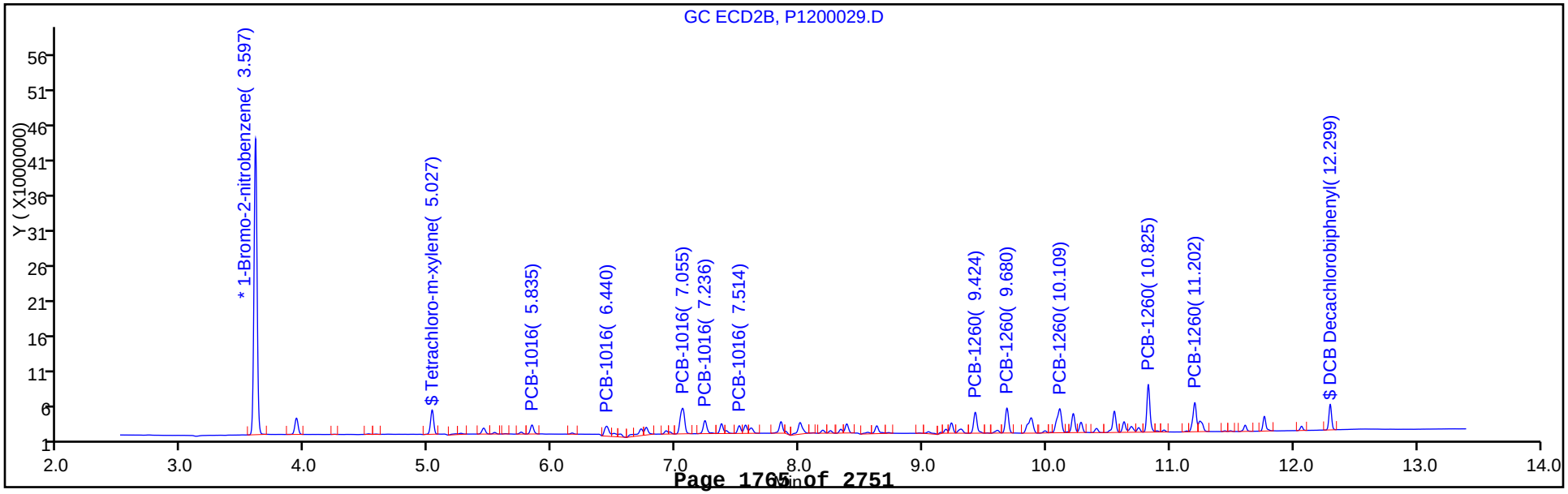
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200029.D

Injection Date:	23-Apr-2015 01:22:03	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD01 1660			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200030.D
Lims ID: STD02 1660
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Apr-2015 01:40:05 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-030
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:05 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.059	0.000	87173649	0.0500	0.0500	
2	3.597	3.597	0.000	70798176	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.318	0.002	15320590	0.0100	0.0104	
2	5.028	5.026	0.002	12668191	0.0100	0.0101	
						RPD = 2.82	
6 PCB-1016							
1	4.908	4.906	0.002	4972596	0.2000	0.2135	
1	5.427	5.426	0.001	9759260	0.2000	0.2098	
1	6.077	6.076	0.001	16255810	0.2000	0.2071	
1	6.249	6.249	0.000	10103965	0.2000	0.2134	
1	6.331	6.331	0.000	6918299	0.2000	0.2066	
		Average of Peak Amounts =				0.2101	
2	5.837	5.835	0.002	4556179	0.2000	0.2078	
2	6.438	6.436	0.002	6469910	0.2000	0.1952	
2	7.056	7.056	0.000	18778514	0.2000	0.2056	
2	7.237	7.236	0.001	7977912	0.2000	0.2181	
2	7.514	7.513	0.001	3872475	0.2000	0.2050	
		Average of Peak Amounts =				0.2063	
						RPD = 1.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	15103880	0.2000	0.2160	
1	8.674	8.674	0.000	22773292	0.2000	0.2087	
1	9.004	9.004	0.000	25214811	0.2000	0.2058	
1	9.807	9.807	0.000	33298925	0.2000	0.2090	
1	10.137	10.137	0.000	16194594	0.2000	0.2049	
		Average of Peak Amounts =				0.2089	
2	9.425	9.425	0.000	11807273	0.2000	0.2047	
2	9.682	9.681	0.001	13152878	0.2000	0.2032	
2	10.109	10.109	0.000	18263221	0.2000	0.1984	
2	10.826	10.826	0.000	24166874	0.2000	0.2030	
2	11.202	11.202	0.000	16906747	0.2000	0.2028	
		Average of Peak Amounts =				0.2024	
						RPD = 3.15	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.312	0.001	16270049	0.0100	0.0104	
2	12.298	12.298	0.000	10980632	0.0100	0.0103	
						RPD = 1.30	

Reagents:

SG1660@0.2ppm_00011	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

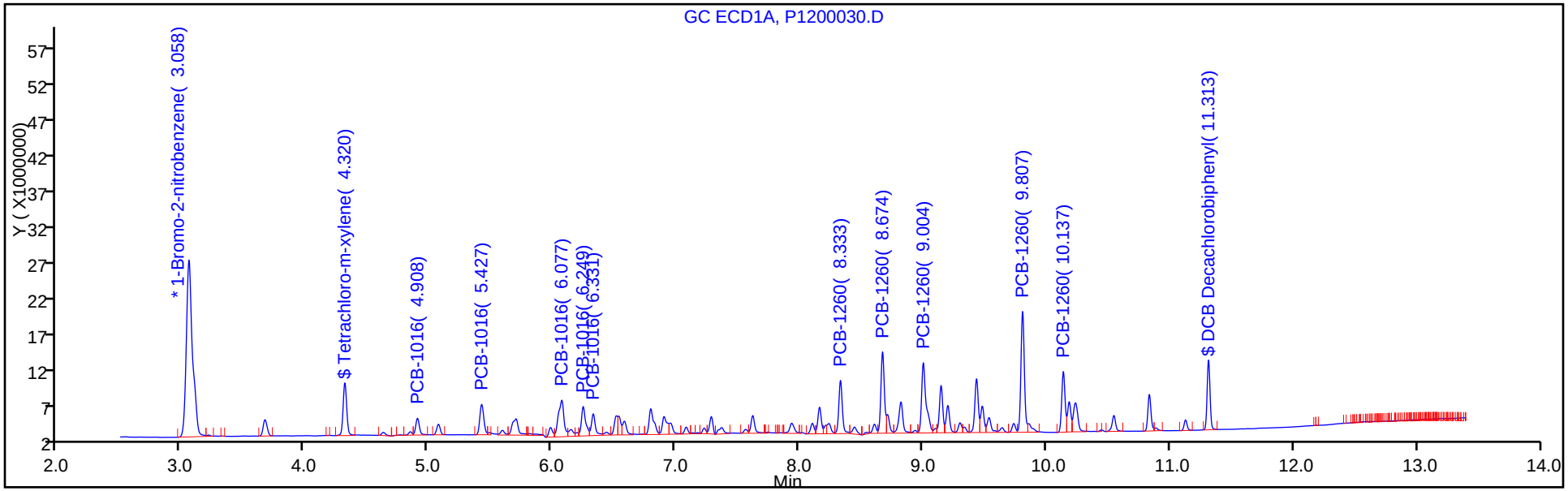
Report Date: 23-Apr-2015 06:29:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

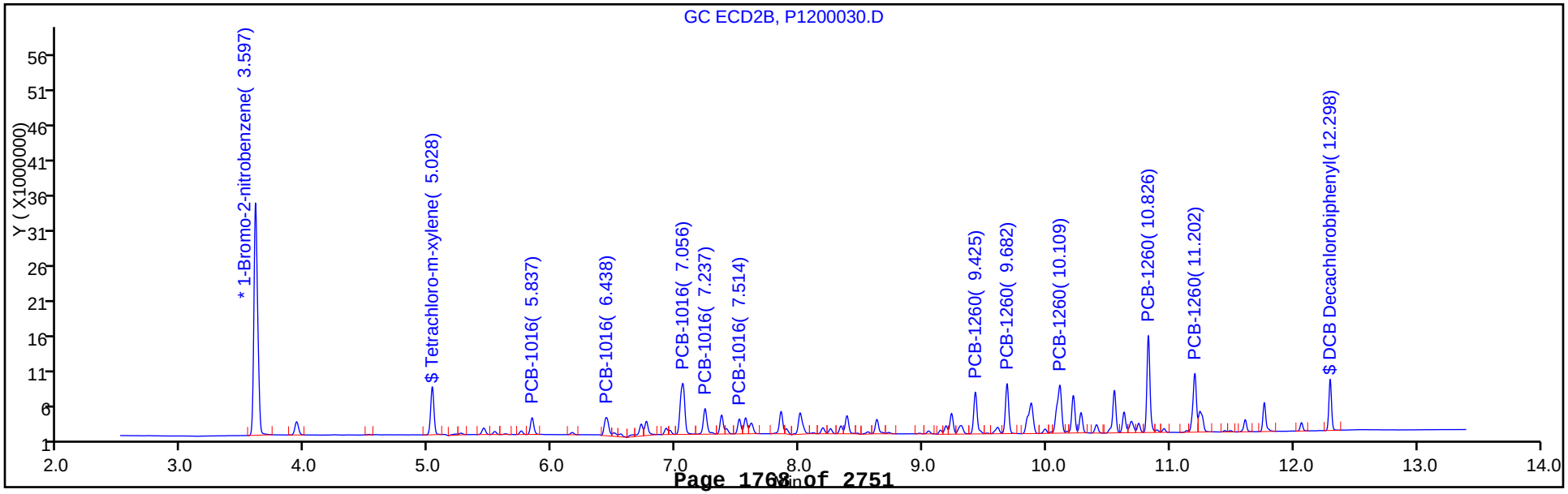
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200030.D

Injection Date:	23-Apr-2015 01:40:05	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD02 1660			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200031.D
Lims ID: STD05 1660
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 23-Apr-2015 01:58:08 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-031
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:07 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.059	-0.002	112838549	0.0500	0.0500	
2	3.596	3.597	0.000	87214525	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	44526106	0.0250	0.0233	
2	5.026	5.026	0.000	36079658	0.0250	0.0233	
						RPD = 0.11	
6 PCB-1016							
1	4.906	4.906	0.000	13299700	0.5000	0.4411	
1	5.426	5.426	0.000	26141122	0.5000	0.4342	
1	6.076	6.076	0.000	45065105	0.5000	0.4435	
1	6.249	6.249	0.000	26449309	0.5000	0.4316	
1	6.331	6.331	0.000	18247291	0.5000	0.4210	
		Average of Peak Amounts =				0.4343	
2	5.835	5.835	0.000	11580772	0.5000	0.4288	
2	6.436	6.436	0.000	16482600	0.5000	0.4036	
2	7.056	7.056	0.000	52548785	0.5000	0.4671	
2	7.236	7.236	0.000	20736066	0.5000	0.4602	
2	7.513	7.513	0.000	10026631	0.5000	0.4309	
		Average of Peak Amounts =				0.4381	
						RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	39171385	0.5000	0.4328	
1	8.674	8.674	0.000	62575149	0.5000	0.4430	
1	9.004	9.004	0.000	70117684	0.5000	0.4422	
1	9.807	9.807	0.000	96266804	0.5000	0.4667	
1	10.137	10.137	0.000	46494879	0.5000	0.4545	
		Average of Peak Amounts =				0.4478	
2	9.425	9.425	0.000	30807807	0.5000	0.4336	
2	9.681	9.681	0.000	35495115	0.5000	0.4451	
2	10.109	10.109	0.000	50488455	0.5000	0.4452	
2	10.826	10.826	0.000	67913651	0.5000	0.4630	
2	11.202	11.202	0.000	46843486	0.5000	0.4562	
		Average of Peak Amounts =				0.4486	
						RPD = 0.17	
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.312	0.000	45911067	0.0250	0.0227	
2	12.298	12.298	0.000	29471321	0.0250	0.0224	
						RPD = 1.36	

Reagents:

SG1660@0.5PPM_00046	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

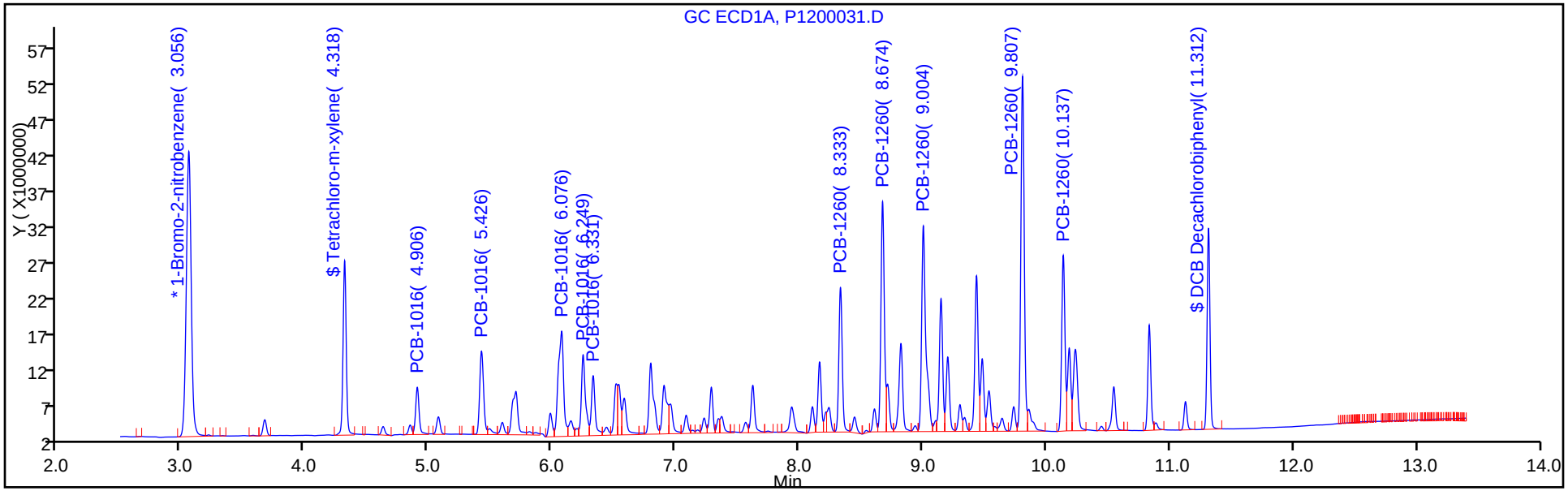
Report Date: 23-Apr-2015 06:29:09 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

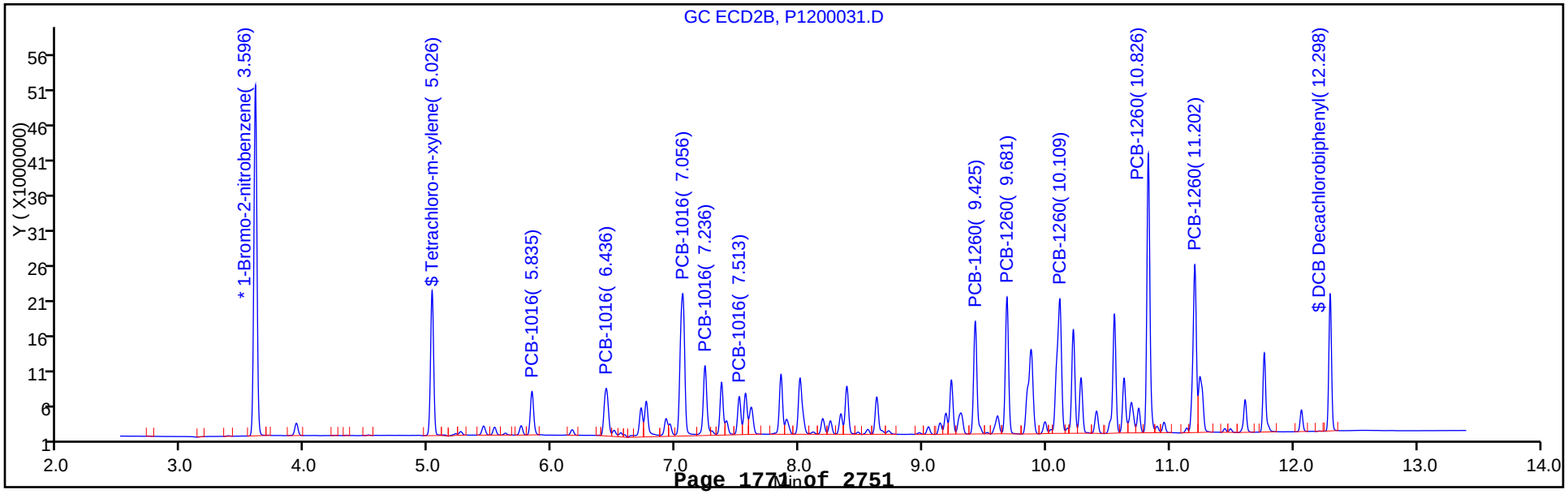
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200031.D

Injection Date:	23-Apr-2015 01:58:08	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD05 1660			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200032.D
Lims ID: STD1 1660
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Apr-2015 02:16:13 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-032
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:10 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.056	0.002	95696587	0.0500	0.0500	
2	3.597	3.596	0.001	74599443	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	85574468	0.0500	0.0528	
2	5.026	5.026	0.000	67569228	0.0500	0.0511	
						RPD = 3.34	
6 PCB-1016							
1	4.907	4.906	0.001	26187183	1.00	1.02	
1	5.427	5.426	0.001	49517442	1.00	0.9697	
1	6.074	6.076	-0.002	87142254	1.00	1.01	
1	6.249	6.249	0.000	48119240	1.00	0.9258	
1	6.330	6.331	-0.001	31916198	1.00	0.8682	
		Average of Peak Amounts =				0.9598	
2	5.835	5.835	0.000	21687879	1.00	0.9388	
2	6.434	6.436	-0.002	31943812	1.00	0.9146	
2	7.055	7.056	-0.001	101364939	1.00	1.05	
2	7.235	7.236	-0.001	39092849	1.00	1.01	
2	7.513	7.513	0.000	18877654	1.00	0.9486	
		Average of Peak Amounts =				0.9739	
						RPD = 1.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.332	8.333	-0.001	77186698	1.00	1.01	
1	8.673	8.674	-0.001	123485794	1.00	1.03	
1	9.003	9.004	-0.001	138711515	1.00	1.03	
1	9.806	9.807	-0.001	190894572	1.00	1.09	
1	10.135	10.137	-0.002	93100088	1.00	1.07	
		Average of Peak Amounts =				1.05	
2	9.424	9.425	-0.001	59775147	1.00	0.9836	
2	9.680	9.681	-0.001	68935063	1.00	1.01	
2	10.109	10.109	0.000	98891846	1.00	1.02	
2	10.825	10.826	-0.001	133027660	1.00	1.06	
2	11.201	11.202	-0.001	91737122	1.00	1.04	
		Average of Peak Amounts =				1.02	
						RPD = 2.20	
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.312	0.000	86147913	0.0500	0.0502	
2	12.298	12.298	0.000	54756313	0.0500	0.0487	
						RPD = 3.20	

Reagents:

SG1660@1.0PPM_00011	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

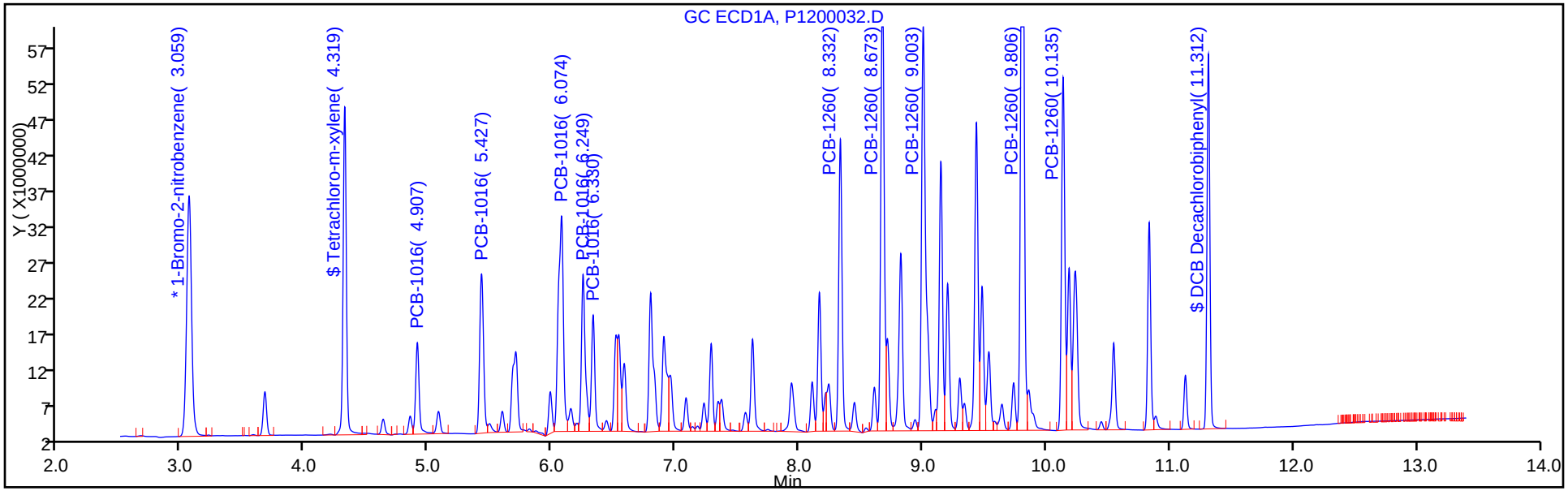
Report Date: 23-Apr-2015 06:29:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

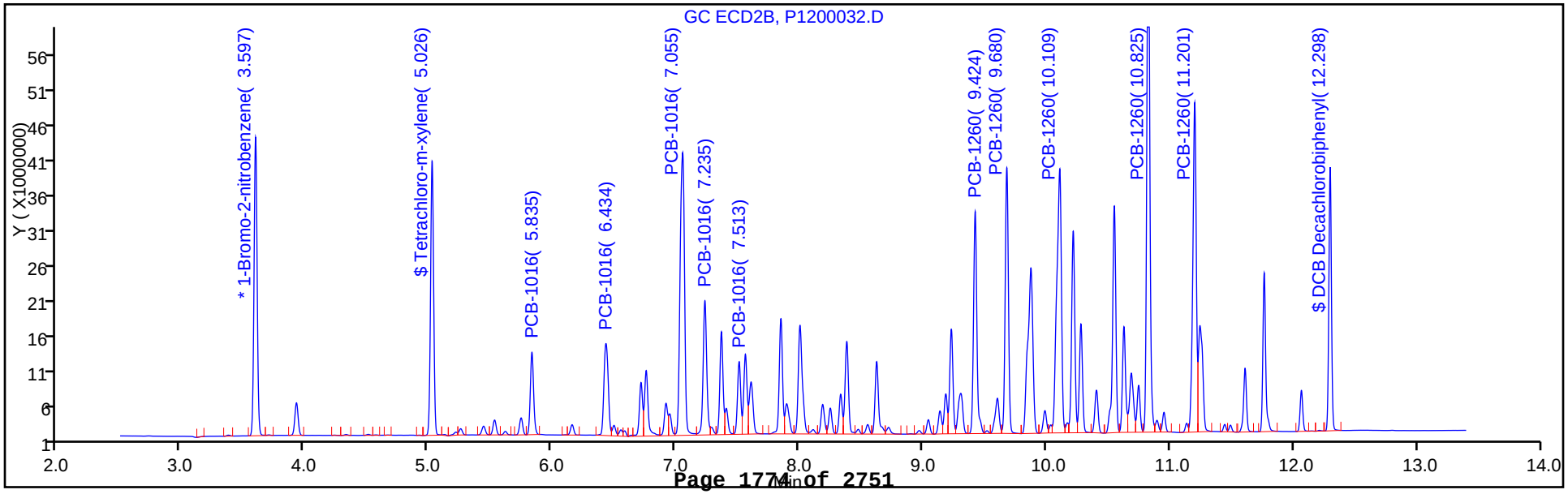
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200032.D

Injection Date:	23-Apr-2015 02:16:13	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD1 1660			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D
Lims ID: STD2 1660
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Apr-2015 02:34:22 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-033
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub6

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.056	0.003	99731324	0.0500	0.0500	
2	3.597	3.596	0.001	78321003	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.318	0.002	168249257	0.1000	0.0996	
2	5.027	5.026	0.001	135175925	0.1000	0.0973	
						RPD = 2.34	
6 PCB-1016							
1	4.907	4.906	0.001	50946520	2.00	1.91	
1	5.427	5.426	0.001	96713855	2.00	1.82	
1	6.075	6.076	-0.001	187177375	2.00	2.08	
1	6.250	6.249	0.001	98170219	2.00	1.81	
1	6.331	6.331	0.000	67292142	2.00	1.76	
		Average of Peak Amounts =				1.88	
2	5.835	5.835	0.000	41228518	2.00	1.70	
2	6.434	6.436	-0.002	64400237	2.00	1.76	
2	7.056	7.056	0.000	193724266	2.00	1.92	
2	7.236	7.236	0.000	73652740	2.00	1.82	
2	7.514	7.513	0.001	35374114	2.00	1.69	
		Average of Peak Amounts =				1.78	
						RPD = 5.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	152483651	2.00	1.91	
1	8.674	8.674	0.000	245233317	2.00	1.96	
1	9.004	9.004	0.000	278160854	2.00	1.98	
1	9.807	9.807	0.000	386069837	2.00	2.12	
1	10.137	10.137	0.000	188911307	2.00	2.09	
		Average of Peak Amounts =				2.01	
2	9.426	9.425	0.001	116185929	2.00	1.82	
2	9.681	9.681	0.000	134699280	2.00	1.88	
2	10.110	10.109	0.001	195891028	2.00	1.92	
2	10.826	10.826	0.000	265578693	2.00	2.02	
2	11.201	11.202	-0.001	184123727	2.00	2.00	
		Average of Peak Amounts =				1.93	
						RPD = 4.30	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.312	0.001	170819905	0.1000	0.0956	
2	12.298	12.298	0.000	107929269	0.1000	0.0914	
						RPD = 4.54	

Reagents:

SG1660@2.0PPM_00012	Amount Added: 1.00	Units: mL	
Pest ISTD_00002	Amount Added: 5.00	Units: uL	Run Reagent

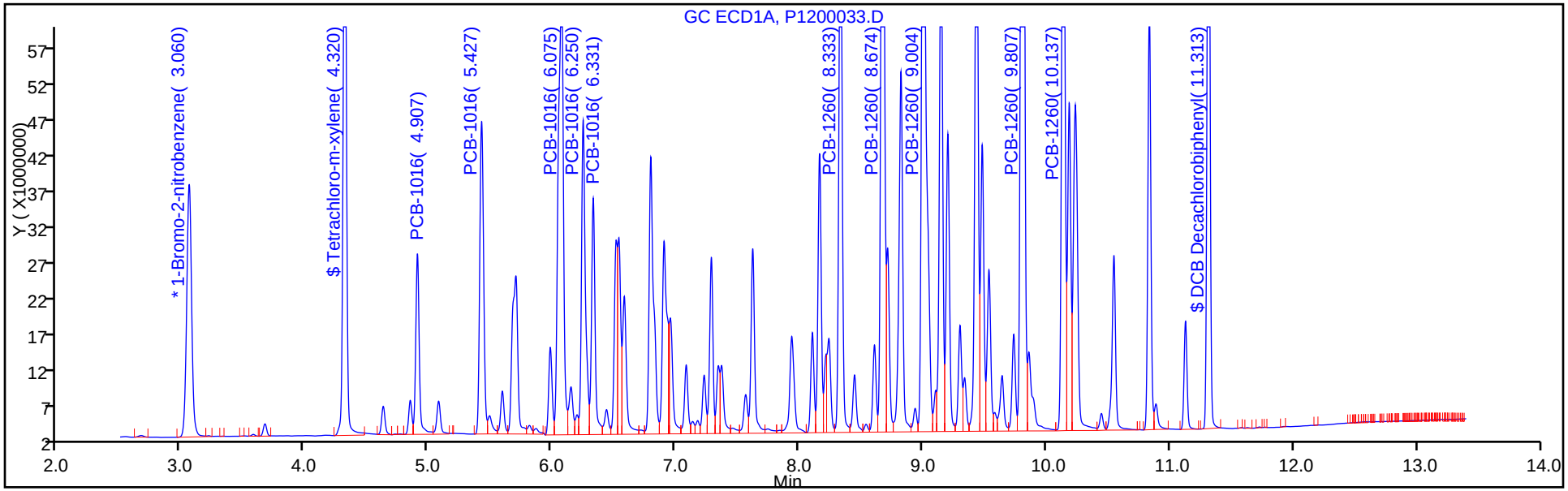
Report Date: 23-Apr-2015 06:29:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

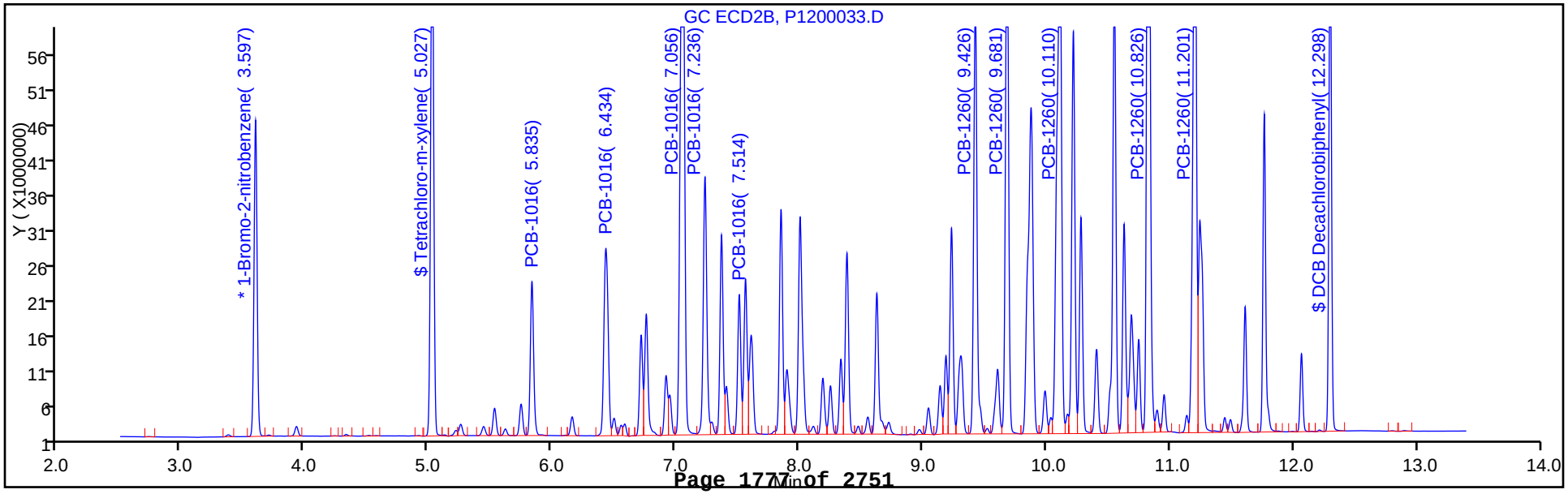
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Injection Date:	23-Apr-2015 02:34:22	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	STD2 1660			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (2): CCV 240-177609/3 CCVIS Instrument ID (2): A2HP12

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/23/2015 17:19

ANALYTE	RT	RESOLUTION (%)
Aroclor-1016		100.0
Aroclor-1260		100.0
Tetrachloro-m-xylene	4.32	100.0
PCB-1016 Peak 1	4.91	100.0
PCB-1016 Peak 2	5.43	100.0
PCB-1016 Peak 3	6.07	100.0
PCB-1016 Peak 4	6.25	100.0
PCB-1016 Peak 5	6.33	100.0
PCB-1260 Peak 1	8.33	100.0
PCB-1260 Peak 2	8.68	100.0
PCB-1260 Peak 3	9.00	100.0
PCB-1260 Peak 4	9.81	100.0
PCB-1260 Peak 5	10.14	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): CCV 240-177609/3 CCVIS Instrument ID (1): A2HP12

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/23/2015 17:19

ANALYTE	RT	RESOLUTION (%)
Aroclor-1016		100.0
Aroclor-1260		100.0
Tetrachloro-m-xylene	5.03	100.0
PCB-1016 Peak 1	5.83	100.0
PCB-1016 Peak 2	6.43	100.0
PCB-1016 Peak 3	7.06	100.0
PCB-1016 Peak 4	7.24	100.0
PCB-1016 Peak 5	7.51	100.0
PCB-1260 Peak 1	9.43	100.0
PCB-1260 Peak 2	9.68	100.0
PCB-1260 Peak 3	10.11	100.0
PCB-1260 Peak 4	10.83	100.0
PCB-1260 Peak 5	11.20	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (2): CCV 240-177830/3 CCVIS Instrument ID (2): A2HP12

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 04/24/2015 17:01

ANALYTE	RT	RESOLUTION (%)
Aroclor-1016		100.0
Aroclor-1260		100.0
Tetrachloro-m-xylene	4.32	100.0
PCB-1016 Peak 1	4.91	100.0
PCB-1016 Peak 2	5.43	100.0
PCB-1016 Peak 3	6.07	100.0
PCB-1016 Peak 4	6.25	100.0
PCB-1016 Peak 5	6.33	100.0
PCB-1260 Peak 1	8.33	100.0
PCB-1260 Peak 2	8.67	100.0
PCB-1260 Peak 3	9.00	100.0
PCB-1260 Peak 4	9.81	100.0
PCB-1260 Peak 5	10.14	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID (1): CCV 240-177830/3 CCVIS Instrument ID (1): A2HP12

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 04/24/2015 17:01

ANALYTE	RT	RESOLUTION (%)
Aroclor-1016		100.0
Aroclor-1260		100.0
Tetrachloro-m-xylene	5.03	100.0
PCB-1016 Peak 1	5.83	100.0
PCB-1016 Peak 2	6.43	100.0
PCB-1016 Peak 3	7.05	100.0
PCB-1016 Peak 4	7.23	100.0
PCB-1016 Peak 5	7.51	100.0
PCB-1260 Peak 1	9.42	100.0
PCB-1260 Peak 2	9.68	100.0
PCB-1260 Peak 3	10.11	100.0
PCB-1260 Peak 4	10.82	100.0
PCB-1260 Peak 5	11.20	100.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/34 Calibration Date: 04/23/2015 02:52

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200034.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0087	0.0082		0.944	1.00	-5.6	20.0
PCB-1221 Peak 2	Ave	0.0053	0.0050		0.929	1.00	-7.1	20.0
PCB-1221 Peak 3	Ave	0.0203	0.0211		1.04	1.00	4.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/34 Calibration Date: 04/23/2015 02:52

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200034.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	4.63	4.60	4.66
PCB-1221 Peak 2	4.85	4.82	4.88
PCB-1221 Peak 3	4.91	4.88	4.94

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200034.D
Lims ID: ICV 1221
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 02:52:25 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-034
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.056	0.002	101265924	0.0500	0.0500	
2	3.597	3.596	0.001	78438556	0.0500	0.0500	
3 PCB-1221							
1	4.629	4.630	-0.001	16604526	1.00	0.9442	
1	4.849	4.848	0.001	10044127	1.00	0.9286	
1	4.906	4.907	-0.001	42719667	1.00	1.04	
		Average of Peak Amounts =				0.9708	
2	5.533	5.533	0.000	13284606	1.00	0.9052	
2	5.746	5.748	-0.002	9610548	1.00	0.9560	
2	5.836	5.835	0.001	36871404	1.00	0.9867	
		Average of Peak Amounts =				0.9493	
						RPD = 2.24	

Reagents:

SG1221ICV@1.0_00004 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

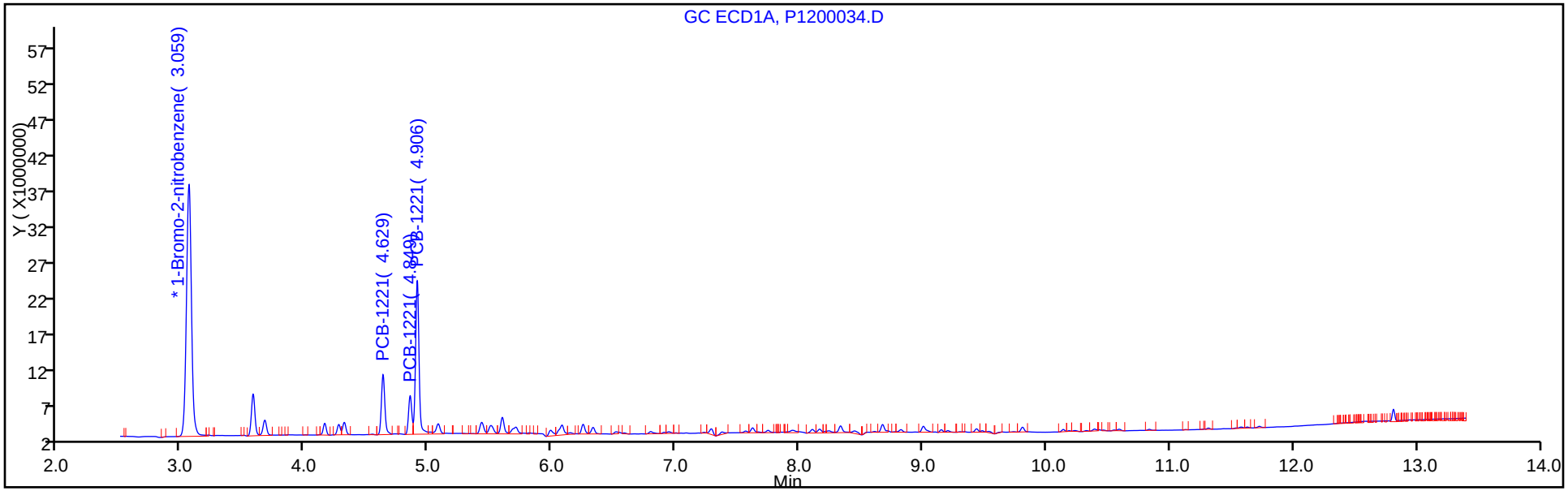
Report Date: 23-Apr-2015 06:29:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

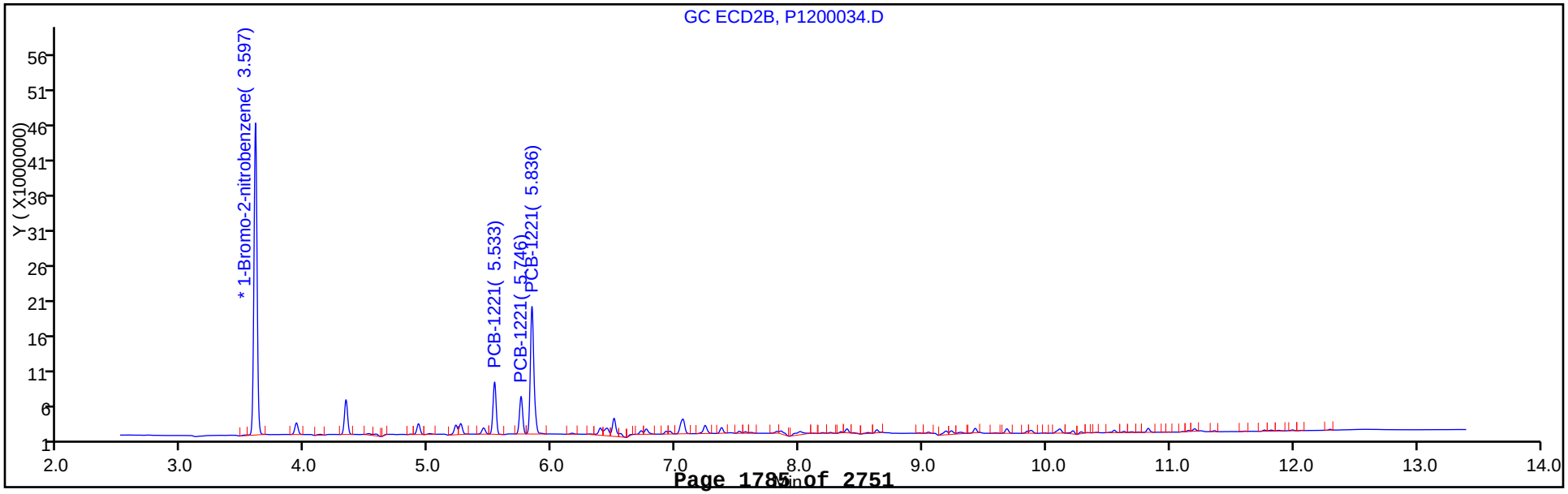
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200034.D

Injection Date:	23-Apr-2015 02:52:25	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1221			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/34 Calibration Date: 04/23/2015 02:52

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200034.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0094	0.0085		0.905	1.00	-9.5	20.0
PCB-1221 Peak 2	Ave	0.0064	0.0061		0.956	1.00	-4.4	20.0
PCB-1221 Peak 3	Ave	0.0238	0.0235		0.987	1.00	-1.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/34 Calibration Date: 04/23/2015 02:52

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200034.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	5.53	5.50	5.56
PCB-1221 Peak 2	5.75	5.72	5.78
PCB-1221 Peak 3	5.84	5.81	5.87

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200034.D
Lims ID: ICV 1221
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 02:52:25 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-034
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.056	0.002	101265924	0.0500	0.0500	
2	3.597	3.596	0.001	78438556	0.0500	0.0500	
3 PCB-1221							
1	4.629	4.630	-0.001	16604526	1.00	0.9442	
1	4.849	4.848	0.001	10044127	1.00	0.9286	
1	4.906	4.907	-0.001	42719667	1.00	1.04	
		Average of Peak Amounts =				0.9708	
2	5.533	5.533	0.000	13284606	1.00	0.9052	
2	5.746	5.748	-0.002	9610548	1.00	0.9560	
2	5.836	5.835	0.001	36871404	1.00	0.9867	
		Average of Peak Amounts =				0.9493	
						RPD = 2.24	

Reagents:

SG1221ICV@1.0_00004 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

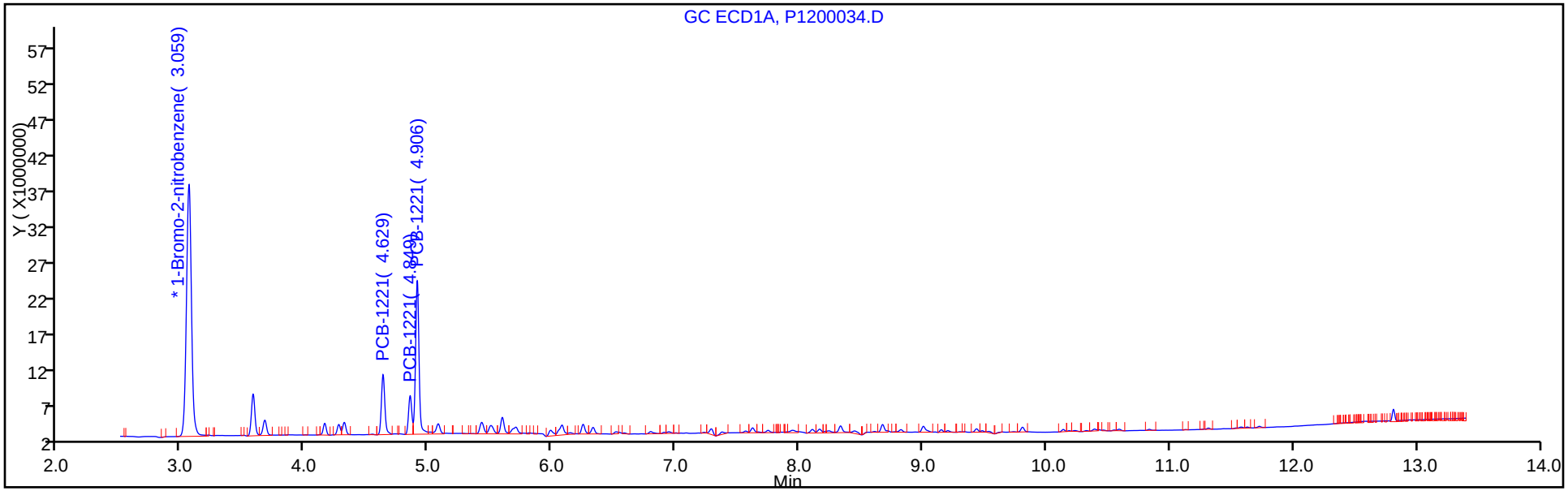
Report Date: 23-Apr-2015 06:29:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

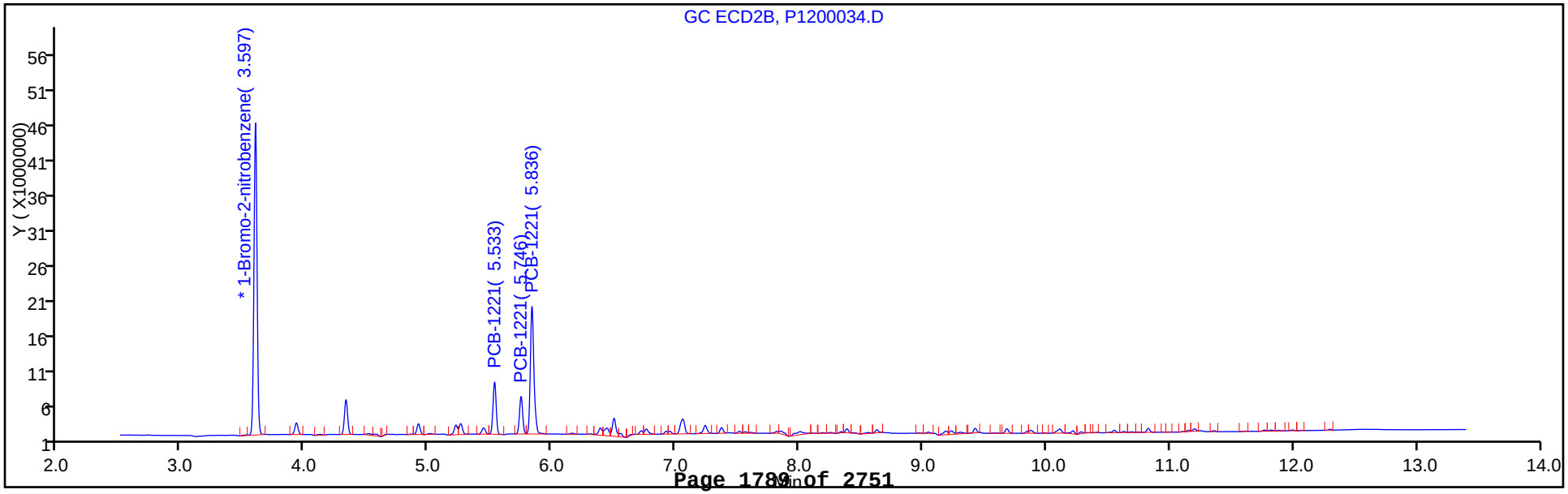
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200034.D

Injection Date:	23-Apr-2015 02:52:25	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1221			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/35 Calibration Date: 04/23/2015 03:10

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200035.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0183	0.0195		1.06	1.00	6.4	20.0
PCB-1232 Peak 2	Ave	0.0139	0.0151		1.09	1.00	9.0	20.0
PCB-1232 Peak 3	Ave	0.0201	0.0255		1.27	1.00	26.5*	20.0
PCB-1232 Peak 4	Ave	0.0125	0.0148		1.18	1.00	18.1	20.0
PCB-1232 Peak 5	Ave	0.0117	0.0141		1.20	1.00	20.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/35 Calibration Date: 04/23/2015 03:10

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	4.91	4.89	4.95
PCB-1232 Peak 2	5.43	5.41	5.47
PCB-1232 Peak 3	6.08	6.07	6.13
PCB-1232 Peak 4	6.25	6.23	6.29
PCB-1232 Peak 5	6.80	6.78	6.84

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200035.D
Lims ID: ICV 1232
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 03:10:28 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-035
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.056	0.003	94448576	0.0500	0.0500	
2	3.597	3.596	0.001	74457143	0.0500	0.0500	
4 PCB-1232							
1	4.906	4.922	-0.016	36750330	1.00	1.06	
1	5.427	5.443	-0.016	28551451	1.00	1.09	
1	6.075	6.095	-0.020	48105370	1.00	1.27	
1	6.250	6.264	-0.014	27932544	1.00	1.18	
1	6.797	6.813	-0.016	26572654	1.00	1.20	
		Average of Peak Amounts =				1.16	
2	5.835	5.833	0.002	31084072	1.00	1.13	
2	6.434	6.434	0.000	21188401	1.00	1.29	
2	7.054	7.053	0.001	55181142	1.00	1.27	
2	7.235	7.234	0.001	21775370	1.00	1.20	
2	7.513	7.511	0.002	10128834	1.00	1.38	
		Average of Peak Amounts =				1.25	
						RPD = 7.62	

Reagents:

SG1232ICV@1.0_00005 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

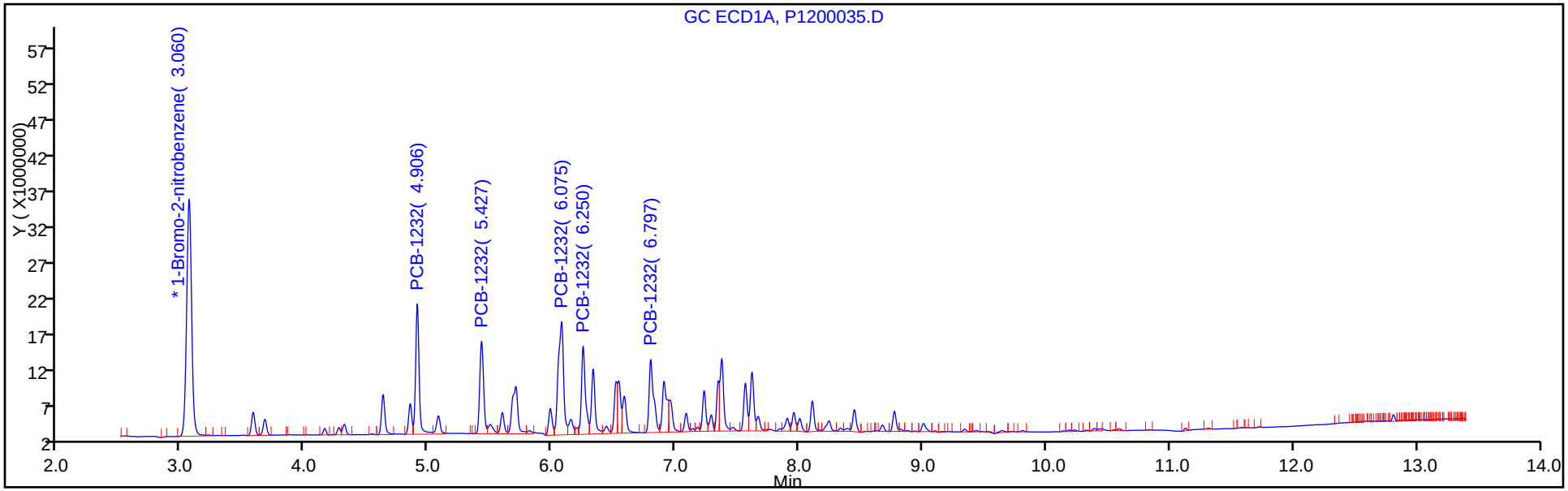
Report Date: 23-Apr-2015 06:29:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

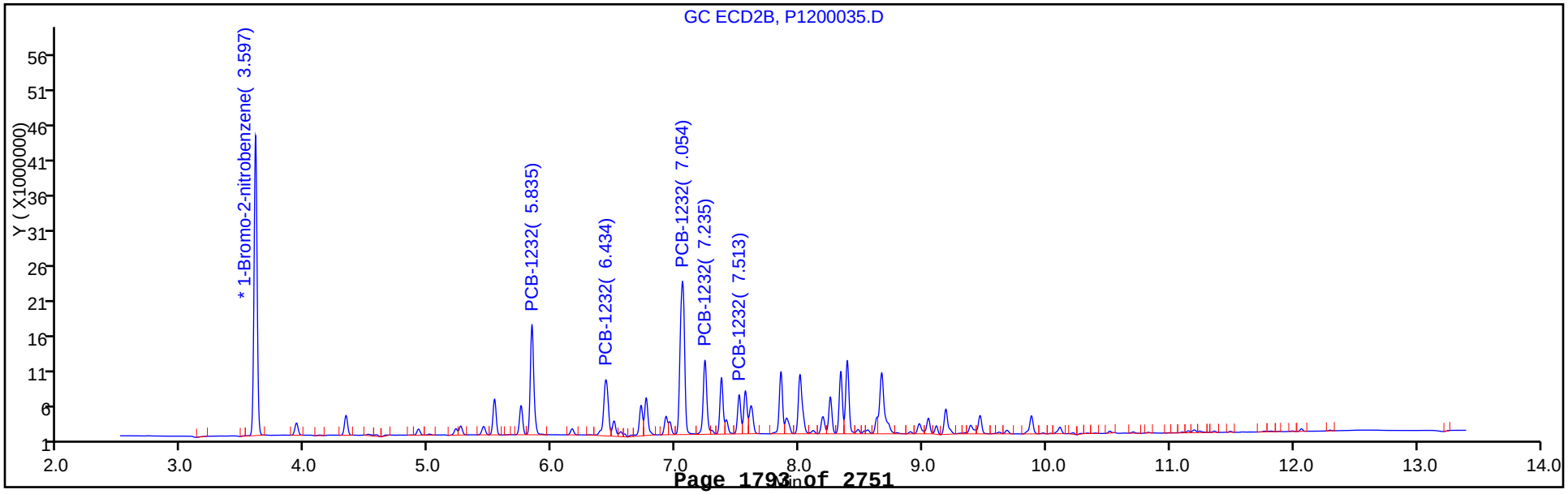
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200035.D

Injection Date:	23-Apr-2015 03:10:28	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1232			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/35 Calibration Date: 04/23/2015 03:10

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200035.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0184	0.0209		1.13	1.00	13.4	20.0
PCB-1232 Peak 2	Ave	0.0110	0.0142		1.29	1.00	28.8*	20.0
PCB-1232 Peak 3	Ave	0.0292	0.0371		1.27	1.00	26.9*	20.0
PCB-1232 Peak 4	Ave	0.0122	0.0146		1.20	1.00	19.7	20.0
PCB-1232 Peak 5	Lin1		0.0068		1.38	1.00	37.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/35 Calibration Date: 04/23/2015 03:10

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	5.84	5.80	5.86
PCB-1232 Peak 2	6.43	6.40	6.46
PCB-1232 Peak 3	7.05	7.02	7.08
PCB-1232 Peak 4	7.24	7.20	7.26
PCB-1232 Peak 5	7.51	7.48	7.54

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200035.D
Lims ID: ICV 1232
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 03:10:28 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-035
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.056	0.003	94448576	0.0500	0.0500	
2	3.597	3.596	0.001	74457143	0.0500	0.0500	
4 PCB-1232							
1	4.906	4.922	-0.016	36750330	1.00	1.06	
1	5.427	5.443	-0.016	28551451	1.00	1.09	
1	6.075	6.095	-0.020	48105370	1.00	1.27	
1	6.250	6.264	-0.014	27932544	1.00	1.18	
1	6.797	6.813	-0.016	26572654	1.00	1.20	
		Average of Peak Amounts =				1.16	
2	5.835	5.833	0.002	31084072	1.00	1.13	
2	6.434	6.434	0.000	21188401	1.00	1.29	
2	7.054	7.053	0.001	55181142	1.00	1.27	
2	7.235	7.234	0.001	21775370	1.00	1.20	
2	7.513	7.511	0.002	10128834	1.00	1.38	
		Average of Peak Amounts =				1.25	
						RPD = 7.62	

Reagents:

SG1232ICV@1.0_00005 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

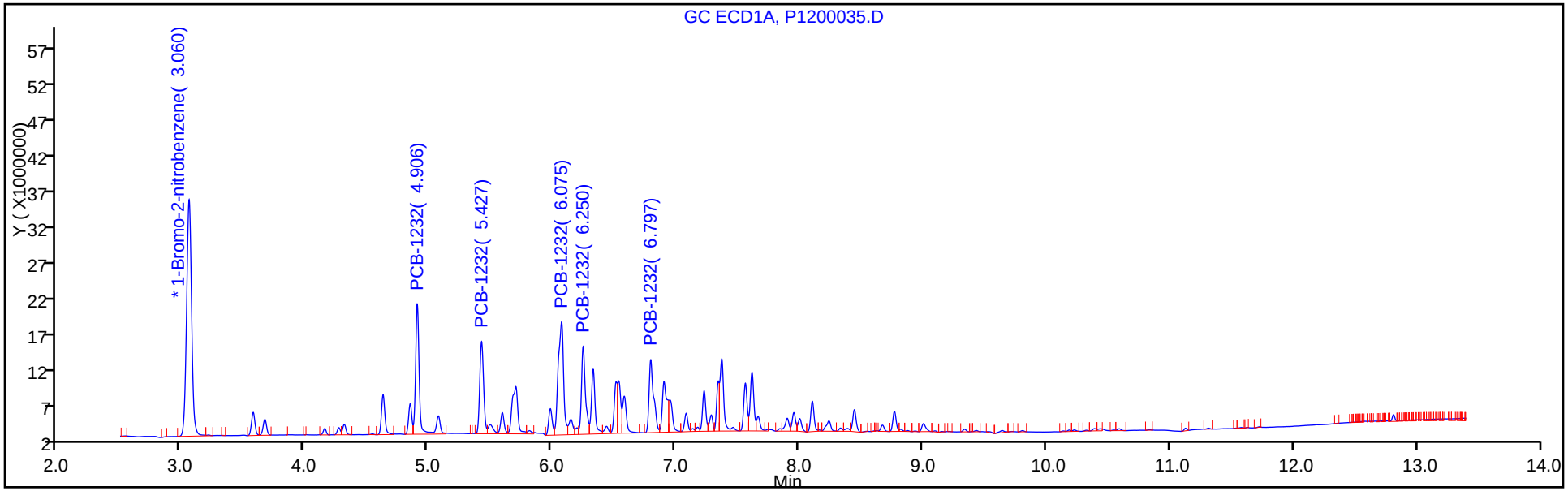
Report Date: 23-Apr-2015 06:29:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

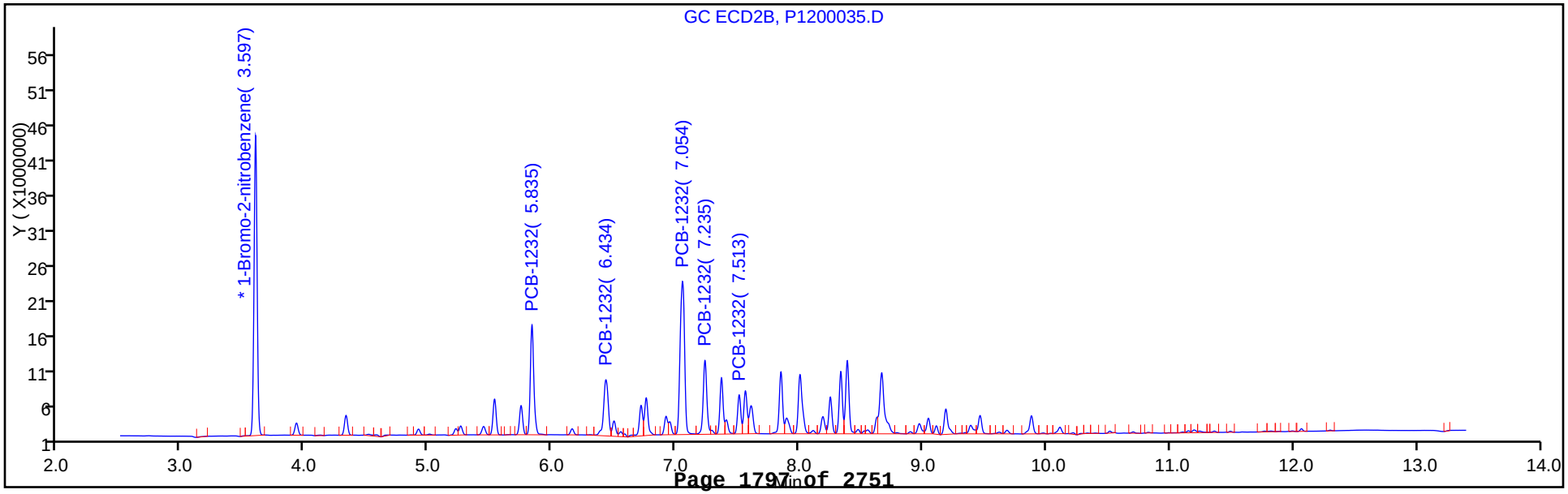
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200035.D

Injection Date:	23-Apr-2015 03:10:28	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1232			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/36 Calibration Date: 04/23/2015 03:28

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0123	0.0106		0.860	1.00	-14.0	20.0
PCB-1242 Peak 2	Ave	0.0232	0.0216		0.932	1.00	-6.8	20.0
PCB-1242 Peak 3	Ave	0.0396	0.0386		0.975	1.00	-2.5	20.0
PCB-1242 Peak 4	Ave	0.0211	0.0212		1.00	1.00	0.4	20.0
PCB-1242 Peak 5	Lin1		0.0142		0.962	1.00	-3.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/36 Calibration Date: 04/23/2015 03:28

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.91	4.90	4.96
PCB-1242 Peak 2	5.43	5.42	5.48
PCB-1242 Peak 3	6.07	6.07	6.13
PCB-1242 Peak 4	6.25	6.24	6.30
PCB-1242 Peak 5	6.33	6.32	6.38

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200036.D
Lims ID: ICV 1242
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 03:28:32 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-036
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.056	0.002	113245885	0.0500	0.0500	
2	3.597	3.596	0.000	87805407	0.0500	0.0500	
5 PCB-1242							
1	4.907	4.926	-0.019	23914358	1.00	0.8602	
1	5.427	5.447	-0.020	48965606	1.00	0.9321	
1	6.073	6.099	-0.026	87362929	1.00	0.9750	
1	6.249	6.270	-0.021	48070903	1.00	1.00	
1	6.330	6.348	-0.018	32171115	1.00	0.9616	
		Average of Peak Amounts =				0.9466	
2	5.834	5.832	0.002	21093904	1.00	0.9736	
2	6.433	6.433	0.000	33749443	1.00	0.9764	
2	7.054	7.053	0.001	96137569	1.00	1.10	
2	7.237	7.234	0.003	36974588	1.00	1.08	
2	7.513	7.511	0.002	18937076	1.00	1.07	
		Average of Peak Amounts =				1.04	
					RPD =	9.55	

Reagents:

SG1242ICV@1.0_00004 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

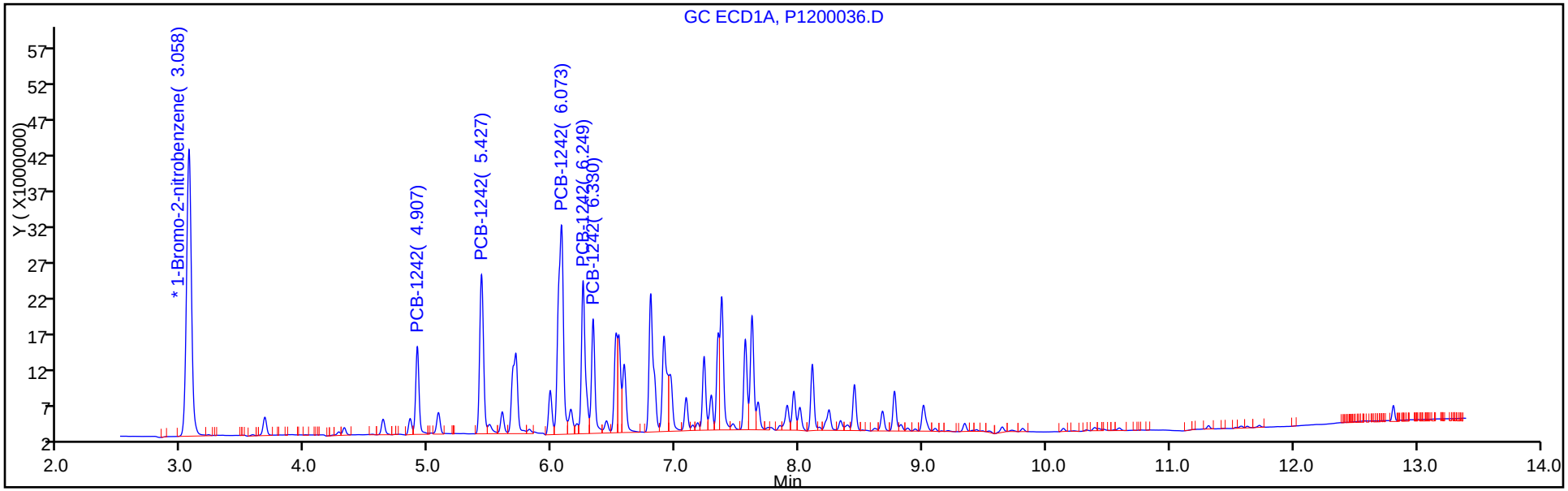
Report Date: 23-Apr-2015 06:29:22 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

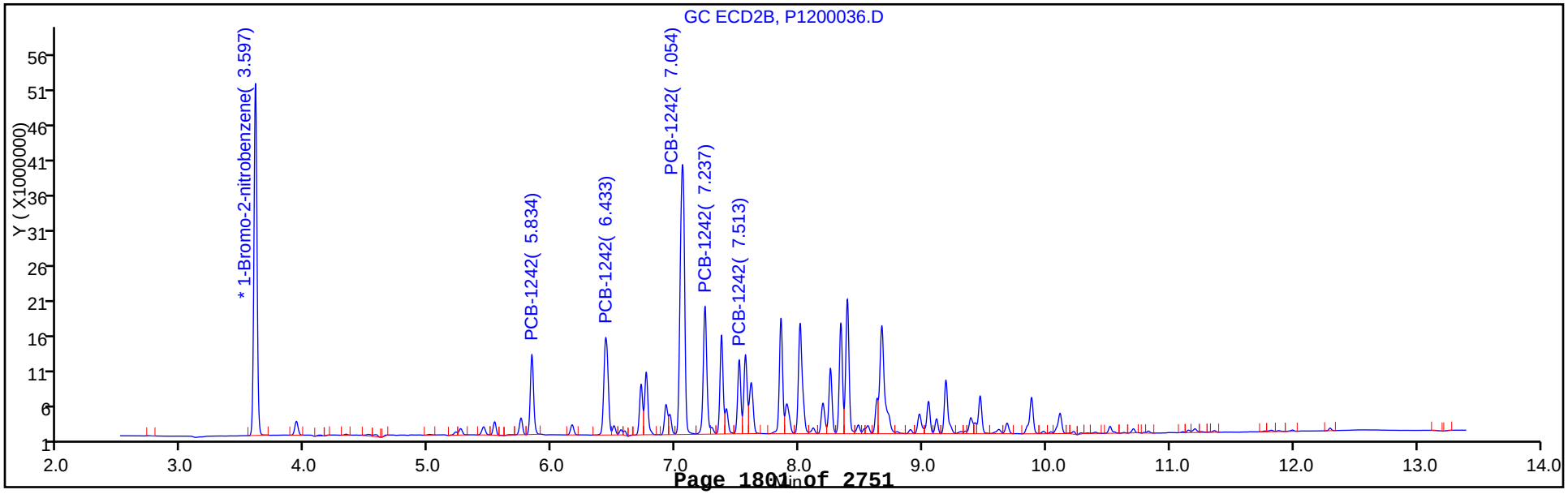
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200036.D

Injection Date:	23-Apr-2015 03:28:32	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1242			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/36 Calibration Date: 04/23/2015 03:28

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0123	0.0120		0.974	1.00	-2.6	20.0
PCB-1242 Peak 2	Ave	0.0197	0.0192		0.976	1.00	-2.4	20.0
PCB-1242 Peak 3	Ave	0.0496	0.0547		1.10	1.00	10.4	20.0
PCB-1242 Peak 4	Ave	0.0195	0.0211		1.08	1.00	8.2	20.0
PCB-1242 Peak 5	Ave	0.0101	0.0108		1.07	1.00	7.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/36 Calibration Date: 04/23/2015 03:28

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	5.83	5.80	5.86
PCB-1242 Peak 2	6.43	6.40	6.46
PCB-1242 Peak 3	7.05	7.02	7.08
PCB-1242 Peak 4	7.24	7.20	7.26
PCB-1242 Peak 5	7.51	7.48	7.54

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200036.D
Lims ID: ICV 1242
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 03:28:32 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-036
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.056	0.002	113245885	0.0500	0.0500	
2	3.597	3.596	0.000	87805407	0.0500	0.0500	
5 PCB-1242							
1	4.907	4.926	-0.019	23914358	1.00	0.8602	
1	5.427	5.447	-0.020	48965606	1.00	0.9321	
1	6.073	6.099	-0.026	87362929	1.00	0.9750	
1	6.249	6.270	-0.021	48070903	1.00	1.00	
1	6.330	6.348	-0.018	32171115	1.00	0.9616	
		Average of Peak Amounts =				0.9466	
2	5.834	5.832	0.002	21093904	1.00	0.9736	
2	6.433	6.433	0.000	33749443	1.00	0.9764	
2	7.054	7.053	0.001	96137569	1.00	1.10	
2	7.237	7.234	0.003	36974588	1.00	1.08	
2	7.513	7.511	0.002	18937076	1.00	1.07	
		Average of Peak Amounts =				1.04	
						RPD = 9.55	

Reagents:

SG1242ICV@1.0_00004 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

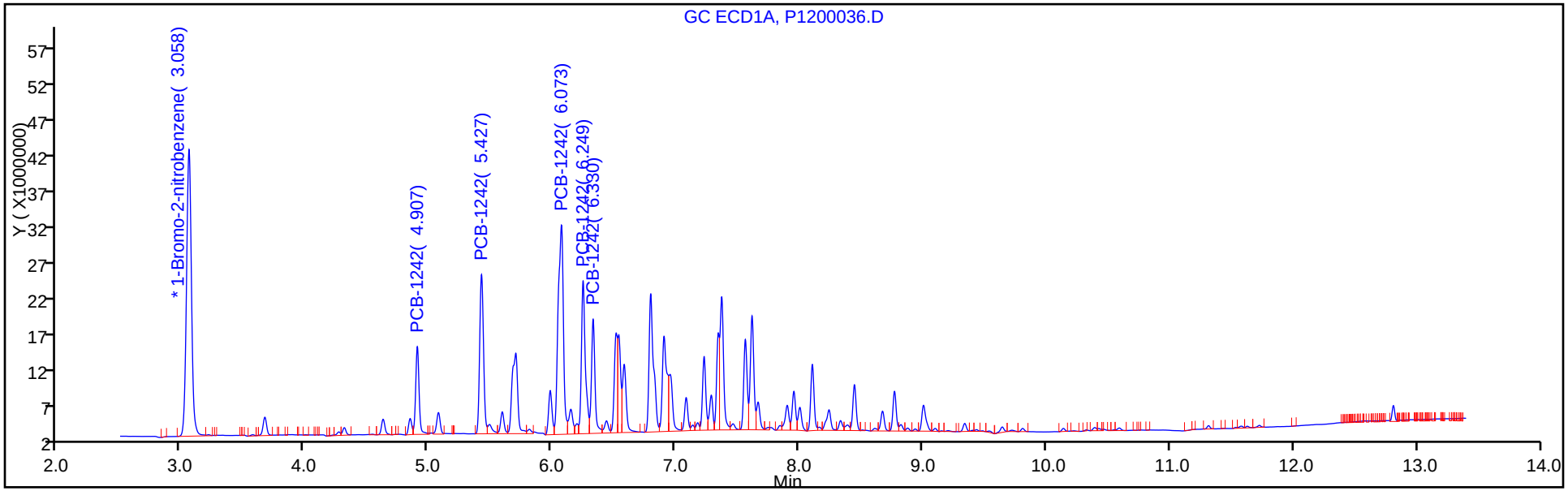
Report Date: 23-Apr-2015 06:29:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

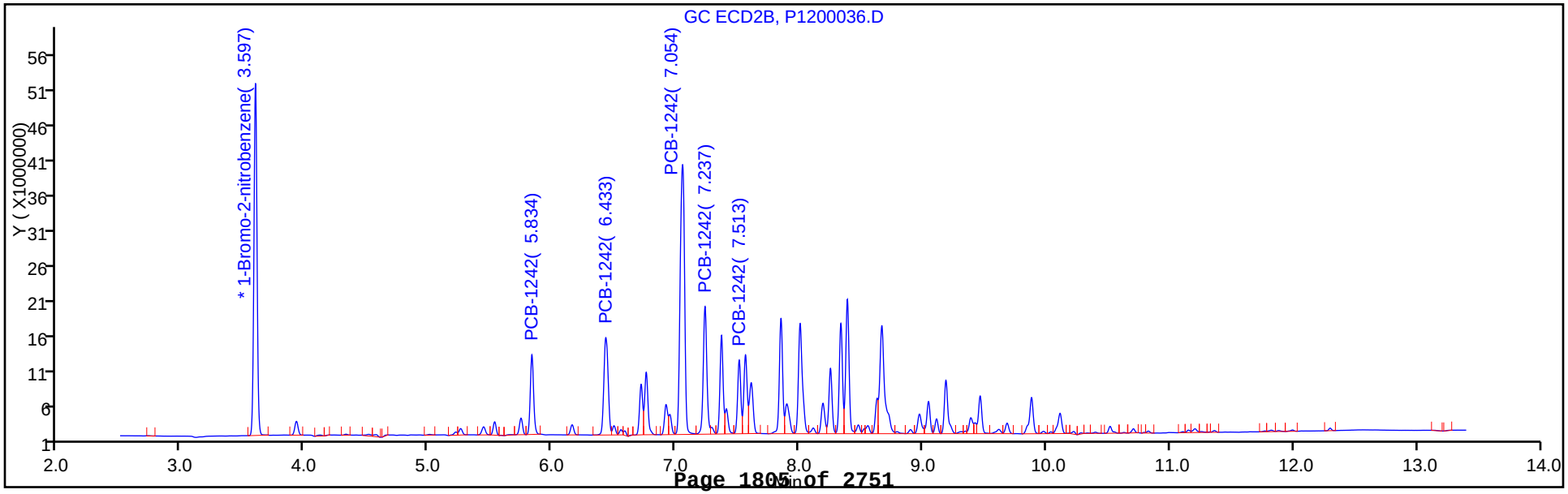
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200036.D

Injection Date:	23-Apr-2015 03:28:32	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1242			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/37 Calibration Date: 04/23/2015 03:46

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200037.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0114	0.0124		1.08	1.00	8.5	20.0
PCB-1248 Peak 2	Ave	0.0359	0.0407		1.13	1.00	13.5	20.0
PCB-1248 Peak 3	Ave	0.0330	0.0364		1.10	1.00	10.2	20.0
PCB-1248 Peak 4	Ave	0.0271	0.0320		1.18	1.00	18.2	20.0
PCB-1248 Peak 5	Ave	0.0186	0.0210		1.13	1.00	12.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/37 Calibration Date: 04/23/2015 03:46

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200037.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	5.43	5.42	5.48
PCB-1248 Peak 2	6.80	6.79	6.85
PCB-1248 Peak 3	7.37	7.37	7.43
PCB-1248 Peak 4	7.62	7.61	7.67
PCB-1248 Peak 5	8.11	8.10	8.16

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200037.D
Lims ID: ICV 1248
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 03:46:43 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-037
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:03:46 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.086	-0.026	100476911	0.0500	0.0500	
2	3.597	3.594	0.003	78412188	0.0500	0.0500	
7 PCB-1248							
1	5.426	5.447	-0.021	24844098	1.00	1.08	
1	6.797	6.818	-0.021	81853985	1.00	1.13	
1	7.371	7.395	-0.024	73143162	1.00	1.10	
1	7.617	7.641	-0.024	64272396	1.00	1.18	
1	8.105	8.130	-0.025	42192459	1.00	1.13	
		Average of Peak Amounts =				1.13	
2	7.052	7.050	0.002	64305991	1.00	1.17	
2	7.513	7.511	0.002	34485095	1.00	1.09	
2	8.006	8.002	0.004	57881239	1.00	1.02	
2	8.388	8.386	0.002	69208776	1.00	1.18	
2	9.187	9.184	0.003	35534186	1.00	1.08	
		Average of Peak Amounts =				1.11	
						RPD = 1.75	

Reagents:

SG1248ICV@1.0_00004 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

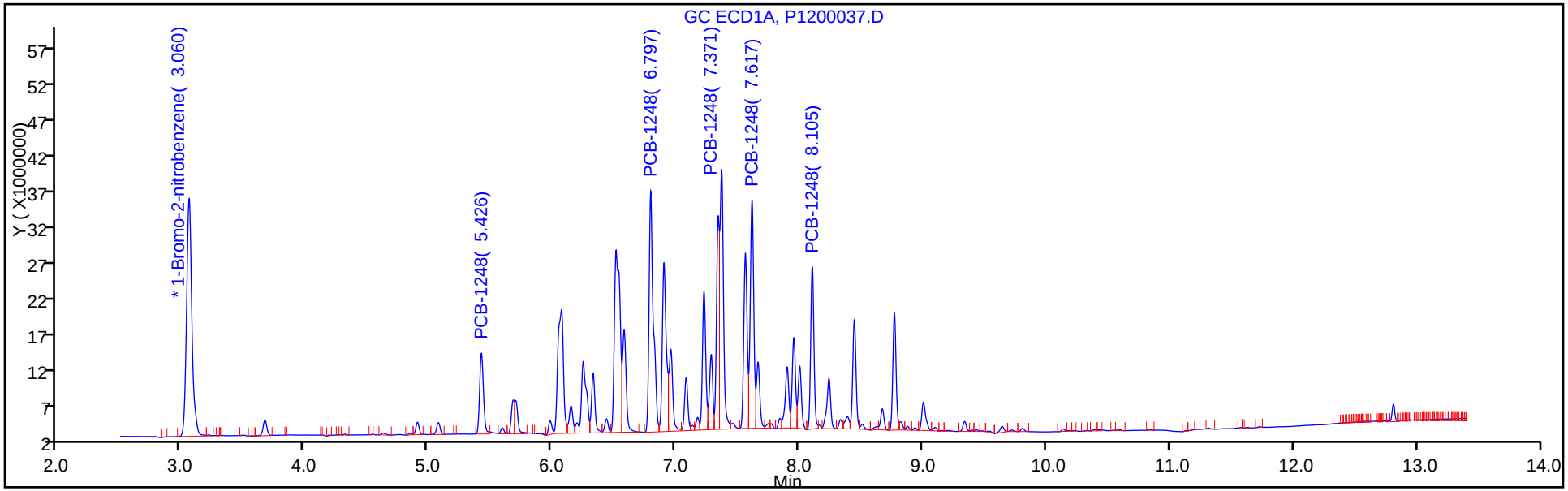
Report Date: 23-Apr-2015 09:04:10 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

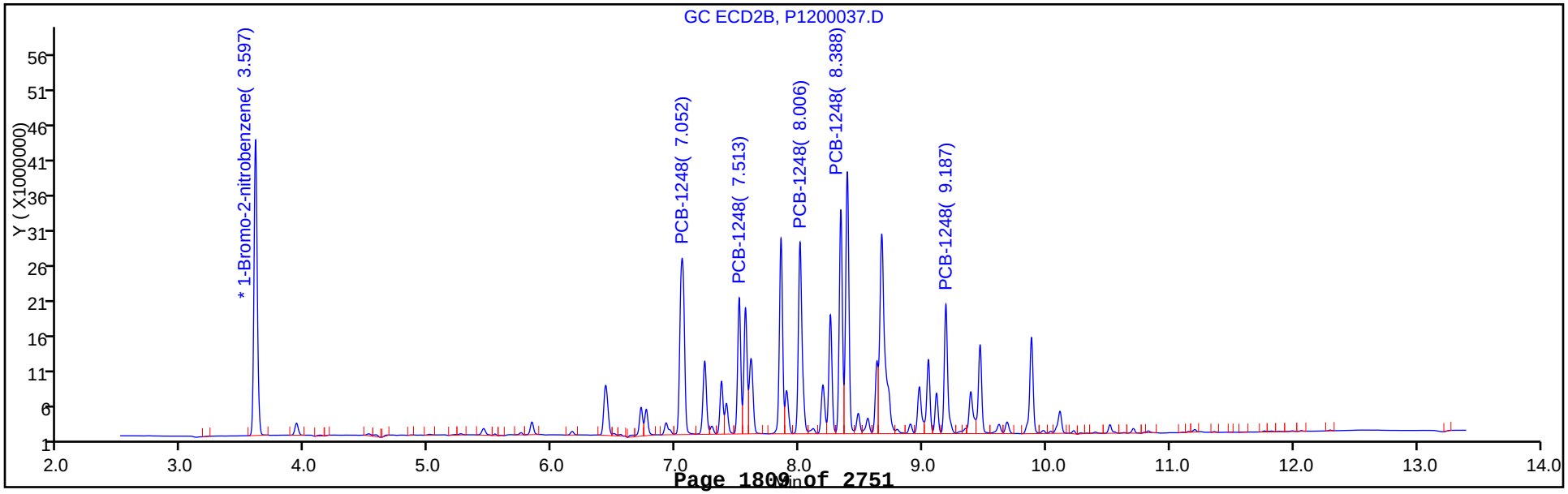
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200037.D

Injection Date:	23-Apr-2015 03:46:43	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1248			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/37 Calibration Date: 04/23/2015 03:46

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200037.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0351	0.0410		1.17	1.00	16.7	20.0
PCB-1248 Peak 2	Ave	0.0203	0.0220		1.09	1.00	8.6	20.0
PCB-1248 Peak 3	Ave	0.0361	0.0369		1.02	1.00	2.3	20.0
PCB-1248 Peak 4	Ave	0.0374	0.0441		1.18	1.00	18.0	20.0
PCB-1248 Peak 5	Ave	0.0211	0.0227		1.08	1.00	7.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/37 Calibration Date: 04/23/2015 03:46

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200037.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	7.05	7.02	7.08
PCB-1248 Peak 2	7.51	7.48	7.54
PCB-1248 Peak 3	8.01	7.97	8.03
PCB-1248 Peak 4	8.39	8.36	8.42
PCB-1248 Peak 5	9.19	9.15	9.21

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200037.D
Lims ID: ICV 1248
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 03:46:43 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-037
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 09:03:46 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.060	3.086	-0.026	100476911	0.0500	0.0500	
2	3.597	3.594	0.003	78412188	0.0500	0.0500	
7 PCB-1248							
1	5.426	5.447	-0.021	24844098	1.00	1.08	
1	6.797	6.818	-0.021	81853985	1.00	1.13	
1	7.371	7.395	-0.024	73143162	1.00	1.10	
1	7.617	7.641	-0.024	64272396	1.00	1.18	
1	8.105	8.130	-0.025	42192459	1.00	1.13	
		Average of Peak Amounts =				1.13	
2	7.052	7.050	0.002	64305991	1.00	1.17	
2	7.513	7.511	0.002	34485095	1.00	1.09	
2	8.006	8.002	0.004	57881239	1.00	1.02	
2	8.388	8.386	0.002	69208776	1.00	1.18	
2	9.187	9.184	0.003	35534186	1.00	1.08	
		Average of Peak Amounts =				1.11	
						RPD = 1.75	

Reagents:

SG1248ICV@1.0_00004 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

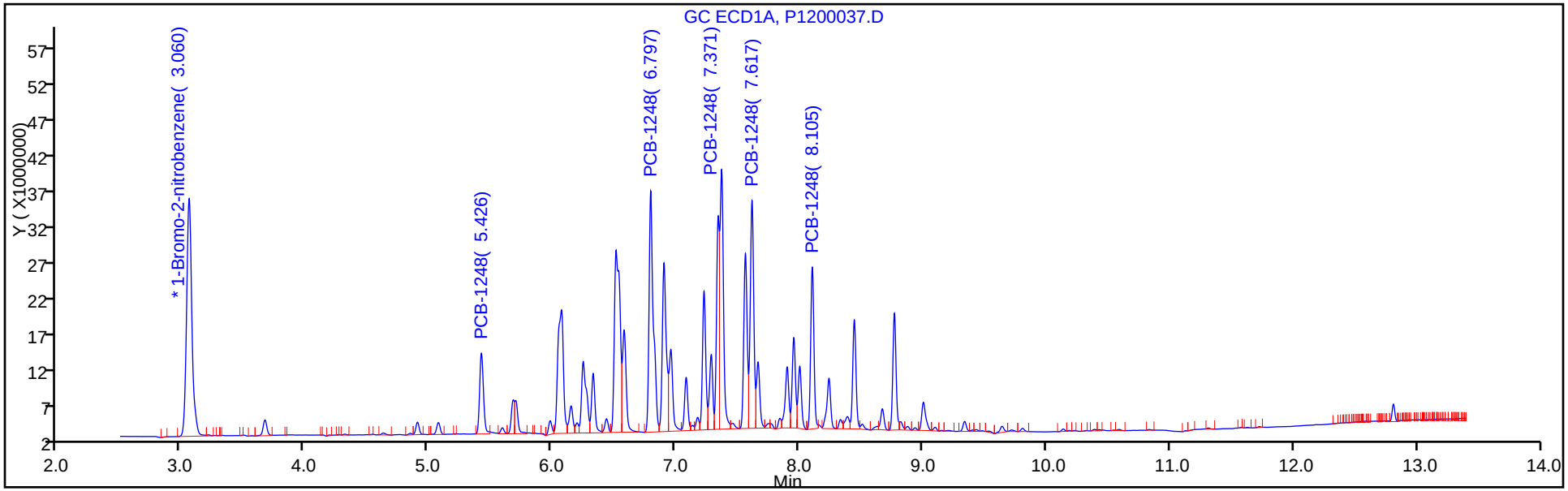
Report Date: 23-Apr-2015 09:04:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

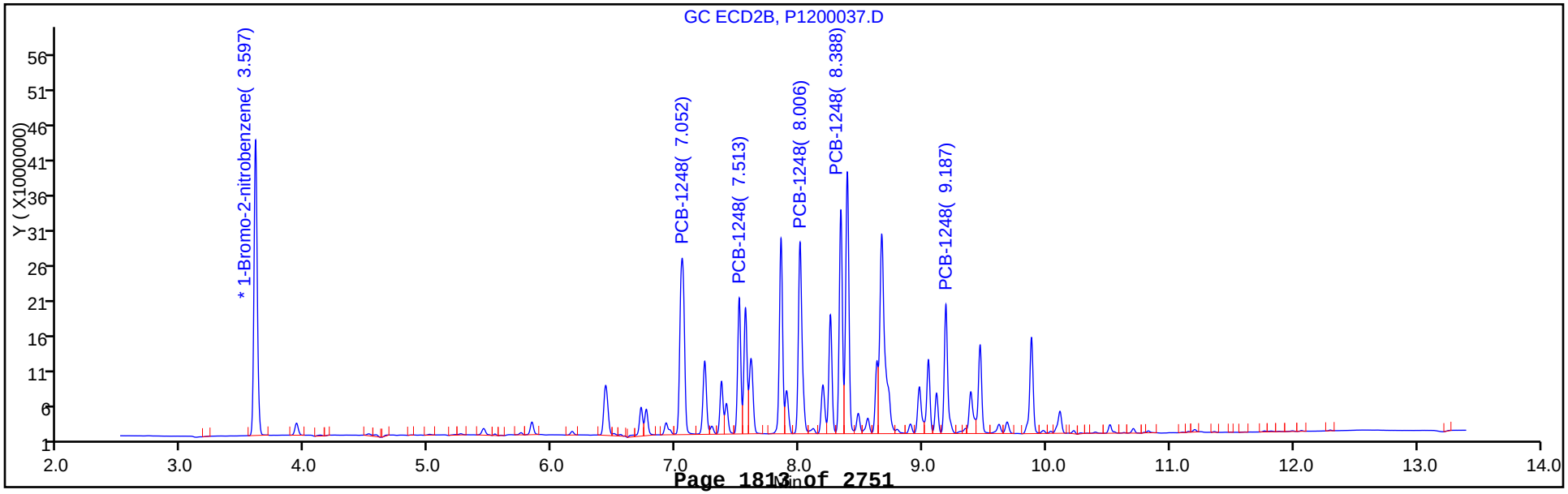
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200037.D

Injection Date:	23-Apr-2015 03:46:43	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1248			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/38 Calibration Date: 04/23/2015 04:04

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200038.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	0.0276	0.0247		0.894	1.00	-10.6	20.0
PCB-1254 Peak 2	Ave	0.0397	0.0359		0.905	1.00	-9.5	20.0
PCB-1254 Peak 3	Ave	0.0585	0.0539		0.921	1.00	-7.9	20.0
PCB-1254 Peak 4	Ave	0.0424	0.0396		0.934	1.00	-6.6	20.0
PCB-1254 Peak 5	Ave	0.0599	0.0600		1.00	1.00	0.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/38 Calibration Date: 04/23/2015 04:04

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200038.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	7.29	7.26	7.32
PCB-1254 Peak 2	7.62	7.59	7.65
PCB-1254 Peak 3	8.11	8.08	8.14
PCB-1254 Peak 4	8.45	8.42	8.48
PCB-1254 Peak 5	9.01	8.98	9.04

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200038.D
Lims ID: ICV 1254
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 04:04:47 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-038
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.056	0.002	122923849	0.0500	0.0500	
2	3.596	3.596	0.000	94578482	0.0500	0.0500	
8 PCB-1254							
1	7.286	7.288	-0.002	60649282	1.00	0.8936	
1	7.622	7.622	0.000	88218888	1.00	0.9046	
1	8.106	8.105	0.001	132548140	1.00	0.9211	
1	8.446	8.447	-0.001	97336764	1.00	0.9341	
1	9.005	9.005	0.000	147487977	1.00	1.00	
		Average of Peak Amounts =				0.9309	
2	8.383	8.384	-0.001	55675027	1.00	0.8639	
2	8.627	8.627	0.000	64225530	1.00	0.8763	
2	9.186	9.187	-0.001	96085446	1.00	0.8735	
2	9.463	9.465	-0.002	66947943	1.00	0.8804	
2	10.111	10.111	0.000	98744765	1.00	0.9150	
		Average of Peak Amounts =				0.8818	
						RPD = 5.41	

Reagents:

SG1254ICV@1.0_00005 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

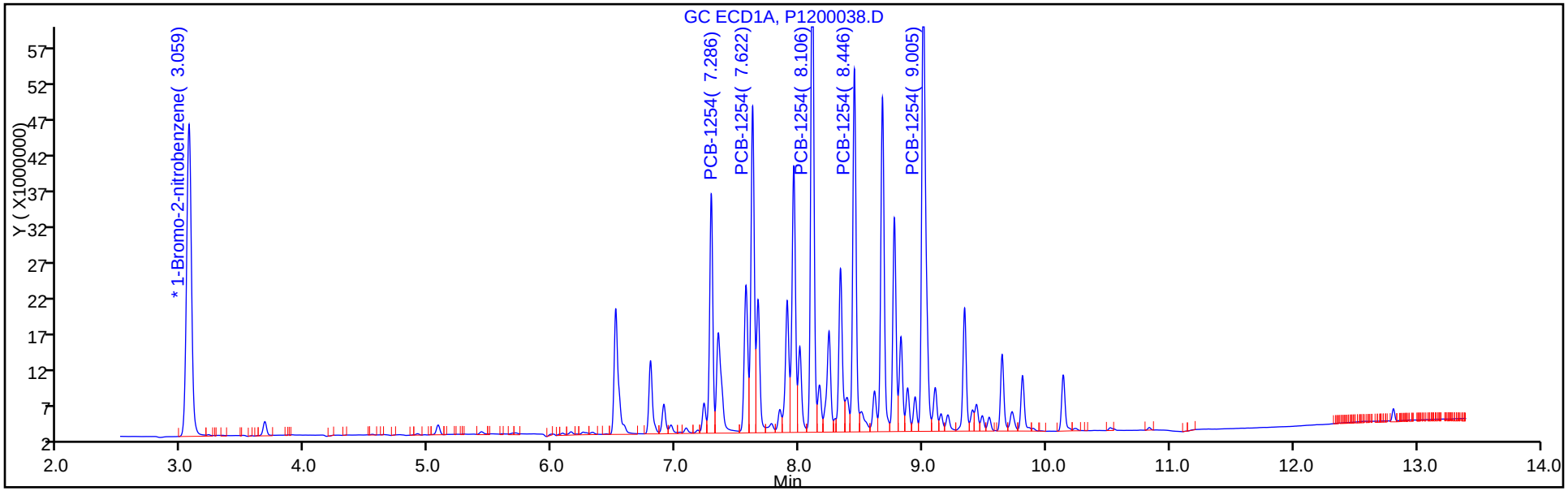
Report Date: 23-Apr-2015 06:29:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

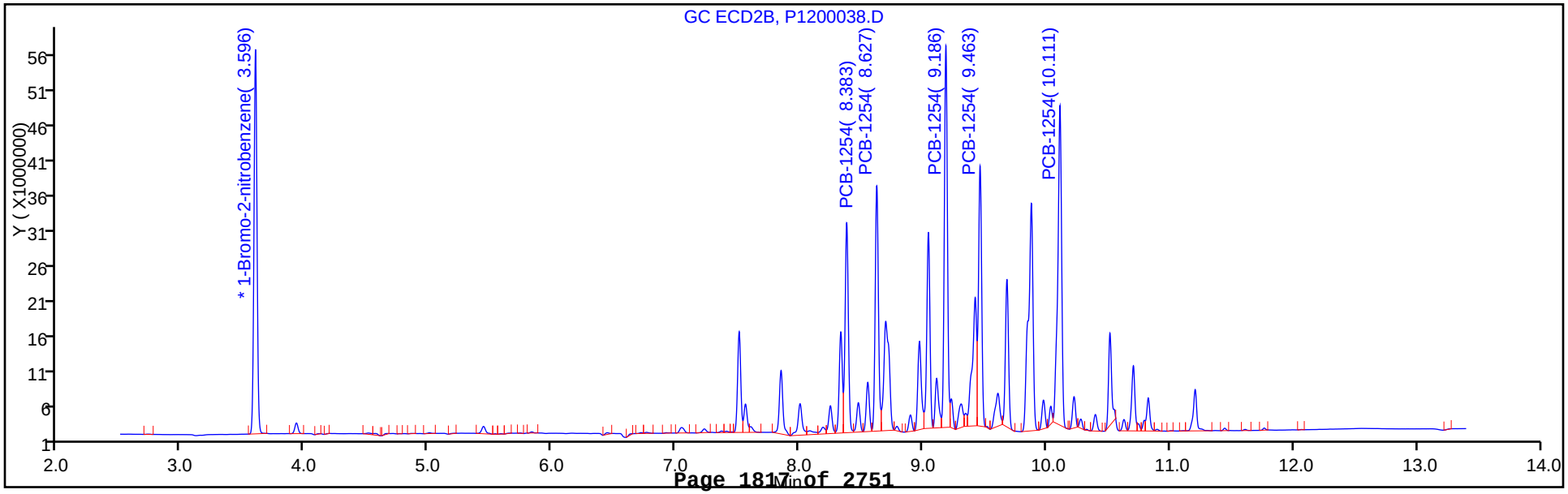
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200038.D

Injection Date:	23-Apr-2015 04:04:47	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1254			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/38 Calibration Date: 04/23/2015 04:04

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200038.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1254 Peak 1	Ave	0.0341	0.0294		0.864	1.00	-13.6	20.0
PCB-1254 Peak 2	Ave	0.0387	0.0340		0.876	1.00	-12.4	20.0
PCB-1254 Peak 3	Ave	0.0582	0.0508		0.874	1.00	-12.6	20.0
PCB-1254 Peak 4	Ave	0.0402	0.0354		0.880	1.00	-12.0	20.0
PCB-1254 Peak 5	Ave	0.0571	0.0522		0.915	1.00	-8.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/38 Calibration Date: 04/23/2015 04:04

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200038.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1254 Peak 1	8.38	8.35	8.41
PCB-1254 Peak 2	8.63	8.60	8.66
PCB-1254 Peak 3	9.19	9.16	9.22
PCB-1254 Peak 4	9.46	9.44	9.50
PCB-1254 Peak 5	10.11	10.08	10.14

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200038.D
Lims ID: ICV 1254
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 04:04:47 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-038
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.056	0.002	122923849	0.0500	0.0500	
2	3.596	3.596	0.000	94578482	0.0500	0.0500	
8 PCB-1254							
1	7.286	7.288	-0.002	60649282	1.00	0.8936	
1	7.622	7.622	0.000	88218888	1.00	0.9046	
1	8.106	8.105	0.001	132548140	1.00	0.9211	
1	8.446	8.447	-0.001	97336764	1.00	0.9341	
1	9.005	9.005	0.000	147487977	1.00	1.00	
		Average of Peak Amounts =				0.9309	
2	8.383	8.384	-0.001	55675027	1.00	0.8639	
2	8.627	8.627	0.000	64225530	1.00	0.8763	
2	9.186	9.187	-0.001	96085446	1.00	0.8735	
2	9.463	9.465	-0.002	66947943	1.00	0.8804	
2	10.111	10.111	0.000	98744765	1.00	0.9150	
		Average of Peak Amounts =				0.8818	
						RPD = 5.41	

Reagents:

SG1254ICV@1.0_00005 Amount Added: 1.00 Units: mL
Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

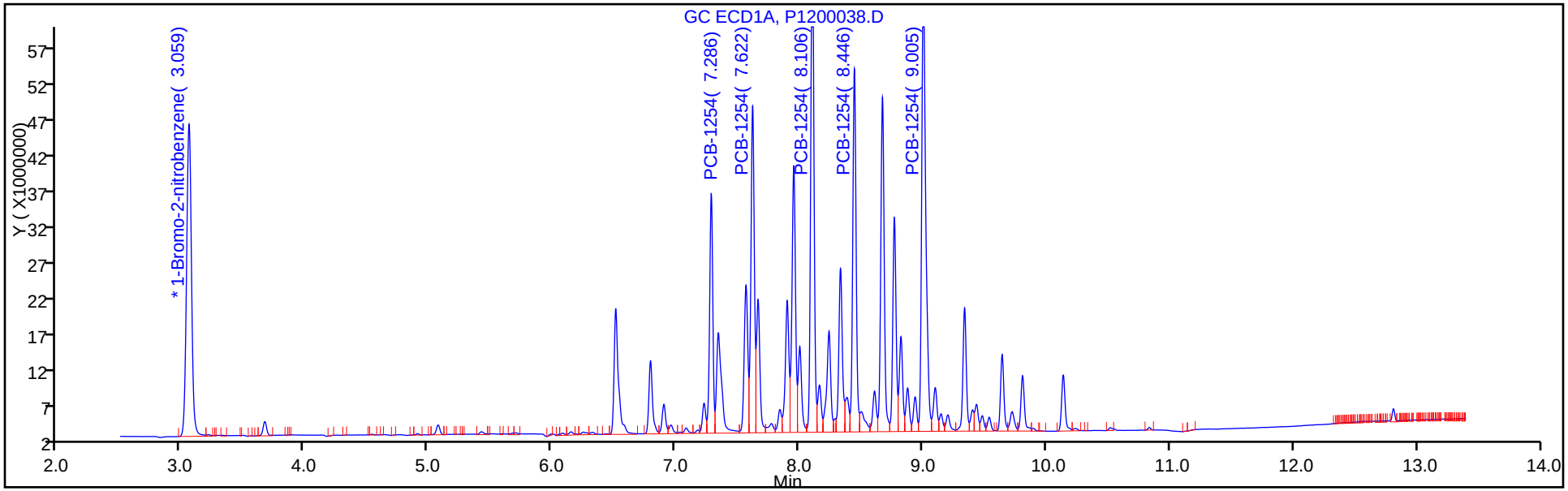
Report Date: 23-Apr-2015 06:29:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

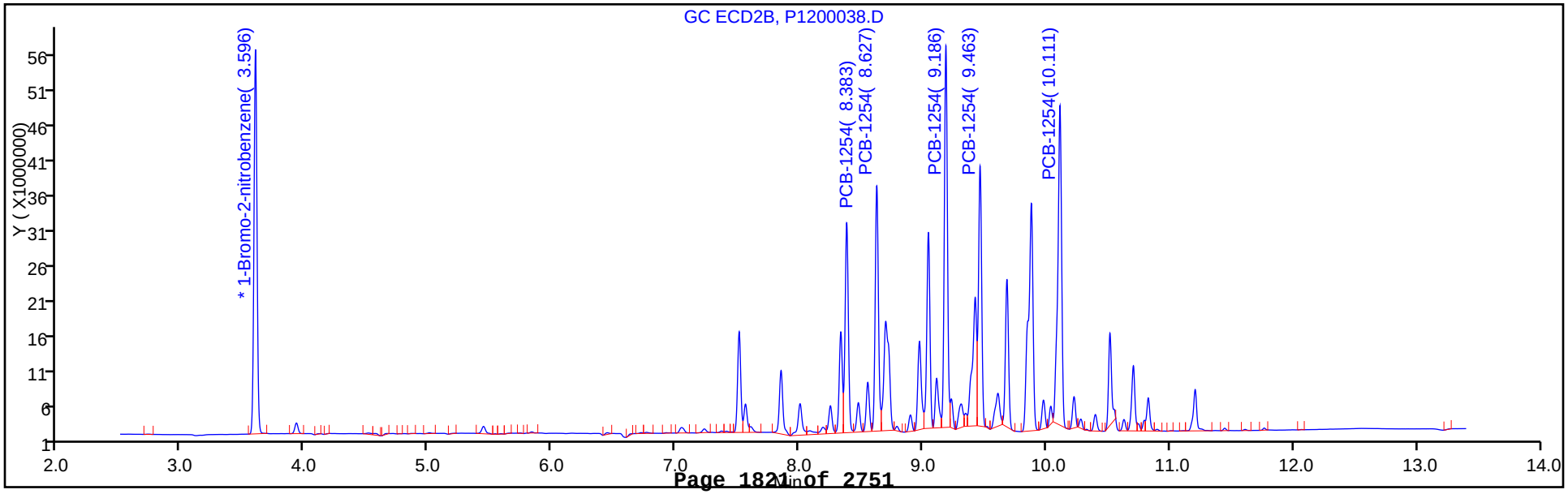
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200038.D

Injection Date:	23-Apr-2015 04:04:47	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1254			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/39 Calibration Date: 04/23/2015 04:22

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200039.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0134	0.0106		0.795	1.00	-20.5*	20.0
PCB-1016 Peak 2	Ave	0.0267	0.0224		0.841	1.00	-15.9	20.0
PCB-1016 Peak 3	Ave	0.0450	0.0401		0.890	1.00	-11.0	20.0
PCB-1016 Peak 4	Ave	0.0272	0.0219		0.806	1.00	-19.4	20.0
PCB-1016 Peak 5	Ave	0.0192	0.0145		0.756	1.00	-24.4*	20.0
PCB-1260 Peak 1	Ave	0.0401	0.0332		0.829	1.00	-17.1	20.0
PCB-1260 Peak 2	Ave	0.0626	0.0551		0.880	1.00	-12.0	20.0
PCB-1260 Peak 3	Ave	0.0703	0.0647		0.921	1.00	-7.9	20.0
PCB-1260 Peak 4	Ave	0.0914	0.0730		0.799	1.00	-20.1*	20.0
PCB-1260 Peak 5	Ave	0.0453	0.0392		0.866	1.00	-13.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/39 Calibration Date: 04/23/2015 04:22

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200039.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.91	4.88	4.94
PCB-1016 Peak 2	5.43	5.40	5.46
PCB-1016 Peak 3	6.08	6.05	6.11
PCB-1016 Peak 4	6.25	6.22	6.28
PCB-1016 Peak 5	6.33	6.30	6.36
PCB-1260 Peak 1	8.33	8.30	8.36
PCB-1260 Peak 2	8.68	8.64	8.70
PCB-1260 Peak 3	9.01	8.97	9.03
PCB-1260 Peak 4	9.81	9.78	9.84
PCB-1260 Peak 5	10.14	10.11	10.17

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200039.D
Lims ID: ICV 1660
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 04:22:50 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-039
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:23:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.056	0.001	120362952	0.0500	0.0500	
2	3.596	3.596	0.000	92554572	0.0500	0.0500	
6 PCB-1016							
1	4.906	4.906	0.000	25583231	1.00	0.7954	
1	5.426	5.426	0.000	54028433	1.00	0.8412	
1	6.075	6.076	-0.001	96507919	1.00	0.8903	
1	6.250	6.249	0.001	52658287	1.00	0.8055	
1	6.330	6.331	-0.001	34973903	1.00	0.7564	
		Average of Peak Amounts =				0.8178	
2	5.835	5.835	0.000	22055920	1.00	0.7695	
2	6.433	6.436	-0.003	37510103	1.00	0.8656	
2	7.055	7.056	-0.001	107446955	1.00	0.8999	
2	7.236	7.236	0.000	40941555	1.00	0.8561	
2	7.513	7.513	0.000	20387336	1.00	0.8257	
		Average of Peak Amounts =				0.8434	
						RPD = 3.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							M
1	8.333	8.333	0.000	80013163	1.00	0.8288	M
1	8.675	8.674	0.001	132579779	1.00	0.8799	M
1	9.005	9.004	0.001	155835096	1.00	0.9213	M
1	9.807	9.807	0.000	175771815	1.00	0.7989	M
1	10.137	10.137	0.000	94464735	1.00	0.8657	M
		Average of Peak Amounts =				0.8589	
2	9.425	9.425	0.000	63549573	1.00	0.8429	
2	9.681	9.681	0.000	71881192	1.00	0.8493	
2	10.110	10.109	0.001	111391724	1.00	0.9256	
2	10.825	10.826	-0.001	97963622	1.00	0.6293	
2	11.202	11.202	0.000	89126232	1.00	0.8179	
		Average of Peak Amounts =				0.8130	
						RPD = 5.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660ICV@1.0_00006	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

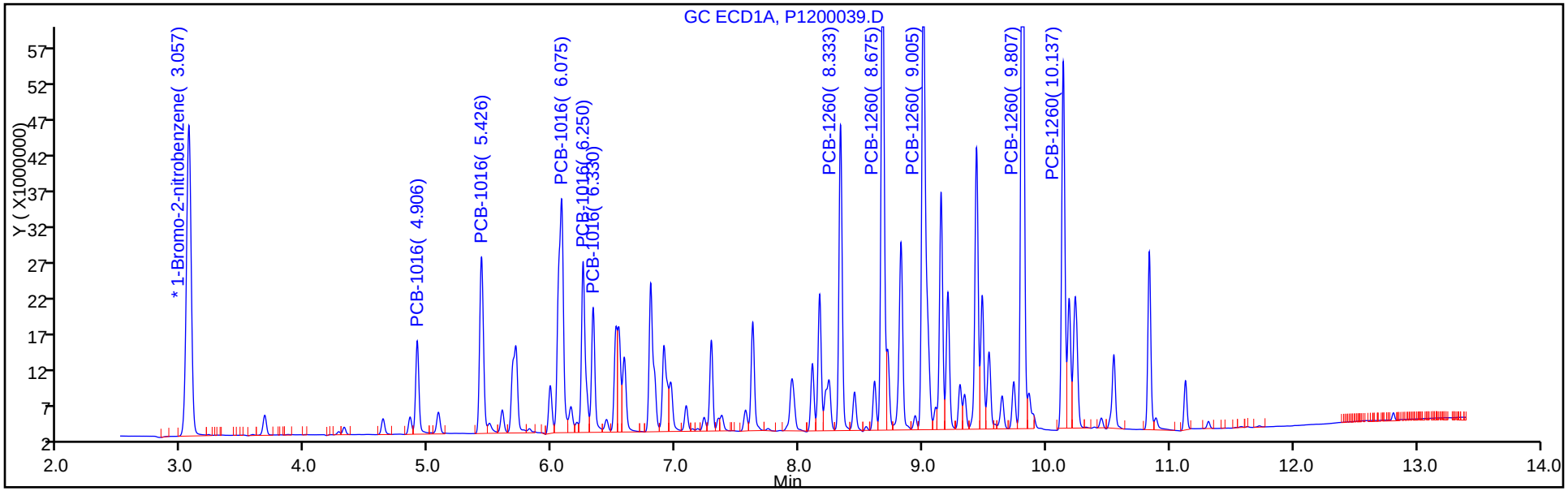
Report Date: 23-Apr-2015 06:29:35 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

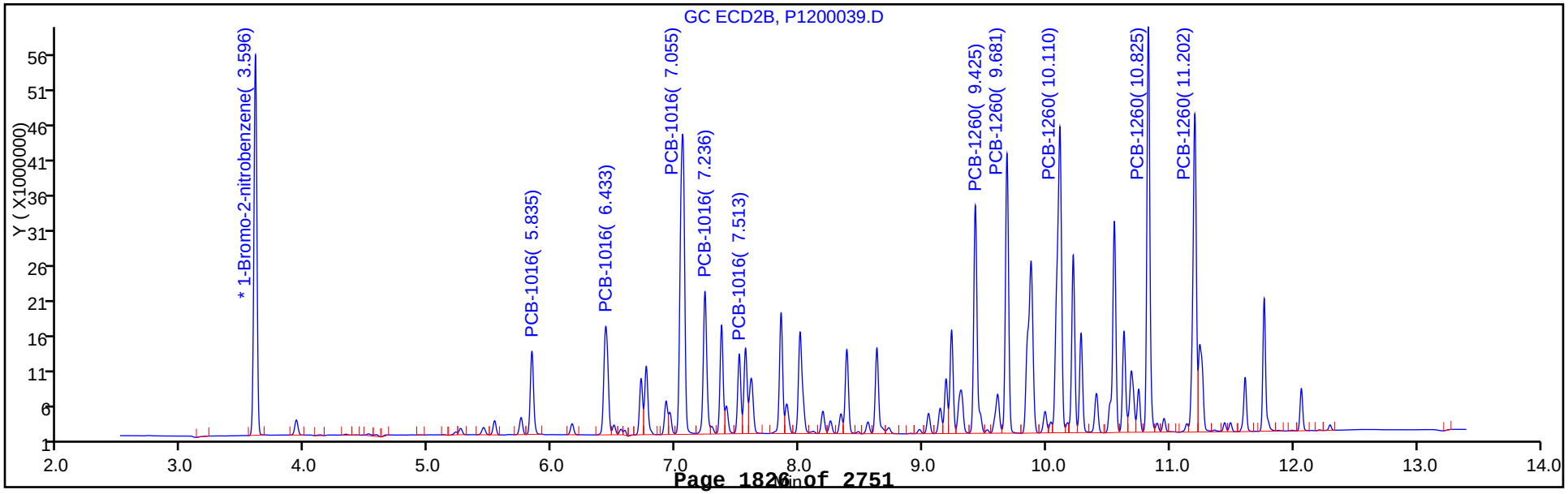
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200039.D

Injection Date:	23-Apr-2015 04:22:50	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1660			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 23-Apr-2015 06:29:35 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200039.D

Injection Date: 23-Apr-2015 04:22:50 Instrument ID: A2HP12

Lims ID: ICV 1660

Client ID:

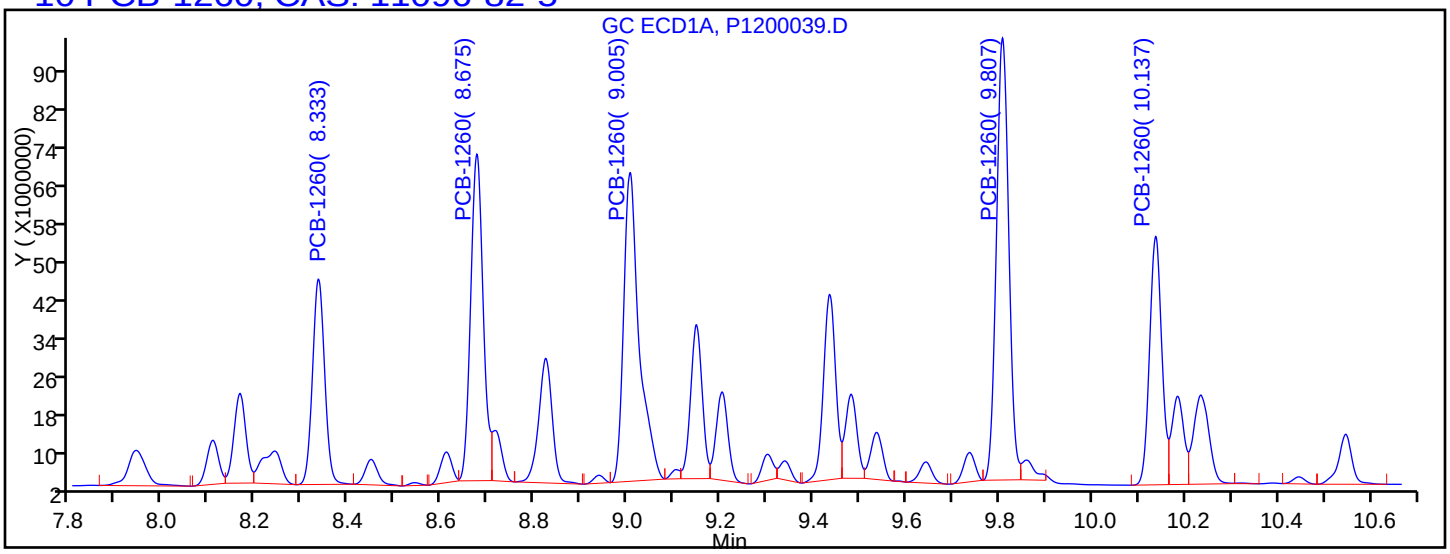
Operator ID: ALS Bottle#: 39 Worklist Smp#: 39

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

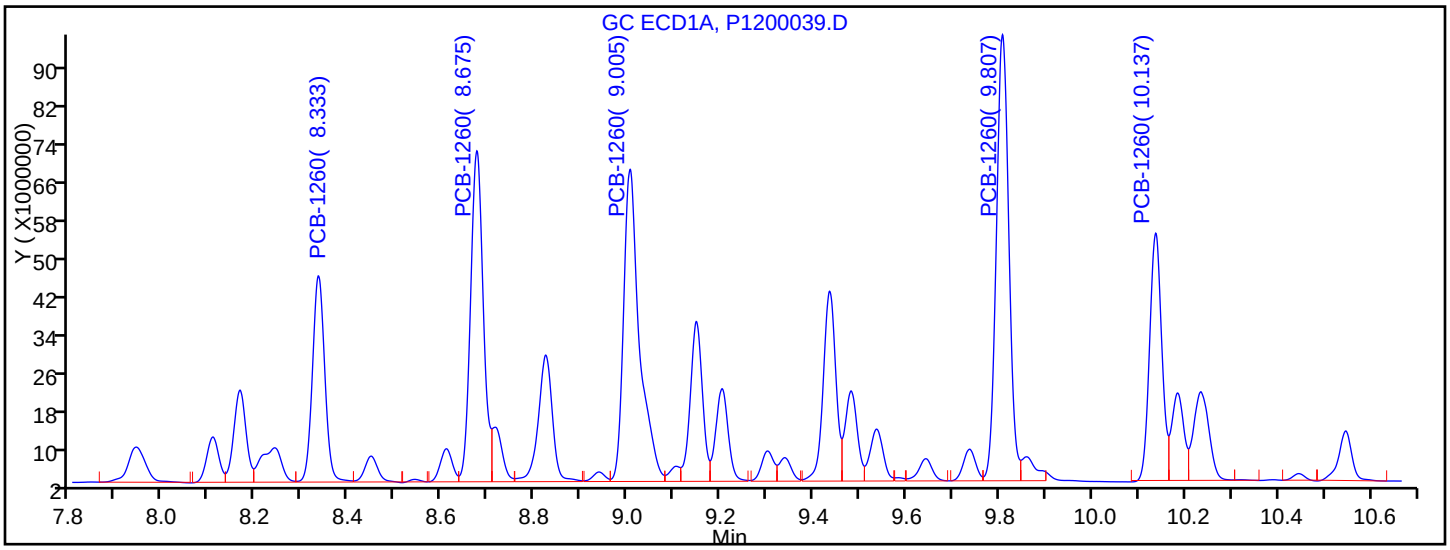
Column: Detector GC ECD1A

10 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 8.333	Response = 78572601	M
RT = 8.675	Response = 128682965	M
RT = 9.005	Response = 150072324	M
RT = 9.807	Response = 171672939	M
RT = 10.137	Response = 95616542	M



Manual Integration Results

RT = 8.333	Response = 80013163	M
RT = 8.675	Response = 132579779	M
RT = 9.005	Response = 155835096	M
RT = 9.807	Response = 175771815	M
RT = 10.137	Response = 94464735	M

Reviewer: hassl, 23-Apr-2015 06:23:09

Audit Action: Assigned New Baseline

Audit Reason: Baseline Event

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/39 Calibration Date: 04/23/2015 04:22

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200039.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0155	0.0119		0.770	1.00	-23.0*	20.0
PCB-1016 Peak 2	Ave	0.0234	0.0203		0.866	1.00	-13.4	20.0
PCB-1016 Peak 3	Ave	0.0645	0.0581		0.900	1.00	-10.0	20.0
PCB-1016 Peak 4	Ave	0.0258	0.0221		0.856	1.00	-14.4	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0110		0.826	1.00	-17.4	20.0
PCB-1260 Peak 1	Ave	0.0407	0.0343		0.843	1.00	-15.7	20.0
PCB-1260 Peak 2	Ave	0.0457	0.0388		0.849	1.00	-15.1	20.0
PCB-1260 Peak 3	Ave	0.0650	0.0602		0.926	1.00	-7.4	20.0
PCB-1260 Peak 4	Ave	0.0841	0.0529		0.629	1.00	-37.1*	20.0
PCB-1260 Peak 5	Ave	0.0589	0.0482		0.818	1.00	-18.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 240-177497/39 Calibration Date: 04/23/2015 04:22

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200039.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.84	5.81	5.87
PCB-1016 Peak 2	6.43	6.41	6.47
PCB-1016 Peak 3	7.06	7.03	7.09
PCB-1016 Peak 4	7.24	7.21	7.27
PCB-1016 Peak 5	7.51	7.48	7.54
PCB-1260 Peak 1	9.43	9.40	9.46
PCB-1260 Peak 2	9.68	9.65	9.71
PCB-1260 Peak 3	10.11	10.08	10.14
PCB-1260 Peak 4	10.83	10.80	10.86
PCB-1260 Peak 5	11.20	11.17	11.23

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200039.D
Lims ID: ICV 1660
Client ID:
Sample Type: ICV
Inject. Date: 23-Apr-2015 04:22:50 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 240-0042836-039
Operator ID: Instrument ID: A2HP12
Sublist:

Method: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 23-Apr-2015 06:29:12 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK027

First Level Reviewer: hassl Date: 23-Apr-2015 06:23:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.056	0.001	120362952	0.0500	0.0500	
2	3.596	3.596	0.000	92554572	0.0500	0.0500	
6 PCB-1016							
1	4.906	4.906	0.000	25583231	1.00	0.7954	
1	5.426	5.426	0.000	54028433	1.00	0.8412	
1	6.075	6.076	-0.001	96507919	1.00	0.8903	
1	6.250	6.249	0.001	52658287	1.00	0.8055	
1	6.330	6.331	-0.001	34973903	1.00	0.7564	
		Average of Peak Amounts =				0.8178	
2	5.835	5.835	0.000	22055920	1.00	0.7695	
2	6.433	6.436	-0.003	37510103	1.00	0.8656	
2	7.055	7.056	-0.001	107446955	1.00	0.8999	
2	7.236	7.236	0.000	40941555	1.00	0.8561	
2	7.513	7.513	0.000	20387336	1.00	0.8257	
		Average of Peak Amounts =				0.8434	
						RPD = 3.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							M
1	8.333	8.333	0.000	80013163	1.00	0.8288	M
1	8.675	8.674	0.001	132579779	1.00	0.8799	M
1	9.005	9.004	0.001	155835096	1.00	0.9213	M
1	9.807	9.807	0.000	175771815	1.00	0.7989	M
1	10.137	10.137	0.000	94464735	1.00	0.8657	M
		Average of Peak Amounts =				0.8589	
2	9.425	9.425	0.000	63549573	1.00	0.8429	
2	9.681	9.681	0.000	71881192	1.00	0.8493	
2	10.110	10.109	0.001	111391724	1.00	0.9256	
2	10.825	10.826	-0.001	97963622	1.00	0.6293	
2	11.202	11.202	0.000	89126232	1.00	0.8179	
		Average of Peak Amounts =				0.8130	
						RPD = 5.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660ICV@1.0_00006	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

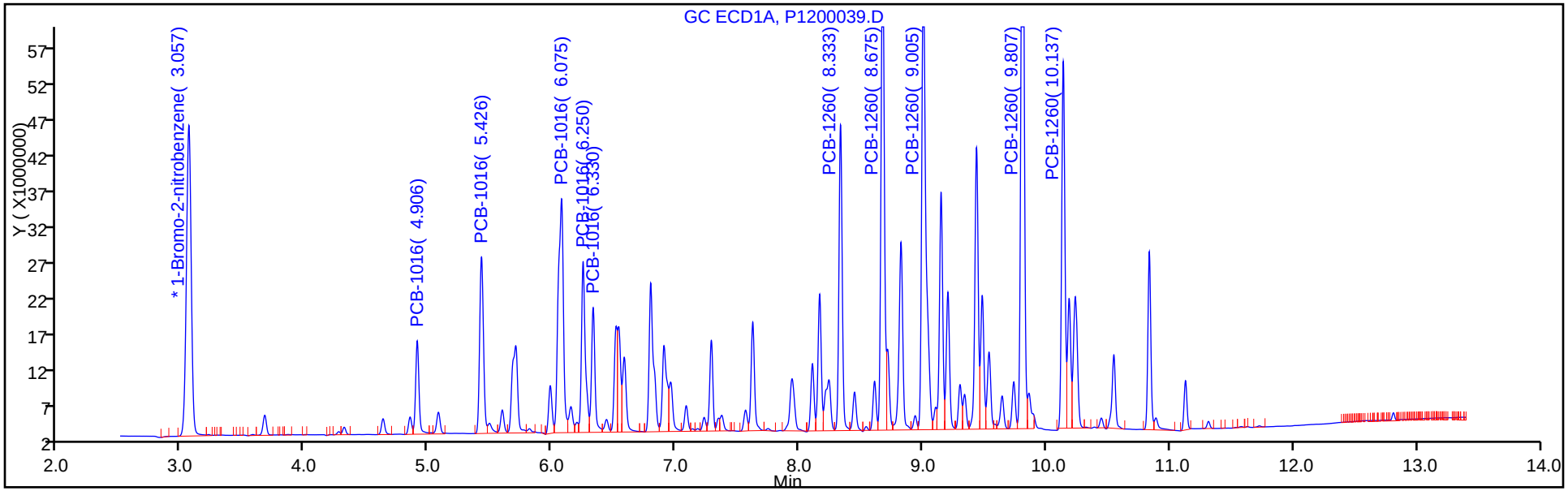
Report Date: 23-Apr-2015 06:29:36 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

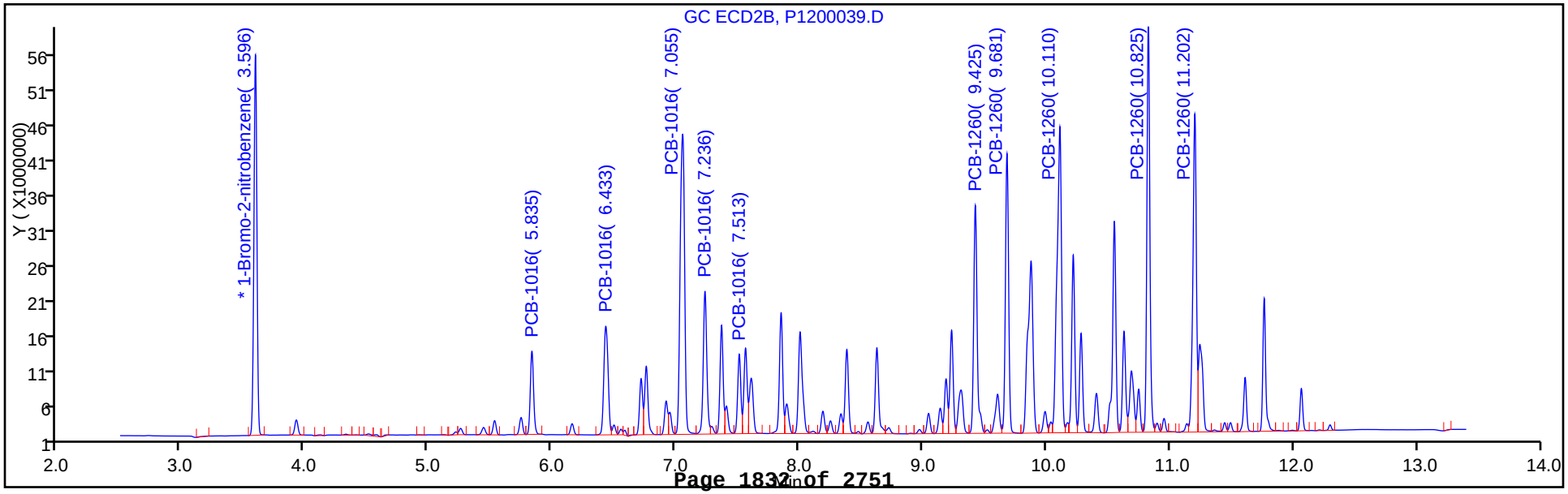
Data File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200039.D

Injection Date:	23-Apr-2015 04:22:50	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	ICV 1660			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/3 Calibration Date: 04/23/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200035.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0134	0.0140		0.525	0.500	5.0	20.0
PCB-1016 Peak 2	Ave	0.0267	0.0264		0.495	0.500	-1.0	20.0
PCB-1016 Peak 3	Ave	0.0450	0.0605		0.672	0.500	34.4*	20.0
PCB-1016 Peak 4	Ave	0.0272	0.0250		0.460	0.500	-8.0	20.0
PCB-1016 Peak 5	Ave	0.0192	0.0167		0.435	0.500	-13.1	20.0
PCB-1260 Peak 1	Ave	0.0401	0.0387		0.483	0.500	-3.5	20.0
PCB-1260 Peak 2	Ave	0.0626	0.0628		0.501	0.500	0.3	20.0
PCB-1260 Peak 3	Ave	0.0703	0.0700		0.498	0.500	-0.4	20.0
PCB-1260 Peak 4	Ave	0.0914	0.0959		0.525	0.500	4.9	20.0
PCB-1260 Peak 5	Ave	0.0453	0.0477		0.526	0.500	5.1	20.0
Tetrachloro-m-xylene	Ave	0.8467	0.8453		0.0250	0.0250	-0.2	20.0
DCB Decachlorobiphenyl	Ave	0.8958	0.7838		0.0219	0.0250	-12.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/3 Calibration Date: 04/23/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.91	4.88	4.94
PCB-1016 Peak 2	5.43	5.40	5.46
PCB-1016 Peak 3	6.07	6.04	6.10
PCB-1016 Peak 4	6.25	6.22	6.28
PCB-1016 Peak 5	6.33	6.30	6.36
PCB-1260 Peak 1	8.33	8.30	8.36
PCB-1260 Peak 2	8.68	8.65	8.71
PCB-1260 Peak 3	9.00	8.97	9.03
PCB-1260 Peak 4	9.81	9.78	9.84
PCB-1260 Peak 5	10.14	10.11	10.17
Tetrachloro-m-xylene	4.32	4.29	4.35
DCB Decachlorobiphenyl	11.31	11.28	11.34

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200035.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCVIS
Inject. Date: 23-Apr-2015 17:19:33 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-003
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:00 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:51:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	85040902	0.0500	0.0500	
2	3.596	3.596	0.000	65927587	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	35942010	0.0250	0.0250	
2	5.027	5.027	0.000	28534768	0.0250	0.0244	
						RPD = 2.24	
6 PCB-1016							
1	4.907	4.907	0.000	11932222	0.5000	0.5251	
1	5.427	5.427	0.000	22465235	0.5000	0.4951	
1	6.073	6.073	0.000	51468528	0.5000	0.6721	
1	6.250	6.250	0.000	21256276	0.5000	0.4602	
1	6.331	6.331	0.000	14195781	0.5000	0.4346	
		Average of Peak Amounts =				0.5174	
2	5.834	5.834	0.000	9813072	0.5000	0.4807	
2	6.431	6.431	0.000	19131336	0.5000	0.6198	
2	7.056	7.056	0.000	43093382	0.5000	0.5067	
2	7.237	7.237	0.000	15715296	0.5000	0.4613	
2	7.514	7.514	0.000	8431548	0.5000	0.4794	
		Average of Peak Amounts =				0.5096	
						RPD = 1.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.334	8.334	0.000	32925187	0.5000	0.4827	
1	8.675	8.675	0.000	53382762	0.5000	0.5014	
1	9.004	9.004	0.000	59490229	0.5000	0.4978	
1	9.808	9.808	0.000	81574019	0.5000	0.5247	
1	10.138	10.138	0.000	40530811	0.5000	0.5257	
		Average of Peak Amounts =				0.5065	
2	9.426	9.426	0.000	26357299	0.5000	0.4908	
2	9.682	9.682	0.000	30502902	0.5000	0.5060	
2	10.110	10.110	0.000	43210733	0.5000	0.5041	
2	10.827	10.827	0.000	57889531	0.5000	0.5221	
2	11.203	11.203	0.000	39454698	0.5000	0.5083	
		Average of Peak Amounts =				0.5062	
						RPD = 0.05	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.313	0.000	33325297	0.0250	0.0219	
2	12.298	12.298	0.000	22026902	0.0250	0.0222	
						RPD = 1.26	
16 1260 Res 1							
1	10.138	10.138	0.000	40530811	NR	NR	
2	9.682	9.682	0.000	30502902	NR	NR	
13 1260 Res 2							
1		10.185			ND	ND	
2		9.778					
15 1260 Res 3							
1		10.235			ND	ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

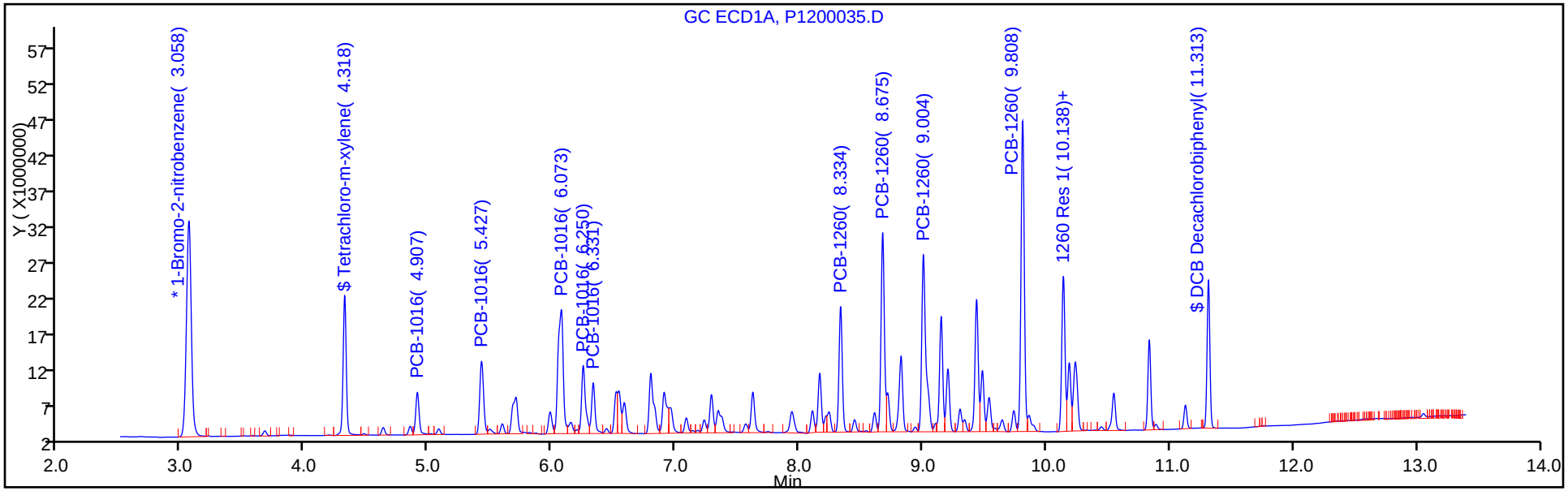
Report Date: 24-Apr-2015 10:24:00 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

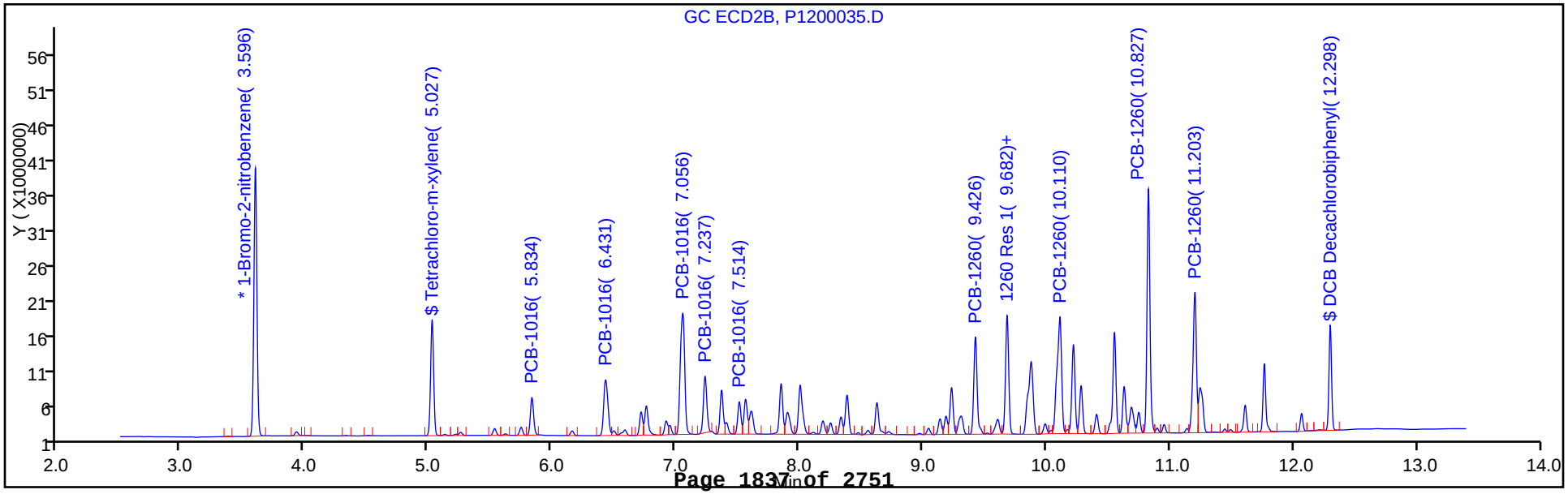
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200035.D

Injection Date:	23-Apr-2015 17:19:33	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/3 Calibration Date: 04/23/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200035.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0155	0.0149		0.481	0.500	-3.9	20.0
PCB-1016 Peak 2	Ave	0.0234	0.0290		0.620	0.500	24.0*	20.0
PCB-1016 Peak 3	Ave	0.0645	0.0654		0.507	0.500	1.3	20.0
PCB-1016 Peak 4	Ave	0.0258	0.0238		0.461	0.500	-7.7	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0128		0.479	0.500	-4.1	20.0
PCB-1260 Peak 1	Ave	0.0407	0.0400		0.491	0.500	-1.8	20.0
PCB-1260 Peak 2	Ave	0.0457	0.0463		0.506	0.500	1.2	20.0
PCB-1260 Peak 3	Ave	0.0650	0.0655		0.504	0.500	0.8	20.0
PCB-1260 Peak 4	Ave	0.0841	0.0878		0.522	0.500	4.4	20.0
PCB-1260 Peak 5	Ave	0.0589	0.0599		0.508	0.500	1.7	20.0
Tetrachloro-m-xylene	Ave	0.8867	0.8656		0.0244	0.0250	-2.4	20.0
DCB Decachlorobiphenyl	Ave	0.7541	0.6682		0.0222	0.0250	-11.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/3 Calibration Date: 04/23/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.83	5.80	5.86
PCB-1016 Peak 2	6.43	6.40	6.46
PCB-1016 Peak 3	7.06	7.03	7.09
PCB-1016 Peak 4	7.24	7.21	7.27
PCB-1016 Peak 5	7.51	7.48	7.54
PCB-1260 Peak 1	9.43	9.40	9.46
PCB-1260 Peak 2	9.68	9.65	9.71
PCB-1260 Peak 3	10.11	10.08	10.14
PCB-1260 Peak 4	10.83	10.80	10.86
PCB-1260 Peak 5	11.20	11.17	11.23
Tetrachloro-m-xylene	5.03	5.00	5.06
DCB Decachlorobiphenyl	12.30	12.27	12.33

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200035.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCVIS
Inject. Date: 23-Apr-2015 17:19:33 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-003
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:00 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:51:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	85040902	0.0500	0.0500	
2	3.596	3.596	0.000	65927587	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	35942010	0.0250	0.0250	
2	5.027	5.027	0.000	28534768	0.0250	0.0244	
						RPD = 2.24	
6 PCB-1016							
1	4.907	4.907	0.000	11932222	0.5000	0.5251	
1	5.427	5.427	0.000	22465235	0.5000	0.4951	
1	6.073	6.073	0.000	51468528	0.5000	0.6721	
1	6.250	6.250	0.000	21256276	0.5000	0.4602	
1	6.331	6.331	0.000	14195781	0.5000	0.4346	
		Average of Peak Amounts =				0.5174	
2	5.834	5.834	0.000	9813072	0.5000	0.4807	
2	6.431	6.431	0.000	19131336	0.5000	0.6198	
2	7.056	7.056	0.000	43093382	0.5000	0.5067	
2	7.237	7.237	0.000	15715296	0.5000	0.4613	
2	7.514	7.514	0.000	8431548	0.5000	0.4794	
		Average of Peak Amounts =				0.5096	
						RPD = 1.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.334	8.334	0.000	32925187	0.5000	0.4827	
1	8.675	8.675	0.000	53382762	0.5000	0.5014	
1	9.004	9.004	0.000	59490229	0.5000	0.4978	
1	9.808	9.808	0.000	81574019	0.5000	0.5247	
1	10.138	10.138	0.000	40530811	0.5000	0.5257	
		Average of Peak Amounts =				0.5065	
2	9.426	9.426	0.000	26357299	0.5000	0.4908	
2	9.682	9.682	0.000	30502902	0.5000	0.5060	
2	10.110	10.110	0.000	43210733	0.5000	0.5041	
2	10.827	10.827	0.000	57889531	0.5000	0.5221	
2	11.203	11.203	0.000	39454698	0.5000	0.5083	
		Average of Peak Amounts =				0.5062	
						RPD = 0.05	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.313	0.000	33325297	0.0250	0.0219	
2	12.298	12.298	0.000	22026902	0.0250	0.0222	
						RPD = 1.26	
16 1260 Res 1							
1	10.138	10.138	0.000	40530811	NR	NR	
2	9.682	9.682	0.000	30502902	NR	NR	
13 1260 Res 2							
1		10.185			ND	ND	
2		9.778					
15 1260 Res 3							
1		10.235			ND	ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

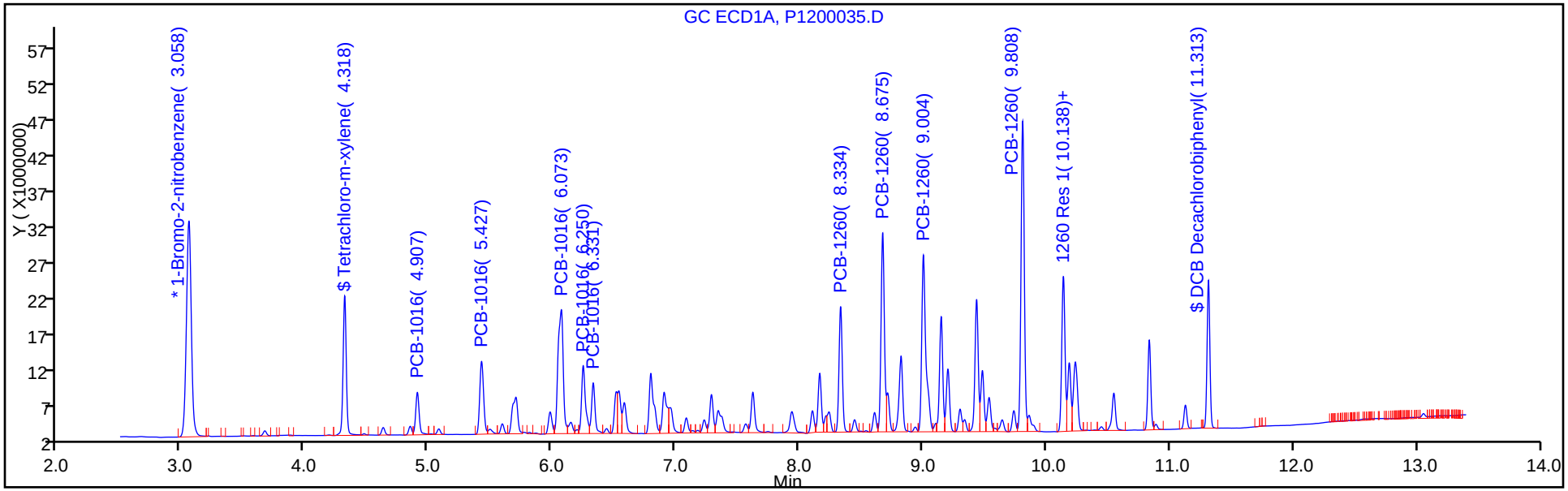
Report Date: 24-Apr-2015 10:24:01 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

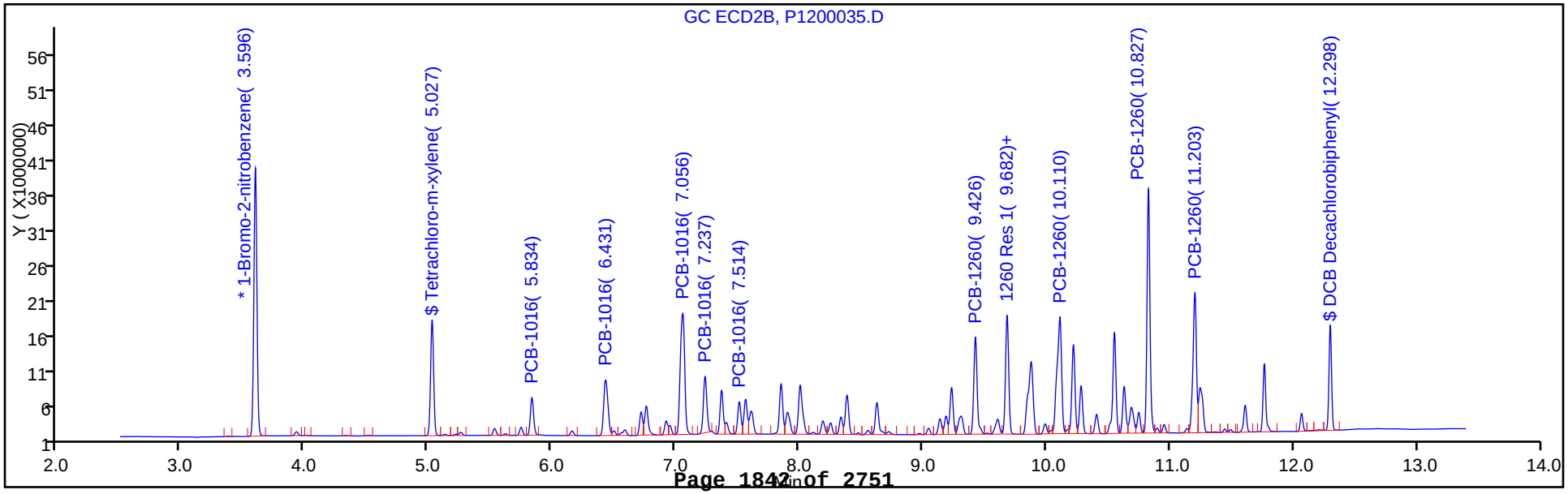
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200035.D

Injection Date:	23-Apr-2015 17:19:33	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/4 Calibration Date: 04/23/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0183	0.0168		0.459	0.500	-8.1	20.0
PCB-1232 Peak 2	Ave	0.0139	0.0126		0.455	0.500	-9.1	20.0
PCB-1232 Peak 3	Ave	0.0201	0.0275		0.682	0.500	36.4*	20.0
PCB-1232 Peak 4	Ave	0.0125	0.0115		0.460	0.500	-8.0	20.0
PCB-1232 Peak 5	Ave	0.0117	0.0106		0.455	0.500	-9.0	20.0
PCB-1262 Peak 1	Ave	0.0432	0.0439		0.508	0.500	1.5	20.0
PCB-1262 Peak 2	Ave	0.0521	0.0556		0.534	0.500	6.7	20.0
PCB-1262 Peak 3	Ave	0.0522	0.0534		0.511	0.500	2.2	20.0
PCB-1262 Peak 4	Ave	0.1064	0.1155		0.543	0.500	8.6	20.0
PCB-1262 Peak 5	Ave	0.0412	0.0434		0.527	0.500	5.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/4 Calibration Date: 04/23/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	4.91	4.88	4.94
PCB-1232 Peak 2	5.43	5.40	5.46
PCB-1232 Peak 3	6.07	6.04	6.10
PCB-1232 Peak 4	6.25	6.22	6.28
PCB-1232 Peak 5	6.80	6.77	6.83
PCB-1262 Peak 1	8.68	8.65	8.71
PCB-1262 Peak 2	9.15	9.12	9.18
PCB-1262 Peak 3	9.44	9.41	9.47
PCB-1262 Peak 4	9.81	9.78	9.84
PCB-1262 Peak 5	10.19	10.16	10.22

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200036.D
Lims ID: RTC AR1232/1262
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 17:37:43 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-004
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:57:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.059	0.000	86142165	0.0500	0.0500	
2	3.596	3.596	0.000	67618637	0.0500	0.0500	
4 PCB-1232							
1	4.908	4.908	0.000	14466284	0.5000	0.4594	
1	5.428	5.428	0.000	10861566	0.5000	0.4547	
1	6.074	6.074	0.000	23645950	0.5000	0.6818	
1	6.250	6.250	0.000	9922265	0.5000	0.4600	
1	6.797	6.797	0.000	9161040	0.5000	0.4552	
		Average of Peak Amounts =				0.5022	
2	5.835	5.835	0.000	12619713	0.5000	0.5071	
2	6.430	6.430	0.000	9881947	0.5000	0.6616	
2	7.055	7.055	0.000	20116902	0.5000	0.5093	
2	7.235	7.235	0.000	8455138	0.5000	0.5117	
2	7.514	7.514	0.000	3709879	0.5000	0.5339	
		Average of Peak Amounts =				0.5447	
						RPD = 8.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.675	8.675	0.000	37781124	0.5000	0.5076	
1	9.148	9.148	0.000	47908870	0.5000	0.5336	
1	9.435	9.435	0.000	45988151	0.5000	0.5110	
1	9.807	9.807	0.000	99479089	0.5000	0.5428	
1	10.185	10.185	0.000	37379094	0.5000	0.5271	
		Average of Peak Amounts =				0.5244	
2	9.681	9.681	0.000	24292924	0.5000	0.5231	
2	10.218	10.218	0.000	34421444	0.5000	0.5307	
2	10.551	10.551	0.000	32883783	0.5000	0.5308	
2	10.826	10.826	0.000	68301505	0.5000	0.5471	
2	11.200	11.200	0.000	46625525	0.5000	0.5279	
		Average of Peak Amounts =				0.5319	
						RPD = 1.42	

Reagents:

SG3262@0.5PPM_00006 Amount Added: 1.00 Units: mL

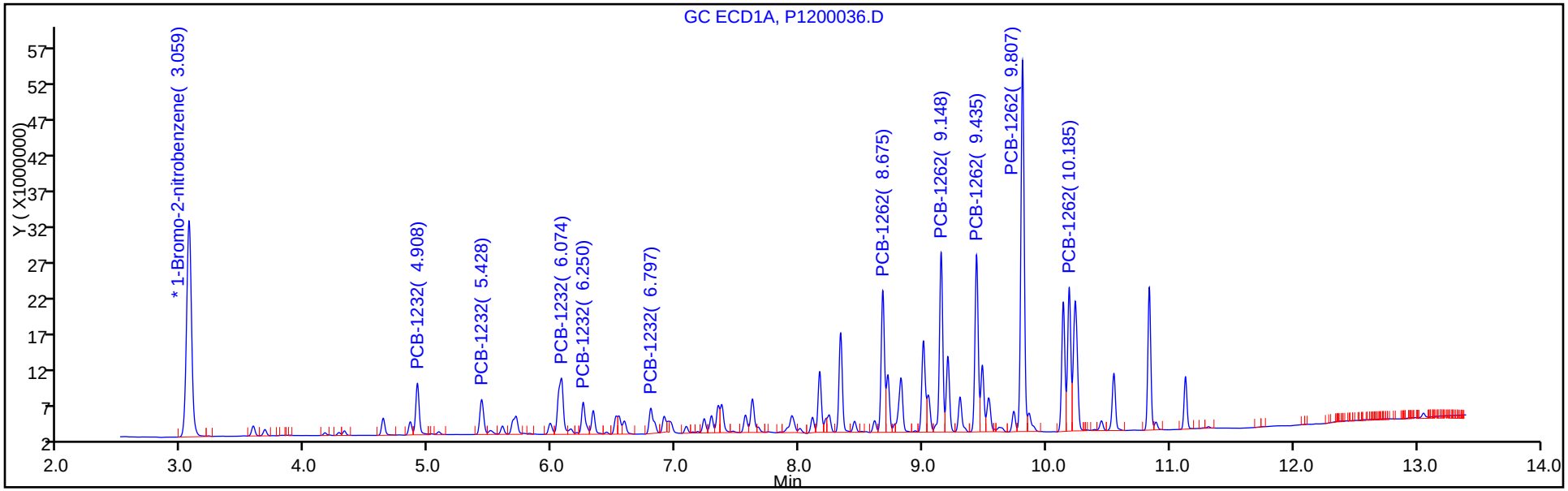
Report Date: 24-Apr-2015 10:24:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

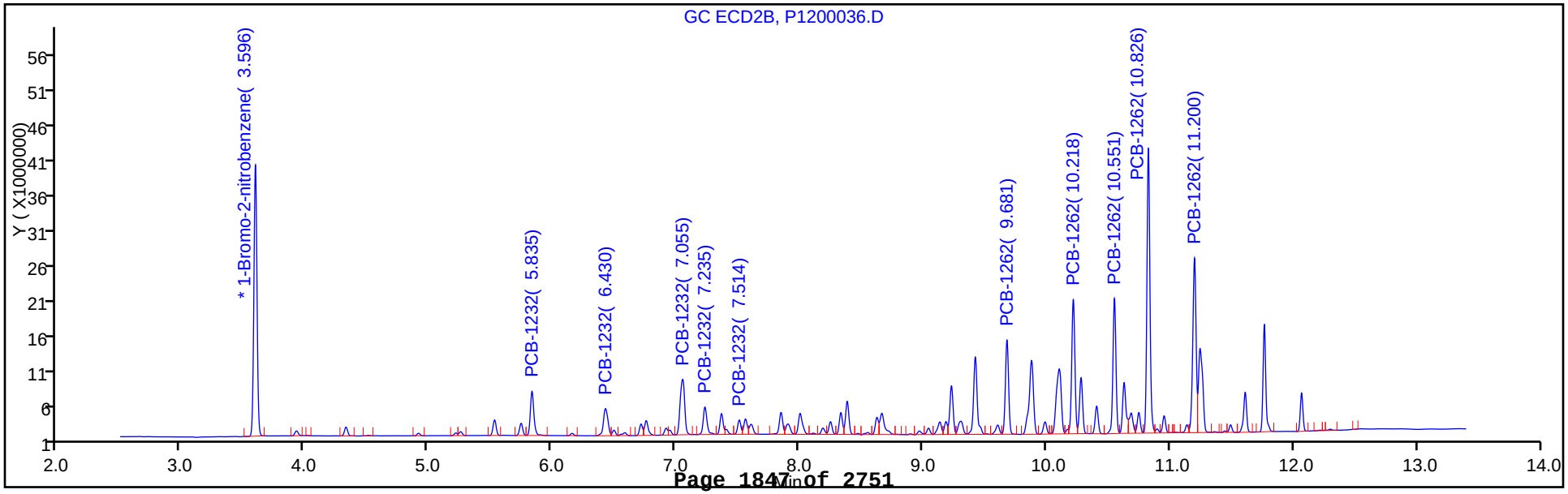
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200036.D

Injection Date:	23-Apr-2015 17:37:43	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1232/1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/4 Calibration Date: 04/23/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0184	0.0187		0.507	0.500	1.4	20.0
PCB-1232 Peak 2	Ave	0.0110	0.0146		0.662	0.500	32.3*	20.0
PCB-1232 Peak 3	Ave	0.0292	0.0298		0.509	0.500	1.9	20.0
PCB-1232 Peak 4	Ave	0.0122	0.0125		0.512	0.500	2.3	20.0
PCB-1232 Peak 5	Lin1		0.0055		0.534	0.500	6.8	20.0
PCB-1262 Peak 1	Ave	0.0343	0.0359		0.523	0.500	4.6	20.0
PCB-1262 Peak 2	Ave	0.0480	0.0509		0.531	0.500	6.1	20.0
PCB-1262 Peak 3	Ave	0.0458	0.0486		0.531	0.500	6.2	20.0
PCB-1262 Peak 4	Ave	0.0923	0.1010		0.547	0.500	9.4	20.0
PCB-1262 Peak 5	Ave	0.0653	0.0690		0.528	0.500	5.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/4 Calibration Date: 04/23/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	5.84	5.81	5.87
PCB-1232 Peak 2	6.43	6.40	6.46
PCB-1232 Peak 3	7.06	7.03	7.09
PCB-1232 Peak 4	7.24	7.21	7.27
PCB-1232 Peak 5	7.51	7.48	7.54
PCB-1262 Peak 1	9.68	9.65	9.71
PCB-1262 Peak 2	10.22	10.19	10.25
PCB-1262 Peak 3	10.55	10.52	10.58
PCB-1262 Peak 4	10.83	10.80	10.86
PCB-1262 Peak 5	11.20	11.17	11.23

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200036.D
Lims ID: RTC AR1232/1262
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 17:37:43 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-004
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:57:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.059	0.000	86142165	0.0500	0.0500	
2	3.596	3.596	0.000	67618637	0.0500	0.0500	
4 PCB-1232							
1	4.908	4.908	0.000	14466284	0.5000	0.4594	
1	5.428	5.428	0.000	10861566	0.5000	0.4547	
1	6.074	6.074	0.000	23645950	0.5000	0.6818	
1	6.250	6.250	0.000	9922265	0.5000	0.4600	
1	6.797	6.797	0.000	9161040	0.5000	0.4552	
		Average of Peak Amounts =				0.5022	
2	5.835	5.835	0.000	12619713	0.5000	0.5071	
2	6.430	6.430	0.000	9881947	0.5000	0.6616	
2	7.055	7.055	0.000	20116902	0.5000	0.5093	
2	7.235	7.235	0.000	8455138	0.5000	0.5117	
2	7.514	7.514	0.000	3709879	0.5000	0.5339	
		Average of Peak Amounts =				0.5447	
						RPD = 8.12	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.675	8.675	0.000	37781124	0.5000	0.5076	
1	9.148	9.148	0.000	47908870	0.5000	0.5336	
1	9.435	9.435	0.000	45988151	0.5000	0.5110	
1	9.807	9.807	0.000	99479089	0.5000	0.5428	
1	10.185	10.185	0.000	37379094	0.5000	0.5271	
		Average of Peak Amounts =				0.5244	
2	9.681	9.681	0.000	24292924	0.5000	0.5231	
2	10.218	10.218	0.000	34421444	0.5000	0.5307	
2	10.551	10.551	0.000	32883783	0.5000	0.5308	
2	10.826	10.826	0.000	68301505	0.5000	0.5471	
2	11.200	11.200	0.000	46625525	0.5000	0.5279	
		Average of Peak Amounts =				0.5319	
						RPD = 1.42	

Reagents:

SG3262@0.5PPM_00006 Amount Added: 1.00 Units: mL

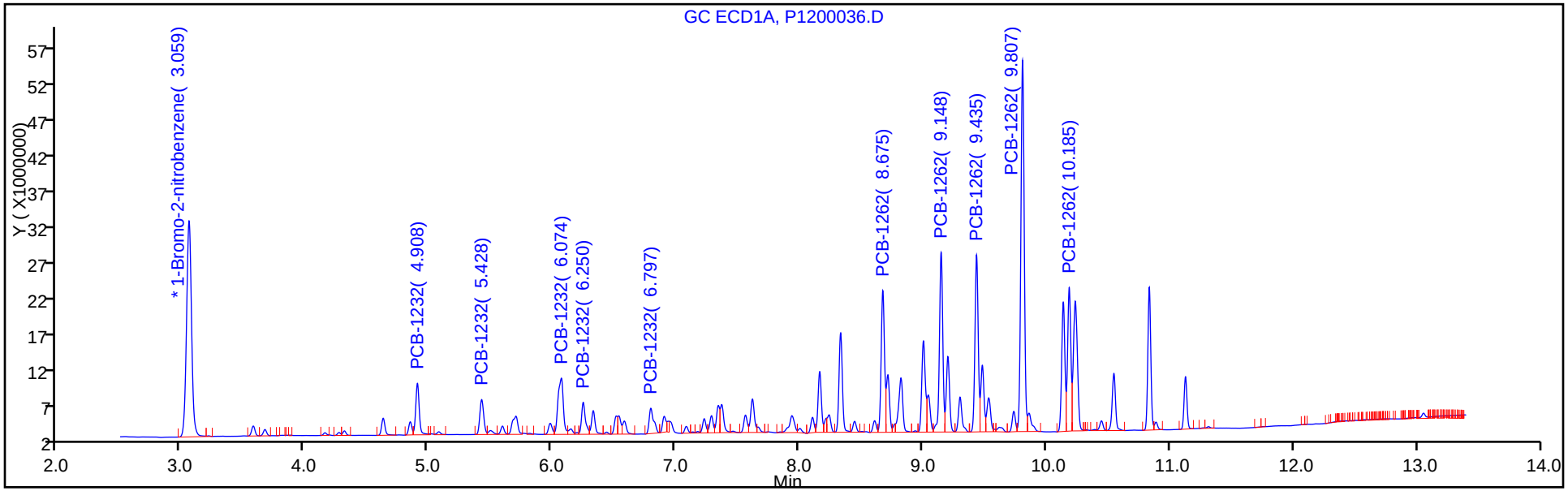
Report Date: 24-Apr-2015 10:24:03 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

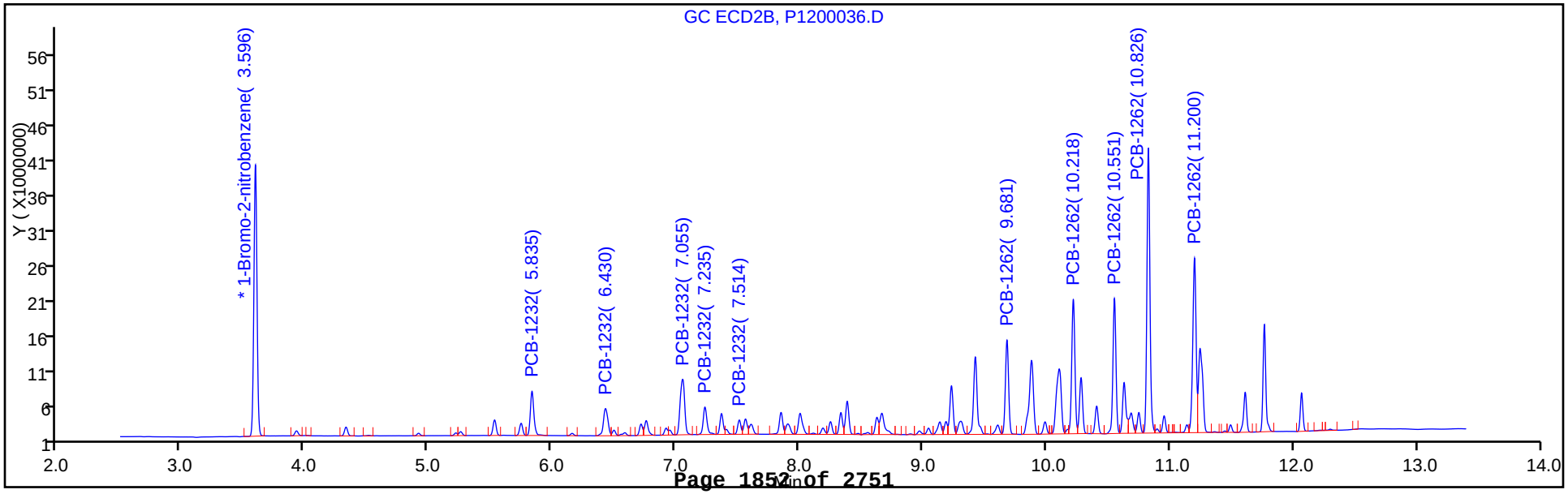
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200036.D

Injection Date:	23-Apr-2015 17:37:43	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1232/1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/5 Calibration Date: 04/23/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200037.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0123	0.0114		0.465	0.500	-7.0	20.0
PCB-1242 Peak 2	Ave	0.0232	0.0223		0.480	0.500	-4.0	20.0
PCB-1242 Peak 3	Ave	0.0396	0.0503		0.636	0.500	27.2*	20.0
PCB-1242 Peak 4	Ave	0.0211	0.0210		0.496	0.500	-0.8	20.0
PCB-1242 Peak 5	Lin1		0.0140		0.464	0.500	-7.3	20.0
PCB-1268 Peak 1	Ave	0.1173	0.1322		0.563	0.500	12.7	20.0
PCB-1268 Peak 2	Ave	0.1322	0.1330		0.503	0.500	0.6	20.0
PCB-1268 Peak 3	Ave	0.1052	0.1105		0.525	0.500	5.0	20.0
PCB-1268 Peak 4	Ave	0.0419	0.0449		0.536	0.500	7.3	20.0
PCB-1268 Peak 5	Ave	0.3591	0.3809		0.530	0.500	6.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/5 Calibration Date: 04/23/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200037.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.91	4.88	4.94
PCB-1242 Peak 2	5.43	5.40	5.46
PCB-1242 Peak 3	6.07	6.04	6.10
PCB-1242 Peak 4	6.25	6.22	6.28
PCB-1242 Peak 5	6.33	6.30	6.36
PCB-1268 Peak 1	10.19	10.16	10.22
PCB-1268 Peak 2	10.23	10.20	10.26
PCB-1268 Peak 3	10.45	10.42	10.48
PCB-1268 Peak 4	10.84	10.81	10.87
PCB-1268 Peak 5	11.13	11.10	11.16

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200037.D
Lims ID: RTC AR1242/1268
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 17:55:46 ALS Bottle#: 37 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-005
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:04 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:57:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	85788849	0.0500	0.0500	
2	3.595	3.595	0.000	67905971	0.0500	0.0500	
5 PCB-1242							
1	4.908	4.908	0.000	9796142	0.5000	0.4651	
1	5.427	5.427	0.000	19111911	0.5000	0.4802	
1	6.074	6.074	0.000	43177844	0.5000	0.6361	
1	6.250	6.250	0.000	17984416	0.5000	0.4959	
1	6.331	6.331	0.000	12001897	0.5000	0.4637	
		Average of Peak Amounts =				0.5082	
2	5.835	5.835	0.000	8340979	0.5000	0.4978	
2	6.430	6.430	0.000	16214384	0.5000	0.6066	
2	7.055	7.055	0.000	35985750	0.5000	0.5342	
2	7.236	7.236	0.000	13114358	0.5000	0.4960	
2	7.514	7.514	0.000	7043186	0.5000	0.5158	
		Average of Peak Amounts =				0.5301	
						RPD = 4.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.185	10.185	0.000	113385153	0.5000	0.5633	
1	10.229	10.229	0.000	114055070	0.5000	0.5030	
1	10.446	10.446	0.000	94803271	0.5000	0.5252	
1	10.835	10.835	0.000	38547006	0.5000	0.5363	
1	11.126	11.126	0.000	326753556	0.5000	0.5303	
		Average of Peak Amounts =				0.5316	
2	11.196	11.196	0.000	76176939	0.5000	0.5465	
2	11.241	11.241	0.000	74194794	0.5000	0.5357	
2	11.491	11.491	0.000	61280389	0.5000	0.5382	
2	11.765	11.765	0.000	25263130	0.5000	0.5145	
2	12.066	12.066	0.000	206516122	0.5000	0.5390	
		Average of Peak Amounts =				0.5348	
						RPD = 0.59	

Reagents:

SG4268@0.5PPM_00006 Amount Added: 1.00 Units: mL

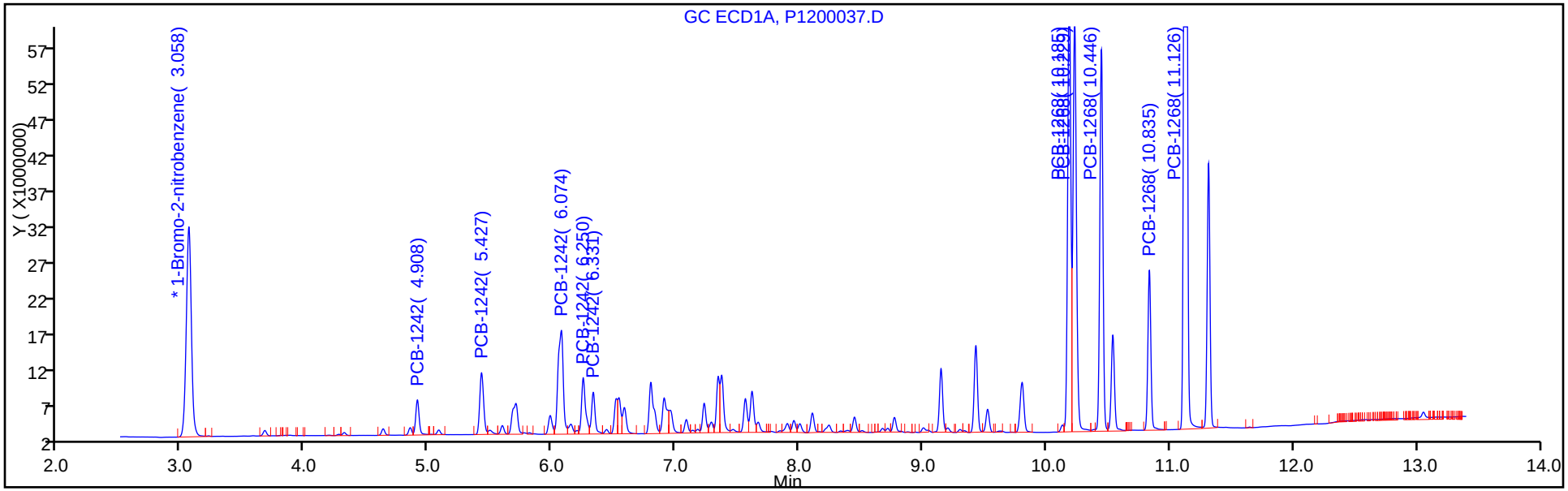
Report Date: 24-Apr-2015 10:24:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

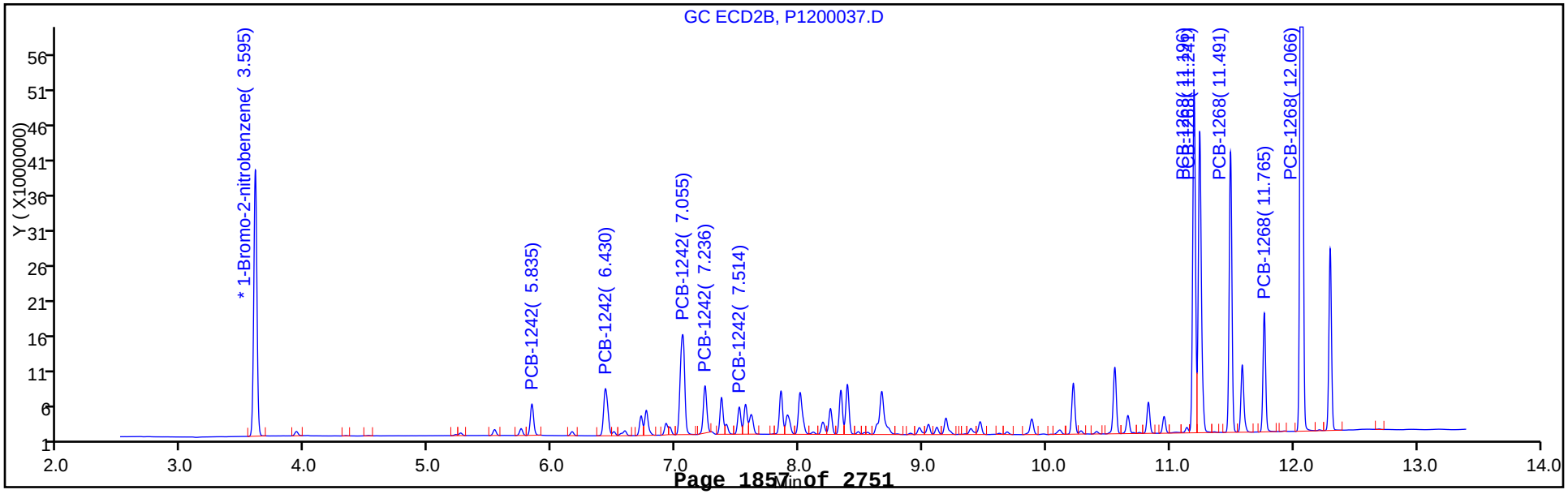
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200037.D

Injection Date:	23-Apr-2015 17:55:46	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1242/1268			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/5 Calibration Date: 04/23/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200037.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0123	0.0123		0.498	0.500	-0.4	20.0
PCB-1242 Peak 2	Ave	0.0197	0.0239		0.607	0.500	21.3*	20.0
PCB-1242 Peak 3	Ave	0.0496	0.0530		0.534	0.500	6.8	20.0
PCB-1242 Peak 4	Ave	0.0195	0.0193		0.496	0.500	-0.8	20.0
PCB-1242 Peak 5	Ave	0.0101	0.0104		0.516	0.500	3.2	20.0
PCB-1268 Peak 1	Ave	0.1026	0.1122		0.546	0.500	9.3	20.0
PCB-1268 Peak 2	Ave	0.1020	0.1093		0.536	0.500	7.1	20.0
PCB-1268 Peak 3	Ave	0.0838	0.0902		0.538	0.500	7.6	20.0
PCB-1268 Peak 4	Ave	0.0362	0.0372		0.515	0.500	2.9	20.0
PCB-1268 Peak 5	Ave	0.2821	0.3041		0.539	0.500	7.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/5 Calibration Date: 04/23/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200037.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	5.84	5.81	5.87
PCB-1242 Peak 2	6.43	6.40	6.46
PCB-1242 Peak 3	7.06	7.03	7.09
PCB-1242 Peak 4	7.24	7.21	7.27
PCB-1242 Peak 5	7.51	7.48	7.54
PCB-1268 Peak 1	11.20	11.17	11.23
PCB-1268 Peak 2	11.24	11.21	11.27
PCB-1268 Peak 3	11.49	11.46	11.52
PCB-1268 Peak 4	11.77	11.74	11.80
PCB-1268 Peak 5	12.07	12.04	12.10

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200037.D
Lims ID: RTC AR1242/1268
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 17:55:46 ALS Bottle#: 37 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-005
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:04 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:57:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	85788849	0.0500	0.0500	
2	3.595	3.595	0.000	67905971	0.0500	0.0500	
5 PCB-1242							
1	4.908	4.908	0.000	9796142	0.5000	0.4651	
1	5.427	5.427	0.000	19111911	0.5000	0.4802	
1	6.074	6.074	0.000	43177844	0.5000	0.6361	
1	6.250	6.250	0.000	17984416	0.5000	0.4959	
1	6.331	6.331	0.000	12001897	0.5000	0.4637	
		Average of Peak Amounts =				0.5082	
2	5.835	5.835	0.000	8340979	0.5000	0.4978	
2	6.430	6.430	0.000	16214384	0.5000	0.6066	
2	7.055	7.055	0.000	35985750	0.5000	0.5342	
2	7.236	7.236	0.000	13114358	0.5000	0.4960	
2	7.514	7.514	0.000	7043186	0.5000	0.5158	
		Average of Peak Amounts =				0.5301	
						RPD = 4.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.185	10.185	0.000	113385153	0.5000	0.5633	
1	10.229	10.229	0.000	114055070	0.5000	0.5030	
1	10.446	10.446	0.000	94803271	0.5000	0.5252	
1	10.835	10.835	0.000	38547006	0.5000	0.5363	
1	11.126	11.126	0.000	326753556	0.5000	0.5303	
		Average of Peak Amounts =				0.5316	
2	11.196	11.196	0.000	76176939	0.5000	0.5465	
2	11.241	11.241	0.000	74194794	0.5000	0.5357	
2	11.491	11.491	0.000	61280389	0.5000	0.5382	
2	11.765	11.765	0.000	25263130	0.5000	0.5145	
2	12.066	12.066	0.000	206516122	0.5000	0.5390	
		Average of Peak Amounts =				0.5348	
						RPD = 0.59	

Reagents:

SG4268@0.5PPM_00006 Amount Added: 1.00 Units: mL

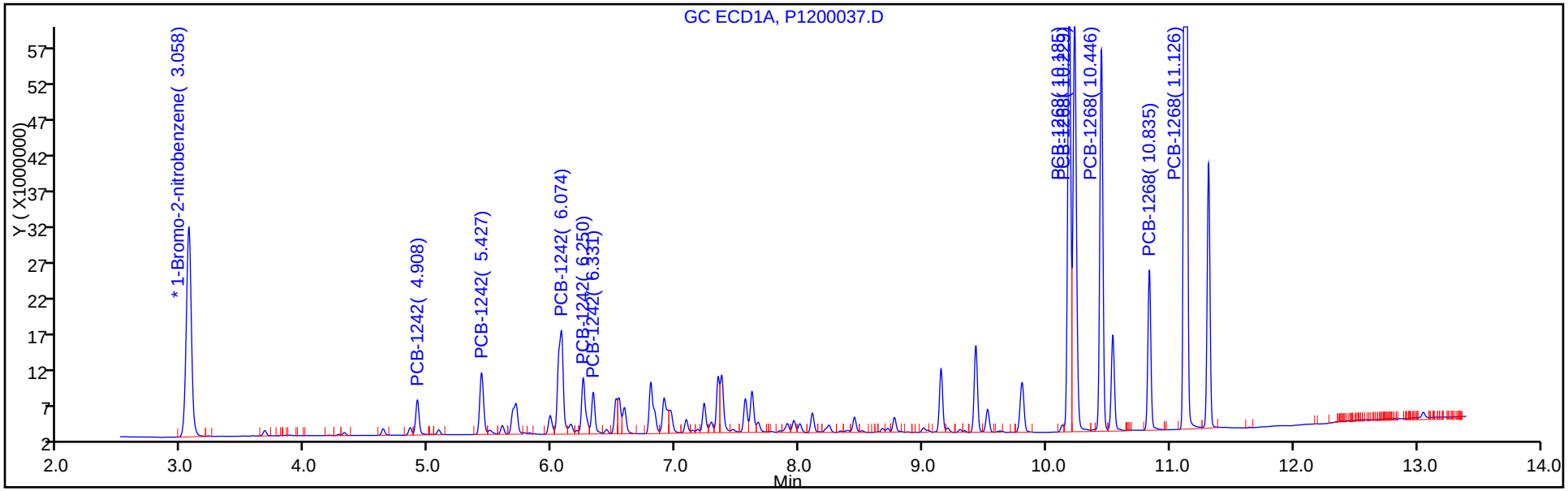
Report Date: 24-Apr-2015 10:24:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

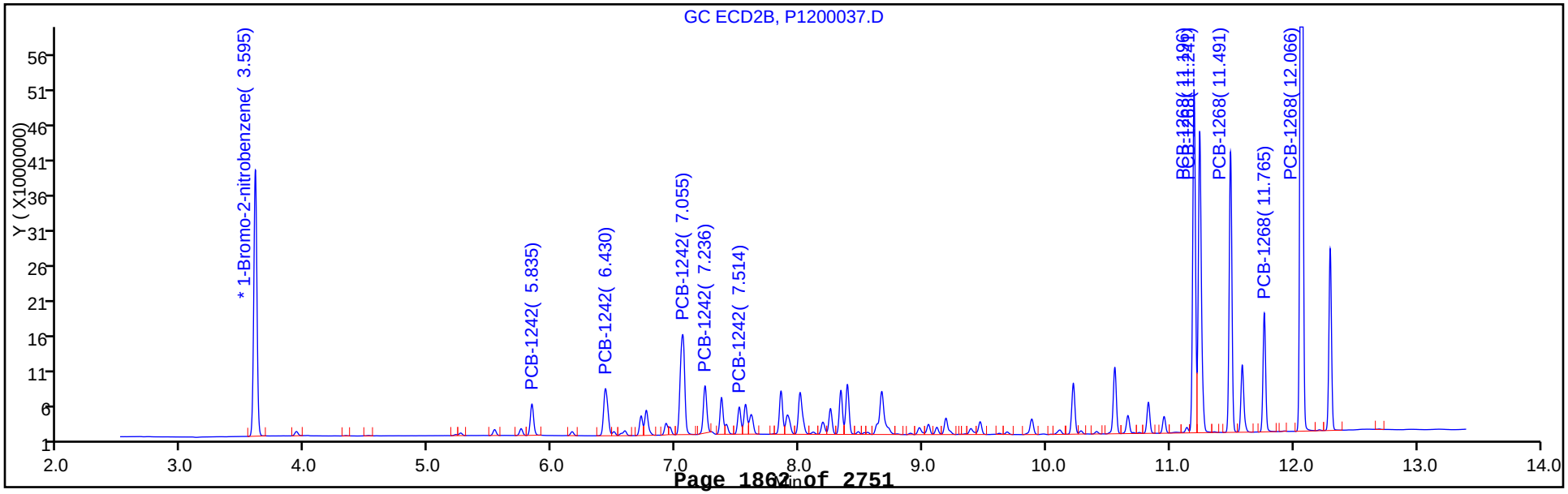
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200037.D

Injection Date:	23-Apr-2015 17:55:46	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1242/1268			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/6 Calibration Date: 04/23/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200038.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0114	0.0113		0.495	0.500	-1.0	20.0
PCB-1248 Peak 2	Ave	0.0359	0.0327		0.456	0.500	-8.8	20.0
PCB-1248 Peak 3	Ave	0.0330	0.0274		0.414	0.500	-17.1	20.0
PCB-1248 Peak 4	Ave	0.0271	0.0248		0.459	0.500	-8.3	20.0
PCB-1248 Peak 5	Ave	0.0186	0.0161		0.432	0.500	-13.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/6 Calibration Date: 04/23/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200038.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	5.43	5.40	5.46
PCB-1248 Peak 2	6.80	6.77	6.83
PCB-1248 Peak 3	7.37	7.34	7.40
PCB-1248 Peak 4	7.62	7.59	7.65
PCB-1248 Peak 5	8.11	8.08	8.14

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200038.D
Lims ID: RTC AR1248
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 18:13:48 ALS Bottle#: 38 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-006
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:06 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:59:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	88689981	0.0500	0.0500	
2	3.595	3.595	0.000	69571483	0.0500	0.0500	
7 PCB-1248							
1	5.426	5.426	0.000	10005966	0.5000	0.4950	
1	6.797	6.797	0.000	29030391	0.5000	0.4560	
1	7.371	7.371	0.000	24267882	0.5000	0.4144	
1	7.619	7.619	0.000	22011750	0.5000	0.4586	
1	8.106	8.106	0.000	14279177	0.5000	0.4318	
		Average of Peak Amounts =				0.4511	
2	7.052	7.052	0.000	23123234	0.5000	0.4732	
2	7.513	7.513	0.000	12807495	0.5000	0.4545	
2	8.005	8.005	0.000	20123648	0.5000	0.4009	
2	8.389	8.389	0.000	22514674	0.5000	0.4328	
2	9.187	9.187	0.000	12160718	0.5000	0.4151	
		Average of Peak Amounts =				0.4353	
						RPD = 3.58	

Reagents:

SG1248@0.5ppm_00017 Amount Added: 1.00 Units: mL

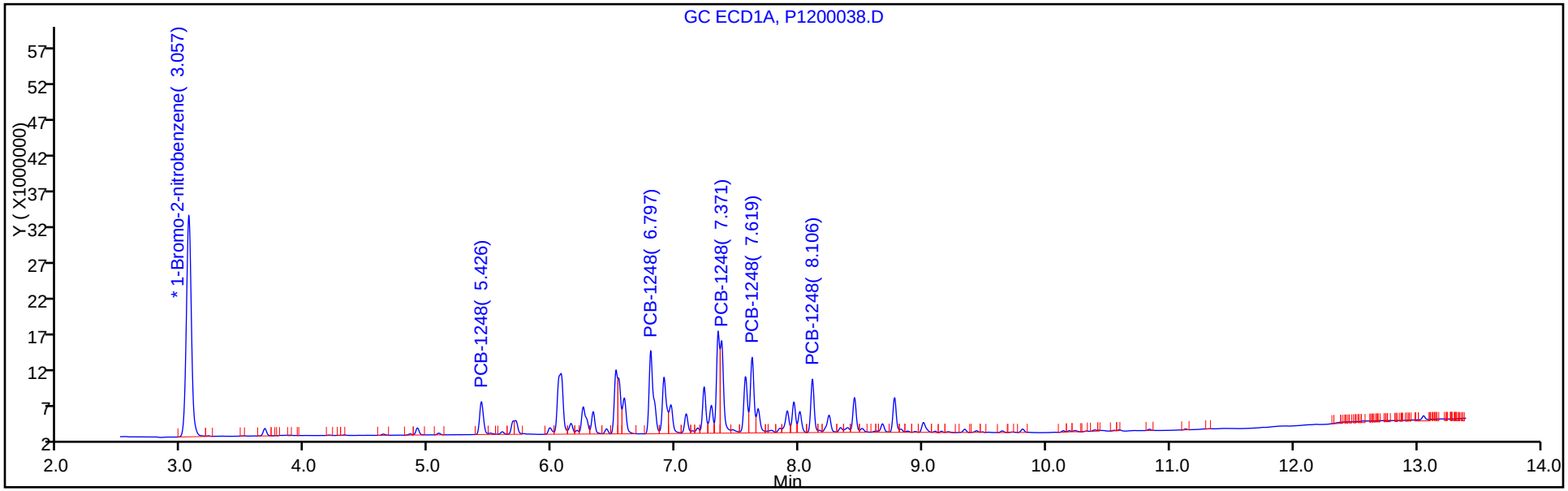
Report Date: 24-Apr-2015 10:24:06 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

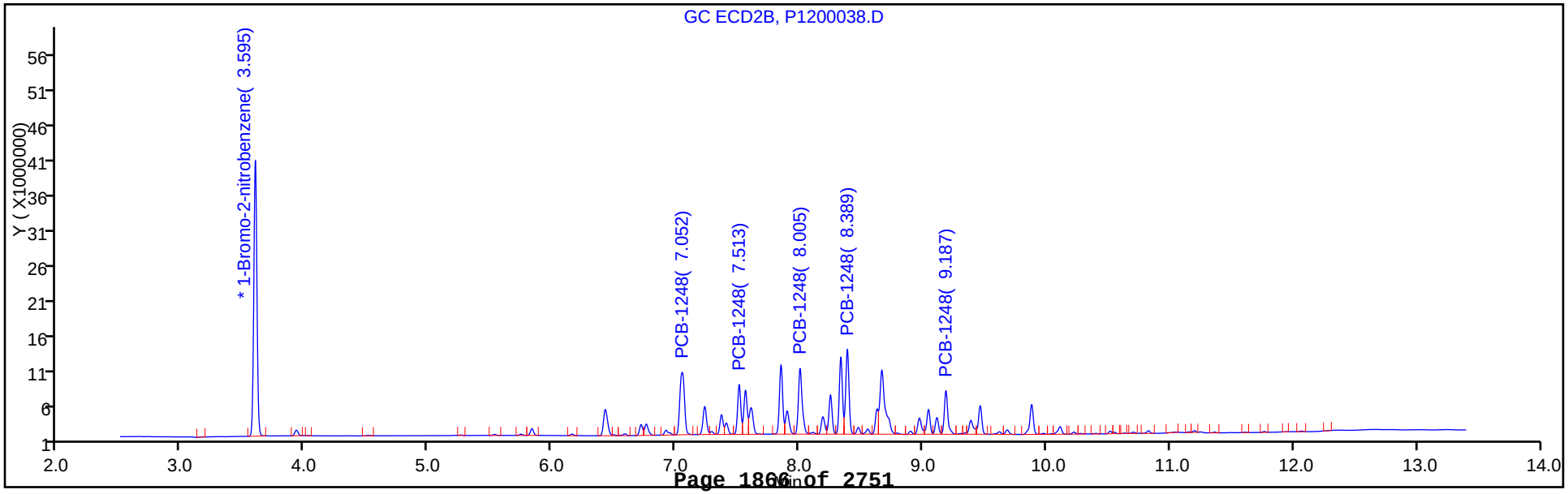
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200038.D

Injection Date:	23-Apr-2015 18:13:48	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1248			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/6 Calibration Date: 04/23/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200038.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0351	0.0332		0.473	0.500	-5.4	20.0
PCB-1248 Peak 2	Ave	0.0203	0.0184		0.454	0.500	-9.1	20.0
PCB-1248 Peak 3	Ave	0.0361	0.0289		0.401	0.500	-19.8	20.0
PCB-1248 Peak 4	Ave	0.0374	0.0324		0.433	0.500	-13.4	20.0
PCB-1248 Peak 5	Ave	0.0211	0.0175		0.415	0.500	-17.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/6 Calibration Date: 04/23/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200038.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	7.05	7.02	7.08
PCB-1248 Peak 2	7.51	7.48	7.54
PCB-1248 Peak 3	8.01	7.98	8.04
PCB-1248 Peak 4	8.39	8.36	8.42
PCB-1248 Peak 5	9.19	9.16	9.22

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200038.D
Lims ID: RTC AR1248
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 18:13:48 ALS Bottle#: 38 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-006
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:06 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:59:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	88689981	0.0500	0.0500	
2	3.595	3.595	0.000	69571483	0.0500	0.0500	
7 PCB-1248							
1	5.426	5.426	0.000	10005966	0.5000	0.4950	
1	6.797	6.797	0.000	29030391	0.5000	0.4560	
1	7.371	7.371	0.000	24267882	0.5000	0.4144	
1	7.619	7.619	0.000	22011750	0.5000	0.4586	
1	8.106	8.106	0.000	14279177	0.5000	0.4318	
		Average of Peak Amounts =				0.4511	
2	7.052	7.052	0.000	23123234	0.5000	0.4732	
2	7.513	7.513	0.000	12807495	0.5000	0.4545	
2	8.005	8.005	0.000	20123648	0.5000	0.4009	
2	8.389	8.389	0.000	22514674	0.5000	0.4328	
2	9.187	9.187	0.000	12160718	0.5000	0.4151	
		Average of Peak Amounts =				0.4353	
						RPD = 3.58	

Reagents:

SG1248@0.5ppm_00017 Amount Added: 1.00 Units: mL

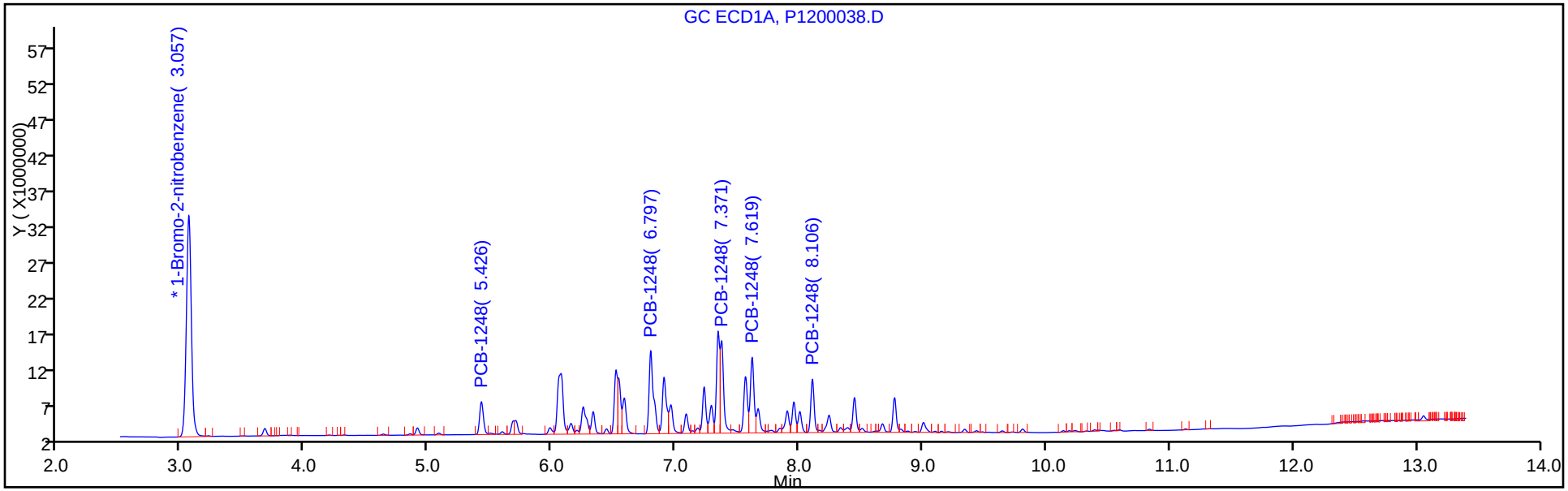
Report Date: 24-Apr-2015 10:24:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

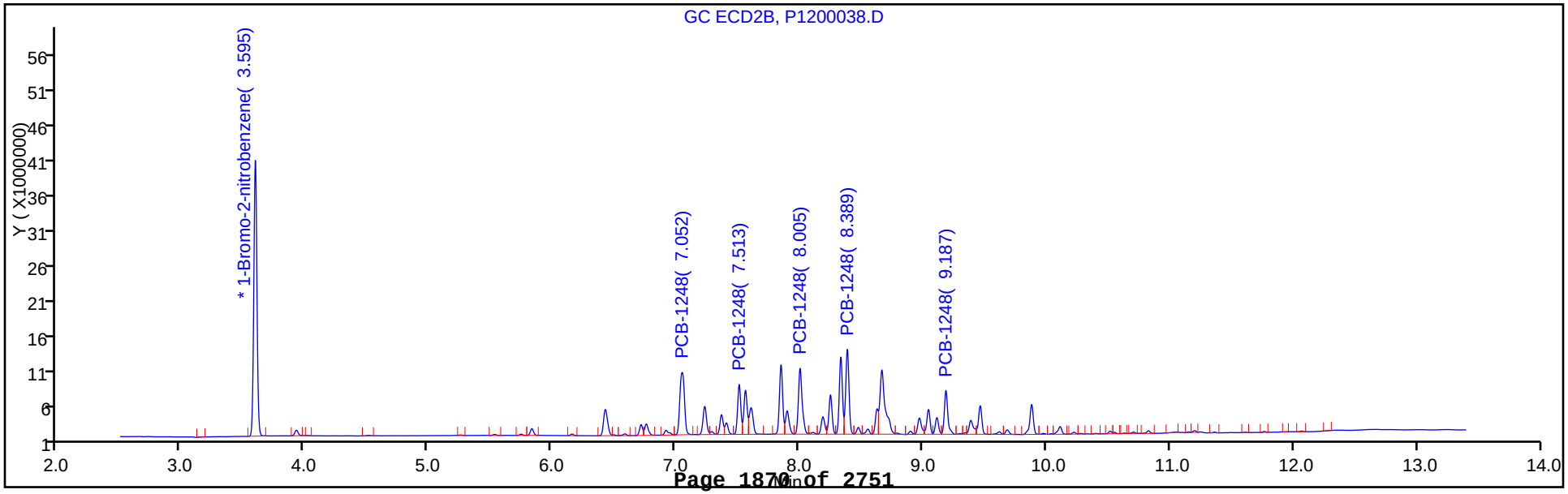
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200038.D

Injection Date:	23-Apr-2015 18:13:48	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1248			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/7 Calibration Date: 04/23/2015 18:31

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200039.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0087	0.0079		0.456	0.500	-8.9	20.0
PCB-1221 Peak 2	Ave	0.0053	0.0050		0.472	0.500	-5.6	20.0
PCB-1221 Peak 3	Ave	0.0203	0.0198		0.488	0.500	-2.3	20.0
PCB-1254 Peak 1	Ave	0.0276	0.0269		0.488	0.500	-2.4	20.0
PCB-1254 Peak 2	Ave	0.0397	0.0380		0.478	0.500	-4.3	20.0
PCB-1254 Peak 3	Ave	0.0585	0.0566		0.484	0.500	-3.3	20.0
PCB-1254 Peak 4	Ave	0.0424	0.0410		0.484	0.500	-3.2	20.0
PCB-1254 Peak 5	Ave	0.0599	0.0585		0.488	0.500	-2.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/7 Calibration Date: 04/23/2015 18:31

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200039.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	4.63	4.60	4.66
PCB-1221 Peak 2	4.85	4.82	4.88
PCB-1221 Peak 3	4.91	4.88	4.94
PCB-1254 Peak 1	7.29	7.26	7.32
PCB-1254 Peak 2	7.62	7.59	7.65
PCB-1254 Peak 3	8.11	8.08	8.14
PCB-1254 Peak 4	8.45	8.42	8.48
PCB-1254 Peak 5	9.01	8.98	9.04

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200039.D
Lims ID: RTC AR1221/1254
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 18:31:51 ALS Bottle#: 39 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-007
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:07 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:14:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	85974595	0.0500	0.0500	
2	3.596	3.596	0.000	67846022	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	6801069	0.5000	0.4555	
1	4.849	4.849	0.000	4335360	0.5000	0.4721	
1	4.906	4.906	0.000	17030838	0.5000	0.4883	
		Average of Peak Amounts =				0.4720	
2	5.532	5.532	0.000	5814436	0.5000	0.4581	
2	5.747	5.747	0.000	3942576	0.5000	0.4534	
2	5.834	5.834	0.000	14266625	0.5000	0.4414	
		Average of Peak Amounts =				0.4510	
						RPD = 4.55	
8 PCB-1254							
1	7.288	7.288	0.000	23156982	0.5000	0.4879	
1	7.622	7.622	0.000	32628188	0.5000	0.4783	
1	8.106	8.106	0.000	48674248	0.5000	0.4836	
1	8.447	8.447	0.000	35265519	0.5000	0.4839	
1	9.005	9.005	0.000	50273958	0.5000	0.4877	
		Average of Peak Amounts =				0.4843	
2	8.384	8.384	0.000	20713927	0.5000	0.4481	
2	8.628	8.628	0.000	23994943	0.5000	0.4564	
2	9.187	9.187	0.000	37616646	0.5000	0.4767	
2	9.464	9.464	0.000	26169460	0.5000	0.4797	
2	10.111	10.111	0.000	36384462	0.5000	0.4700	
		Average of Peak Amounts =				0.4662	
						RPD = 3.81	

Reagents:

SG2154@0.5PPM_00017 Amount Added: 1.00 Units: mL

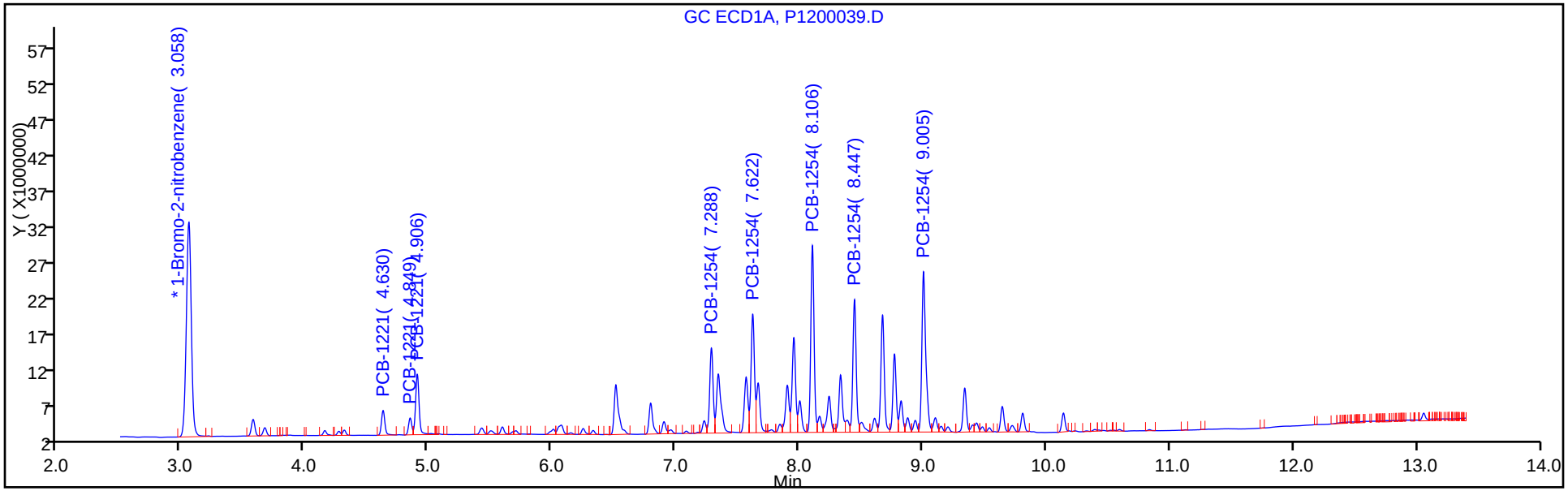
Report Date: 24-Apr-2015 10:24:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

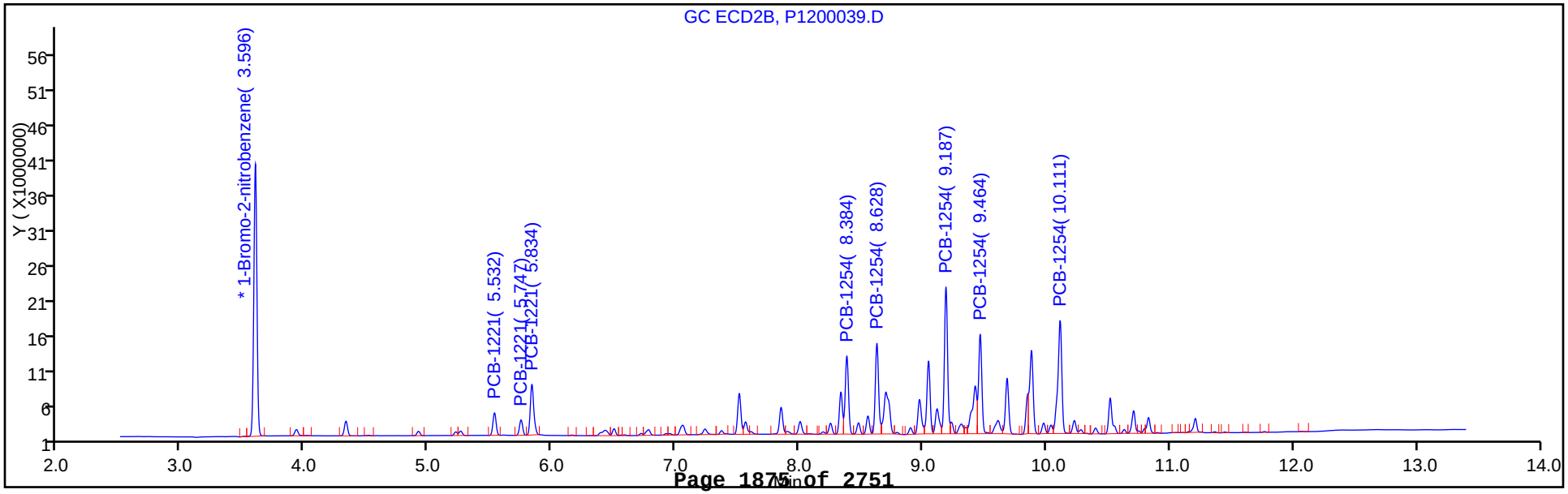
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200039.D

Injection Date:	23-Apr-2015 18:31:51	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1221/1254			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/7 Calibration Date: 04/23/2015 18:31

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200039.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0094	0.0086		0.458	0.500	-8.4	20.0
PCB-1221 Peak 2	Ave	0.0064	0.0058		0.453	0.500	-9.3	20.0
PCB-1221 Peak 3	Ave	0.0238	0.0210		0.441	0.500	-11.7	20.0
PCB-1254 Peak 1	Ave	0.0341	0.0305		0.448	0.500	-10.4	20.0
PCB-1254 Peak 2	Ave	0.0387	0.0354		0.456	0.500	-8.7	20.0
PCB-1254 Peak 3	Ave	0.0582	0.0554		0.477	0.500	-4.7	20.0
PCB-1254 Peak 4	Ave	0.0402	0.0386		0.480	0.500	-4.1	20.0
PCB-1254 Peak 5	Ave	0.0571	0.0536		0.470	0.500	-6.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177609/7 Calibration Date: 04/23/2015 18:31

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200039.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	5.53	5.50	5.56
PCB-1221 Peak 2	5.75	5.72	5.78
PCB-1221 Peak 3	5.83	5.80	5.86
PCB-1254 Peak 1	8.38	8.35	8.41
PCB-1254 Peak 2	8.63	8.60	8.66
PCB-1254 Peak 3	9.19	9.16	9.22
PCB-1254 Peak 4	9.46	9.43	9.49
PCB-1254 Peak 5	10.11	10.08	10.14

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200039.D
Lims ID: RTC AR1221/1254
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 18:31:51 ALS Bottle#: 39 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-007
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:07 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:14:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	85974595	0.0500	0.0500	
2	3.596	3.596	0.000	67846022	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	6801069	0.5000	0.4555	
1	4.849	4.849	0.000	4335360	0.5000	0.4721	
1	4.906	4.906	0.000	17030838	0.5000	0.4883	
		Average of Peak Amounts =				0.4720	
2	5.532	5.532	0.000	5814436	0.5000	0.4581	
2	5.747	5.747	0.000	3942576	0.5000	0.4534	
2	5.834	5.834	0.000	14266625	0.5000	0.4414	
		Average of Peak Amounts =				0.4510	
						RPD = 4.55	
8 PCB-1254							
1	7.288	7.288	0.000	23156982	0.5000	0.4879	
1	7.622	7.622	0.000	32628188	0.5000	0.4783	
1	8.106	8.106	0.000	48674248	0.5000	0.4836	
1	8.447	8.447	0.000	35265519	0.5000	0.4839	
1	9.005	9.005	0.000	50273958	0.5000	0.4877	
		Average of Peak Amounts =				0.4843	
2	8.384	8.384	0.000	20713927	0.5000	0.4481	
2	8.628	8.628	0.000	23994943	0.5000	0.4564	
2	9.187	9.187	0.000	37616646	0.5000	0.4767	
2	9.464	9.464	0.000	26169460	0.5000	0.4797	
2	10.111	10.111	0.000	36384462	0.5000	0.4700	
		Average of Peak Amounts =				0.4662	
						RPD = 3.81	

Reagents:

SG2154@0.5PPM_00017 Amount Added: 1.00 Units: mL

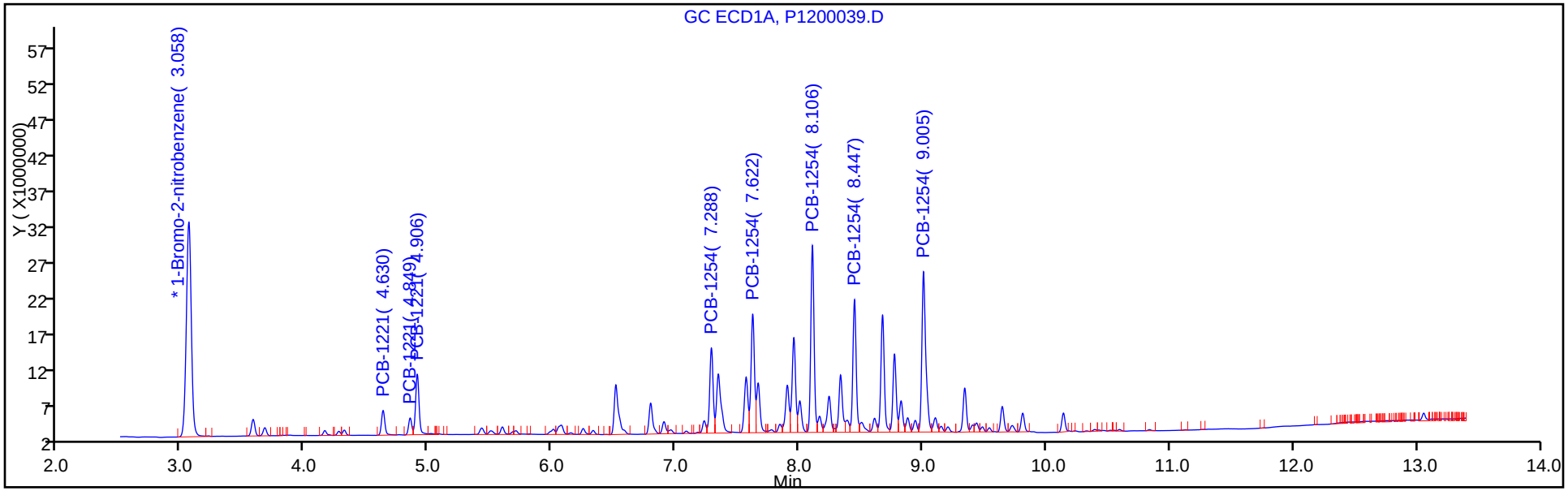
Report Date: 24-Apr-2015 10:24:08 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

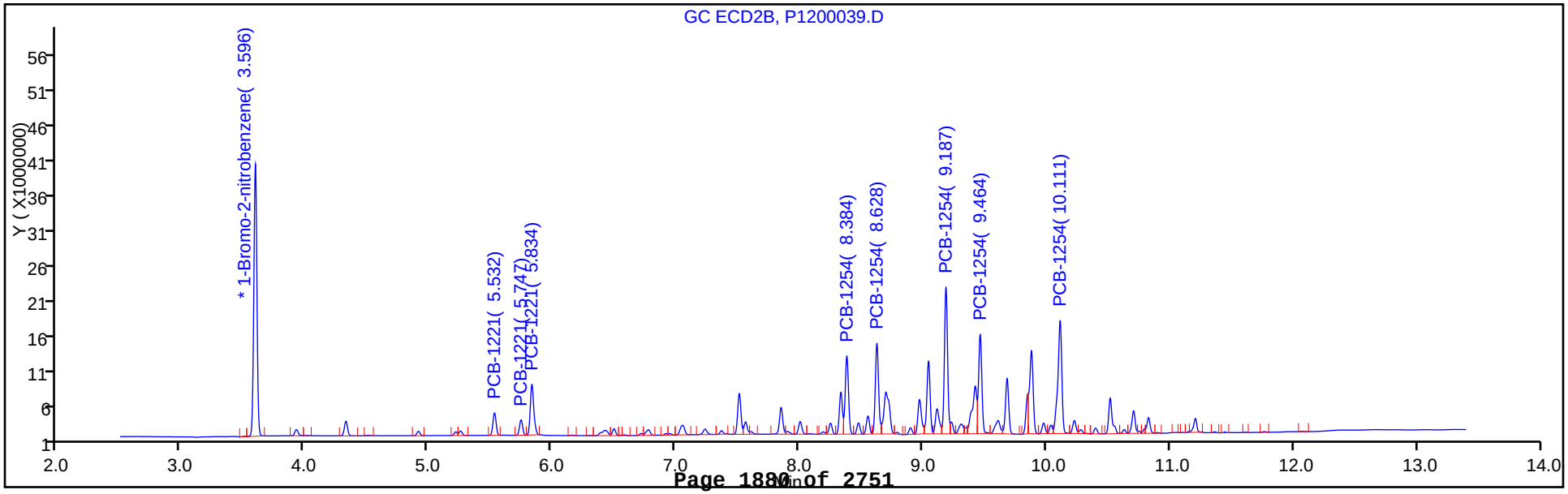
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200039.D

Injection Date:	23-Apr-2015 18:31:51	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1221/1254			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/16 Calibration Date: 04/23/2015 21:14

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0134	0.0141		0.528	0.500	5.6	20.0
PCB-1016 Peak 2	Ave	0.0267	0.0266		0.498	0.500	-0.4	20.0
PCB-1016 Peak 3	Ave	0.0450	0.0579		0.643	0.500	28.7*	20.0
PCB-1016 Peak 4	Ave	0.0272	0.0252		0.464	0.500	-7.1	20.0
PCB-1016 Peak 5	Ave	0.0192	0.0168		0.438	0.500	-12.3	20.0
PCB-1260 Peak 1	Ave	0.0401	0.0389		0.485	0.500	-3.0	20.0
PCB-1260 Peak 2	Ave	0.0626	0.0632		0.504	0.500	0.9	20.0
PCB-1260 Peak 3	Ave	0.0703	0.0691		0.491	0.500	-1.7	20.0
PCB-1260 Peak 4	Ave	0.0914	0.0953		0.521	0.500	4.2	20.0
PCB-1260 Peak 5	Ave	0.0453	0.0478		0.528	0.500	5.5	20.0
Tetrachloro-m-xylene	Ave	0.8467	0.8384		0.0248	0.0250	-1.0	20.0
DCB Decachlorobiphenyl	Ave	0.8958	0.7765		0.0217	0.0250	-13.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/16 Calibration Date: 04/23/2015 21:14

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.91	4.88	4.94
PCB-1016 Peak 2	5.43	5.40	5.46
PCB-1016 Peak 3	6.08	6.05	6.11
PCB-1016 Peak 4	6.25	6.22	6.28
PCB-1016 Peak 5	6.33	6.30	6.36
PCB-1260 Peak 1	8.34	8.31	8.37
PCB-1260 Peak 2	8.68	8.65	8.71
PCB-1260 Peak 3	9.01	8.98	9.04
PCB-1260 Peak 4	9.81	9.78	9.84
PCB-1260 Peak 5	10.14	10.11	10.17
Tetrachloro-m-xylene	4.32	4.29	4.35
DCB Decachlorobiphenyl	11.31	11.28	11.34

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200048.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 21:14:52 ALS Bottle#: 48 Worklist Smp#: 16
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-016
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:21 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:51:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.059	0.000	87543112	0.0500	0.0500	
2	3.595	3.595	0.000	67782080	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.320	0.000	36698279	0.0250	0.0248	
2	5.027	5.027	0.000	29023179	0.0250	0.0241	
						RPD = 2.50	
6 PCB-1016							
1	4.907	4.907	0.000	12350592	0.5000	0.5279	
1	5.428	5.428	0.000	23263936	0.5000	0.4980	
1	6.075	6.075	0.000	50725509	0.5000	0.6434	
1	6.250	6.250	0.000	22080993	0.5000	0.4644	
1	6.332	6.332	0.000	14744360	0.5000	0.4384	
		Average of Peak Amounts =				0.5144	
2	5.835	5.835	0.000	10144838	0.5000	0.4833	
2	6.430	6.430	0.000	19481027	0.5000	0.6139	
2	7.056	7.056	0.000	44216014	0.5000	0.5057	
2	7.236	7.236	0.000	16402792	0.5000	0.4683	
2	7.514	7.514	0.000	8634646	0.5000	0.4775	
		Average of Peak Amounts =				0.5097	
						RPD = 0.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.335	8.335	0.000	34060635	0.5000	0.4851	
1	8.675	8.675	0.000	55281176	0.5000	0.5044	
1	9.005	9.005	0.000	60467304	0.5000	0.4915	
1	9.808	9.808	0.000	83397316	0.5000	0.5211	
1	10.137	10.137	0.000	41882683	0.5000	0.5277	
		Average of Peak Amounts =				0.5060	
2	9.425	9.425	0.000	26982126	0.5000	0.4887	
2	9.681	9.681	0.000	31071128	0.5000	0.5013	
2	10.109	10.109	0.000	44255146	0.5000	0.5021	
2	10.826	10.826	0.000	59429774	0.5000	0.5213	
2	11.202	11.202	0.000	40715801	0.5000	0.5102	
		Average of Peak Amounts =				0.5047	
						RPD = 0.25	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.313	0.000	33988709	0.0250	0.0217	
2	12.299	12.299	0.000	22630211	0.0250	0.0221	
						RPD = 2.12	
16 1260 Res 1							
1	10.137	10.137	0.000	41882683	NR	NR	
2	9.681	9.681	0.000	31071128	NR	NR	
13 1260 Res 2							
1		10.185			ND	ND	
2		9.778					
15 1260 Res 3							
1		10.235			ND	ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

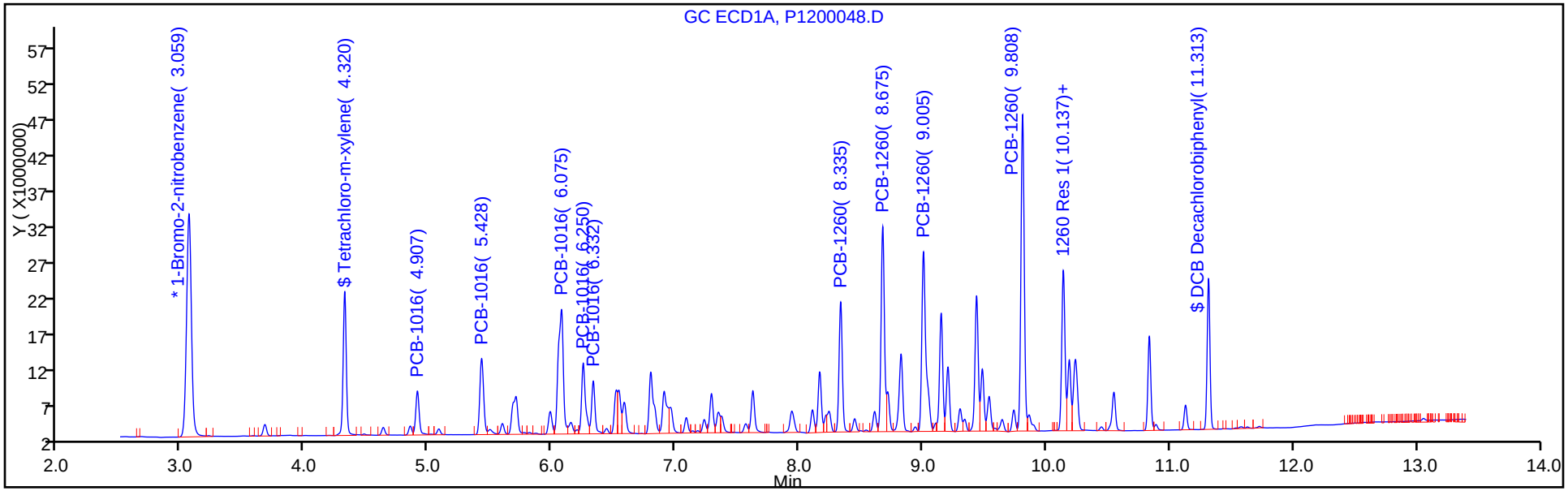
Report Date: 24-Apr-2015 10:24:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

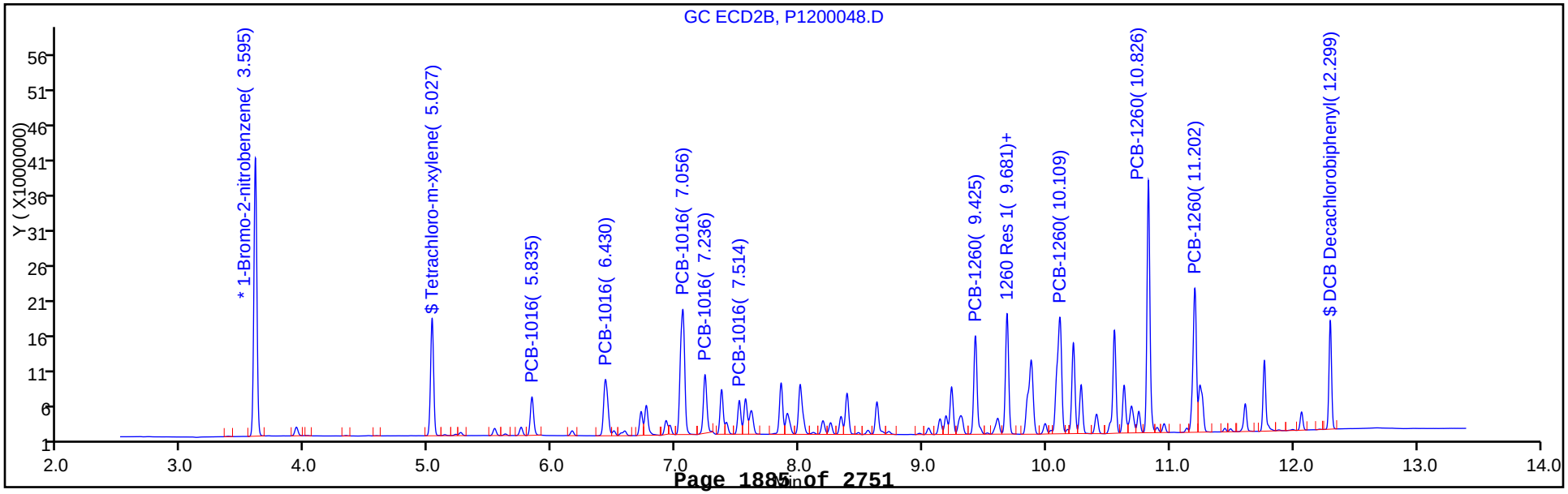
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200048.D

Injection Date:	23-Apr-2015 21:14:52	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/16 Calibration Date: 04/23/2015 21:14

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200048.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0155	0.0150		0.483	0.500	-3.3	20.0
PCB-1016 Peak 2	Ave	0.0234	0.0287		0.614	0.500	22.8*	20.0
PCB-1016 Peak 3	Ave	0.0645	0.0652		0.506	0.500	1.1	20.0
PCB-1016 Peak 4	Ave	0.0258	0.0242		0.468	0.500	-6.3	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0127		0.478	0.500	-4.5	20.0
PCB-1260 Peak 1	Ave	0.0407	0.0398		0.489	0.500	-2.3	20.0
PCB-1260 Peak 2	Ave	0.0457	0.0458		0.501	0.500	0.3	20.0
PCB-1260 Peak 3	Ave	0.0650	0.0653		0.502	0.500	0.4	20.0
PCB-1260 Peak 4	Ave	0.0841	0.0877		0.521	0.500	4.3	20.0
PCB-1260 Peak 5	Ave	0.0589	0.0601		0.510	0.500	2.0	20.0
Tetrachloro-m-xylene	Ave	0.8867	0.8564		0.0241	0.0250	-3.4	20.0
DCB Decachlorobiphenyl	Ave	0.7541	0.6677		0.0221	0.0250	-11.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177609/16 Calibration Date: 04/23/2015 21:14

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200048.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.84	5.81	5.87
PCB-1016 Peak 2	6.43	6.40	6.46
PCB-1016 Peak 3	7.06	7.03	7.09
PCB-1016 Peak 4	7.24	7.21	7.27
PCB-1016 Peak 5	7.51	7.48	7.54
PCB-1260 Peak 1	9.43	9.40	9.46
PCB-1260 Peak 2	9.68	9.65	9.71
PCB-1260 Peak 3	10.11	10.08	10.14
PCB-1260 Peak 4	10.83	10.80	10.86
PCB-1260 Peak 5	11.20	11.17	11.23
Tetrachloro-m-xylene	5.03	5.00	5.06
DCB Decachlorobiphenyl	12.30	12.27	12.33

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200048.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCV
Inject. Date: 23-Apr-2015 21:14:52 ALS Bottle#: 48 Worklist Smp#: 16
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-016
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:21 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 08:51:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.059	3.059	0.000	87543112	0.0500	0.0500	
2	3.595	3.595	0.000	67782080	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.320	4.320	0.000	36698279	0.0250	0.0248	
2	5.027	5.027	0.000	29023179	0.0250	0.0241	
						RPD = 2.50	
6 PCB-1016							
1	4.907	4.907	0.000	12350592	0.5000	0.5279	
1	5.428	5.428	0.000	23263936	0.5000	0.4980	
1	6.075	6.075	0.000	50725509	0.5000	0.6434	
1	6.250	6.250	0.000	22080993	0.5000	0.4644	
1	6.332	6.332	0.000	14744360	0.5000	0.4384	
		Average of Peak Amounts =				0.5144	
2	5.835	5.835	0.000	10144838	0.5000	0.4833	
2	6.430	6.430	0.000	19481027	0.5000	0.6139	
2	7.056	7.056	0.000	44216014	0.5000	0.5057	
2	7.236	7.236	0.000	16402792	0.5000	0.4683	
2	7.514	7.514	0.000	8634646	0.5000	0.4775	
		Average of Peak Amounts =				0.5097	
						RPD = 0.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.335	8.335	0.000	34060635	0.5000	0.4851	
1	8.675	8.675	0.000	55281176	0.5000	0.5044	
1	9.005	9.005	0.000	60467304	0.5000	0.4915	
1	9.808	9.808	0.000	83397316	0.5000	0.5211	
1	10.137	10.137	0.000	41882683	0.5000	0.5277	
		Average of Peak Amounts =				0.5060	
2	9.425	9.425	0.000	26982126	0.5000	0.4887	
2	9.681	9.681	0.000	31071128	0.5000	0.5013	
2	10.109	10.109	0.000	44255146	0.5000	0.5021	
2	10.826	10.826	0.000	59429774	0.5000	0.5213	
2	11.202	11.202	0.000	40715801	0.5000	0.5102	
		Average of Peak Amounts =				0.5047	
						RPD = 0.25	
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.313	0.000	33988709	0.0250	0.0217	
2	12.299	12.299	0.000	22630211	0.0250	0.0221	
						RPD = 2.12	
16 1260 Res 1							
1	10.137	10.137	0.000	41882683	NR	NR	
2	9.681	9.681	0.000	31071128	NR	NR	
13 1260 Res 2							
1		10.185			ND	ND	
2		9.778					
15 1260 Res 3							
1		10.235			ND	ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

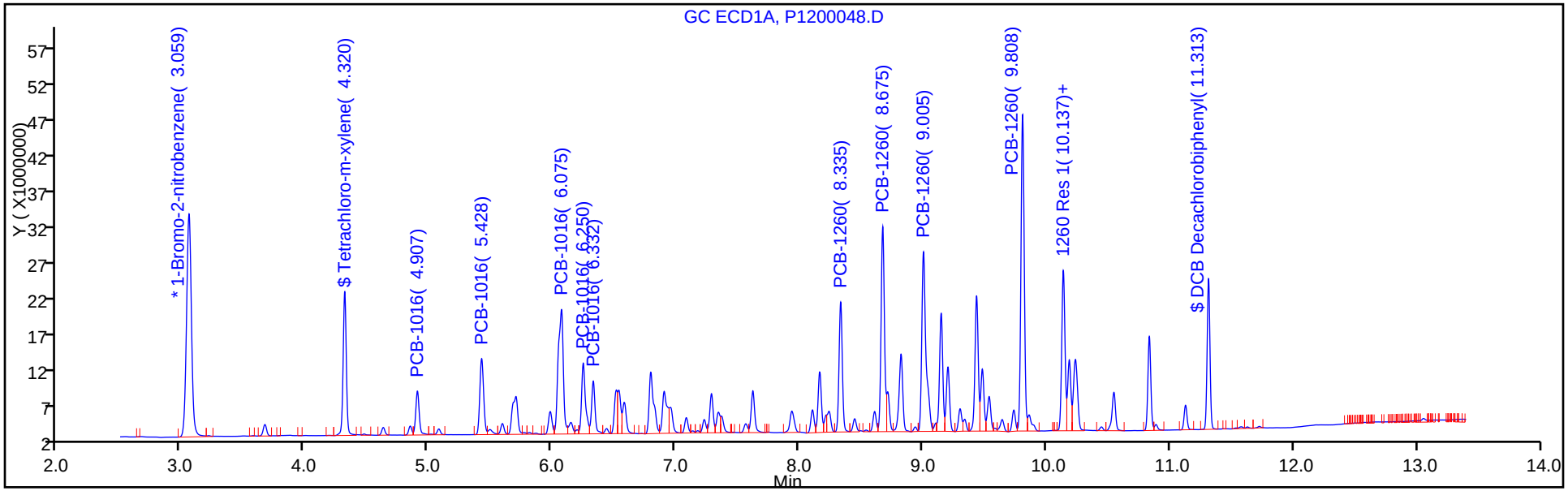
Report Date: 24-Apr-2015 10:24:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

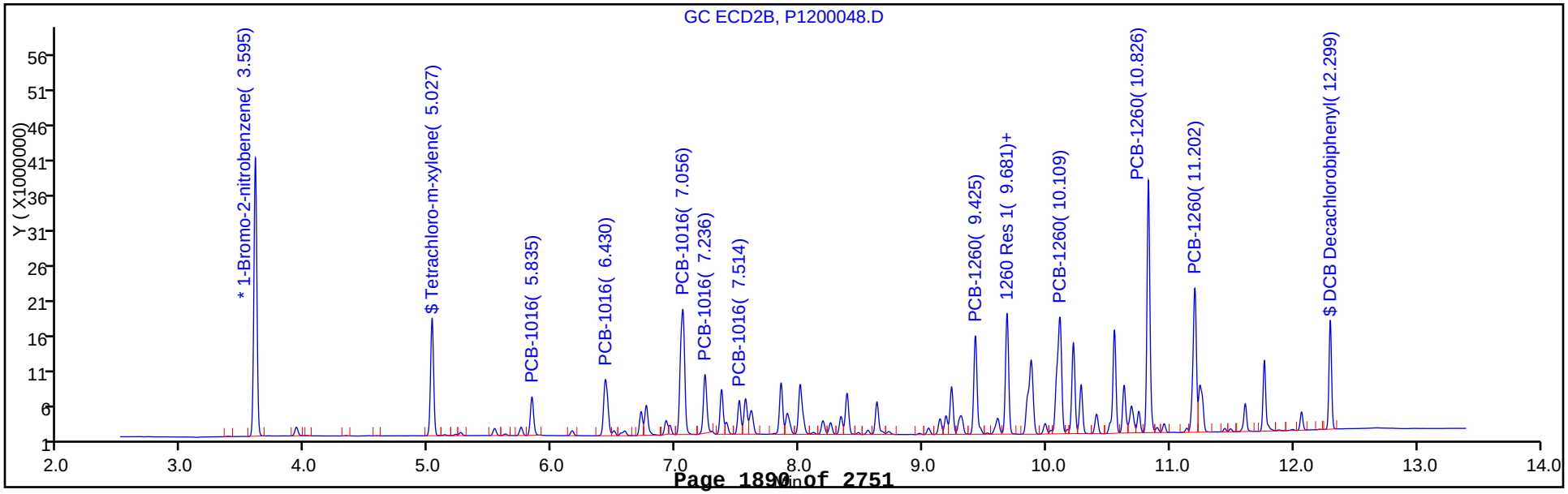
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200048.D

Injection Date:	23-Apr-2015 21:14:52	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/3 Calibration Date: 04/24/2015 17:01

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200032.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0134	0.0142		0.531	0.500	6.3	20.0
PCB-1016 Peak 2	Ave	0.0267	0.0271		0.508	0.500	1.7	20.0
PCB-1016 Peak 3	Ave	0.0450	0.0601		0.668	0.500	33.5*	20.0
PCB-1016 Peak 4	Ave	0.0272	0.0253		0.466	0.500	-6.9	20.0
PCB-1016 Peak 5	Ave	0.0192	0.0168		0.438	0.500	-12.3	20.0
PCB-1260 Peak 1	Ave	0.0401	0.0405		0.505	0.500	0.9	20.0
PCB-1260 Peak 2	Ave	0.0626	0.0649		0.519	0.500	3.7	20.0
PCB-1260 Peak 3	Ave	0.0703	0.0719		0.511	0.500	2.3	20.0
PCB-1260 Peak 4	Ave	0.0914	0.0985		0.539	0.500	7.8	20.0
PCB-1260 Peak 5	Ave	0.0453	0.0488		0.538	0.500	7.6	20.0
Tetrachloro-m-xylene	Ave	0.8467	0.8561		0.0253	0.0250	1.1	20.0
DCB Decachlorobiphenyl	Ave	0.8958	0.8523		0.0238	0.0250	-4.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/3 Calibration Date: 04/24/2015 17:01

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200032.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.91	4.88	4.94
PCB-1016 Peak 2	5.43	5.40	5.46
PCB-1016 Peak 3	6.07	6.04	6.10
PCB-1016 Peak 4	6.25	6.22	6.28
PCB-1016 Peak 5	6.33	6.30	6.36
PCB-1260 Peak 1	8.33	8.30	8.36
PCB-1260 Peak 2	8.67	8.64	8.70
PCB-1260 Peak 3	9.00	8.97	9.03
PCB-1260 Peak 4	9.81	9.78	9.84
PCB-1260 Peak 5	10.14	10.11	10.17
Tetrachloro-m-xylene	4.32	4.29	4.35
DCB Decachlorobiphenyl	11.31	11.28	11.34

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200032.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Apr-2015 17:01:30 ALS Bottle#: 32 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-003
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:54:51 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:33:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.056	0.000	82731995	0.0500	0.0500	
2	3.595	3.595	0.000	65114592	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	35412601	0.0250	0.0253	
2	5.025	5.025	0.000	28223712	0.0250	0.0244	
						RPD = 3.36	
6 PCB-1016							
1	4.906	4.906	0.000	11747330	0.5000	0.5313	
1	5.425	5.425	0.000	22438045	0.5000	0.5083	
1	6.072	6.072	0.000	49738464	0.5000	0.6676	
1	6.249	6.249	0.000	20921870	0.5000	0.4656	
1	6.330	6.330	0.000	13929928	0.5000	0.4383	
		Average of Peak Amounts =				0.5222	
2	5.834	5.834	0.000	9807681	0.5000	0.4864	
2	6.429	6.429	0.000	19064161	0.5000	0.6253	
2	7.054	7.054	0.000	42697427	0.5000	0.5083	
2	7.234	7.234	0.000	17375105	0.5000	0.5164	
2	7.512	7.512	0.000	8377469	0.5000	0.4823	
		Average of Peak Amounts =				0.5237	
						RPD = 0.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	33479930	0.5000	0.5045	
1	8.674	8.674	0.000	53721467	0.5000	0.5187	
1	9.003	9.003	0.000	59462232	0.5000	0.5114	
1	9.806	9.806	0.000	81526587	0.5000	0.5391	
1	10.136	10.136	0.000	40333042	0.5000	0.5378	
		Average of Peak Amounts =				0.5223	
2	9.424	9.424	0.000	26031162	0.5000	0.4908	
2	9.680	9.680	0.000	30076956	0.5000	0.5051	
2	10.107	10.107	0.000	42667552	0.5000	0.5039	
2	10.824	10.824	0.000	57844006	0.5000	0.5282	
2	11.200	11.200	0.000	39829413	0.5000	0.5195	
		Average of Peak Amounts =				0.5095	
						RPD = 2.48	
$ 12 DCB Decachlorobiphenyl							
1	11.311	11.311	0.000	35254693	0.0250	0.0238	
2	12.296	12.296	0.000	22418295	0.0250	0.0228	
						RPD = 4.12	
16 1260 Res 1							
1	10.136	10.136	0.000	40333042	NR	NR	
2	9.680	9.680	0.000	30076956	NR	NR	
13 1260 Res 2							
1	10.184	10.184	0.000	18228619	NR	NR	a
2	9.778	9.778	0.000	0	NR	NR	
15 1260 Res 3							
1	10.232	10.232	0.000	23234223	NR	NR	a
2	9.798	9.798	0.000	0	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

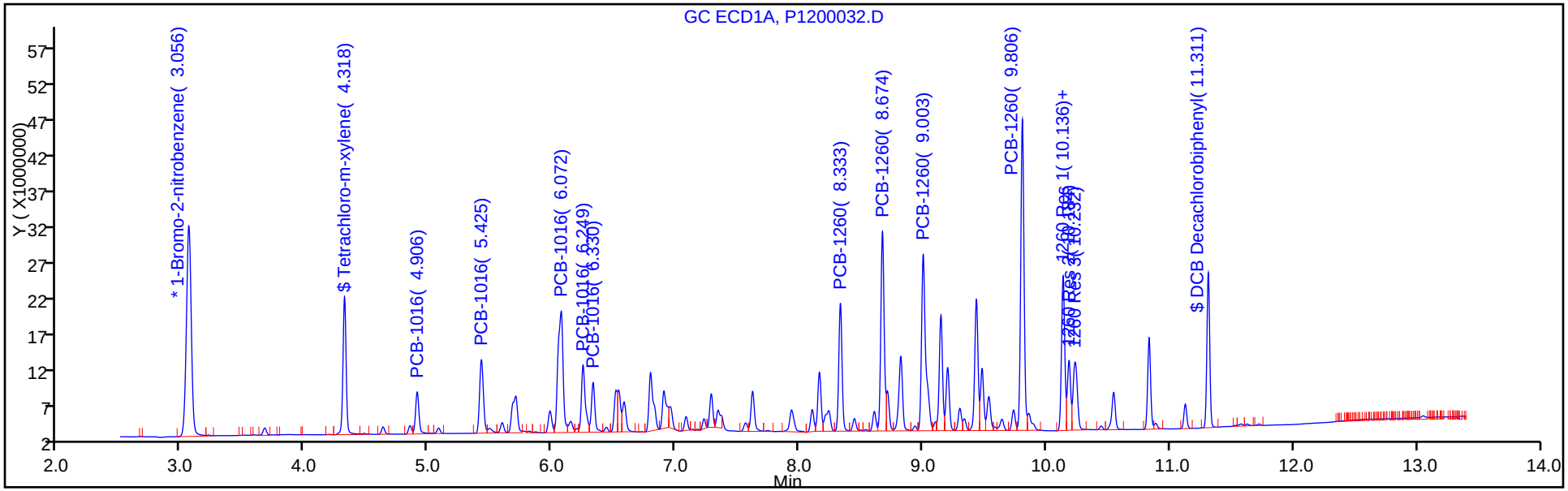
Report Date: 26-Apr-2015 19:54:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

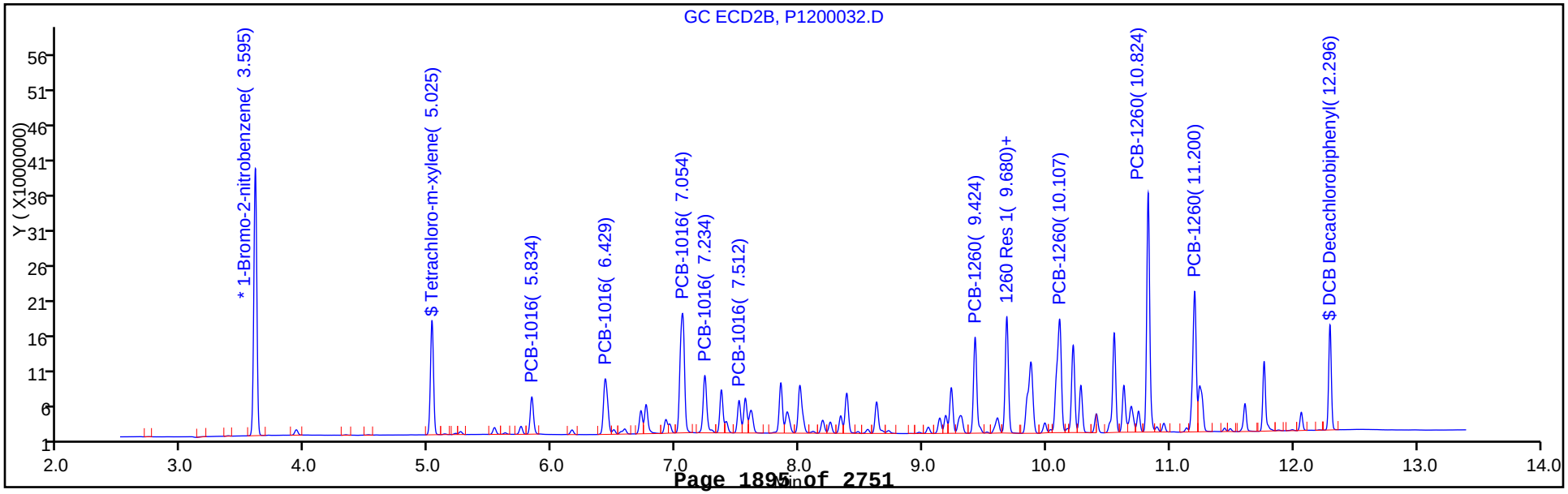
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200032.D

Injection Date:	24-Apr-2015 17:01:30	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/3 Calibration Date: 04/24/2015 17:01

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200032.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0155	0.0151		0.486	0.500	-2.7	20.0
PCB-1016 Peak 2	Ave	0.0234	0.0293		0.625	0.500	25.1*	20.0
PCB-1016 Peak 3	Ave	0.0645	0.0656		0.508	0.500	1.7	20.0
PCB-1016 Peak 4	Ave	0.0258	0.0267		0.516	0.500	3.3	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0129		0.482	0.500	-3.5	20.0
PCB-1260 Peak 1	Ave	0.0407	0.0400		0.491	0.500	-1.8	20.0
PCB-1260 Peak 2	Ave	0.0457	0.0462		0.505	0.500	1.0	20.0
PCB-1260 Peak 3	Ave	0.0650	0.0655		0.504	0.500	0.8	20.0
PCB-1260 Peak 4	Ave	0.0841	0.0888		0.528	0.500	5.6	20.0
PCB-1260 Peak 5	Ave	0.0589	0.0612		0.520	0.500	3.9	20.0
Tetrachloro-m-xylene	Ave	0.8867	0.8669		0.0244	0.0250	-2.2	20.0
DCB Decachlorobiphenyl	Ave	0.7541	0.6886		0.0228	0.0250	-8.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/3 Calibration Date: 04/24/2015 17:01

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200032.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.83	5.80	5.86
PCB-1016 Peak 2	6.43	6.40	6.46
PCB-1016 Peak 3	7.05	7.02	7.08
PCB-1016 Peak 4	7.23	7.20	7.26
PCB-1016 Peak 5	7.51	7.48	7.54
PCB-1260 Peak 1	9.42	9.39	9.45
PCB-1260 Peak 2	9.68	9.65	9.71
PCB-1260 Peak 3	10.11	10.08	10.14
PCB-1260 Peak 4	10.82	10.79	10.85
PCB-1260 Peak 5	11.20	11.17	11.23
Tetrachloro-m-xylene	5.03	5.00	5.06
DCB Decachlorobiphenyl	12.30	12.27	12.33

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200032.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Apr-2015 17:01:30 ALS Bottle#: 32 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-003
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:54:51 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:33:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.056	0.000	82731995	0.0500	0.0500	
2	3.595	3.595	0.000	65114592	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	35412601	0.0250	0.0253	
2	5.025	5.025	0.000	28223712	0.0250	0.0244	
						RPD = 3.36	
6 PCB-1016							
1	4.906	4.906	0.000	11747330	0.5000	0.5313	
1	5.425	5.425	0.000	22438045	0.5000	0.5083	
1	6.072	6.072	0.000	49738464	0.5000	0.6676	
1	6.249	6.249	0.000	20921870	0.5000	0.4656	
1	6.330	6.330	0.000	13929928	0.5000	0.4383	
		Average of Peak Amounts =				0.5222	
2	5.834	5.834	0.000	9807681	0.5000	0.4864	
2	6.429	6.429	0.000	19064161	0.5000	0.6253	
2	7.054	7.054	0.000	42697427	0.5000	0.5083	
2	7.234	7.234	0.000	17375105	0.5000	0.5164	
2	7.512	7.512	0.000	8377469	0.5000	0.4823	
		Average of Peak Amounts =				0.5237	
						RPD = 0.29	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	33479930	0.5000	0.5045	
1	8.674	8.674	0.000	53721467	0.5000	0.5187	
1	9.003	9.003	0.000	59462232	0.5000	0.5114	
1	9.806	9.806	0.000	81526587	0.5000	0.5391	
1	10.136	10.136	0.000	40333042	0.5000	0.5378	
		Average of Peak Amounts =				0.5223	
2	9.424	9.424	0.000	26031162	0.5000	0.4908	
2	9.680	9.680	0.000	30076956	0.5000	0.5051	
2	10.107	10.107	0.000	42667552	0.5000	0.5039	
2	10.824	10.824	0.000	57844006	0.5000	0.5282	
2	11.200	11.200	0.000	39829413	0.5000	0.5195	
		Average of Peak Amounts =				0.5095	
						RPD = 2.48	
$ 12 DCB Decachlorobiphenyl							
1	11.311	11.311	0.000	35254693	0.0250	0.0238	
2	12.296	12.296	0.000	22418295	0.0250	0.0228	
						RPD = 4.12	
16 1260 Res 1							
1	10.136	10.136	0.000	40333042	NR	NR	
2	9.680	9.680	0.000	30076956	NR	NR	
13 1260 Res 2							
1	10.184	10.184	0.000	18228619	NR	NR	a
2	9.778	9.778	0.000	0	NR	NR	
15 1260 Res 3							
1	10.232	10.232	0.000	23234223	NR	NR	a
2	9.798	9.798	0.000	0	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

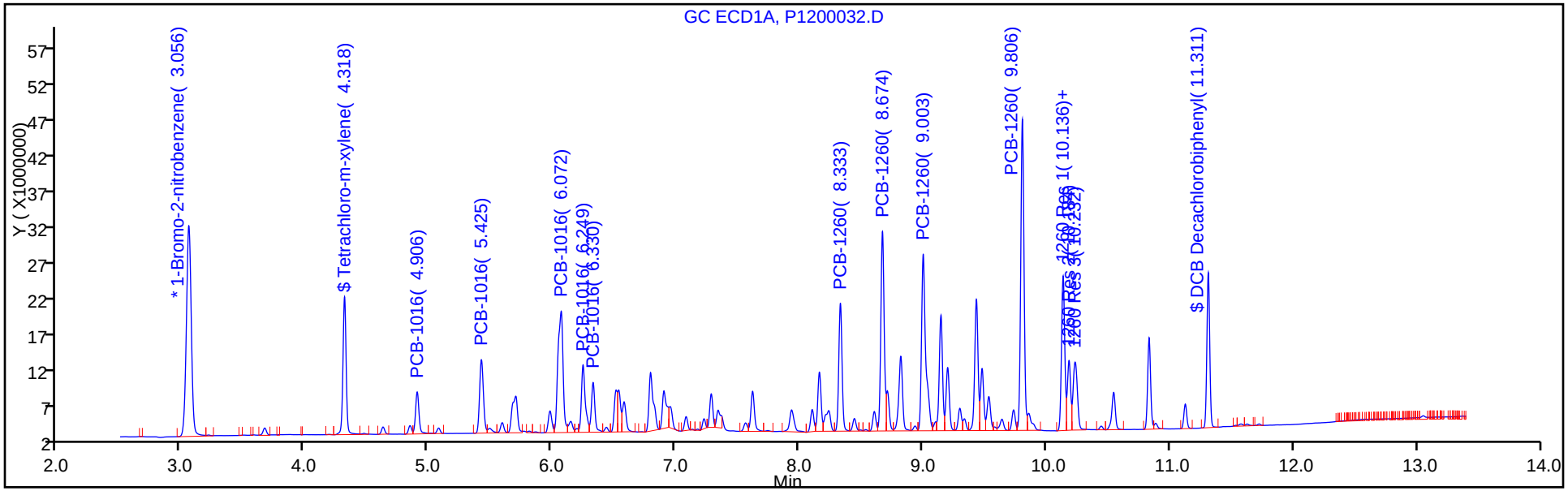
Report Date: 26-Apr-2015 19:54:52 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

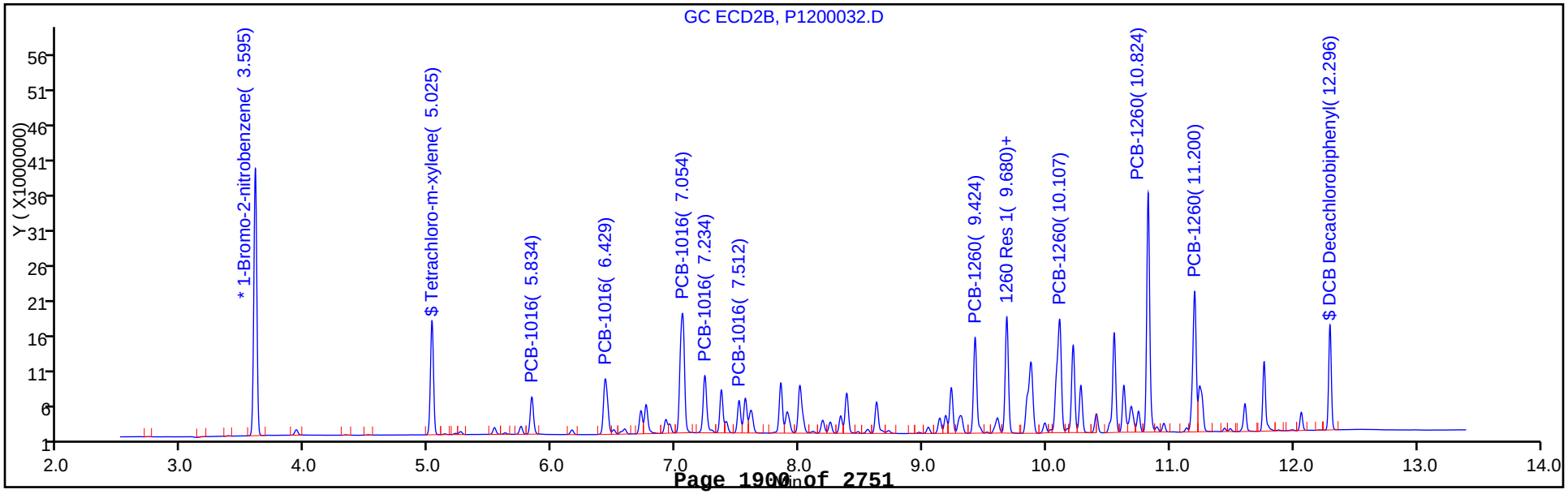
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200032.D

Injection Date:	24-Apr-2015 17:01:30	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/4 Calibration Date: 04/24/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200033.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0183	0.0168		0.459	0.500	-8.2	20.0
PCB-1232 Peak 2	Ave	0.0139	0.0127		0.459	0.500	-8.2	20.0
PCB-1232 Peak 3	Ave	0.0201	0.0252		0.626	0.500	25.2*	20.0
PCB-1232 Peak 4	Ave	0.0125	0.0097		0.387	0.500	-22.5*	20.0
PCB-1232 Peak 5	Ave	0.0117	0.0107		0.458	0.500	-8.3	20.0
PCB-1262 Peak 1	Ave	0.0432	0.0447		0.517	0.500	3.4	20.0
PCB-1262 Peak 2	Ave	0.0521	0.0559		0.537	0.500	7.3	20.0
PCB-1262 Peak 3	Ave	0.0522	0.0542		0.519	0.500	3.8	20.0
PCB-1262 Peak 4	Ave	0.1064	0.1166		0.548	0.500	9.6	20.0
PCB-1262 Peak 5	Ave	0.0412	0.0445		0.540	0.500	8.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/4 Calibration Date: 04/24/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200033.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	4.91	4.88	4.94
PCB-1232 Peak 2	5.43	5.40	5.46
PCB-1232 Peak 3	6.07	6.04	6.10
PCB-1232 Peak 4	6.25	6.22	6.28
PCB-1232 Peak 5	6.80	6.77	6.83
PCB-1262 Peak 1	8.67	8.64	8.70
PCB-1262 Peak 2	9.15	9.12	9.18
PCB-1262 Peak 3	9.43	9.40	9.46
PCB-1262 Peak 4	9.80	9.77	9.83
PCB-1262 Peak 5	10.18	10.15	10.21

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200033.D
Lims ID: RTC AR1232/1262
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 17:19:35 ALS Bottle#: 33 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-004
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:54:54 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:33:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.056	0.001	85391083	0.0500	0.0500	
2	3.596	3.595	0.001	66459192	0.0500	0.0500	
4 PCB-1232							
1	4.906	4.906	0.000	14321546	0.5000	0.4588	
1	5.425	5.425	0.000	10872647	0.5000	0.4592	
1	6.072	6.072	0.000	21520391	0.5000	0.6260	
1	6.248	6.248	0.000	8281726	0.5000	0.3873	
1	6.795	6.795	0.000	9145026	0.5000	0.4584	
		Average of Peak Amounts =				0.4779	
2	5.834	5.834	0.000	12731359	0.5000	0.5205	
2	6.429	6.429	0.000	9931654	0.5000	0.6765	
2	7.055	7.055	0.000	20057122	0.5000	0.5167	
2	7.235	7.235	0.000	7792677	0.5000	0.4798	
2	7.512	7.512	0.000	3721389	0.5000	0.5456	
		Average of Peak Amounts =				0.5478	
						RPD = 13.63	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.673	8.673	0.000	38136870	0.5000	0.5169	
1	9.146	9.146	0.000	47766632	0.5000	0.5367	
1	9.432	9.432	0.000	46300129	0.5000	0.5190	
1	9.804	9.804	0.000	99587273	0.5000	0.5482	
1	10.182	10.182	0.000	37953303	0.5000	0.5399	
		Average of Peak Amounts =				0.5321	
2	9.680	9.680	0.000	24016729	0.5000	0.5262	
2	10.216	10.216	0.000	34123367	0.5000	0.5352	
2	10.549	10.549	0.000	32835029	0.5000	0.5393	
2	10.825	10.825	0.000	68540140	0.5000	0.5586	
2	11.197	11.197	0.000	47520281	0.5000	0.5474	
		Average of Peak Amounts =				0.5413	
						RPD = 1.71	

Reagents:

SG3262@0.5PPM_00006 Amount Added: 1.00 Units: mL

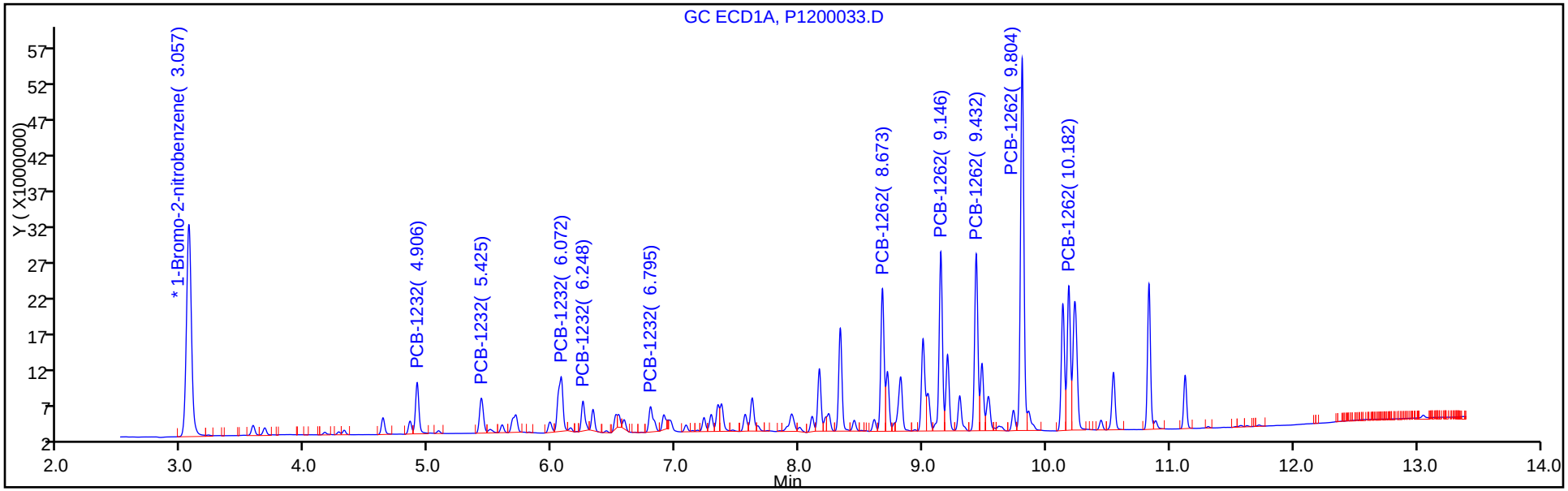
Report Date: 26-Apr-2015 19:54:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

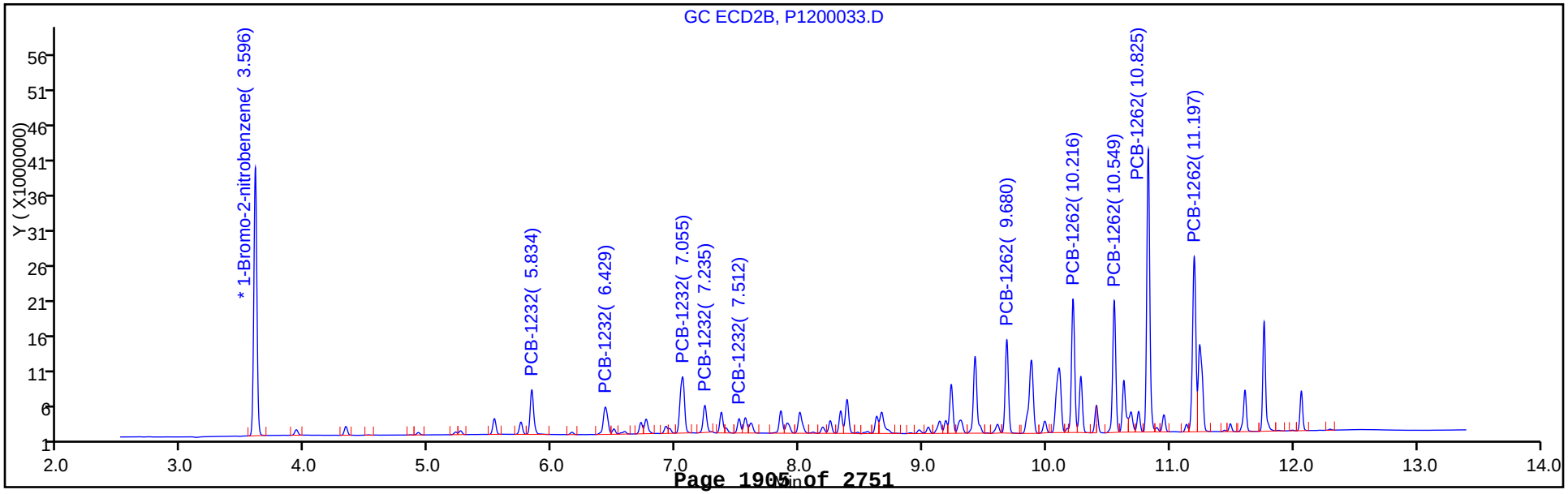
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200033.D

Injection Date:	24-Apr-2015 17:19:35	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1232/1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/4 Calibration Date: 04/24/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200033.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0184	0.0192		0.521	0.500	4.1	20.0
PCB-1232 Peak 2	Ave	0.0110	0.0149		0.677	0.500	35.3*	20.0
PCB-1232 Peak 3	Ave	0.0292	0.0302		0.517	0.500	3.3	20.0
PCB-1232 Peak 4	Ave	0.0122	0.0117		0.480	0.500	-4.0	20.0
PCB-1232 Peak 5	Lin1		0.0056		0.546	0.500	9.1	20.0
PCB-1262 Peak 1	Ave	0.0343	0.0361		0.526	0.500	5.2	20.0
PCB-1262 Peak 2	Ave	0.0480	0.0513		0.535	0.500	7.0	20.0
PCB-1262 Peak 3	Ave	0.0458	0.0494		0.539	0.500	7.9	20.0
PCB-1262 Peak 4	Ave	0.0923	0.1031		0.559	0.500	11.7	20.0
PCB-1262 Peak 5	Ave	0.0653	0.0715		0.547	0.500	9.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/4 Calibration Date: 04/24/2015 17:19

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 17:49

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 19:20

Lab File ID: P1200033.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	5.83	5.80	5.86
PCB-1232 Peak 2	6.43	6.40	6.46
PCB-1232 Peak 3	7.06	7.03	7.09
PCB-1232 Peak 4	7.24	7.21	7.27
PCB-1232 Peak 5	7.51	7.48	7.54
PCB-1262 Peak 1	9.68	9.65	9.71
PCB-1262 Peak 2	10.22	10.19	10.25
PCB-1262 Peak 3	10.55	10.52	10.58
PCB-1262 Peak 4	10.83	10.80	10.86
PCB-1262 Peak 5	11.20	11.17	11.23

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200033.D
Lims ID: RTC AR1232/1262
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 17:19:35 ALS Bottle#: 33 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-004
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub1

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:54:54 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:33:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.056	0.001	85391083	0.0500	0.0500	
2	3.596	3.595	0.001	66459192	0.0500	0.0500	
4 PCB-1232							
1	4.906	4.906	0.000	14321546	0.5000	0.4588	
1	5.425	5.425	0.000	10872647	0.5000	0.4592	
1	6.072	6.072	0.000	21520391	0.5000	0.6260	
1	6.248	6.248	0.000	8281726	0.5000	0.3873	
1	6.795	6.795	0.000	9145026	0.5000	0.4584	
		Average of Peak Amounts =				0.4779	
2	5.834	5.834	0.000	12731359	0.5000	0.5205	
2	6.429	6.429	0.000	9931654	0.5000	0.6765	
2	7.055	7.055	0.000	20057122	0.5000	0.5167	
2	7.235	7.235	0.000	7792677	0.5000	0.4798	
2	7.512	7.512	0.000	3721389	0.5000	0.5456	
		Average of Peak Amounts =				0.5478	
						RPD = 13.63	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 PCB-1262							
1	8.673	8.673	0.000	38136870	0.5000	0.5169	
1	9.146	9.146	0.000	47766632	0.5000	0.5367	
1	9.432	9.432	0.000	46300129	0.5000	0.5190	
1	9.804	9.804	0.000	99587273	0.5000	0.5482	
1	10.182	10.182	0.000	37953303	0.5000	0.5399	
		Average of Peak Amounts =				0.5321	
2	9.680	9.680	0.000	24016729	0.5000	0.5262	
2	10.216	10.216	0.000	34123367	0.5000	0.5352	
2	10.549	10.549	0.000	32835029	0.5000	0.5393	
2	10.825	10.825	0.000	68540140	0.5000	0.5586	
2	11.197	11.197	0.000	47520281	0.5000	0.5474	
		Average of Peak Amounts =				0.5413	
						RPD = 1.71	

Reagents:

SG3262@0.5PPM_00006 Amount Added: 1.00 Units: mL

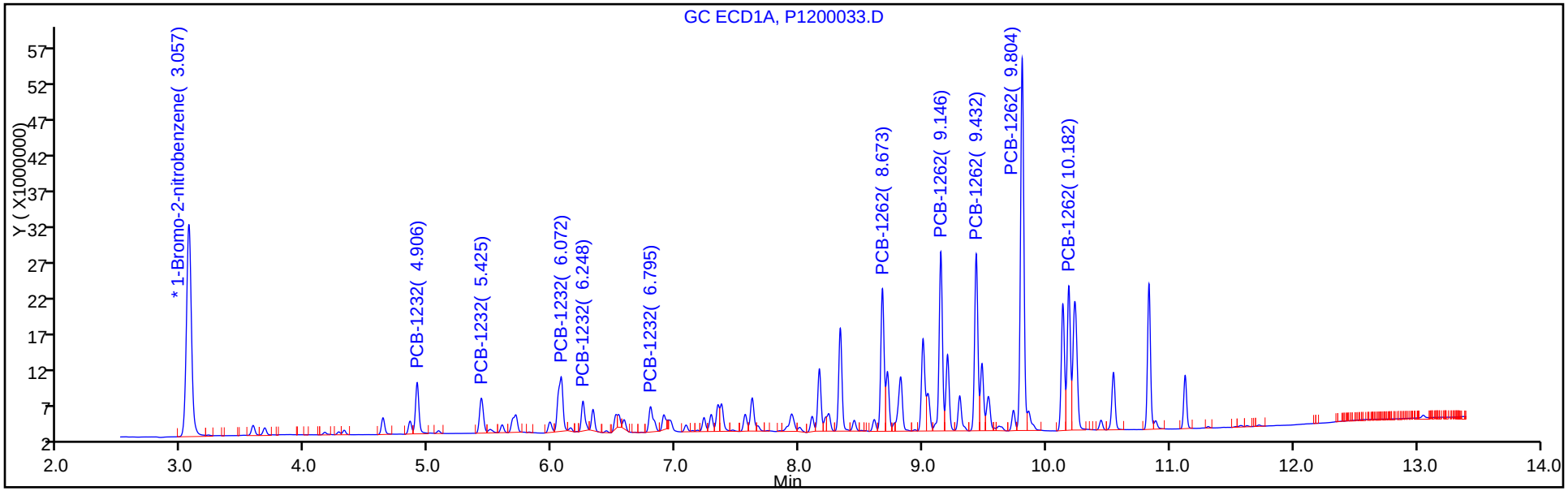
Report Date: 26-Apr-2015 19:54:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

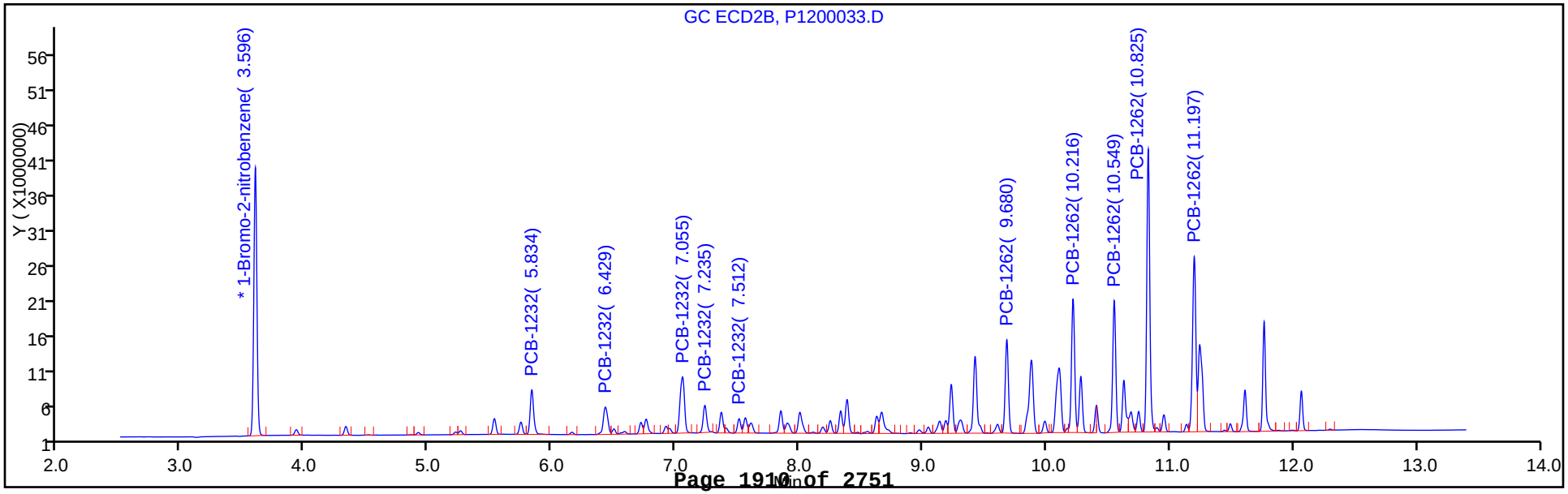
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200033.D

Injection Date:	24-Apr-2015 17:19:35	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1232/1262			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/5 Calibration Date: 04/24/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200034.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0123	0.0109		0.445	0.500	-10.9	20.0
PCB-1242 Peak 2	Ave	0.0232	0.0224		0.483	0.500	-3.3	20.0
PCB-1242 Peak 3	Ave	0.0396	0.0494		0.624	0.500	24.8*	20.0
PCB-1242 Peak 4	Ave	0.0211	0.0208		0.493	0.500	-1.5	20.0
PCB-1242 Peak 5	Lin1		0.0144		0.478	0.500	-4.4	20.0
PCB-1268 Peak 1	Ave	0.1173	0.1358		0.579	0.500	15.8	20.0
PCB-1268 Peak 2	Ave	0.1322	0.1356		0.513	0.500	2.6	20.0
PCB-1268 Peak 3	Ave	0.1052	0.1139		0.541	0.500	8.3	20.0
PCB-1268 Peak 4	Ave	0.0419	0.0473		0.565	0.500	13.0	20.0
PCB-1268 Peak 5	Ave	0.3591	0.3996		0.556	0.500	11.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/5 Calibration Date: 04/24/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200034.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	4.91	4.88	4.94
PCB-1242 Peak 2	5.43	5.40	5.46
PCB-1242 Peak 3	6.07	6.04	6.10
PCB-1242 Peak 4	6.25	6.22	6.28
PCB-1242 Peak 5	6.33	6.30	6.36
PCB-1268 Peak 1	10.18	10.15	10.21
PCB-1268 Peak 2	10.23	10.20	10.26
PCB-1268 Peak 3	10.44	10.41	10.47
PCB-1268 Peak 4	10.83	10.80	10.86
PCB-1268 Peak 5	11.12	11.09	11.15

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200034.D
Lims ID: RTC AR1242/1268
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 17:37:45 ALS Bottle#: 34 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-005
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:54:58 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:34:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.057	0.001	84126891	0.0500	0.0500	
2	3.596	3.596	0.000	65687938	0.0500	0.0500	
5 PCB-1242							
1	4.907	4.907	0.000	9196303	0.5000	0.4453	
1	5.426	5.426	0.000	18868151	0.5000	0.4835	
1	6.072	6.072	0.000	41543563	0.5000	0.6241	
1	6.249	6.249	0.000	17521168	0.5000	0.4927	
1	6.330	6.330	0.000	12114383	0.5000	0.4779	
		Average of Peak Amounts =				0.5047	
2	5.834	5.834	0.000	8310652	0.5000	0.5127	
2	6.430	6.430	0.000	16122096	0.5000	0.6235	
2	7.054	7.054	0.000	35652744	0.5000	0.5472	
2	7.235	7.235	0.000	14646762	0.5000	0.5727	
2	7.512	7.512	0.000	6958361	0.5000	0.5268	
		Average of Peak Amounts =				0.5566	
						RPD = 9.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.183	10.183	0.000	114272862	0.5000	0.5789	
1	10.227	10.227	0.000	114082021	0.5000	0.5131	
1	10.443	10.443	0.000	95810136	0.5000	0.5413	
1	10.831	10.831	0.000	39820182	0.5000	0.5650	
1	11.123	11.123	0.000	336154363	0.5000	0.5564	
		Average of Peak Amounts =				0.5509	
2	11.193	11.193	0.000	77231079	0.5000	0.5727	
2	11.240	11.240	0.000	75839454	0.5000	0.5661	
2	11.490	11.490	0.000	62337435	0.5000	0.5660	
2	11.763	11.763	0.000	26085207	0.5000	0.5492	
2	12.064	12.064	0.000	212854954	0.5000	0.5743	
		Average of Peak Amounts =				0.5657	
						RPD = 2.64	

Reagents:

SG4268@0.5PPM_00006 Amount Added: 1.00 Units: mL

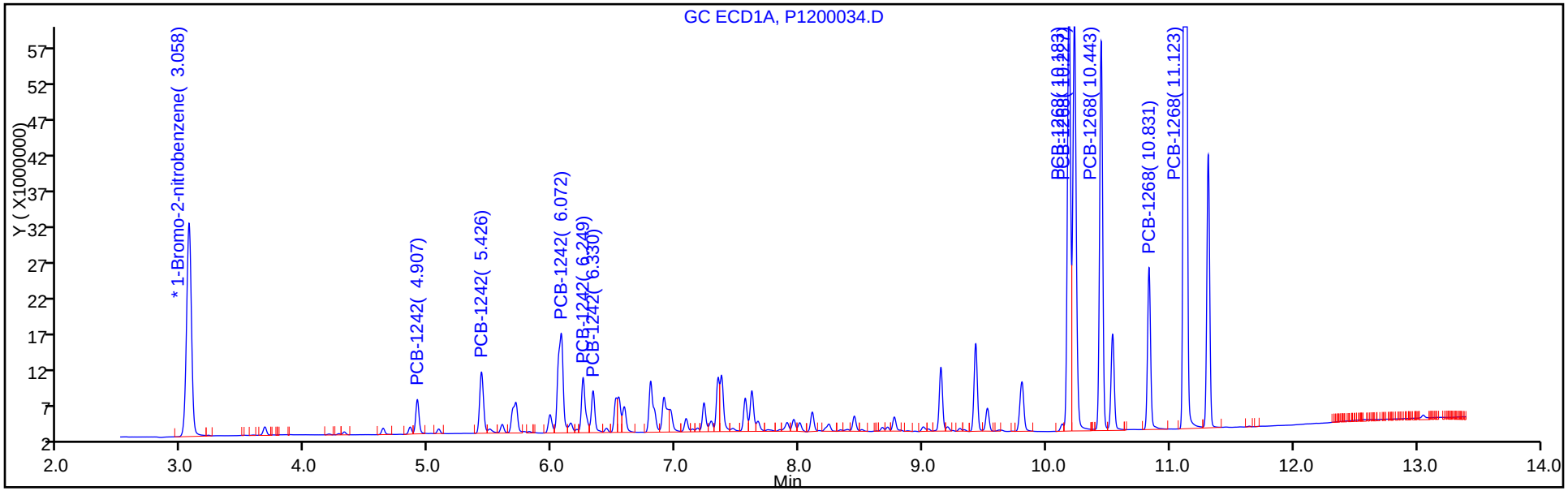
Report Date: 26-Apr-2015 19:54:58 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

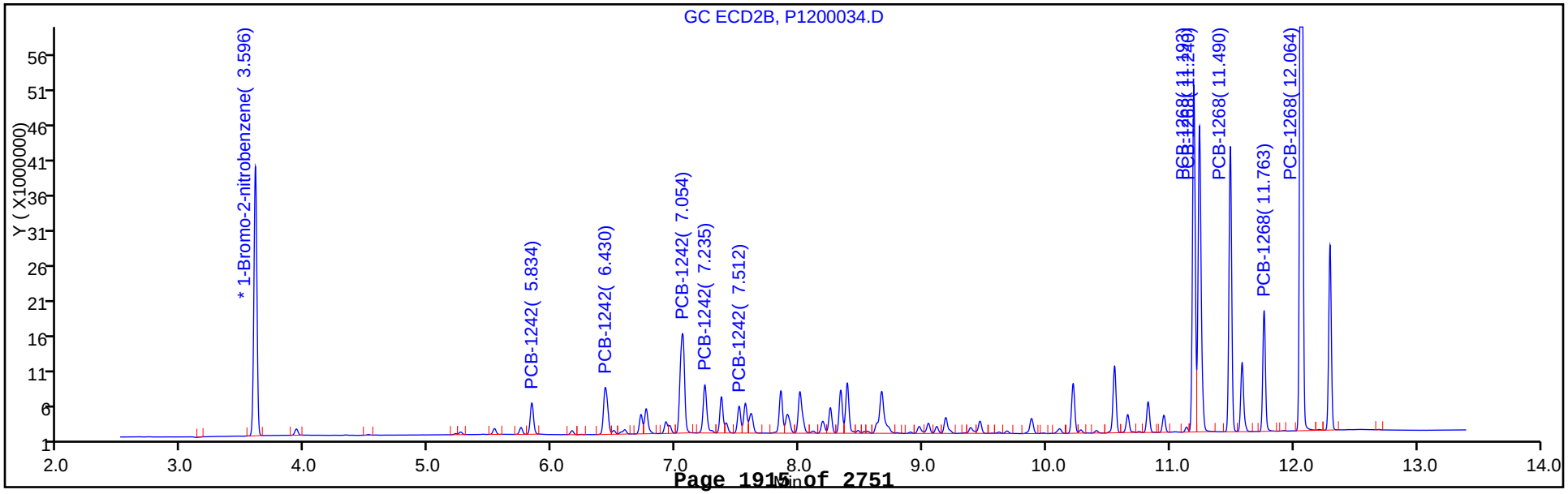
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200034.D

Injection Date:	24-Apr-2015 17:37:45	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1242/1268			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/5 Calibration Date: 04/24/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200034.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0123	0.0127		0.513	0.500	2.5	20.0
PCB-1242 Peak 2	Ave	0.0197	0.0245		0.623	0.500	24.7*	20.0
PCB-1242 Peak 3	Ave	0.0496	0.0543		0.547	0.500	9.4	20.0
PCB-1242 Peak 4	Ave	0.0195	0.0223		0.573	0.500	14.5	20.0
PCB-1242 Peak 5	Ave	0.0101	0.0106		0.527	0.500	5.4	20.0
PCB-1268 Peak 1	Ave	0.1026	0.1176		0.573	0.500	14.5	20.0
PCB-1268 Peak 2	Ave	0.1020	0.1155		0.566	0.500	13.2	20.0
PCB-1268 Peak 3	Ave	0.0838	0.0949		0.566	0.500	13.2	20.0
PCB-1268 Peak 4	Ave	0.0362	0.0397		0.549	0.500	9.8	20.0
PCB-1268 Peak 5	Ave	0.2821	0.3240		0.574	0.500	14.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/5 Calibration Date: 04/24/2015 17:37

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 19:38

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 21:08

Lab File ID: P1200034.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	5.83	5.80	5.86
PCB-1242 Peak 2	6.43	6.40	6.46
PCB-1242 Peak 3	7.05	7.02	7.08
PCB-1242 Peak 4	7.24	7.21	7.27
PCB-1242 Peak 5	7.51	7.48	7.54
PCB-1268 Peak 1	11.19	11.16	11.22
PCB-1268 Peak 2	11.24	11.21	11.27
PCB-1268 Peak 3	11.49	11.46	11.52
PCB-1268 Peak 4	11.76	11.73	11.79
PCB-1268 Peak 5	12.06	12.03	12.09

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200034.D
Lims ID: RTC AR1242/1268
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 17:37:45 ALS Bottle#: 34 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-005
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub2

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:54:58 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:34:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.057	0.001	84126891	0.0500	0.0500	
2	3.596	3.596	0.000	65687938	0.0500	0.0500	
5 PCB-1242							
1	4.907	4.907	0.000	9196303	0.5000	0.4453	
1	5.426	5.426	0.000	18868151	0.5000	0.4835	
1	6.072	6.072	0.000	41543563	0.5000	0.6241	
1	6.249	6.249	0.000	17521168	0.5000	0.4927	
1	6.330	6.330	0.000	12114383	0.5000	0.4779	
		Average of Peak Amounts =				0.5047	
2	5.834	5.834	0.000	8310652	0.5000	0.5127	
2	6.430	6.430	0.000	16122096	0.5000	0.6235	
2	7.054	7.054	0.000	35652744	0.5000	0.5472	
2	7.235	7.235	0.000	14646762	0.5000	0.5727	
2	7.512	7.512	0.000	6958361	0.5000	0.5268	
		Average of Peak Amounts =				0.5566	
						RPD = 9.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 PCB-1268							
1	10.183	10.183	0.000	114272862	0.5000	0.5789	
1	10.227	10.227	0.000	114082021	0.5000	0.5131	
1	10.443	10.443	0.000	95810136	0.5000	0.5413	
1	10.831	10.831	0.000	39820182	0.5000	0.5650	
1	11.123	11.123	0.000	336154363	0.5000	0.5564	
		Average of Peak Amounts =				0.5509	
2	11.193	11.193	0.000	77231079	0.5000	0.5727	
2	11.240	11.240	0.000	75839454	0.5000	0.5661	
2	11.490	11.490	0.000	62337435	0.5000	0.5660	
2	11.763	11.763	0.000	26085207	0.5000	0.5492	
2	12.064	12.064	0.000	212854954	0.5000	0.5743	
		Average of Peak Amounts =				0.5657	
						RPD = 2.64	

Reagents:

SG4268@0.5PPM_00006 Amount Added: 1.00 Units: mL

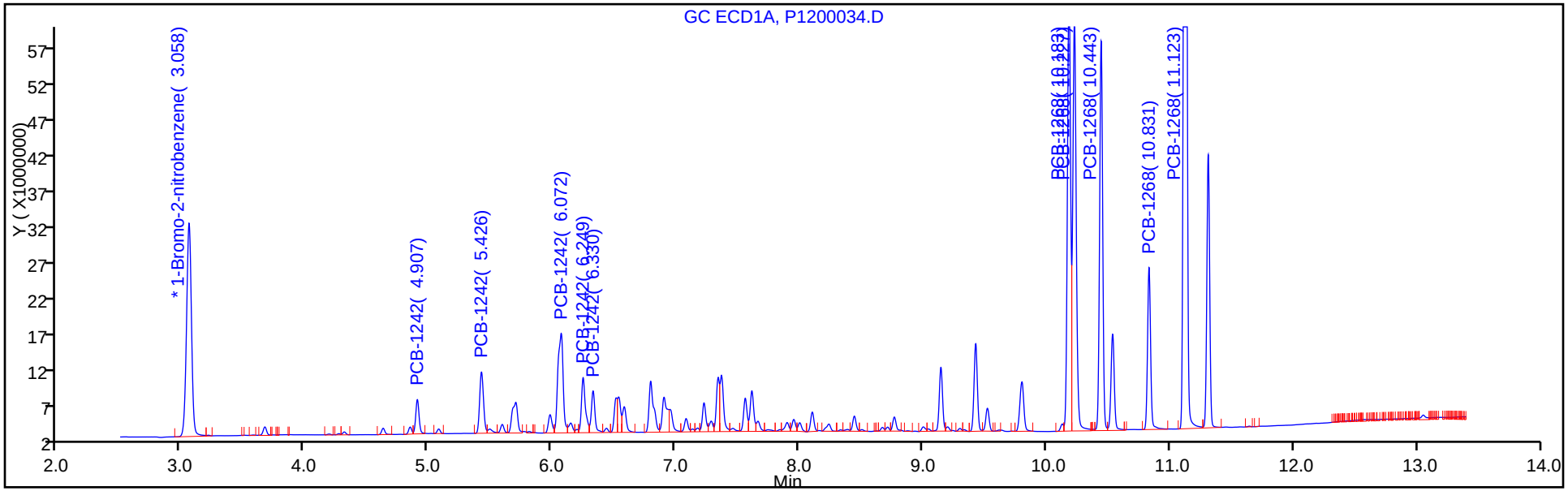
Report Date: 26-Apr-2015 19:54:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

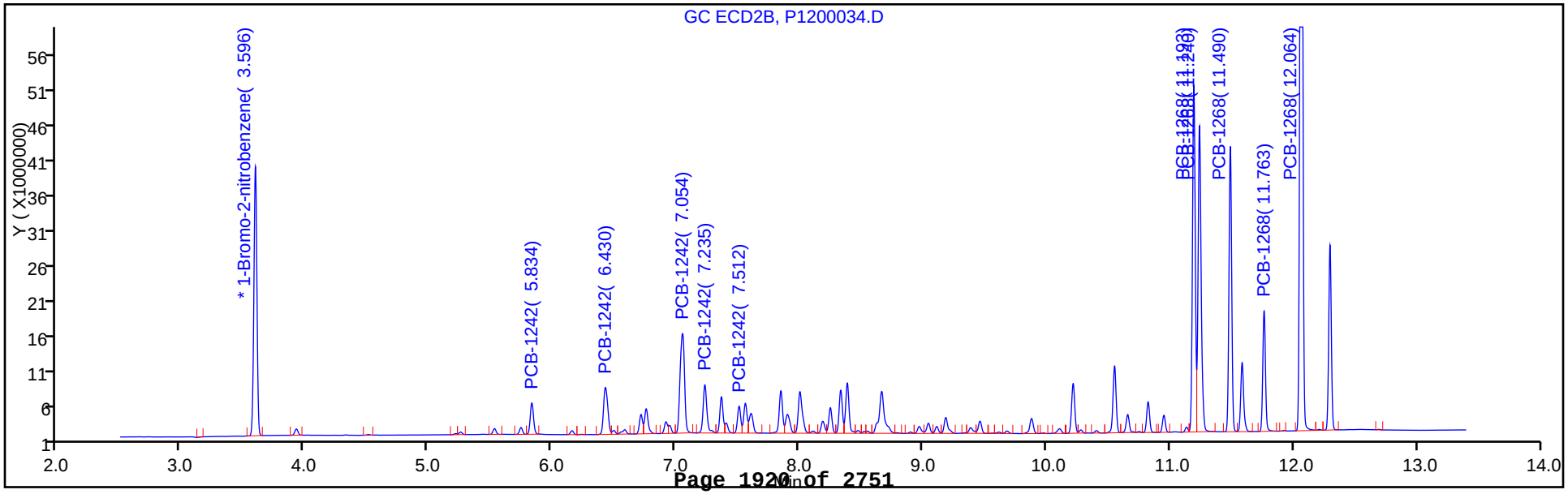
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200034.D

Injection Date:	24-Apr-2015 17:37:45	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1242/1268			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/6 Calibration Date: 04/24/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200035.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0114	0.0115		0.505	0.500	0.9	20.0
PCB-1248 Peak 2	Ave	0.0359	0.0332		0.462	0.500	-7.6	20.0
PCB-1248 Peak 3	Ave	0.0330	0.0276		0.418	0.500	-16.5	20.0
PCB-1248 Peak 4	Ave	0.0271	0.0251		0.463	0.500	-7.3	20.0
PCB-1248 Peak 5	Ave	0.0186	0.0165		0.443	0.500	-11.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/6 Calibration Date: 04/24/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	5.42	5.39	5.45
PCB-1248 Peak 2	6.80	6.77	6.83
PCB-1248 Peak 3	7.37	7.34	7.40
PCB-1248 Peak 4	7.62	7.59	7.65
PCB-1248 Peak 5	8.11	8.08	8.14

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200035.D
Lims ID: RTC AR1248
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 17:55:49 ALS Bottle#: 35 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-006
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.058	-0.002	86878859	0.0500	0.0500	
2	3.596	3.596	0.000	68819071	0.0500	0.0500	
7 PCB-1248							
1	5.424	5.424	0.000	9993125	0.5000	0.5046	
1	6.795	6.795	0.000	28825628	0.5000	0.4622	
1	7.369	7.369	0.000	23960282	0.5000	0.4177	
1	7.616	7.616	0.000	21791575	0.5000	0.4635	
1	8.105	8.105	0.000	14347629	0.5000	0.4429	
		Average of Peak Amounts =				0.4582	
2	7.050	7.050	0.000	23026510	0.5000	0.4763	
2	7.512	7.512	0.000	12763921	0.5000	0.4579	
2	8.005	8.005	0.000	20000412	0.5000	0.4028	
2	8.388	8.388	0.000	23034612	0.5000	0.4476	
2	9.186	9.186	0.000	12117907	0.5000	0.4182	
		Average of Peak Amounts =				0.4406	
						RPD = 3.92	

Reagents:

SG1248@0.5ppm_00017 Amount Added: 1.00 Units: mL

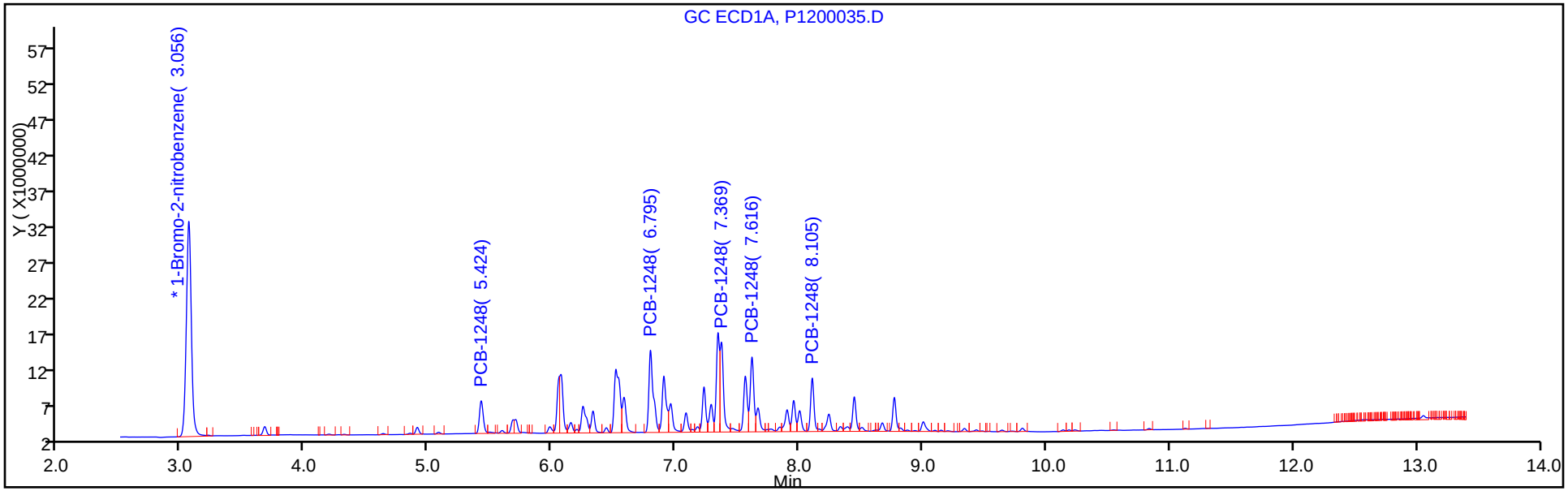
Report Date: 26-Apr-2015 19:55:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

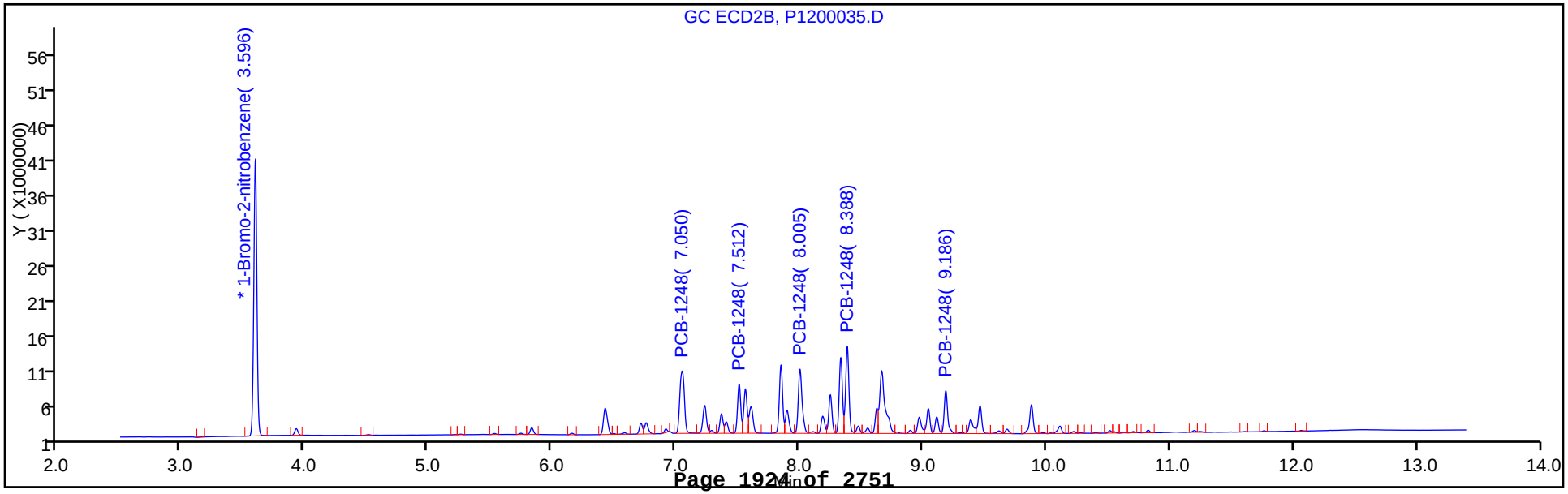
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200035.D

Injection Date:	24-Apr-2015 17:55:49	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1248			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/6 Calibration Date: 04/24/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200035.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0351	0.0335		0.476	0.500	-4.7	20.0
PCB-1248 Peak 2	Ave	0.0203	0.0186		0.458	0.500	-8.4	20.0
PCB-1248 Peak 3	Ave	0.0361	0.0291		0.403	0.500	-19.4	20.0
PCB-1248 Peak 4	Ave	0.0374	0.0335		0.448	0.500	-10.5	20.0
PCB-1248 Peak 5	Ave	0.0211	0.0176		0.418	0.500	-16.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/6 Calibration Date: 04/24/2015 17:55

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 21:26

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/22/2015 22:57

Lab File ID: P1200035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	7.05	7.02	7.08
PCB-1248 Peak 2	7.51	7.48	7.54
PCB-1248 Peak 3	8.01	7.98	8.04
PCB-1248 Peak 4	8.39	8.36	8.42
PCB-1248 Peak 5	9.19	9.16	9.22

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200035.D
Lims ID: RTC AR1248
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 17:55:49 ALS Bottle#: 35 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-006
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub4

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:02 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.058	-0.002	86878859	0.0500	0.0500	
2	3.596	3.596	0.000	68819071	0.0500	0.0500	
7 PCB-1248							
1	5.424	5.424	0.000	9993125	0.5000	0.5046	
1	6.795	6.795	0.000	28825628	0.5000	0.4622	
1	7.369	7.369	0.000	23960282	0.5000	0.4177	
1	7.616	7.616	0.000	21791575	0.5000	0.4635	
1	8.105	8.105	0.000	14347629	0.5000	0.4429	
		Average of Peak Amounts =				0.4582	
2	7.050	7.050	0.000	23026510	0.5000	0.4763	
2	7.512	7.512	0.000	12763921	0.5000	0.4579	
2	8.005	8.005	0.000	20000412	0.5000	0.4028	
2	8.388	8.388	0.000	23034612	0.5000	0.4476	
2	9.186	9.186	0.000	12117907	0.5000	0.4182	
		Average of Peak Amounts =				0.4406	
						RPD = 3.92	

Reagents:

SG1248@0.5ppm_00017 Amount Added: 1.00 Units: mL

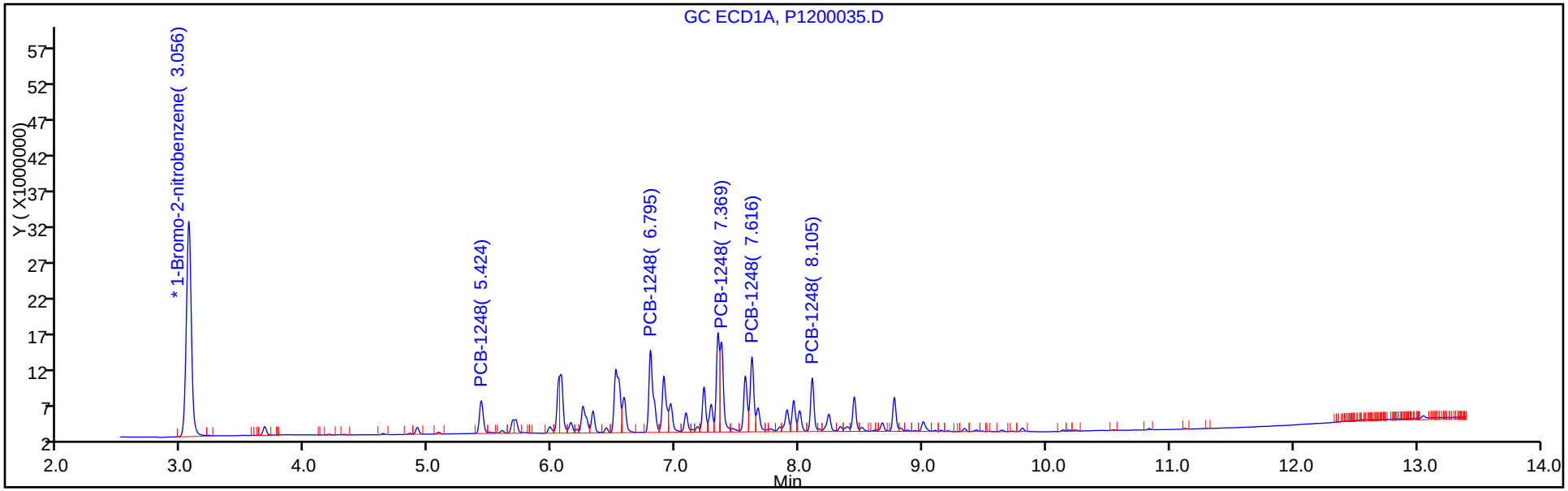
Report Date: 26-Apr-2015 19:55:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

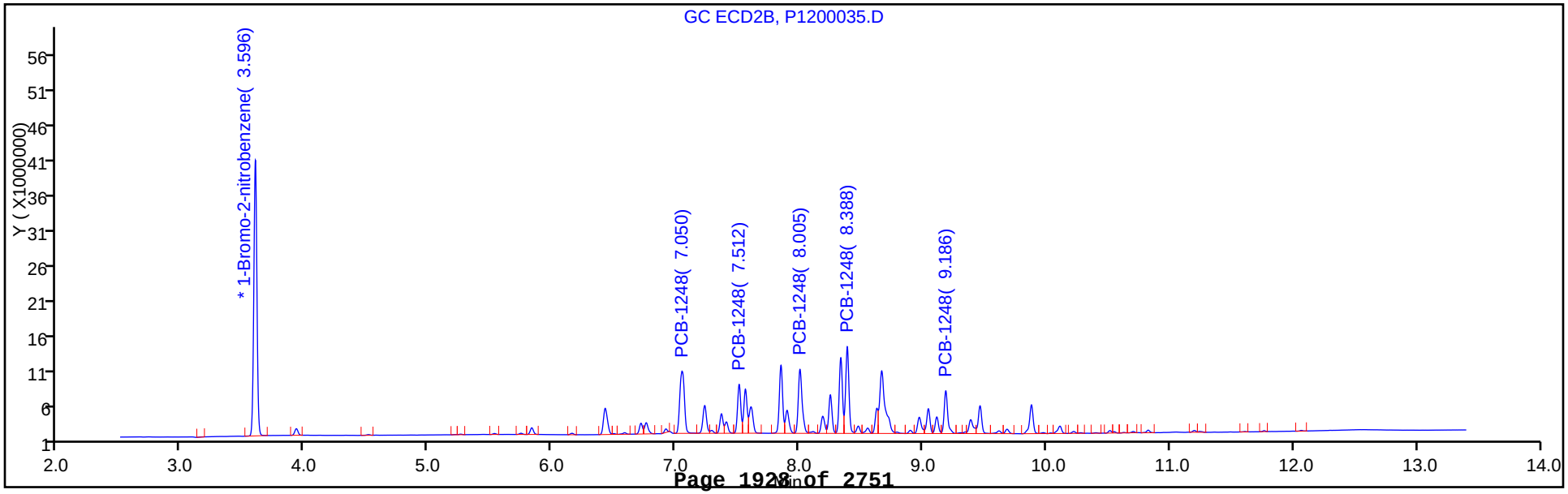
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200035.D

Injection Date:	24-Apr-2015 17:55:49	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1248			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/7 Calibration Date: 04/24/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0087	0.0078		0.449	0.500	-10.1	20.0
PCB-1221 Peak 2	Ave	0.0053	0.0050		0.465	0.500	-7.0	20.0
PCB-1221 Peak 3	Ave	0.0203	0.0198		0.488	0.500	-2.4	20.0
PCB-1254 Peak 1	Ave	0.0276	0.0271		0.491	0.500	-1.8	20.0
PCB-1254 Peak 2	Ave	0.0397	0.0383		0.482	0.500	-3.5	20.0
PCB-1254 Peak 3	Ave	0.0585	0.0577		0.493	0.500	-1.4	20.0
PCB-1254 Peak 4	Ave	0.0424	0.0412		0.486	0.500	-2.8	20.0
PCB-1254 Peak 5	Ave	0.0599	0.0592		0.494	0.500	-1.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/7 Calibration Date: 04/24/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	4.63	4.60	4.66
PCB-1221 Peak 2	4.85	4.82	4.88
PCB-1221 Peak 3	4.91	4.88	4.94
PCB-1254 Peak 1	7.29	7.26	7.32
PCB-1254 Peak 2	7.62	7.59	7.65
PCB-1254 Peak 3	8.10	8.07	8.13
PCB-1254 Peak 4	8.45	8.42	8.48
PCB-1254 Peak 5	9.00	8.97	9.03

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200036.D
Lims ID: RTC AR1221/1254
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 18:13:56 ALS Bottle#: 36 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-007
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:04 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:36:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	86589698	0.0500	0.0500	
2	3.595	3.595	0.000	67942918	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	6758288	0.5000	0.4494	
1	4.849	4.849	0.000	4298754	0.5000	0.4648	
1	4.906	4.906	0.000	17135076	0.5000	0.4878	
		Average of Peak Amounts =				0.4673	
2	5.532	5.532	0.000	5894424	0.5000	0.4637	
2	5.746	5.746	0.000	3994548	0.5000	0.4587	
2	5.834	5.834	0.000	14664413	0.5000	0.4531	
		Average of Peak Amounts =				0.4585	
						RPD = 1.90	
8 PCB-1254							
1	7.286	7.286	0.000	23467645	0.5000	0.4909	a
1	7.621	7.621	0.000	33135045	0.5000	0.4823	a
1	8.104	8.104	0.000	49967798	0.5000	0.4930	
1	8.445	8.445	0.000	35659817	0.5000	0.4858	
1	9.004	9.004	0.000	51289679	0.5000	0.4941	
		Average of Peak Amounts =				0.4892	
2	8.384	8.384	0.000	21741600	0.5000	0.4696	
2	8.627	8.627	0.000	24631699	0.5000	0.4679	
2	9.186	9.186	0.000	38259498	0.5000	0.4842	
2	9.463	9.463	0.000	26642292	0.5000	0.4877	
2	10.110	10.110	0.000	36702997	0.5000	0.4734	
		Average of Peak Amounts =				0.4766	
						RPD = 2.62	

Reagents:

SG2154@0.5PPM_00017 Amount Added: 1.00 Units: mL

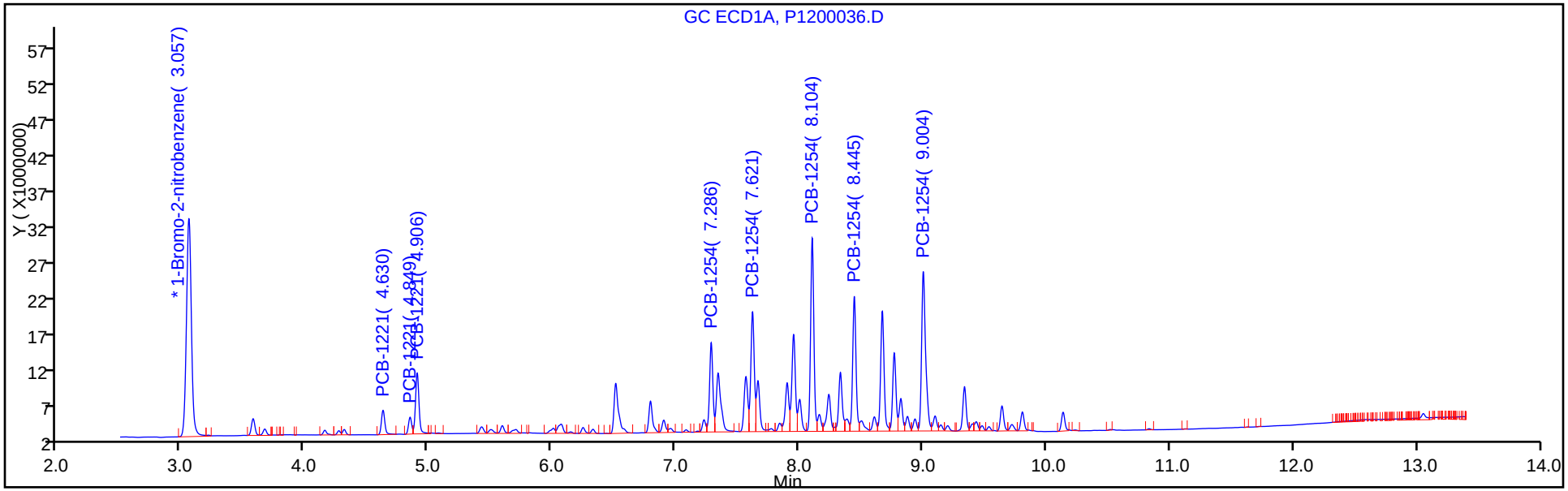
Report Date: 26-Apr-2015 19:55:04 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

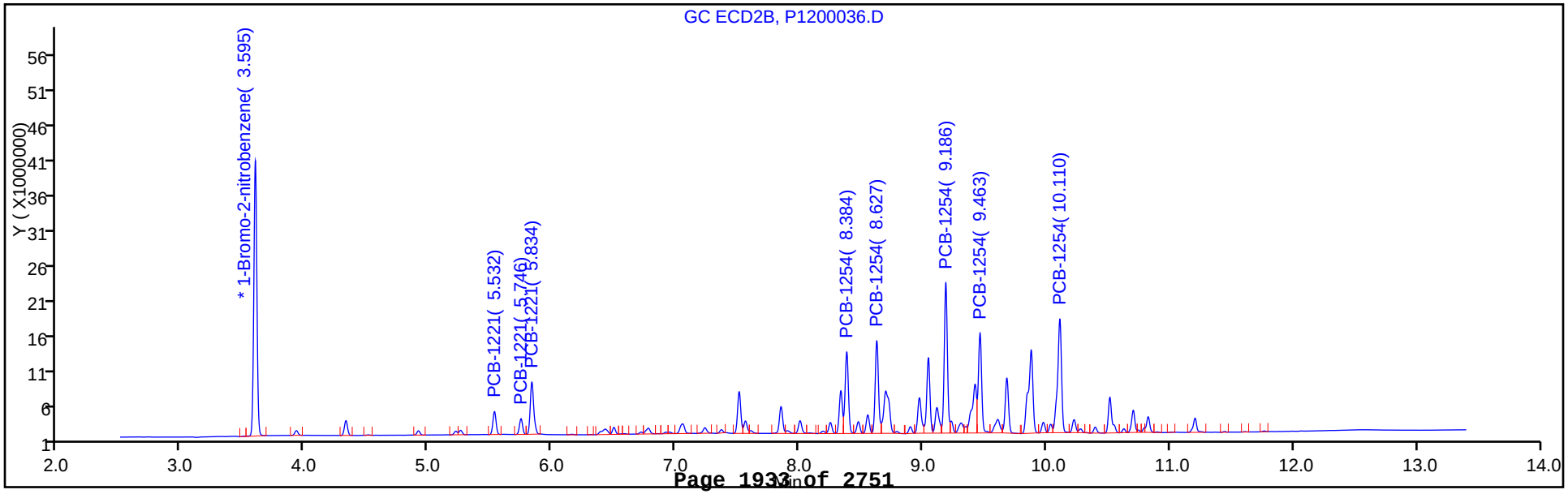
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200036.D

Injection Date:	24-Apr-2015 18:13:56	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1221/1254			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/7 Calibration Date: 04/24/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200036.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0094	0.0087		0.464	0.500	-7.3	20.0
PCB-1221 Peak 2	Ave	0.0064	0.0059		0.459	0.500	-8.3	20.0
PCB-1221 Peak 3	Ave	0.0238	0.0216		0.453	0.500	-9.4	20.0
PCB-1254 Peak 1	Ave	0.0341	0.0320		0.470	0.500	-6.1	20.0
PCB-1254 Peak 2	Ave	0.0387	0.0363		0.468	0.500	-6.4	20.0
PCB-1254 Peak 3	Ave	0.0582	0.0563		0.484	0.500	-3.2	20.0
PCB-1254 Peak 4	Ave	0.0402	0.0392		0.488	0.500	-2.5	20.0
PCB-1254 Peak 5	Ave	0.0571	0.0540		0.473	0.500	-5.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: RTC 240-177830/7 Calibration Date: 04/24/2015 18:13

Instrument ID: A2HP12 Calib Start Date: 04/22/2015 23:15

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 00:45

Lab File ID: P1200036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	5.53	5.50	5.56
PCB-1221 Peak 2	5.75	5.72	5.78
PCB-1221 Peak 3	5.83	5.80	5.86
PCB-1254 Peak 1	8.38	8.35	8.41
PCB-1254 Peak 2	8.63	8.60	8.66
PCB-1254 Peak 3	9.19	9.16	9.22
PCB-1254 Peak 4	9.46	9.43	9.49
PCB-1254 Peak 5	10.11	10.08	10.14

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200036.D
Lims ID: RTC AR1221/1254
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 18:13:56 ALS Bottle#: 36 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-007
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub5

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:04 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:36:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.057	0.000	86589698	0.0500	0.0500	
2	3.595	3.595	0.000	67942918	0.0500	0.0500	
3 PCB-1221							
1	4.630	4.630	0.000	6758288	0.5000	0.4494	
1	4.849	4.849	0.000	4298754	0.5000	0.4648	
1	4.906	4.906	0.000	17135076	0.5000	0.4878	
		Average of Peak Amounts =				0.4673	
2	5.532	5.532	0.000	5894424	0.5000	0.4637	
2	5.746	5.746	0.000	3994548	0.5000	0.4587	
2	5.834	5.834	0.000	14664413	0.5000	0.4531	
		Average of Peak Amounts =				0.4585	
						RPD = 1.90	
8 PCB-1254							
1	7.286	7.286	0.000	23467645	0.5000	0.4909	a
1	7.621	7.621	0.000	33135045	0.5000	0.4823	a
1	8.104	8.104	0.000	49967798	0.5000	0.4930	
1	8.445	8.445	0.000	35659817	0.5000	0.4858	
1	9.004	9.004	0.000	51289679	0.5000	0.4941	
		Average of Peak Amounts =				0.4892	
2	8.384	8.384	0.000	21741600	0.5000	0.4696	
2	8.627	8.627	0.000	24631699	0.5000	0.4679	
2	9.186	9.186	0.000	38259498	0.5000	0.4842	
2	9.463	9.463	0.000	26642292	0.5000	0.4877	
2	10.110	10.110	0.000	36702997	0.5000	0.4734	
		Average of Peak Amounts =				0.4766	
						RPD = 2.62	

Reagents:

SG2154@0.5PPM_00017 Amount Added: 1.00 Units: mL

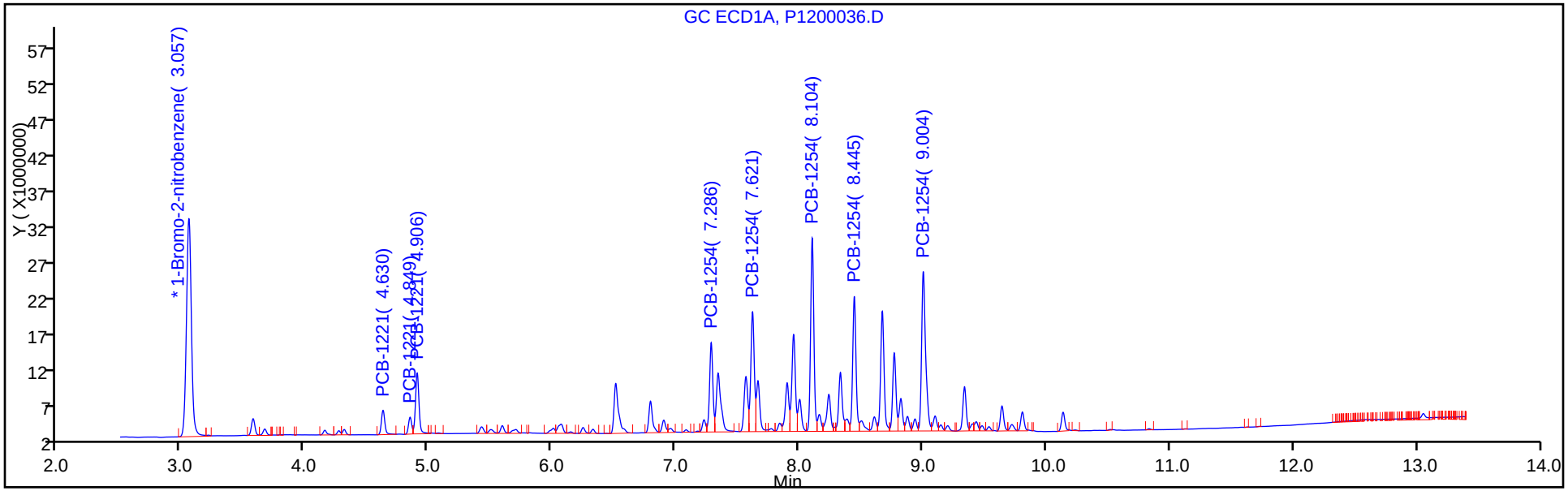
Report Date: 26-Apr-2015 19:55:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

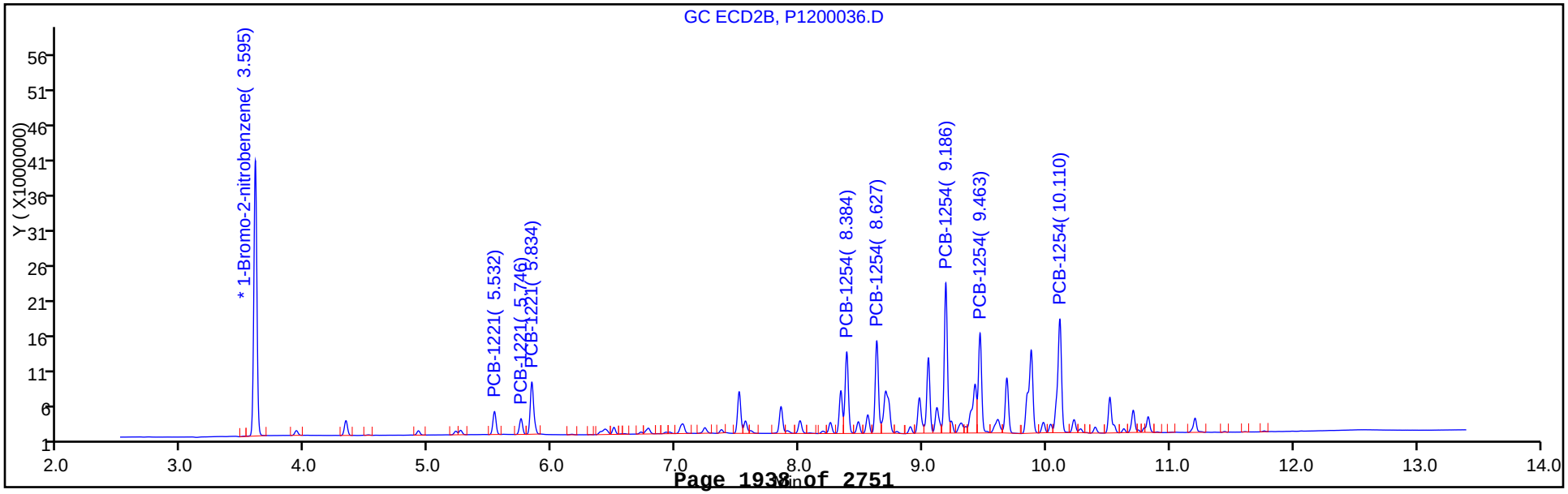
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200036.D

Injection Date:	24-Apr-2015 18:13:56	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	RTC AR1221/1254			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/11 Calibration Date: 04/24/2015 19:26

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200040.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0134	0.0141		0.526	0.500	5.3	20.0
PCB-1016 Peak 2	Ave	0.0267	0.0271		0.508	0.500	1.7	20.0
PCB-1016 Peak 3	Ave	0.0450	0.0553		0.615	0.500	22.9*	20.0
PCB-1016 Peak 4	Ave	0.0272	0.0218		0.402	0.500	-19.7	20.0
PCB-1016 Peak 5	Ave	0.0192	0.0136		0.354	0.500	-29.2*	20.0
PCB-1260 Peak 1	Ave	0.0401	0.0416		0.518	0.500	3.7	20.0
PCB-1260 Peak 2	Ave	0.0626	0.0658		0.526	0.500	5.1	20.0
PCB-1260 Peak 3	Ave	0.0703	0.0727		0.517	0.500	3.4	20.0
PCB-1260 Peak 4	Ave	0.0914	0.0989		0.541	0.500	8.2	20.0
PCB-1260 Peak 5	Ave	0.0453	0.0488		0.539	0.500	7.7	20.0
Tetrachloro-m-xylene	Ave	0.8467	0.8549		0.0252	0.0250	1.0	20.0
DCB Decachlorobiphenyl	Ave	0.8958	0.8521		0.0238	0.0250	-4.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/11 Calibration Date: 04/24/2015 19:26

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200040.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.91	4.88	4.94
PCB-1016 Peak 2	5.43	5.40	5.46
PCB-1016 Peak 3	6.07	6.04	6.10
PCB-1016 Peak 4	6.25	6.22	6.28
PCB-1016 Peak 5	6.33	6.30	6.36
PCB-1260 Peak 1	8.33	8.30	8.36
PCB-1260 Peak 2	8.67	8.64	8.70
PCB-1260 Peak 3	9.00	8.97	9.03
PCB-1260 Peak 4	9.81	9.78	9.84
PCB-1260 Peak 5	10.14	10.11	10.17
Tetrachloro-m-xylene	4.32	4.29	4.35
DCB Decachlorobiphenyl	11.31	11.28	11.34

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200040.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 19:26:19 ALS Bottle#: 40 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-011
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:19 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:39:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	87008976	0.0500	0.0500	
2	3.596	3.596	0.000	68007460	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	37191942	0.0250	0.0252	
2	5.026	5.026	0.000	29883319	0.0250	0.0248	
						RPD = 1.86	
6 PCB-1016							
1	4.906	4.906	0.000	12239791	0.5000	0.5264	
1	5.426	5.426	0.000	23604936	0.5000	0.5084	
1	6.072	6.072	0.000	48151523	0.5000	0.6145	
1	6.250	6.250	0.000	18981306	0.5000	0.4017	
1	6.331	6.331	0.000	11831078	0.5000	0.3540	
		Average of Peak Amounts =				0.4810	
2	5.835	5.835	0.000	10428758	0.5000	0.4952	
2	6.429	6.429	0.000	20048025	0.5000	0.6296	
2	7.054	7.054	0.000	45293671	0.5000	0.5163	
2	7.235	7.235	0.000	16906666	0.5000	0.4811	
2	7.512	7.512	0.000	8830545	0.5000	0.4867	
		Average of Peak Amounts =				0.5218	
						RPD = 8.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.332	8.332	0.000	36168840	0.5000	0.5183	
1	8.674	8.674	0.000	57249232	0.5000	0.5256	
1	9.003	9.003	0.000	63243156	0.5000	0.5172	
1	9.806	9.806	0.000	86077430	0.5000	0.5412	
1	10.136	10.136	0.000	42495495	0.5000	0.5387	
		Average of Peak Amounts =				0.5282	
2	9.424	9.424	0.000	27535035	0.5000	0.4970	
2	9.680	9.680	0.000	31956310	0.5000	0.5139	
2	10.108	10.108	0.000	44375629	0.5000	0.5018	
2	10.825	10.825	0.000	56497780	0.5000	0.4939	
2	11.201	11.201	0.000	41844546	0.5000	0.5226	
		Average of Peak Amounts =				0.5058	
						RPD = 4.32	
$ 12 DCB Decachlorobiphenyl							
1	11.311	11.311	0.000	37070602	0.0250	0.0238	
2	12.296	12.296	0.000	24096910	0.0250	0.0235	
						RPD = 1.22	
16 1260 Res 1							
1	10.136	10.136	0.000	42495495	NR	NR	
2	9.680	9.680	0.000	31956310	NR	NR	
13 1260 Res 2							
1		10.184			ND	ND	
2		9.778					
15 1260 Res 3							
1		10.232			ND	ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

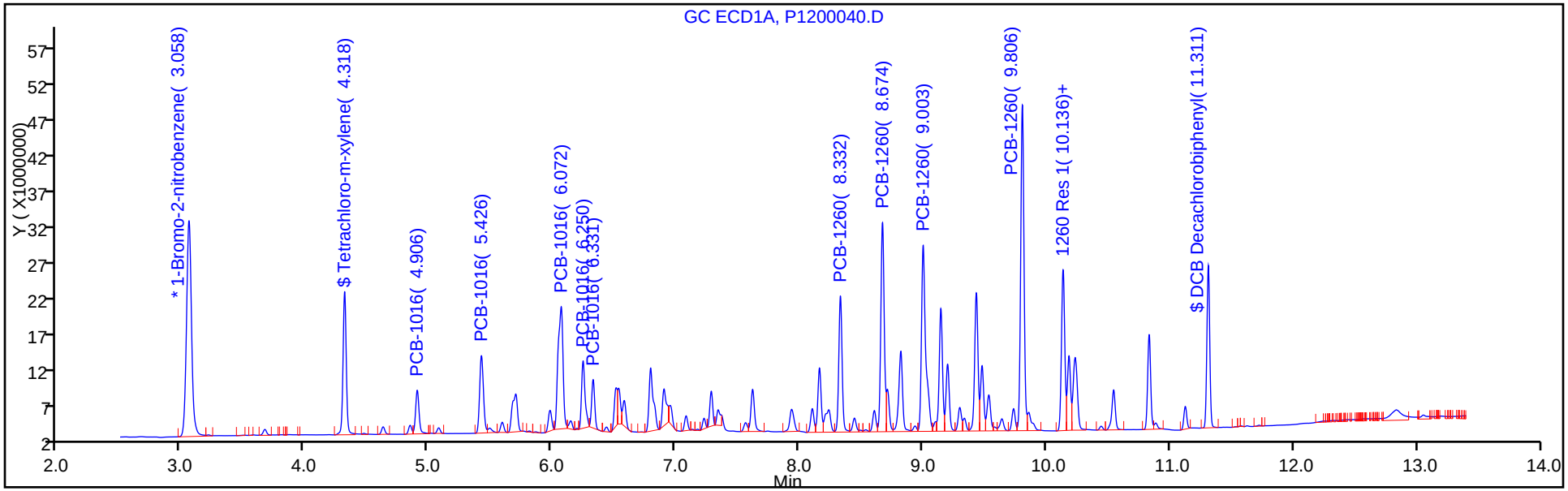
Report Date: 26-Apr-2015 19:55:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

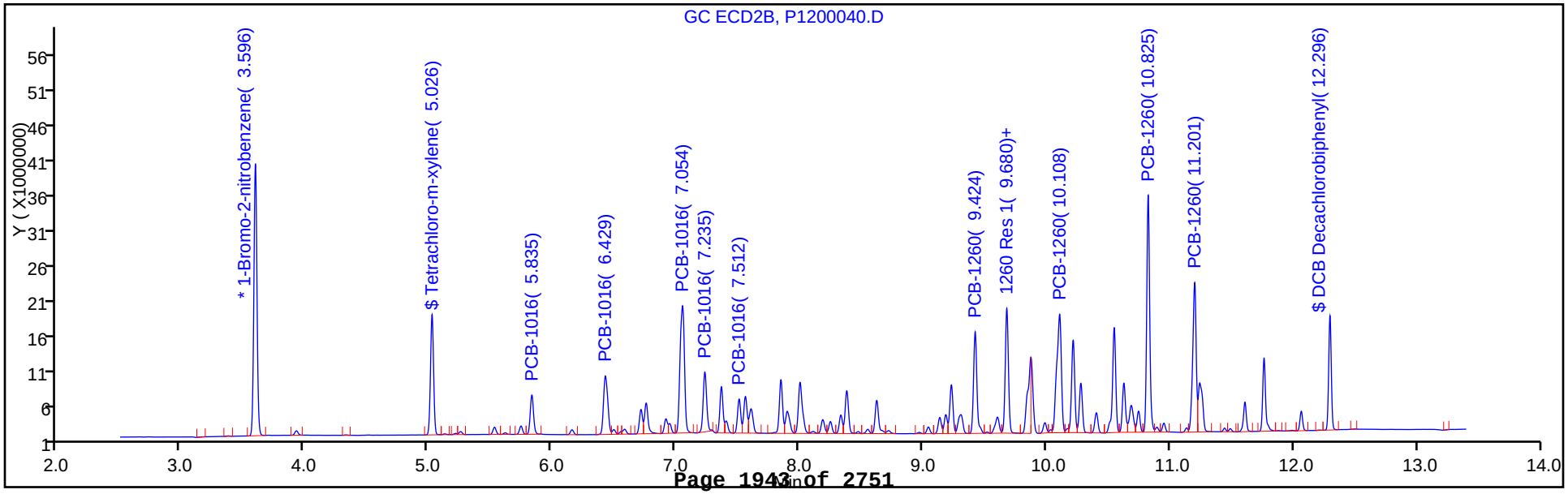
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200040.D

Injection Date:	24-Apr-2015 19:26:19	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/11 Calibration Date: 04/24/2015 19:26

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200040.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0155	0.0153		0.495	0.500	-1.0	20.0
PCB-1016 Peak 2	Ave	0.0234	0.0295		0.630	0.500	25.9*	20.0
PCB-1016 Peak 3	Ave	0.0645	0.0666		0.516	0.500	3.3	20.0
PCB-1016 Peak 4	Ave	0.0258	0.0249		0.481	0.500	-3.8	20.0
PCB-1016 Peak 5	Ave	0.0133	0.0130		0.487	0.500	-2.7	20.0
PCB-1260 Peak 1	Ave	0.0407	0.0405		0.497	0.500	-0.6	20.0
PCB-1260 Peak 2	Ave	0.0457	0.0470		0.514	0.500	2.8	20.0
PCB-1260 Peak 3	Ave	0.0650	0.0653		0.502	0.500	0.4	20.0
PCB-1260 Peak 4	Ave	0.0841	0.0831		0.494	0.500	-1.2	20.0
PCB-1260 Peak 5	Ave	0.0589	0.0615		0.523	0.500	4.5	20.0
Tetrachloro-m-xylene	Ave	0.8867	0.8788		0.0248	0.0250	-0.9	20.0
DCB Decachlorobiphenyl	Ave	0.7541	0.7087		0.0235	0.0250	-6.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 240-177830/11 Calibration Date: 04/24/2015 19:26

Instrument ID: A2HP12 Calib Start Date: 04/23/2015 01:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 04/23/2015 02:34

Lab File ID: P1200040.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.84	5.81	5.87
PCB-1016 Peak 2	6.43	6.40	6.46
PCB-1016 Peak 3	7.05	7.02	7.08
PCB-1016 Peak 4	7.24	7.21	7.27
PCB-1016 Peak 5	7.51	7.48	7.54
PCB-1260 Peak 1	9.42	9.39	9.45
PCB-1260 Peak 2	9.68	9.65	9.71
PCB-1260 Peak 3	10.11	10.08	10.14
PCB-1260 Peak 4	10.83	10.80	10.86
PCB-1260 Peak 5	11.20	11.17	11.23
Tetrachloro-m-xylene	5.03	5.00	5.06
DCB Decachlorobiphenyl	12.30	12.27	12.33

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200040.D
Lims ID: CCV AR1660
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 19:26:19 ALS Bottle#: 40 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-011
Operator ID: Instrument ID: A2HP12
Sublist: chrom-PCB12IS*sub8

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:19 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:39:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	87008976	0.0500	0.0500	
2	3.596	3.596	0.000	68007460	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	37191942	0.0250	0.0252	
2	5.026	5.026	0.000	29883319	0.0250	0.0248	
						RPD = 1.86	
6 PCB-1016							
1	4.906	4.906	0.000	12239791	0.5000	0.5264	
1	5.426	5.426	0.000	23604936	0.5000	0.5084	
1	6.072	6.072	0.000	48151523	0.5000	0.6145	
1	6.250	6.250	0.000	18981306	0.5000	0.4017	
1	6.331	6.331	0.000	11831078	0.5000	0.3540	
		Average of Peak Amounts =				0.4810	
2	5.835	5.835	0.000	10428758	0.5000	0.4952	
2	6.429	6.429	0.000	20048025	0.5000	0.6296	
2	7.054	7.054	0.000	45293671	0.5000	0.5163	
2	7.235	7.235	0.000	16906666	0.5000	0.4811	
2	7.512	7.512	0.000	8830545	0.5000	0.4867	
		Average of Peak Amounts =				0.5218	
						RPD = 8.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.332	8.332	0.000	36168840	0.5000	0.5183	
1	8.674	8.674	0.000	57249232	0.5000	0.5256	
1	9.003	9.003	0.000	63243156	0.5000	0.5172	
1	9.806	9.806	0.000	86077430	0.5000	0.5412	
1	10.136	10.136	0.000	42495495	0.5000	0.5387	
		Average of Peak Amounts =				0.5282	
2	9.424	9.424	0.000	27535035	0.5000	0.4970	
2	9.680	9.680	0.000	31956310	0.5000	0.5139	
2	10.108	10.108	0.000	44375629	0.5000	0.5018	
2	10.825	10.825	0.000	56497780	0.5000	0.4939	
2	11.201	11.201	0.000	41844546	0.5000	0.5226	
		Average of Peak Amounts =				0.5058	
						RPD = 4.32	
$ 12 DCB Decachlorobiphenyl							
1	11.311	11.311	0.000	37070602	0.0250	0.0238	
2	12.296	12.296	0.000	24096910	0.0250	0.0235	
						RPD = 1.22	
16 1260 Res 1							
1	10.136	10.136	0.000	42495495	NR	NR	
2	9.680	9.680	0.000	31956310	NR	NR	
13 1260 Res 2							
1		10.184			ND	ND	
2		9.778					
15 1260 Res 3							
1		10.232			ND	ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

SG1660@0.5PPM_00047 Amount Added: 1.00 Units: mL

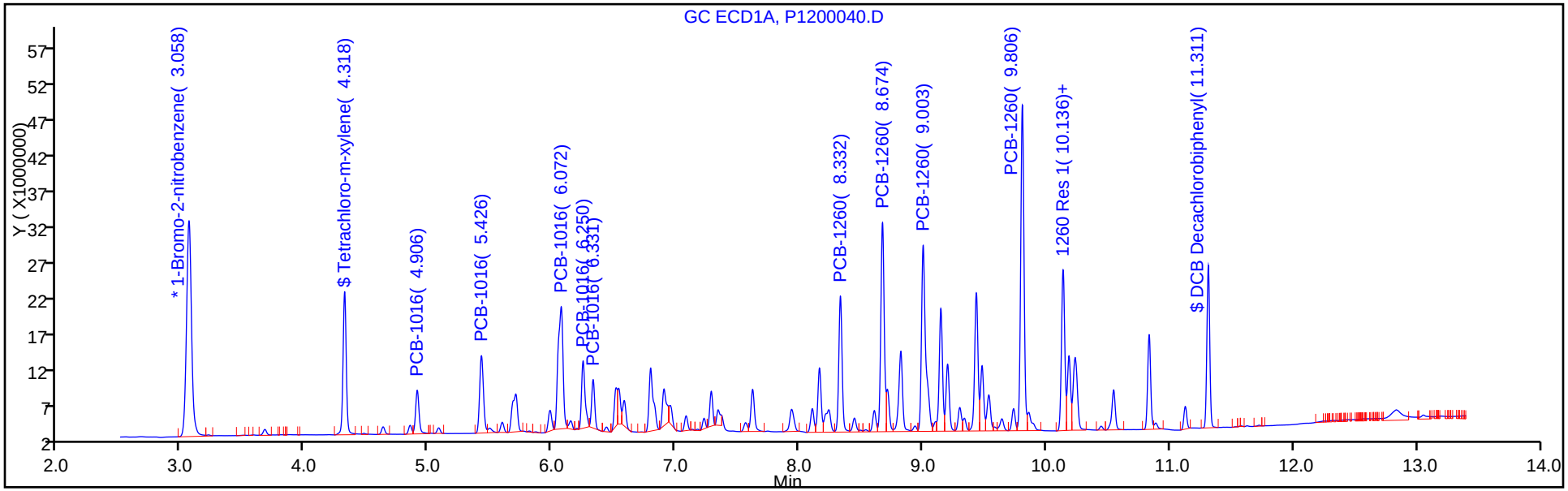
Report Date: 26-Apr-2015 19:55:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

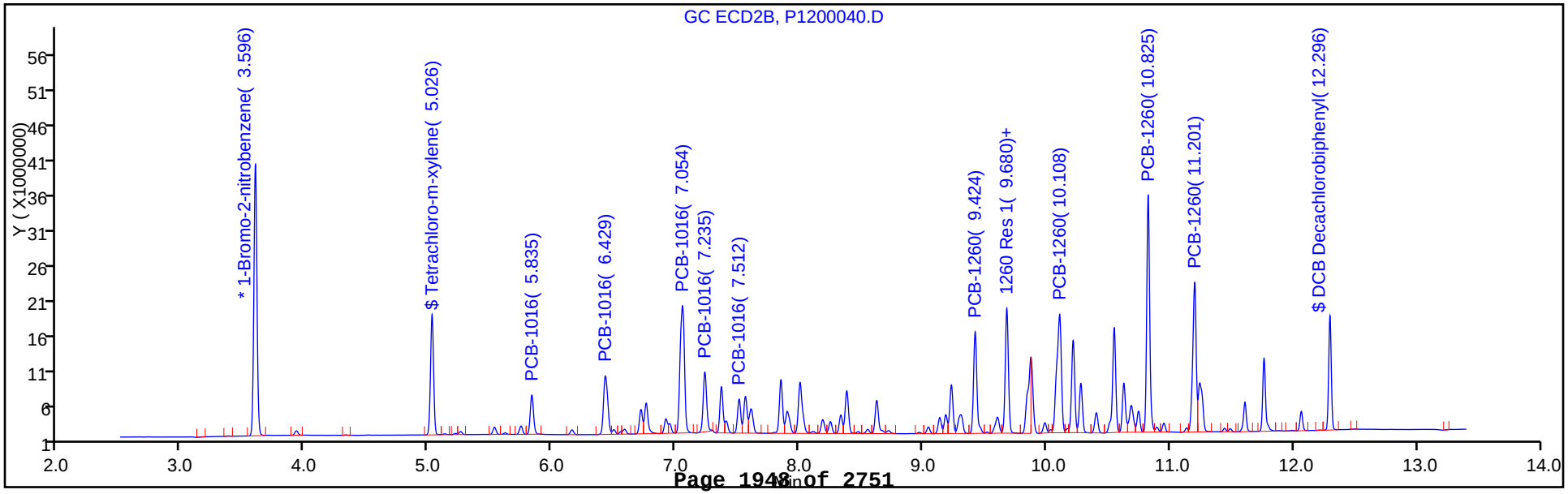
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200040.D

Injection Date:	24-Apr-2015 19:26:19	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	CCV AR1660			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 240-177040/4-A

Matrix: Solid | Lab File ID: P1200045.D

Analysis Method: 8082 | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:04

Sample wt/vol: 30(g) | Date Analyzed: 04/23/2015 20:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177609 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		40-140
2051-24-3	DCB Decachlorobiphenyl	116		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200045.D
Lims ID: MB 240-177040/4-A
Client ID:
Sample Type: MB
Inject. Date: 23-Apr-2015 20:20:37 ALS Bottle#: 45 Worklist Smp#: 13
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-013
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:17:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.058	0.000	77882584	0.0500	0.0500	
2	3.596	3.596	0.000	60796595	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	31060775	0.0200	0.0236	
2	5.027	5.027	0.000	24755587	0.0200	0.0230	
						RPD = 2.54	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1		4.907				ND	
1		5.427					
1		6.073					
1		6.250					
1		6.331					
2		5.834					
2		6.431					
2		7.056					
2		7.237					
2		7.514					
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1		8.334				ND	
1		8.675					
1		9.004					
1		9.808					
1		10.138					
2		9.426					
2		9.682					
2		10.110					
2		10.827					
2		11.203					
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.313	-0.001	32458118	0.0200	0.0233	
2	12.298	12.298	0.000	21814999	0.0200	0.0238	
						RPD = 2.24	
16 1260 Res 1							
1	10.136	10.138	-0.002	175321		NR	
2	9.682	9.682	0.001	651561		NR	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
13 1260 Res 2							
1	10.185	10.185	0.000	64930			NR
2	9.767	9.778	-0.012	1284811			NR
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

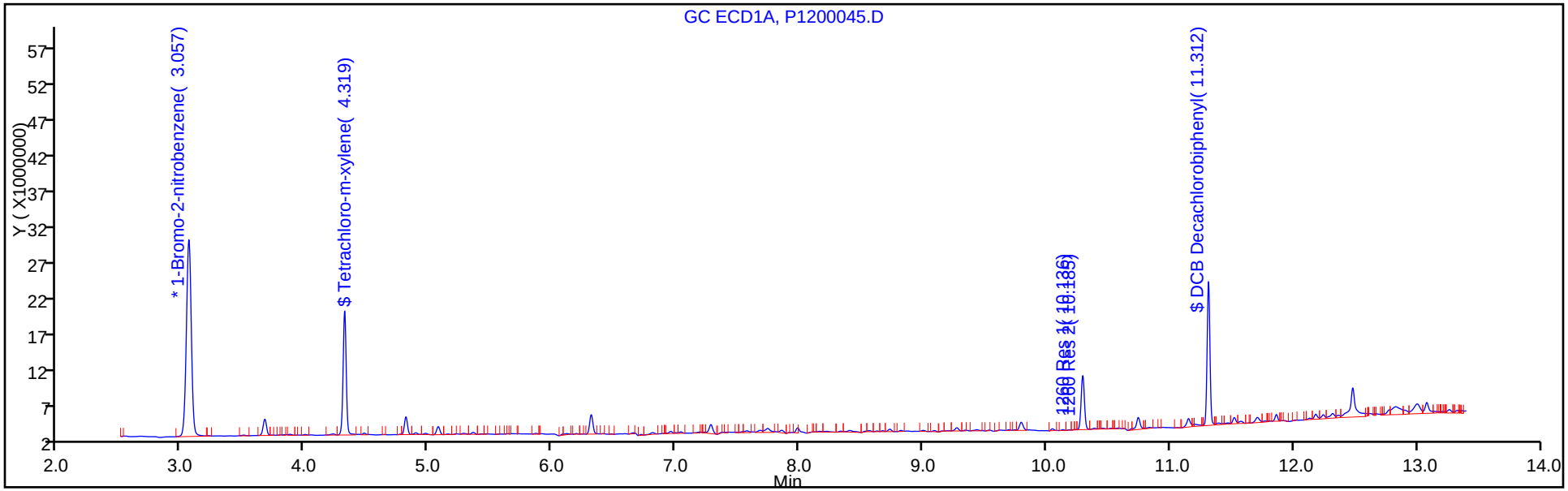
Report Date: 24-Apr-2015 10:24:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

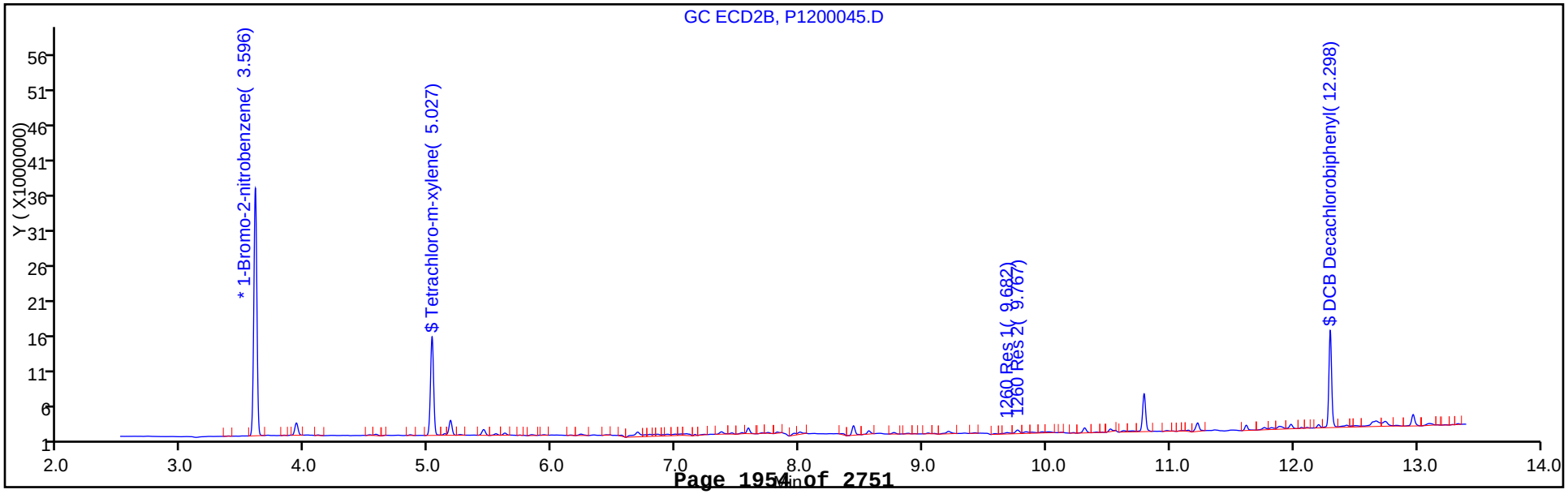
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200045.D

Injection Date:	23-Apr-2015 20:20:37	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MB 240-177040/4-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MB 240-177040/4-A

Matrix: Solid Lab File ID: P1200045.D

Analysis Method: 8082 Date Collected:

Extraction Method: 3540C Date Extracted: 04/20/2015 09:04

Sample wt/vol: 30(g) Date Analyzed: 04/23/2015 20:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177609 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	33	U	50	33	16
12674-11-2	Aroclor-1016	33	U	65	33	12
11141-16-5	Aroclor-1232	33	U	45	33	20
53469-21-9	Aroclor-1242	33	U	40	33	11
12672-29-6	Aroclor-1248	33	U	55	33	8.0
11097-69-1	Aroclor-1254	33	U	55	33	14
11096-82-5	Aroclor-1260	33	U	55	33	9.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		40-140
2051-24-3	DCB Decachlorobiphenyl	119		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200045.D
Lims ID: MB 240-177040/4-A
Client ID:
Sample Type: MB
Inject. Date: 23-Apr-2015 20:20:37 ALS Bottle#: 45 Worklist Smp#: 13
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-013
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:17:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.058	0.000	77882584	0.0500	0.0500	
2	3.596	3.596	0.000	60796595	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	31060775	0.0200	0.0236	
2	5.027	5.027	0.000	24755587	0.0200	0.0230	
						RPD = 2.54	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1		4.907				ND	
1		5.427					
1		6.073					
1		6.250					
1		6.331					
2		5.834					
2		6.431					
2		7.056					
2		7.237					
2		7.514					
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1		8.334				ND	
1		8.675					
1		9.004					
1		9.808					
1		10.138					
2		9.426					
2		9.682					
2		10.110					
2		10.827					
2		11.203					
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.313	-0.001	32458118	0.0200	0.0233	
2	12.298	12.298	0.000	21814999	0.0200	0.0238	
						RPD = 2.24	
16 1260 Res 1							
1	10.136	10.138	-0.002	175321		NR	
2	9.682	9.682	0.001	651561		NR	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
13 1260 Res 2							
1	10.185	10.185	0.000	64930			NR
2	9.767	9.778	-0.012	1284811			NR
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

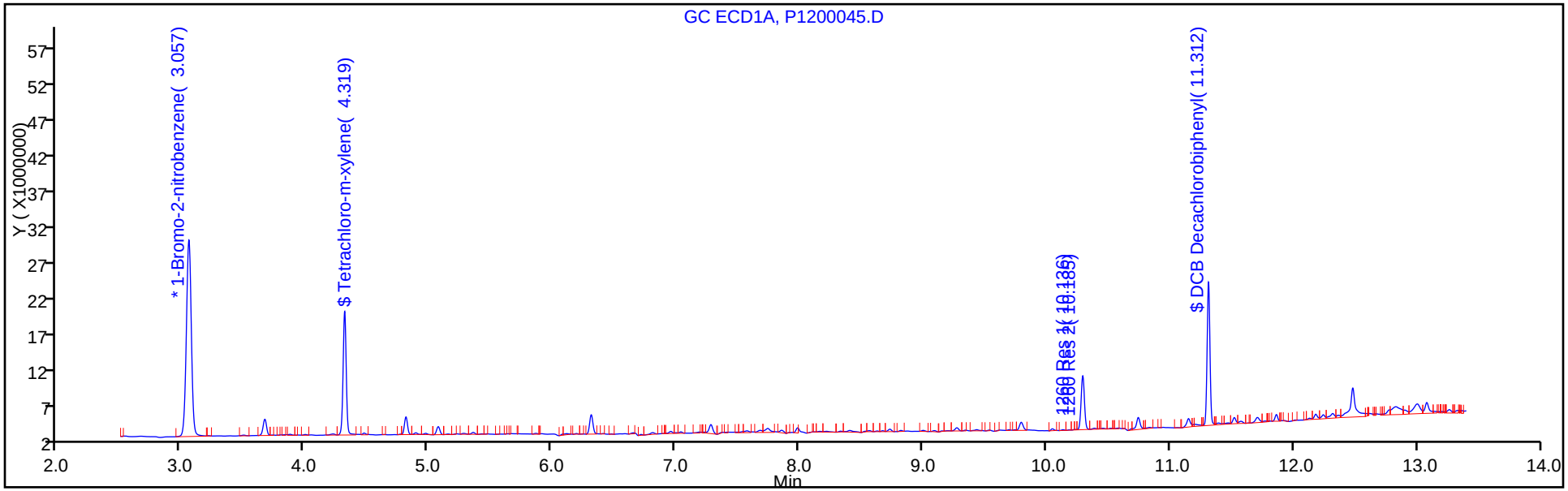
Report Date: 24-Apr-2015 10:24:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

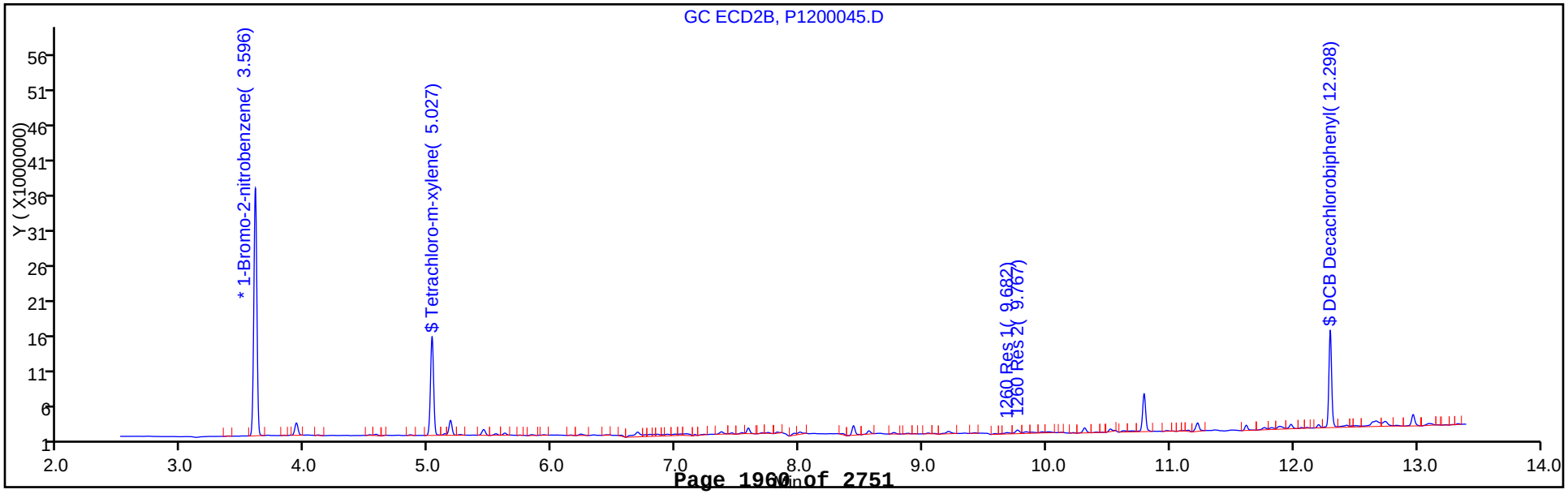
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200045.D

Injection Date:	23-Apr-2015 20:20:37	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MB 240-177040/4-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	45
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 240-177040/5-A

Matrix: Solid Lab File ID: P1200039.D

Analysis Method: 8082 Date Collected:

Extraction Method: 3540C Date Extracted: 04/20/2015 09:04

Sample wt/vol: 30(g) Date Analyzed: 04/24/2015 19:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177830 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	81		40-140
2051-24-3	DCB Decachlorobiphenyl	86		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D
Lims ID: LCS 240-177040/5-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Apr-2015 19:08:13 ALS Bottle#: 39 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-010
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:15 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:38:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.057	0.001	92900789	0.0500	0.0500	
2	3.596	3.595	0.000	72964154	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	25588740	0.0200	0.0163	
2	5.026	5.025	0.001	20039471	0.0200	0.0155	
						RPD = 4.91	
6 PCB-1016							
1	4.908	4.906	0.002	18462852	1.00	0.7437	
1	5.426	5.425	0.001	37945022	1.00	0.7655	
1	6.073	6.072	0.001	73010902	1.00	0.8727	
1	6.248	6.249	-0.001	36341577	1.00	0.7203	
1	6.329	6.330	-0.001	26723849	1.00	0.7488	
		Average of Peak Amounts =				0.7702	
2	5.834	5.834	0.000	15095411	1.00	0.6681	
2	6.430	6.429	0.001	30780462	1.00	0.9010	
2	7.055	7.054	0.001	75238934	1.00	0.7994	
2	7.235	7.234	0.001	27075733	1.00	0.7182	
2	7.513	7.512	0.001	14165585	1.00	0.7277	
		Average of Peak Amounts =				0.7629	
						RPD = 0.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	58106245	1.00	0.7798	
1	8.673	8.674	-0.001	96366165	1.00	0.8286	
1	9.002	9.003	-0.001	109329839	1.00	0.8374	
1	9.806	9.806	0.000	130452355	1.00	0.7682	
1	10.136	10.136	0.000	71289772	1.00	0.8465	
		Average of Peak Amounts =				0.8121	
2	9.424	9.424	0.000	47086097	1.00	0.7922	
2	9.680	9.680	0.000	52890151	1.00	0.7927	
2	10.108	10.107	0.001	82289330	1.00	0.8673	
2	10.825	10.824	0.001	97125969	1.00	0.7915	
2	11.202	11.200	0.002	65117296	1.00	0.7580	
		Average of Peak Amounts =				0.8003	
						RPD = 1.46	
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.311	0.001	28521203	0.0200	0.0171	
2	12.297	12.296	0.001	18629098	0.0200	0.0169	
						RPD = 1.23	

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

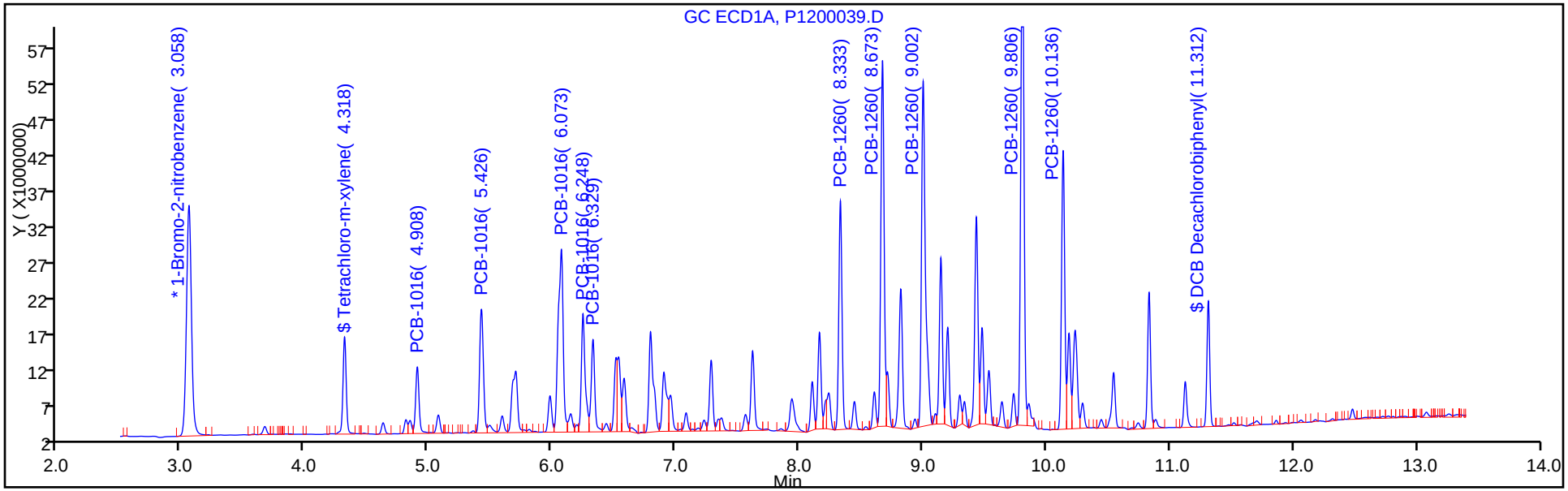
Report Date: 26-Apr-2015 19:55:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

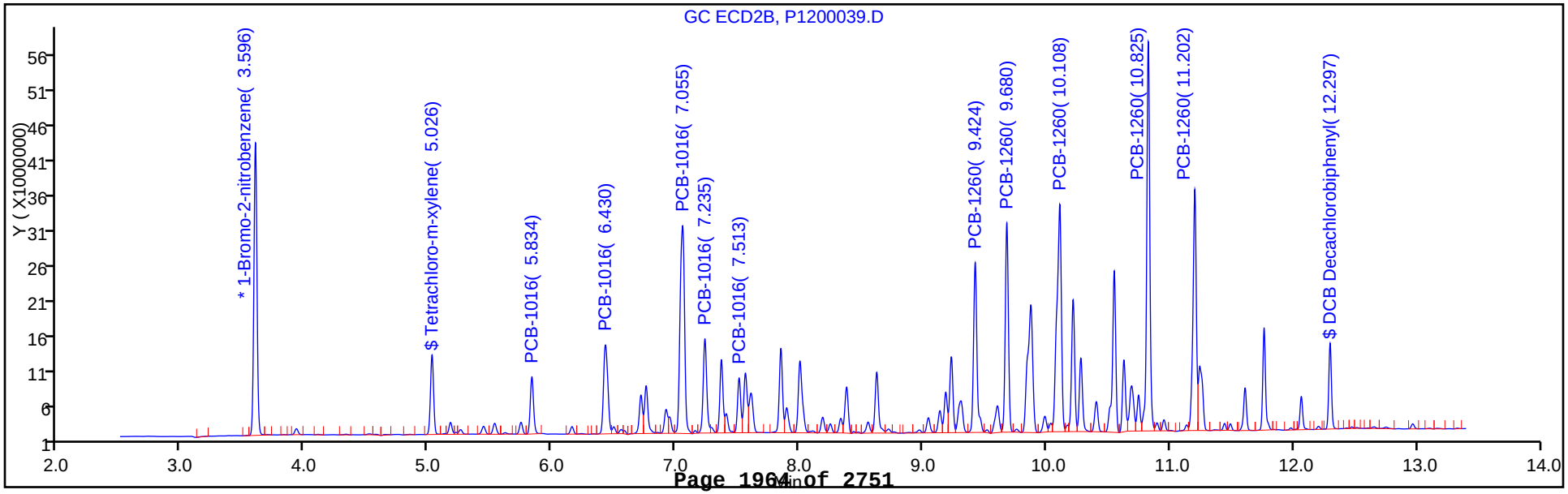
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D

Injection Date:	24-Apr-2015 19:08:13	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	LCS 240-177040/5-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 26-Apr-2015 19:55:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D

Injection Date: 24-Apr-2015 19:08:13 Instrument ID: A2HP12

Lims ID: LCS 240-177040/5-A

Client ID:

Operator ID: ALS Bottle#: 39 Worklist Smp#: 10

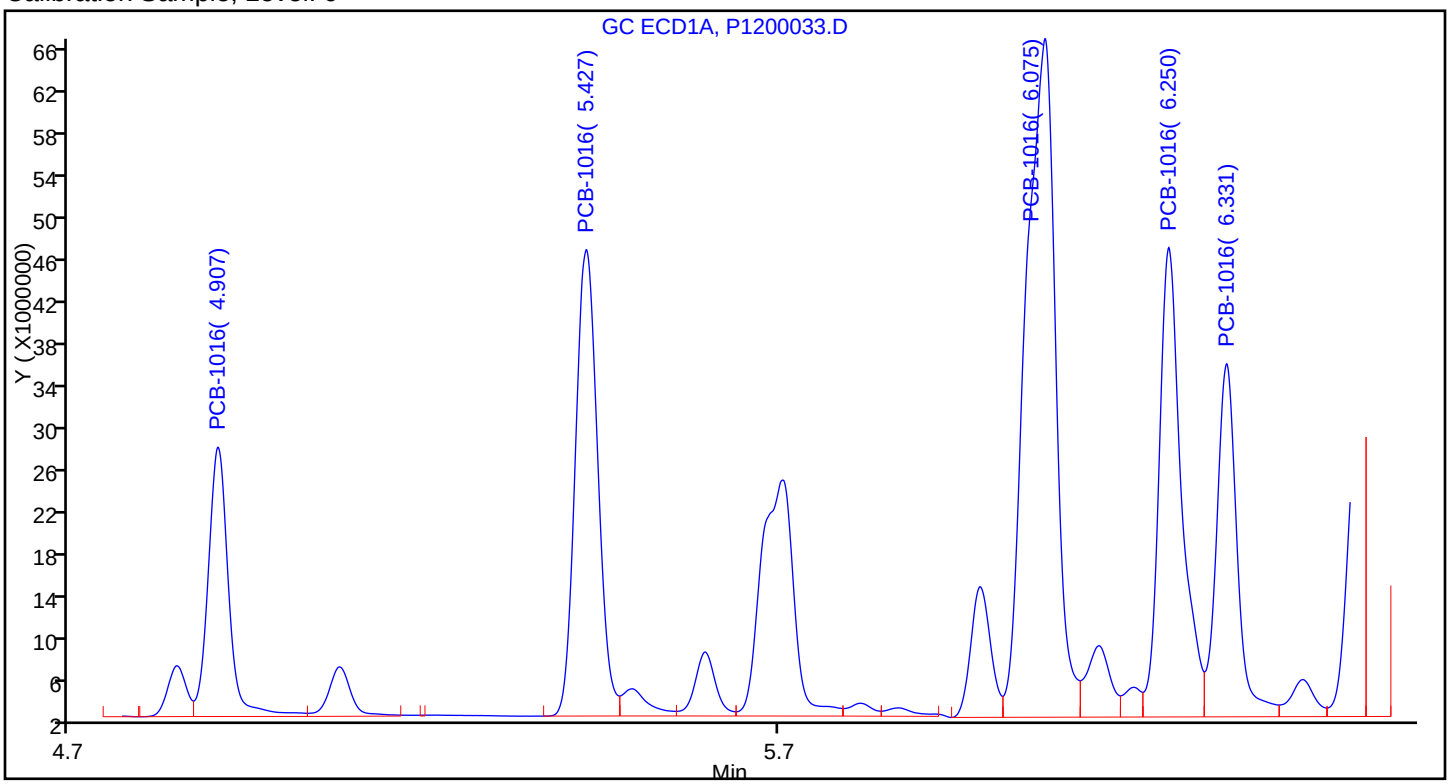
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

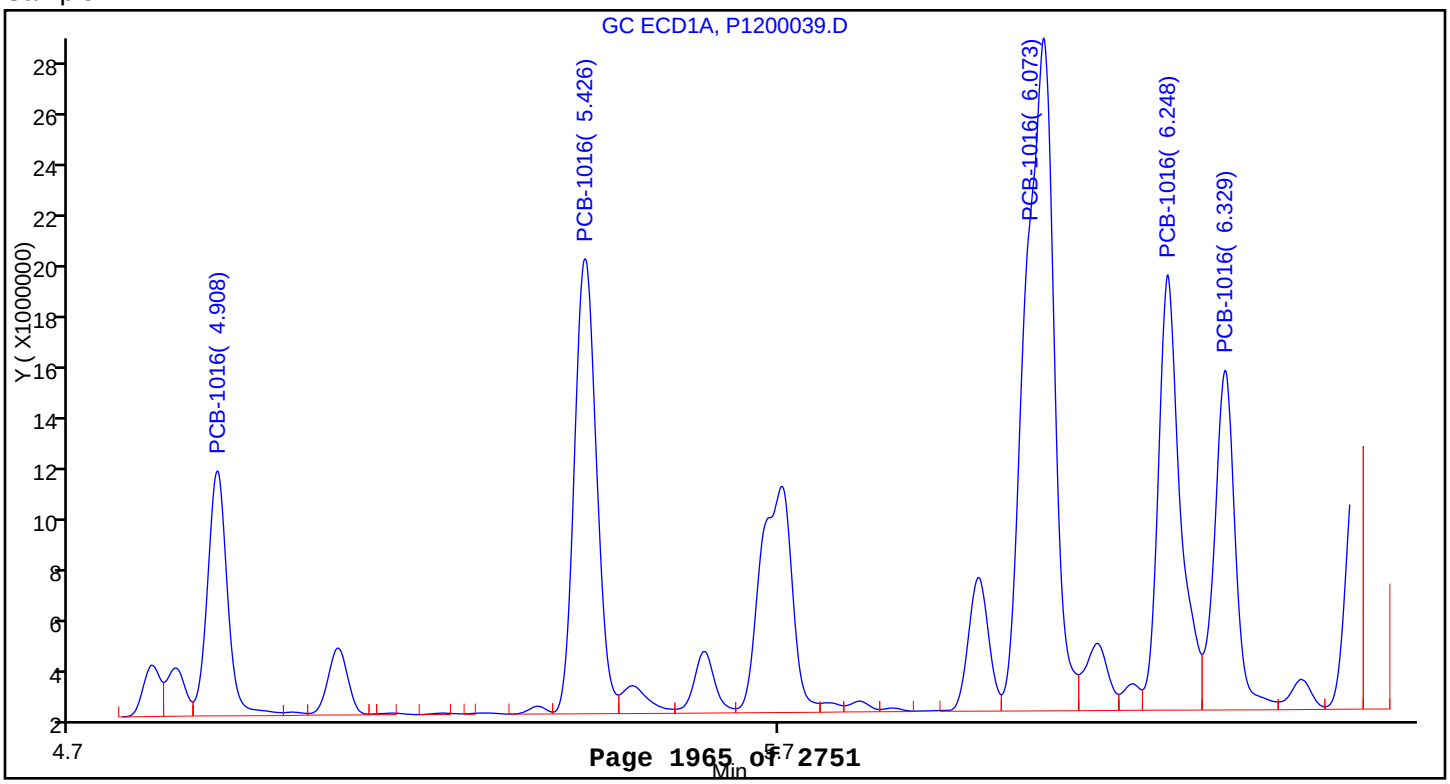
Column: Detector GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 26-Apr-2015 19:55:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

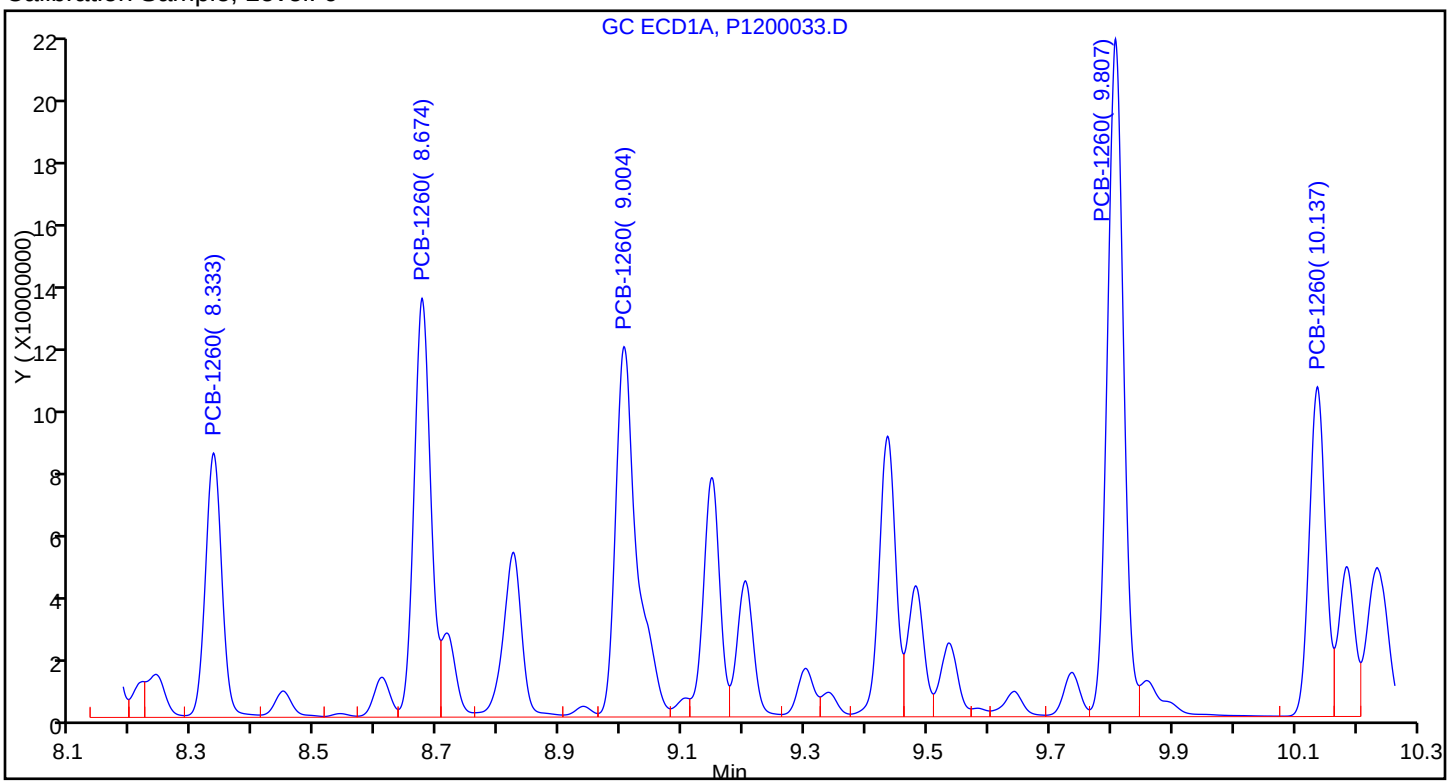
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D

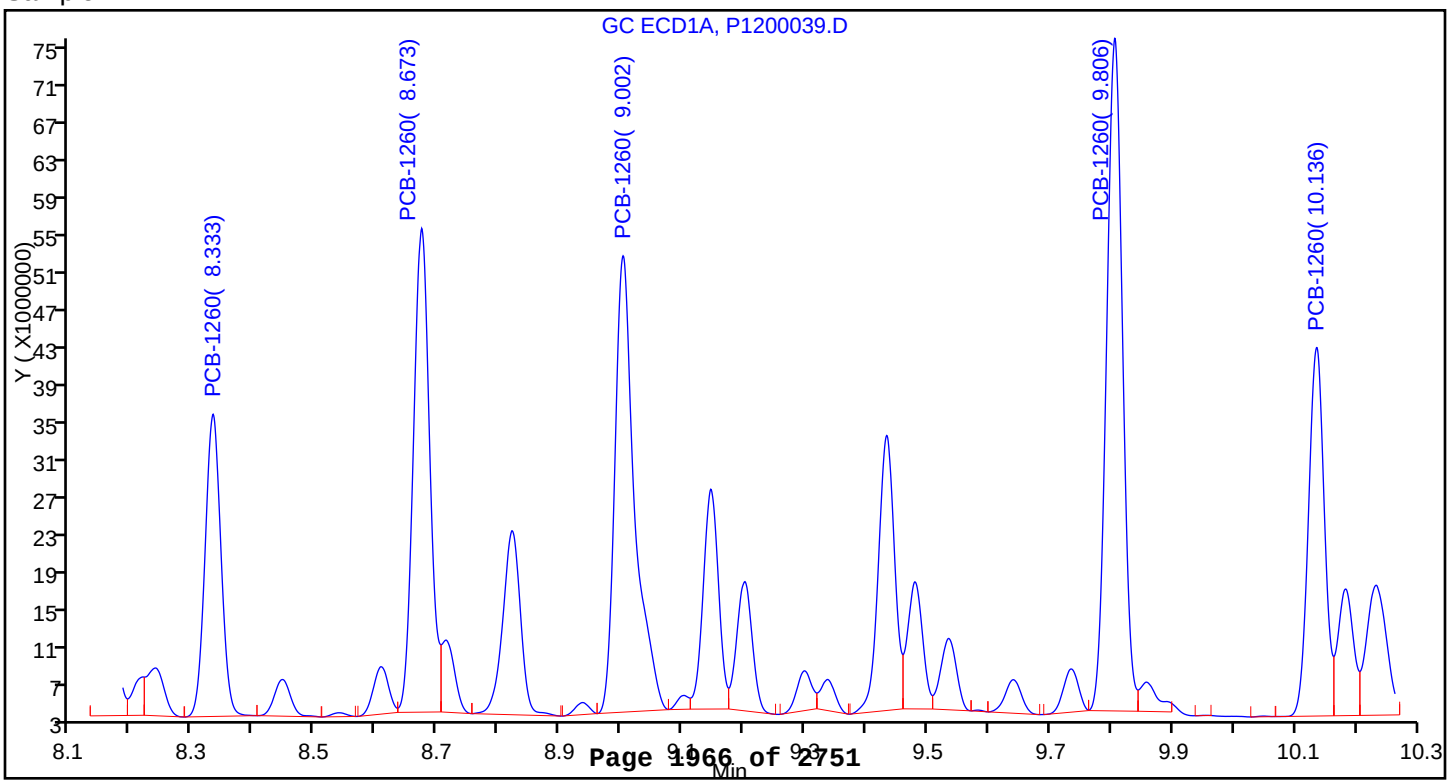
Injection Date:	24-Apr-2015 19:08:13	Instrument ID:	A2HP12
Lims ID:	LCS 240-177040/5-A		
Client ID:			
Operator ID:		ALS Bottle#:	39 Worklist Smp#: 10
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS
Column:		Detector	GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 240-177040/5-A

Matrix: Solid | Lab File ID: P1200039.D

Analysis Method: 8082 | Date Collected:

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:04

Sample wt/vol: 30(g) | Date Analyzed: 04/24/2015 19:08

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177830 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	Aroclor-1016	254		65	33	12
11096-82-5	Aroclor-1260	267		55	33	9.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		40-140
2051-24-3	DCB Decachlorobiphenyl	85		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D
Lims ID: LCS 240-177040/5-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Apr-2015 19:08:13 ALS Bottle#: 39 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-010
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:15 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:38:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.057	0.001	92900789	0.0500	0.0500	
2	3.596	3.595	0.000	72964154	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.318	4.318	0.000	25588740	0.0200	0.0163	
2	5.026	5.025	0.001	20039471	0.0200	0.0155	
						RPD = 4.91	
6 PCB-1016							
1	4.908	4.906	0.002	18462852	1.00	0.7437	
1	5.426	5.425	0.001	37945022	1.00	0.7655	
1	6.073	6.072	0.001	73010902	1.00	0.8727	
1	6.248	6.249	-0.001	36341577	1.00	0.7203	
1	6.329	6.330	-0.001	26723849	1.00	0.7488	
		Average of Peak Amounts =				0.7702	
2	5.834	5.834	0.000	15095411	1.00	0.6681	
2	6.430	6.429	0.001	30780462	1.00	0.9010	
2	7.055	7.054	0.001	75238934	1.00	0.7994	
2	7.235	7.234	0.001	27075733	1.00	0.7182	
2	7.513	7.512	0.001	14165585	1.00	0.7277	
		Average of Peak Amounts =				0.7629	
						RPD = 0.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 PCB-1260							
1	8.333	8.333	0.000	58106245	1.00	0.7798	
1	8.673	8.674	-0.001	96366165	1.00	0.8286	
1	9.002	9.003	-0.001	109329839	1.00	0.8374	
1	9.806	9.806	0.000	130452355	1.00	0.7682	
1	10.136	10.136	0.000	71289772	1.00	0.8465	
		Average of Peak Amounts =				0.8121	
2	9.424	9.424	0.000	47086097	1.00	0.7922	
2	9.680	9.680	0.000	52890151	1.00	0.7927	
2	10.108	10.107	0.001	82289330	1.00	0.8673	
2	10.825	10.824	0.001	97125969	1.00	0.7915	
2	11.202	11.200	0.002	65117296	1.00	0.7580	
		Average of Peak Amounts =				0.8003	
						RPD = 1.46	
$ 12 DCB Decachlorobiphenyl							
1	11.312	11.311	0.001	28521203	0.0200	0.0171	
2	12.297	12.296	0.001	18629098	0.0200	0.0169	
						RPD = 1.23	

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

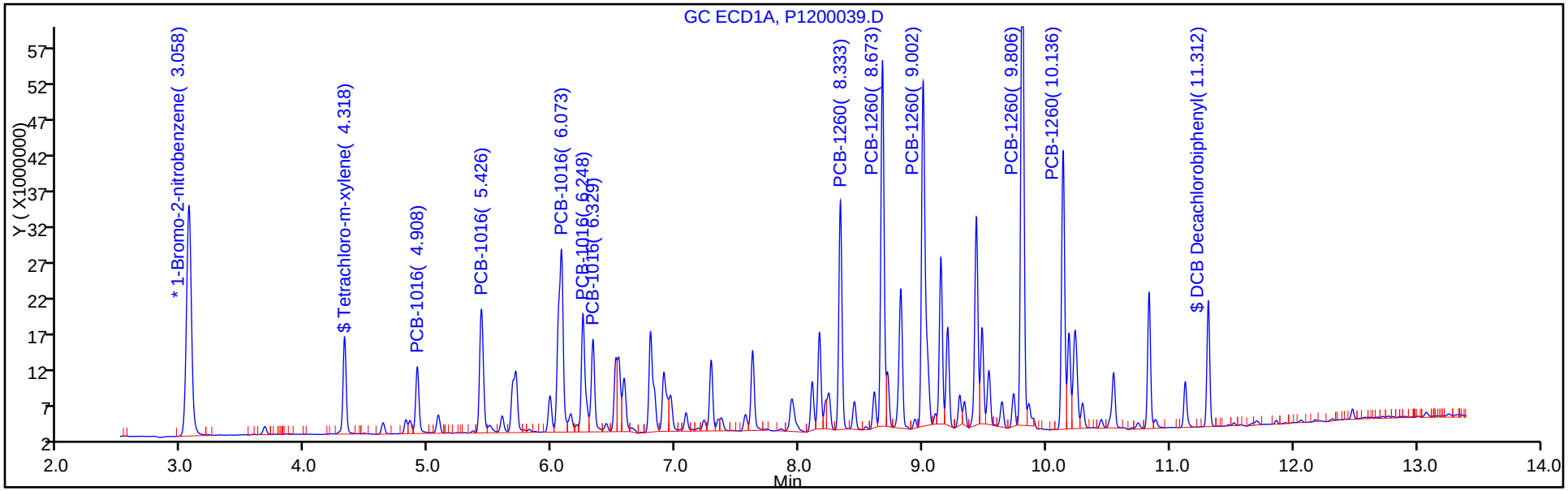
Report Date: 26-Apr-2015 19:55:18 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

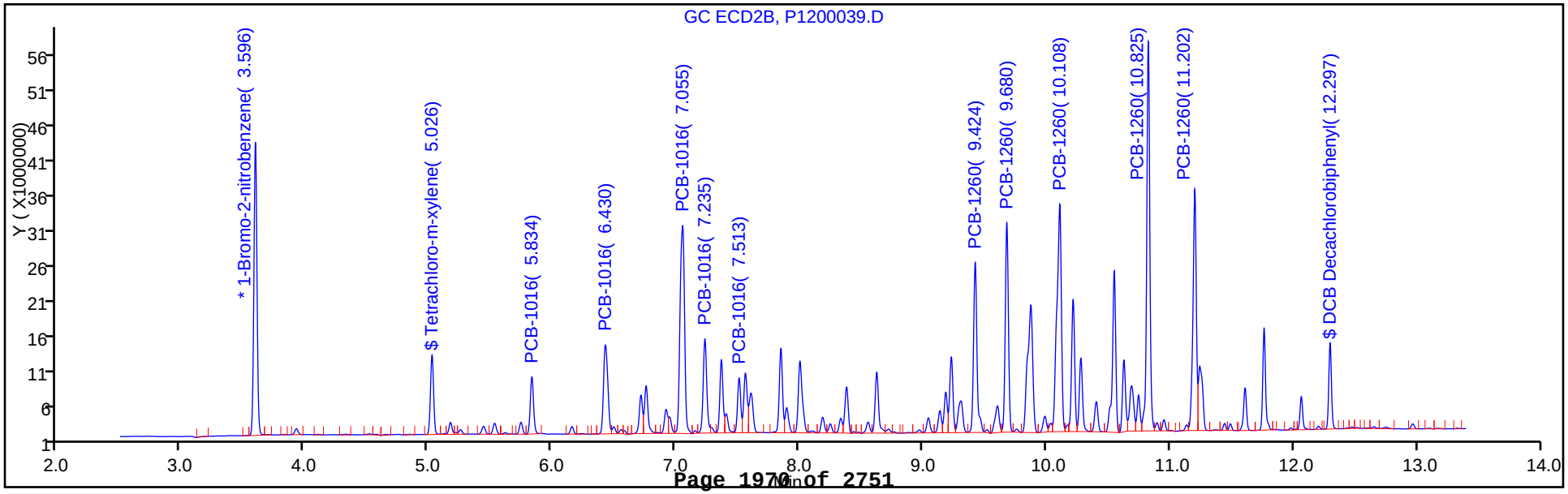
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D

Injection Date:	24-Apr-2015 19:08:13	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	LCS 240-177040/5-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 26-Apr-2015 19:55:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D

Injection Date: 24-Apr-2015 19:08:13 Instrument ID: A2HP12

Lims ID: LCS 240-177040/5-A

Client ID:

Operator ID: ALS Bottle#: 39 Worklist Smp#: 10

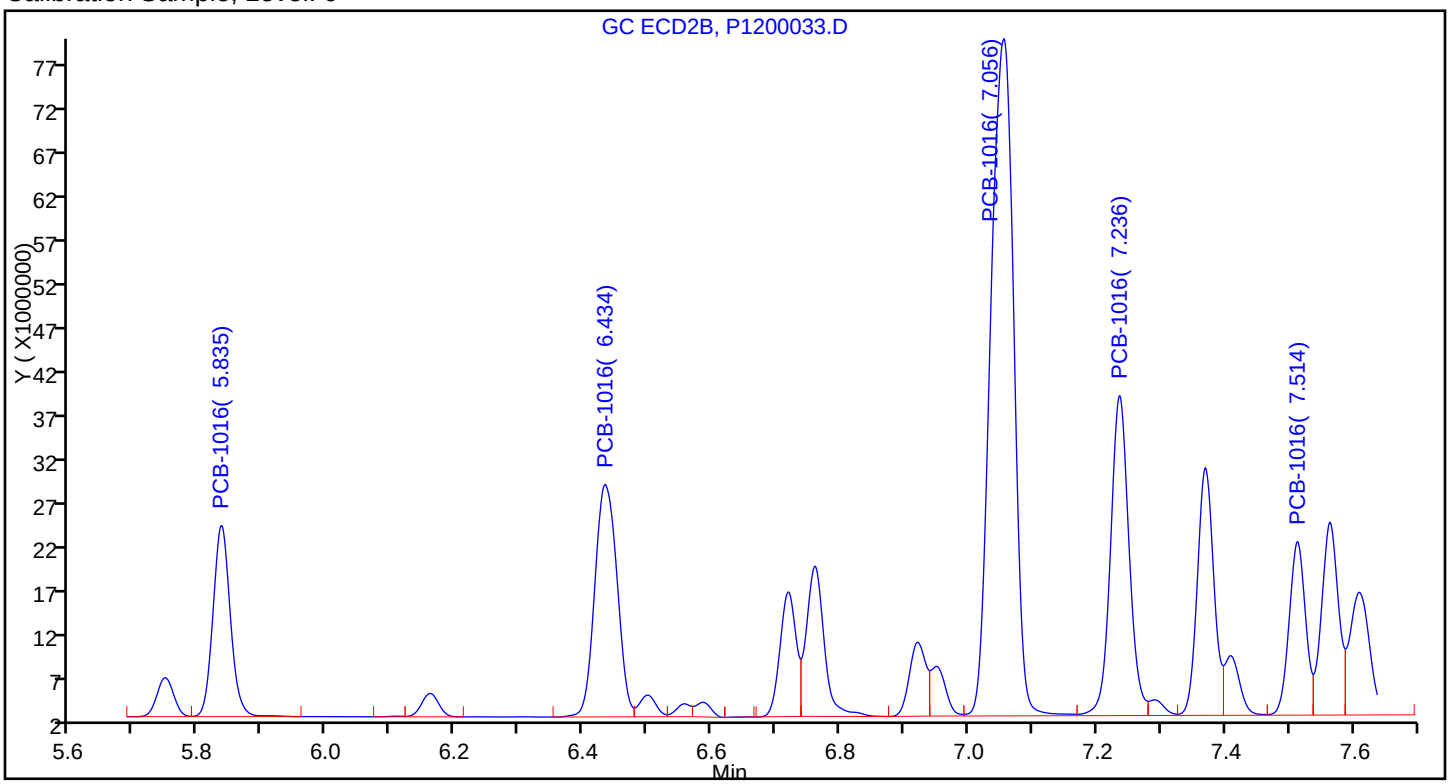
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

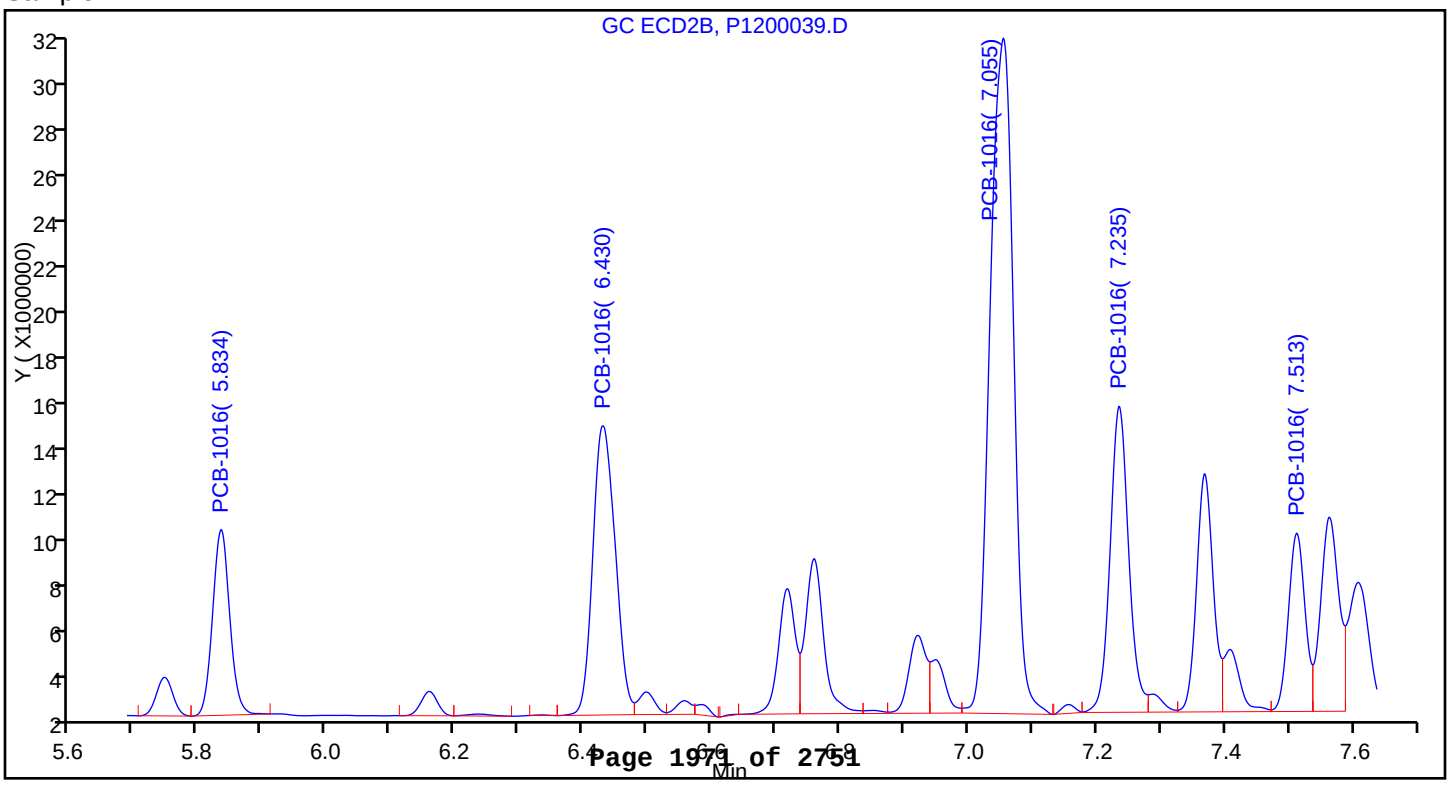
Column: Detector GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 26-Apr-2015 19:55:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200039.D

Injection Date: 24-Apr-2015 19:08:13 Instrument ID: A2HP12

Lims ID: LCS 240-177040/5-A

Client ID:

Operator ID: ALS Bottle#: 39 Worklist Smp#: 10

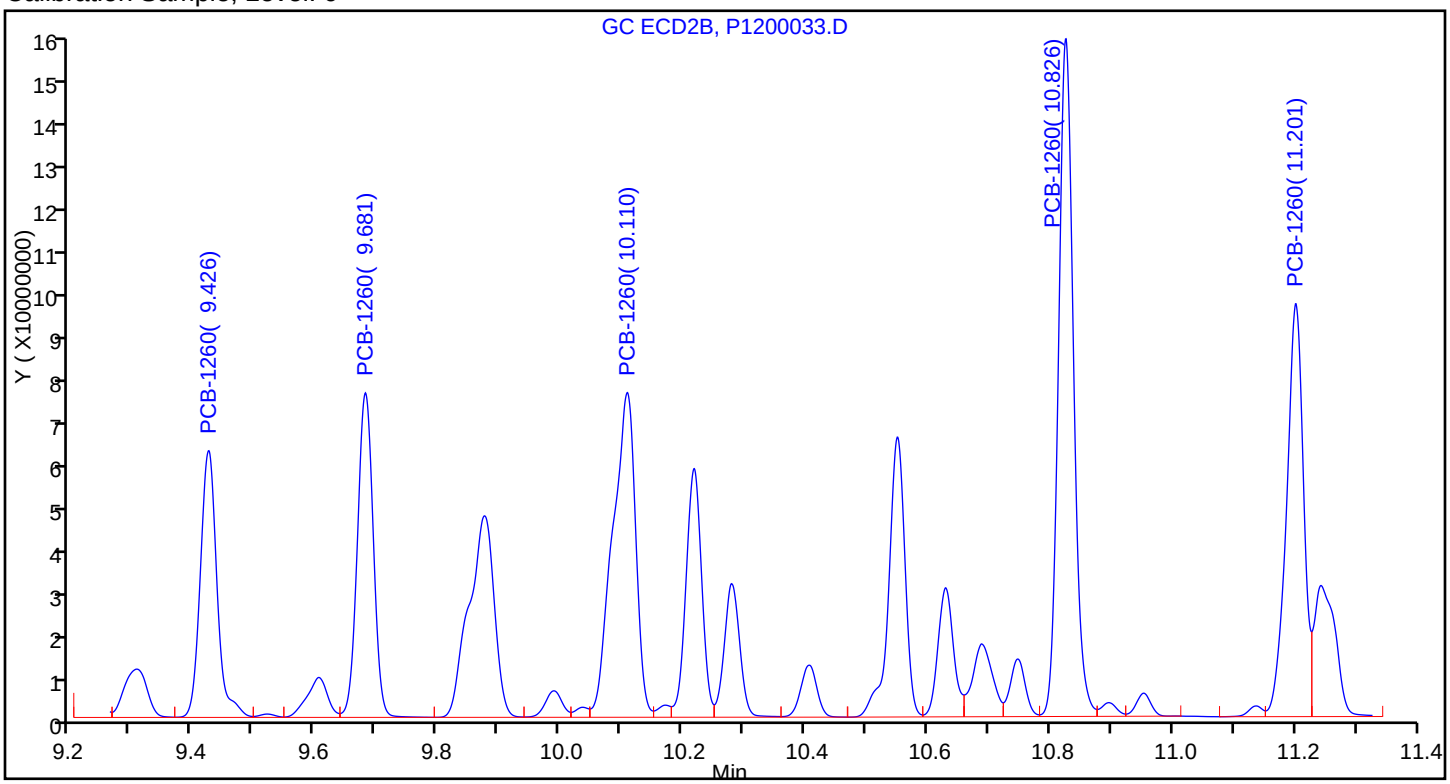
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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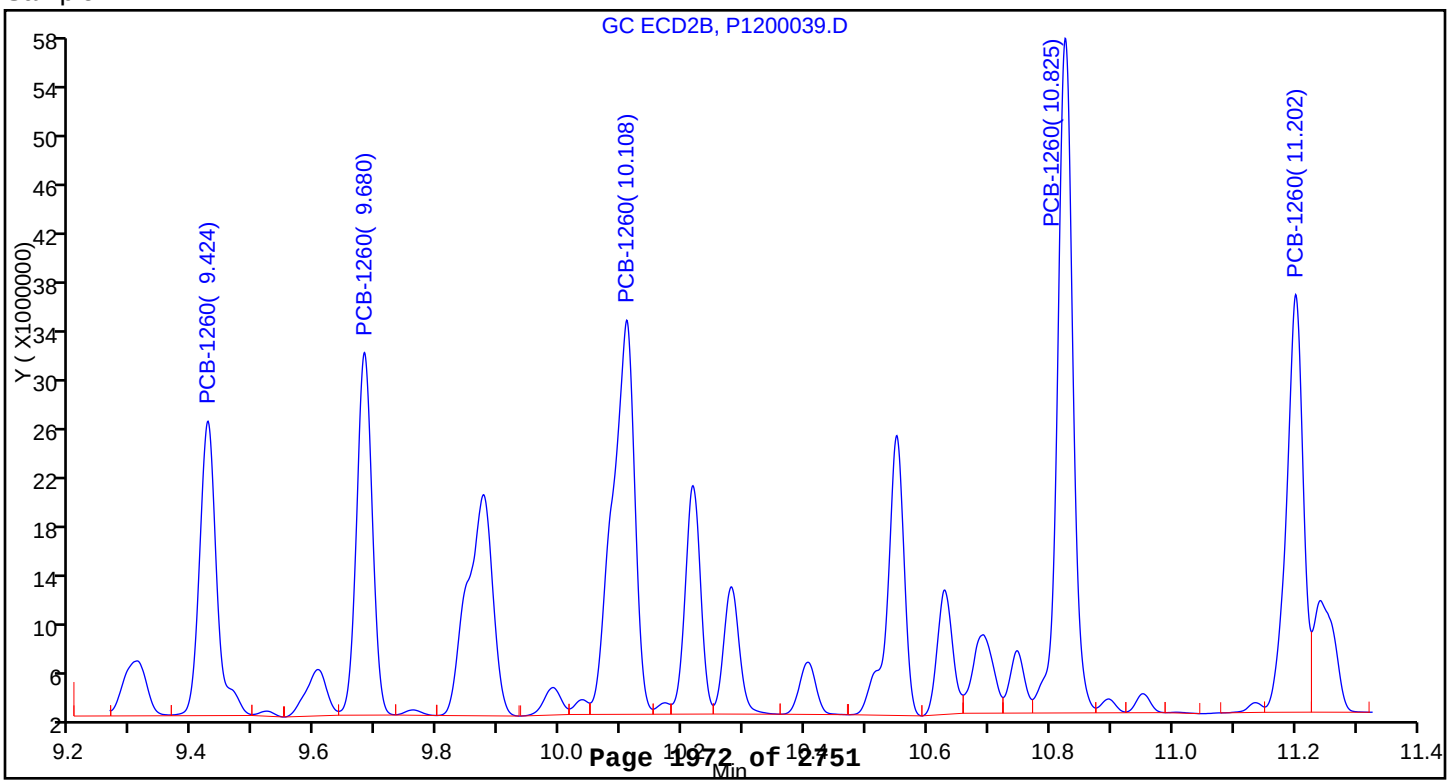


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177609/9

Matrix: Solid | Lab File ID: P1200041.D

Analysis Method: 8082 | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/23/2015 19:08

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177609 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0436*	*J*	*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0445*	*J*	*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		50-150
2051-24-3	DCB Decachlorobiphenyl	97		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 23-Apr-2015 19:08:07 ALS Bottle#: 41 Worklist Smp#: 9
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-009
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:15:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	102134958	0.0500	0.0500	
2	3.596	3.596	0.000	79046088	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	4146266	0.002500	0.002397	
2	5.026	5.027	-0.001	3387401	0.002500	0.002416	
						RPD = 0.79	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	1304442	0.0500	0.0478	
1	5.427	5.427	0.000	2548022	0.0500	0.0468	
1	6.076	6.073	0.003	3918507	0.0500	0.0426	
1	6.250	6.250	0.000	2128361	0.0500	0.0384	
1	6.330	6.331	-0.001	1669788	0.0500	0.0426	
		Average of Peak Amounts =				0.0436	
2	5.835	5.834	0.001	1223582	0.0500	0.0500	
2	6.430	6.431	-0.001	2688148	0.0500	0.0726	
2	7.056	7.056	0.000	4640884	0.0500	0.0455	
2	7.236	7.237	-0.001	1793871	0.0500	0.0439	
2	7.515	7.514	0.001	1028009	0.0500	0.0487	
		Average of Peak Amounts =				0.0522	
						RPD = 17.84	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.335	8.334	0.001	3909585	0.0500	0.0477	
1	8.675	8.675	0.000	5733773	0.0500	0.0448	
1	9.006	9.004	0.002	6326389	0.0500	0.0441	
1	9.808	9.808	0.000	7964401	0.0500	0.0427	
1	10.137	10.138	-0.001	4013001	0.0500	0.0433	
		Average of Peak Amounts =				0.0445	
2	9.425	9.426	-0.001	2986899	0.0500	0.0464	
2	9.682	9.682	0.000	3356203	0.0500	0.0464	
2	10.109	10.110	-0.001	4631340	0.0500	0.0451	
2	10.826	10.827	-0.001	5782381	0.0500	0.0435	
2	11.202	11.203	-0.001	4488478	0.0500	0.0482	
		Average of Peak Amounts =				0.0459	
						RPD = 3.08	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.313	0.000	4430656	0.002500	0.002421	
2	12.300	12.298	0.002	2857877	0.002500	0.002397	
						RPD = 1.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.137	10.138	0.000	4013001			NR
2	9.682	9.682	0.000	3356203			NR
13 1260 Res 2							
1		10.185				ND	
2		9.778					
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@.05PPM_00012	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

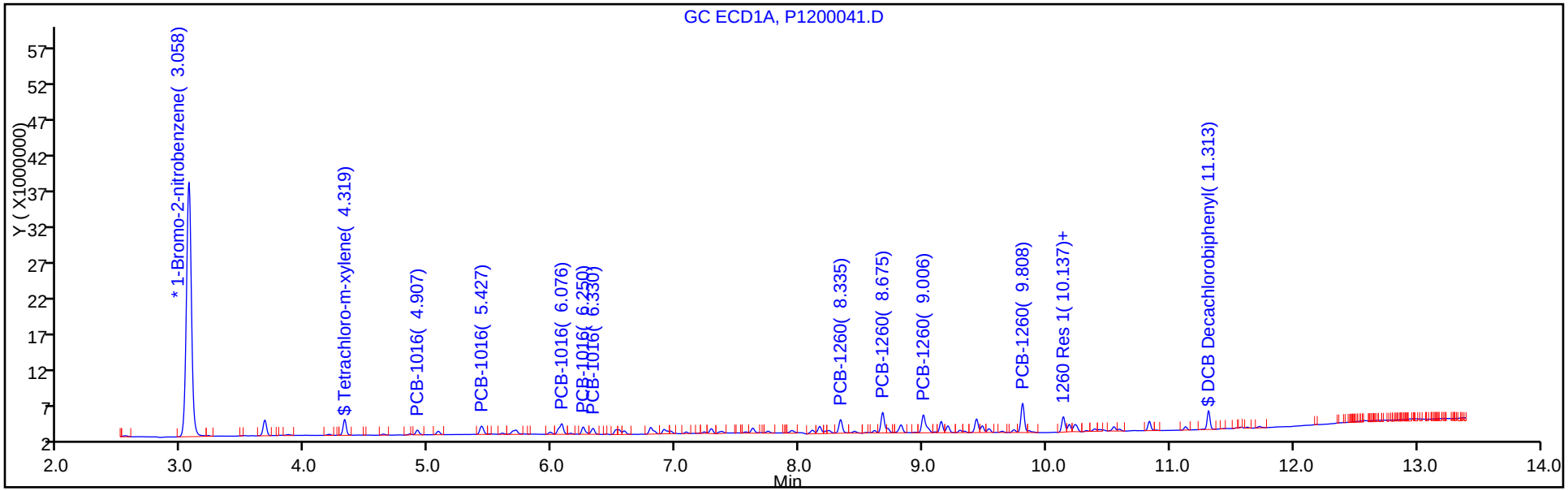
Report Date: 24-Apr-2015 10:24:10 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

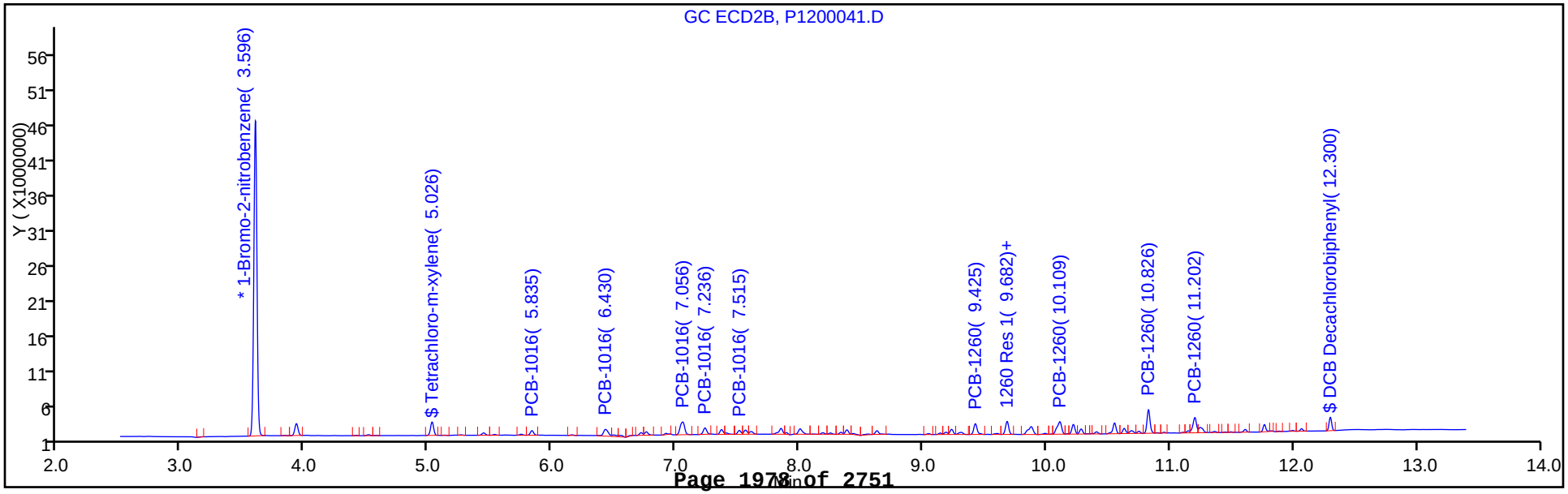
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D

Injection Date:	23-Apr-2015 19:08:07	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:10 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D

Injection Date: 23-Apr-2015 19:08:07 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 41 Worklist Smp#: 9

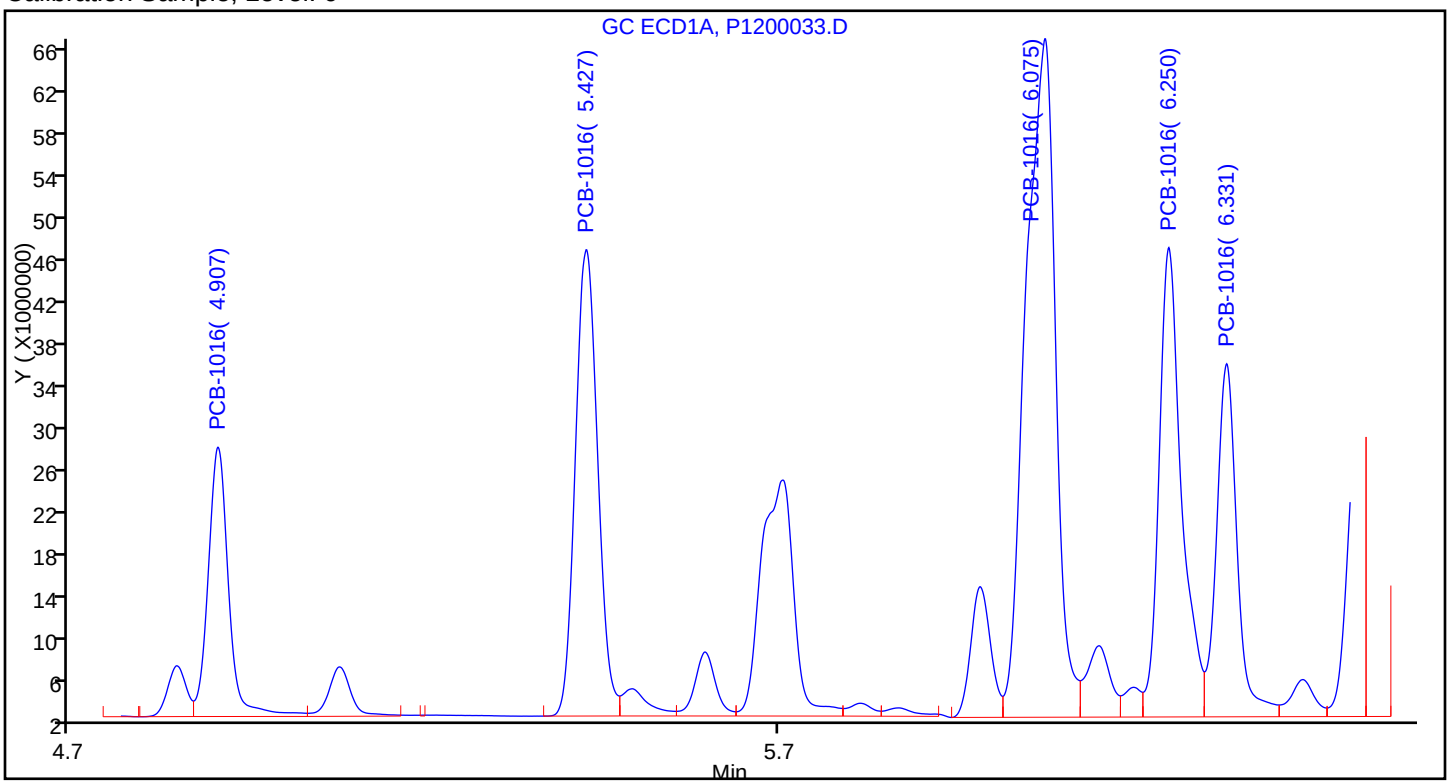
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



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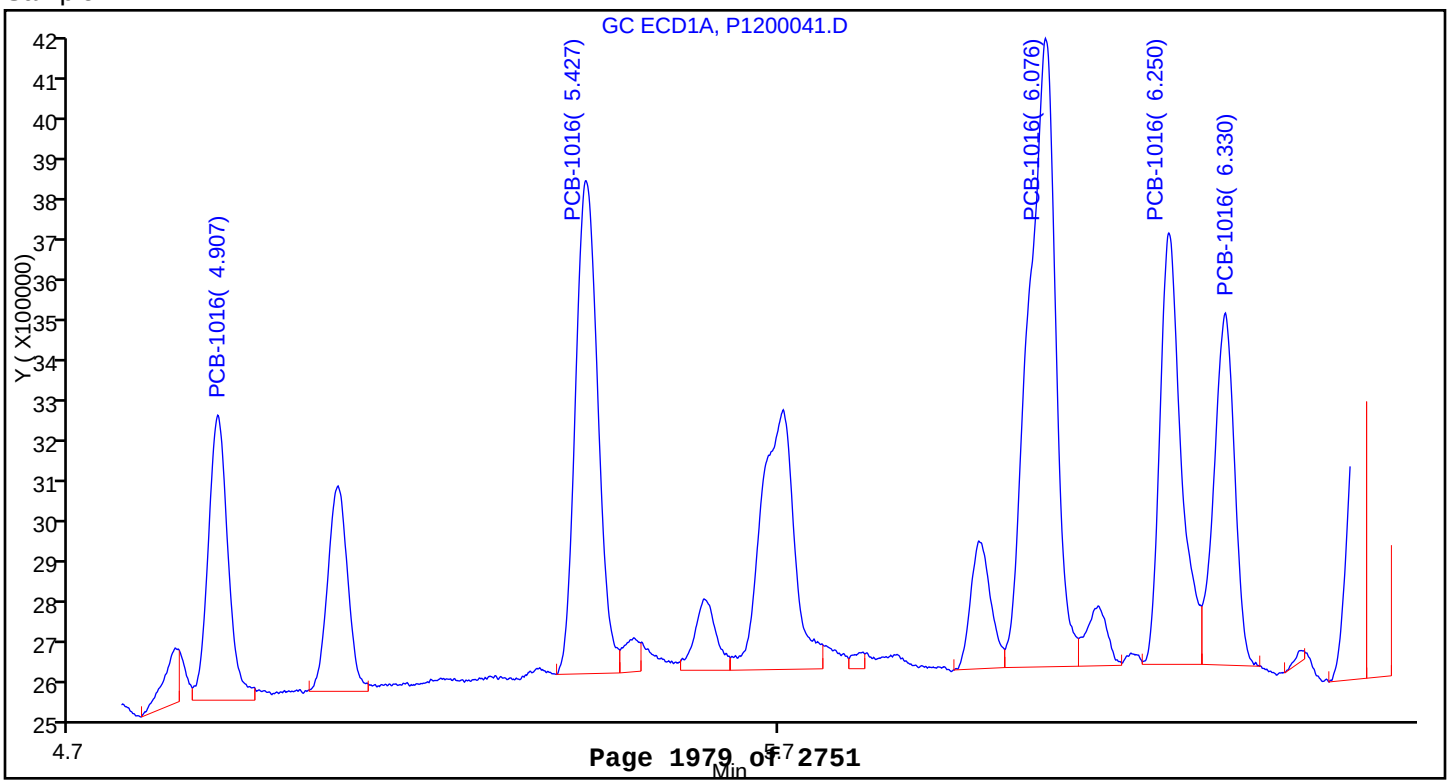


Report Date: 24-Apr-2015 10:24:10 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D

Injection Date: 23-Apr-2015 19:08:07 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 41 Worklist Smp#: 9

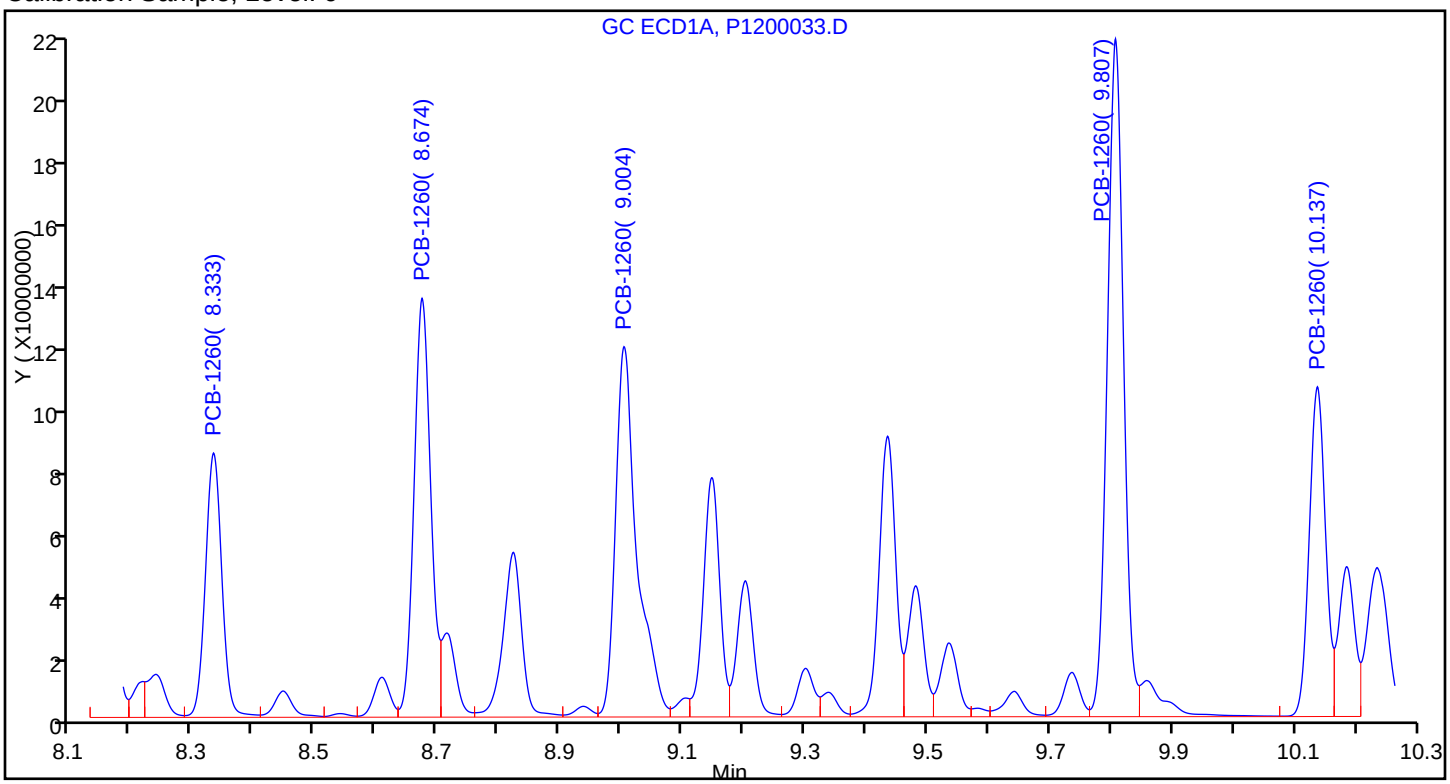
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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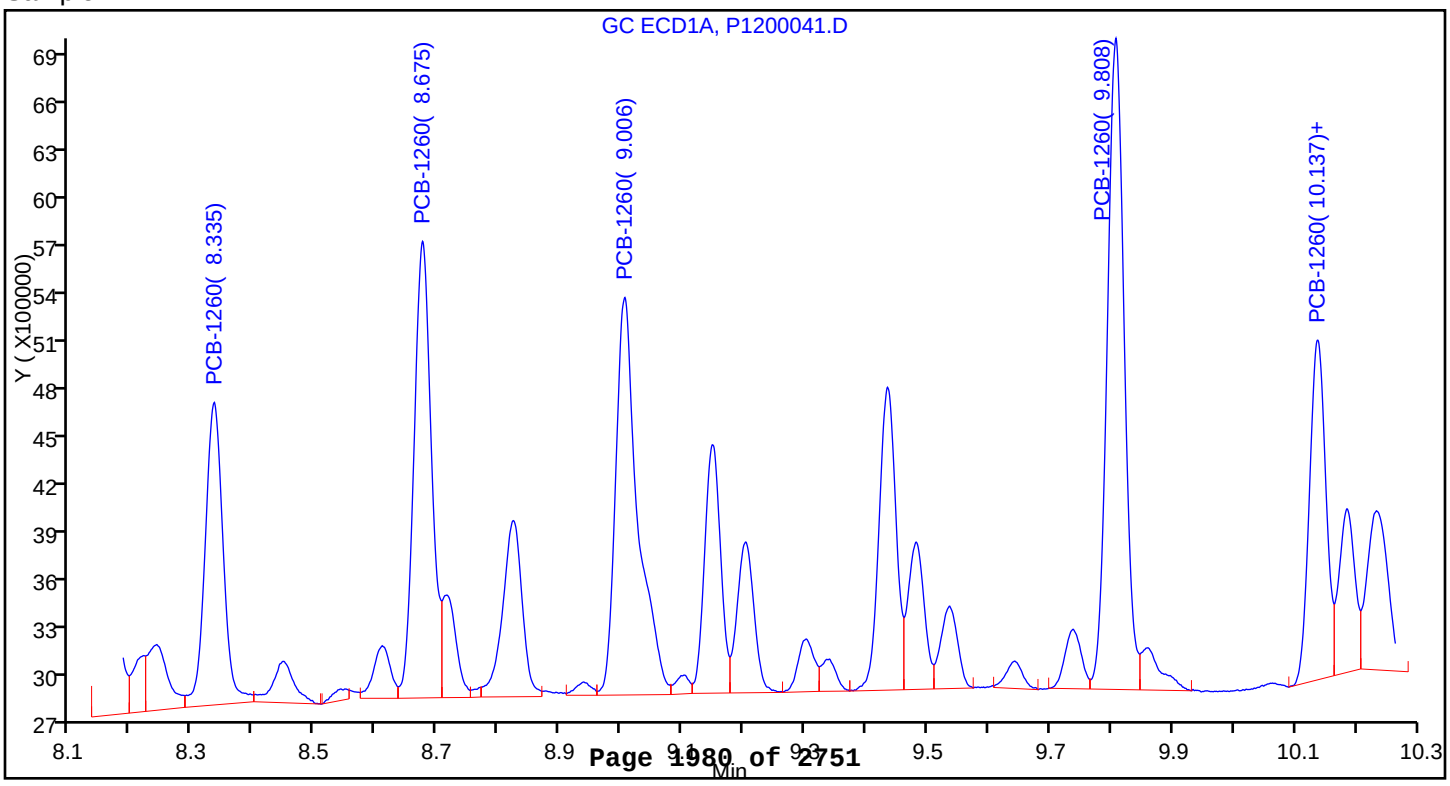


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177609/9

Matrix: Solid Lab File ID: P1200041.D

Analysis Method: 8082 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/23/2015 19:08

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177609 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0522		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0459	J	0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	97		50-150
2051-24-3	DCB Decachlorobiphenyl	96		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 23-Apr-2015 19:08:07 ALS Bottle#: 41 Worklist Smp#: 9
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-009
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:15:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	102134958	0.0500	0.0500	
2	3.596	3.596	0.000	79046088	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	4146266	0.002500	0.002397	
2	5.026	5.027	-0.001	3387401	0.002500	0.002416	
						RPD = 0.79	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	1304442	0.0500	0.0478	
1	5.427	5.427	0.000	2548022	0.0500	0.0468	
1	6.076	6.073	0.003	3918507	0.0500	0.0426	
1	6.250	6.250	0.000	2128361	0.0500	0.0384	
1	6.330	6.331	-0.001	1669788	0.0500	0.0426	
		Average of Peak Amounts =				0.0436	
2	5.835	5.834	0.001	1223582	0.0500	0.0500	
2	6.430	6.431	-0.001	2688148	0.0500	0.0726	
2	7.056	7.056	0.000	4640884	0.0500	0.0455	
2	7.236	7.237	-0.001	1793871	0.0500	0.0439	
2	7.515	7.514	0.001	1028009	0.0500	0.0487	
		Average of Peak Amounts =				0.0522	
						RPD = 17.84	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.335	8.334	0.001	3909585	0.0500	0.0477	
1	8.675	8.675	0.000	5733773	0.0500	0.0448	
1	9.006	9.004	0.002	6326389	0.0500	0.0441	
1	9.808	9.808	0.000	7964401	0.0500	0.0427	
1	10.137	10.138	-0.001	4013001	0.0500	0.0433	
		Average of Peak Amounts =				0.0445	
2	9.425	9.426	-0.001	2986899	0.0500	0.0464	
2	9.682	9.682	0.000	3356203	0.0500	0.0464	
2	10.109	10.110	-0.001	4631340	0.0500	0.0451	
2	10.826	10.827	-0.001	5782381	0.0500	0.0435	
2	11.202	11.203	-0.001	4488478	0.0500	0.0482	
		Average of Peak Amounts =				0.0459	
						RPD = 3.08	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.313	11.313	0.000	4430656	0.002500	0.002421	
2	12.300	12.298	0.002	2857877	0.002500	0.002397	
						RPD = 1.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.137	10.138	0.000	4013001			NR
2	9.682	9.682	0.000	3356203			NR
13 1260 Res 2							
1		10.185				ND	
2		9.778					
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@.05PPM_00012	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

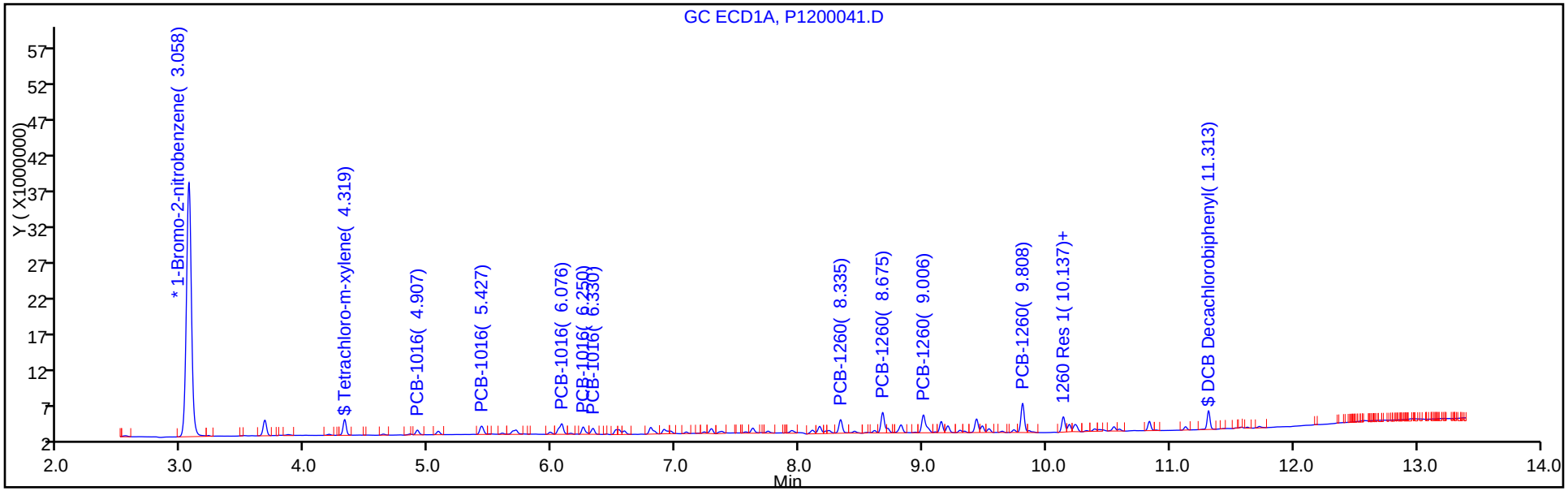
Report Date: 24-Apr-2015 10:24:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

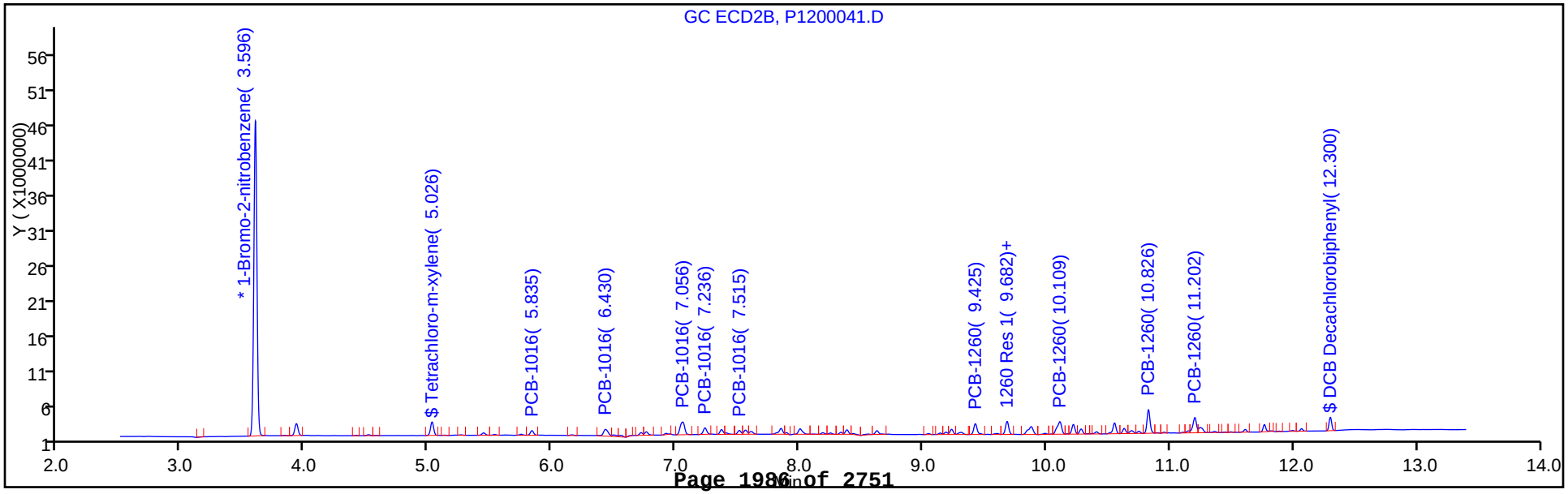
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D

Injection Date:	23-Apr-2015 19:08:07	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

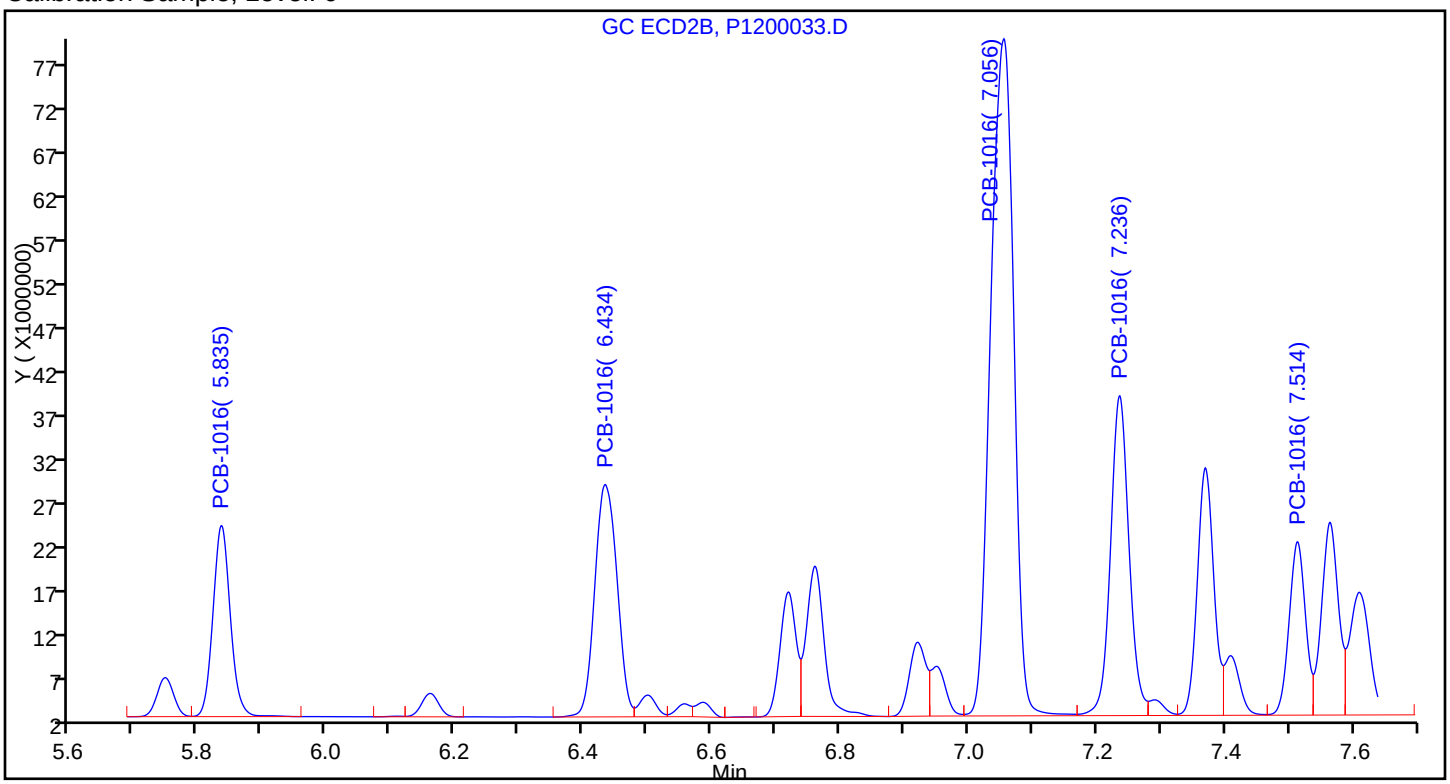
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D

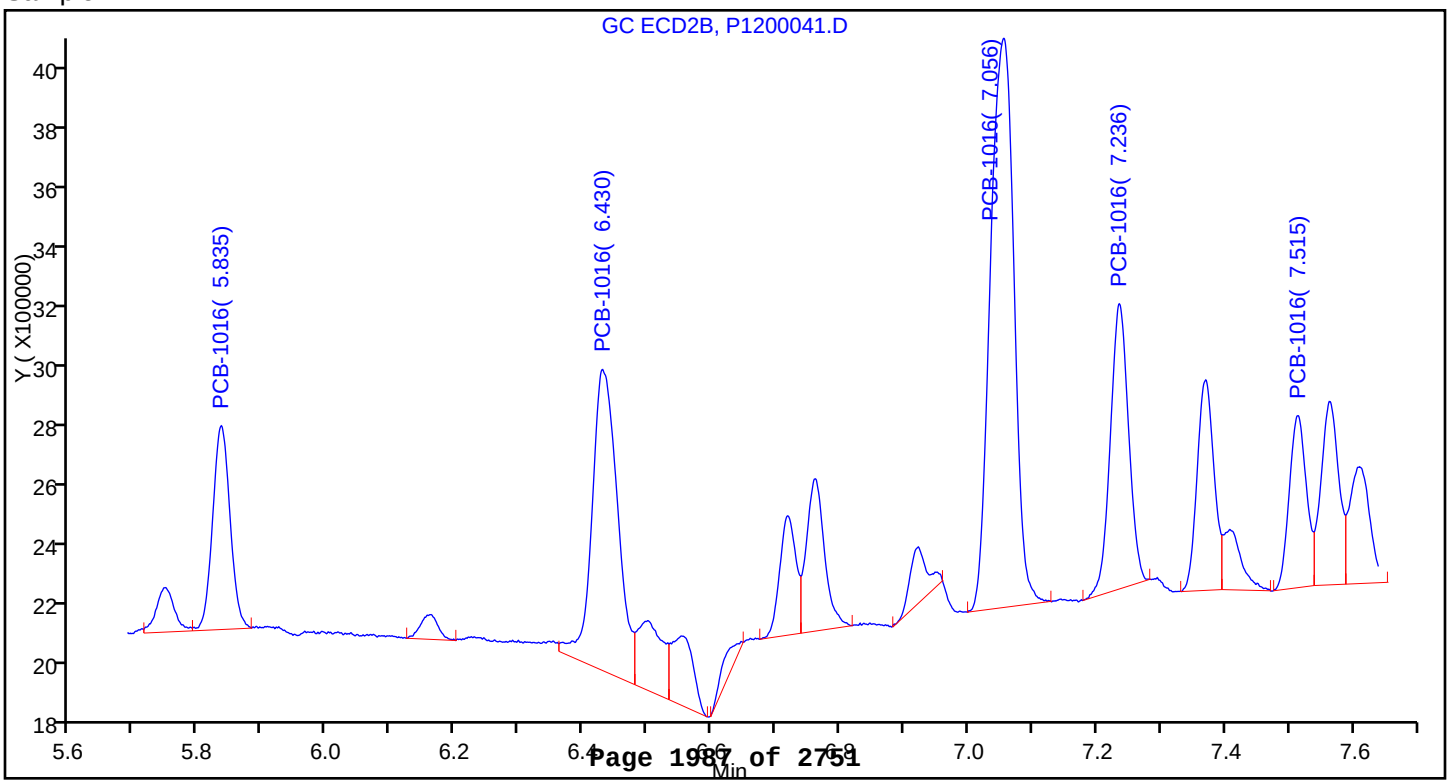
Injection Date:	23-Apr-2015 19:08:07	Instrument ID:	A2HP12		
Lims ID:	MRL				
Client ID:					
Operator ID:		ALS Bottle#:	41	Worklist Smp#:	9
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		
Column:		Detector	GC ecd2b		

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 24-Apr-2015 10:24:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200041.D

Injection Date: 23-Apr-2015 19:08:07 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 41 Worklist Smp#: 9

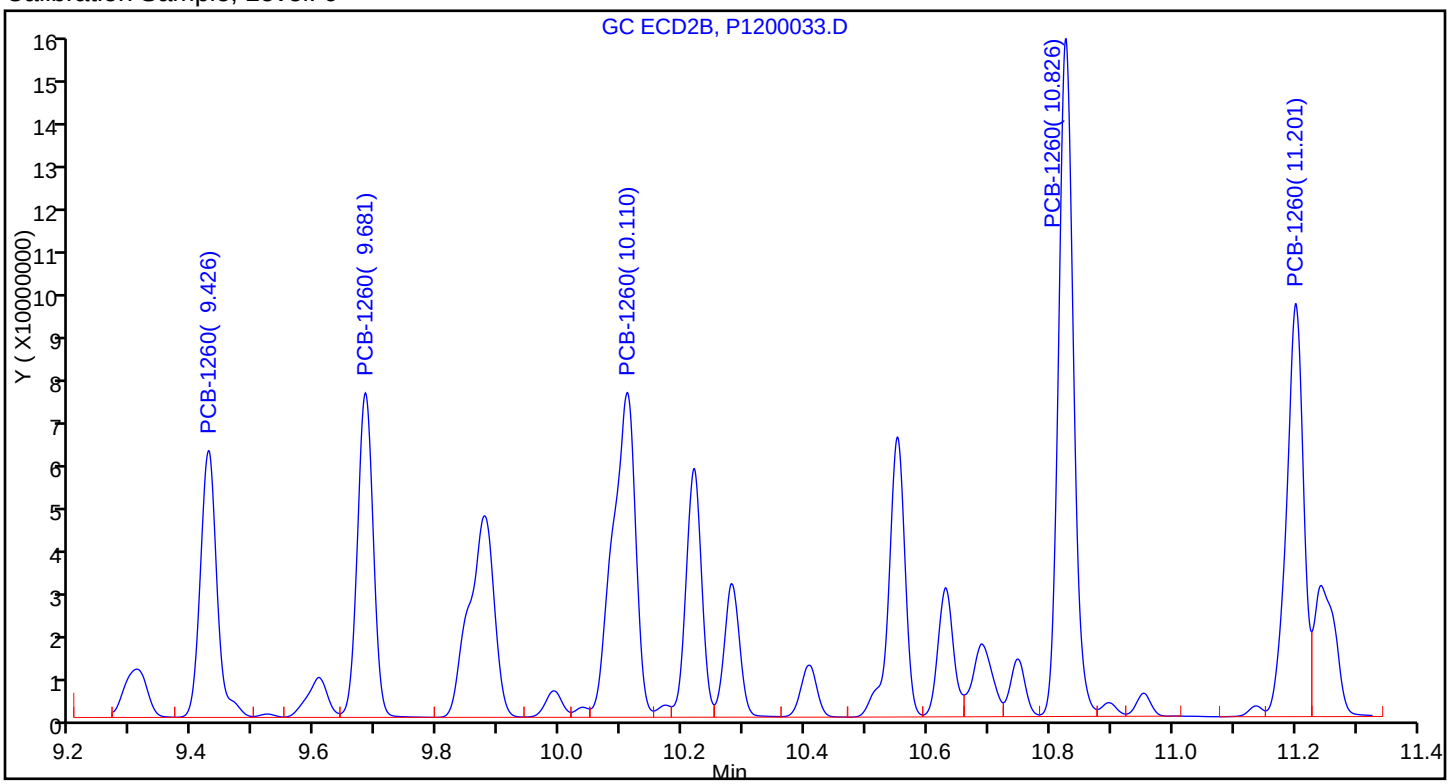
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

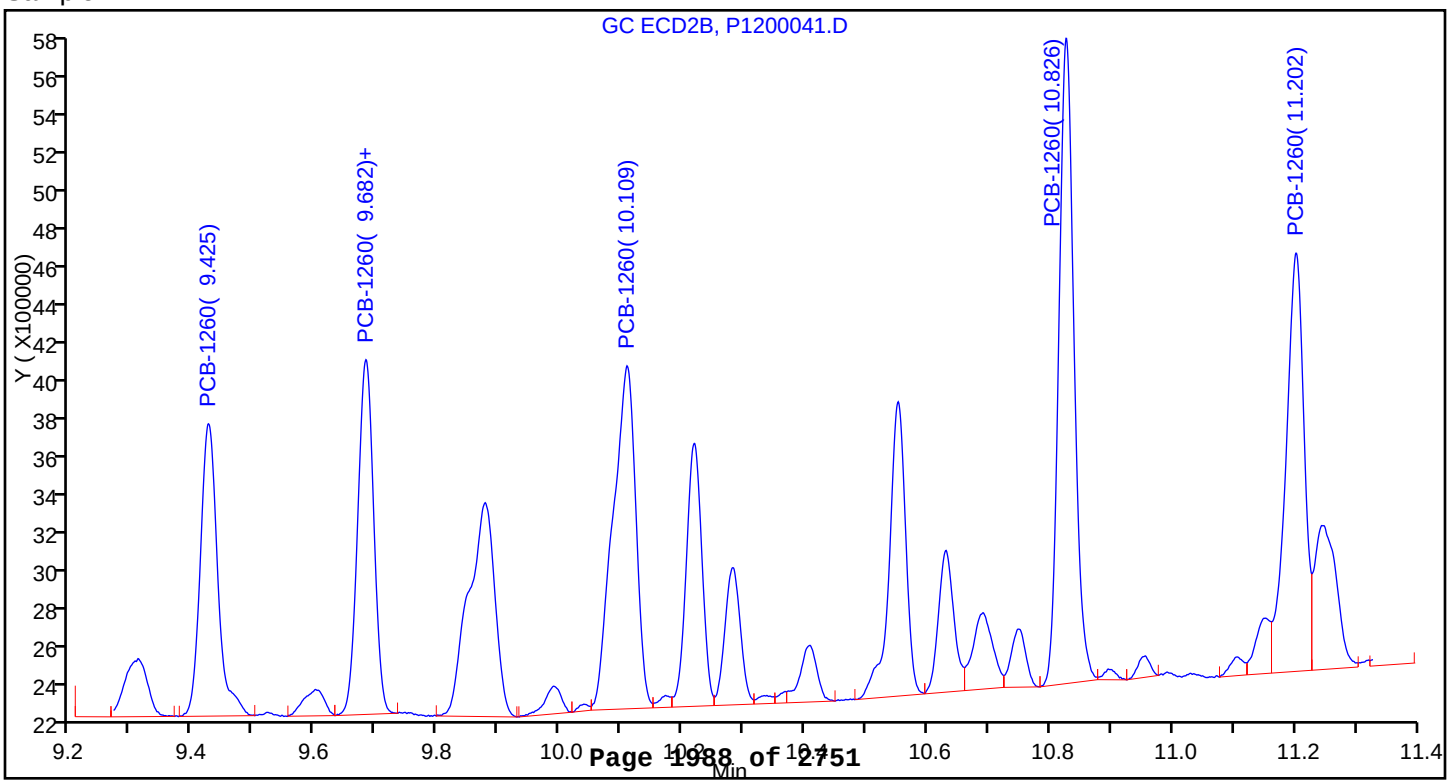
Column: Detector GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177609/15

Matrix: Solid | Lab File ID: P1200047.D

Analysis Method: 8082 | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/23/2015 20:56

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177609 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0470*	*J*	*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0481*	*J*	*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		50-150
2051-24-3	DCB Decachlorobiphenyl	98		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 23-Apr-2015 20:56:42 ALS Bottle#: 47 Worklist Smp#: 15
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-015
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:19:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	98337132	0.0500	0.0500	
2	3.596	3.596	0.000	76915427	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	4195446	0.002500	0.002520	
2	5.027	5.027	0.000	3429532	0.002500	0.002514	
						RPD = 0.21	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	1294622	0.0500	0.0493	
1	5.426	5.427	-0.001	2724215	0.0500	0.0519	
1	6.077	6.073	0.004	3601173	0.0500	0.0407	
1	6.250	6.250	0.000	2311509	0.0500	0.0433	
1	6.328	6.331	-0.003	1886670	0.0500	0.0499	
		Average of Peak Amounts =				0.0470	
2	5.834	5.834	0.000	1250179	0.0500	0.0525	
2	6.431	6.431	0.000	2540928	0.0500	0.0706	
2	7.055	7.056	-0.001	4753596	0.0500	0.0479	
2	7.236	7.237	-0.001	1822941	0.0500	0.0459	
2	7.513	7.514	-0.001	1017914	0.0500	0.0496	
		Average of Peak Amounts =				0.0533	
						RPD = 12.51	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.334	8.334	0.000	4146918	0.0500	0.0526	
1	8.675	8.675	0.000	6082923	0.0500	0.0494	
1	9.005	9.004	0.001	6158889	0.0500	0.0446	
1	9.808	9.808	0.000	7851601	0.0500	0.0437	
1	10.138	10.138	0.000	4498057	0.0500	0.0505	
		Average of Peak Amounts =				0.0481	
2	9.426	9.426	0.000	3030420	0.0500	0.0484	
2	9.681	9.682	-0.001	3421178	0.0500	0.0486	
2	10.110	10.110	0.000	4572354	0.0500	0.0457	
2	10.827	10.827	0.000	5921299	0.0500	0.0458	
2	11.203	11.203	0.000	4168468	0.0500	0.0460	
		Average of Peak Amounts =				0.0469	
						RPD = 2.59	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.313	0.001	4300672	0.002500	0.002441	
2	12.299	12.298	0.001	2851774	0.002500	0.002458	
						RPD = 0.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.138	10.138	0.000	4498057			NR
2	9.681	9.682	-0.001	3421178			NR
13 1260 Res 2							
1		10.185				ND	
2		9.778					
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@.05PPM_00012	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

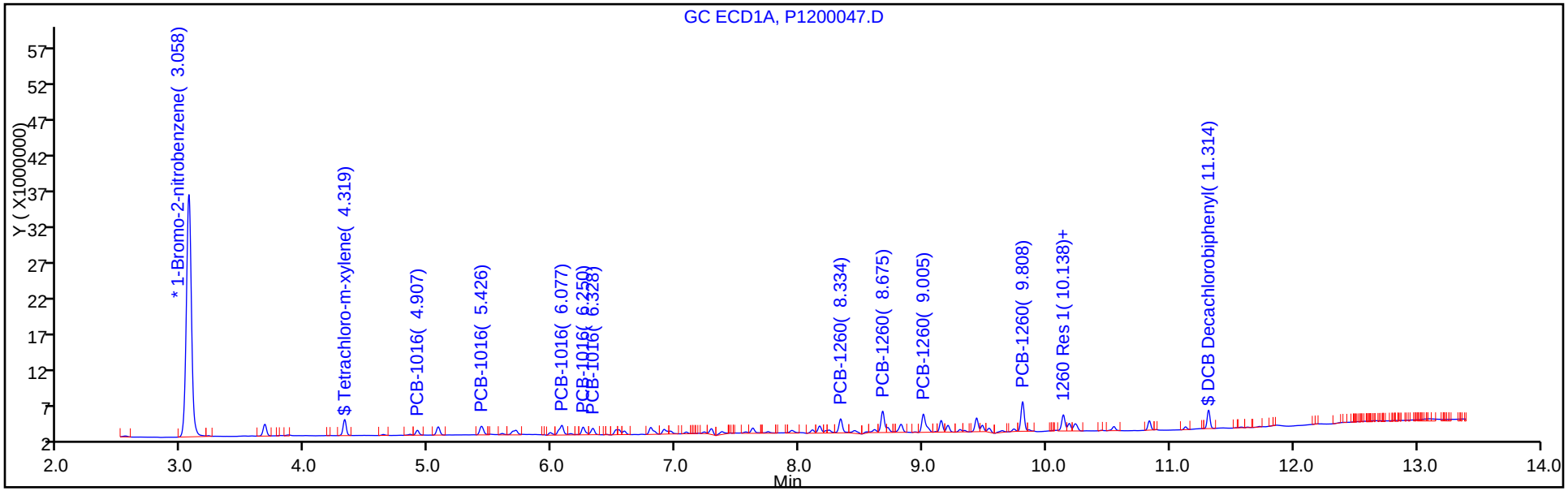
Report Date: 24-Apr-2015 10:24:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

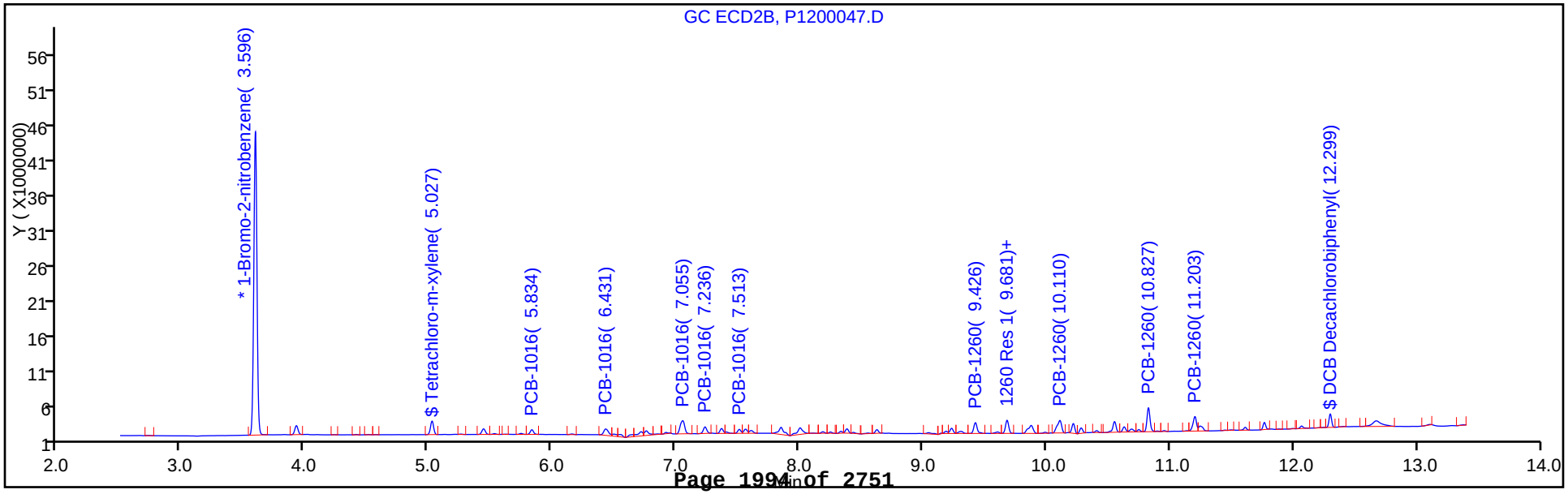
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D

Injection Date:	23-Apr-2015 20:56:42	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D

Injection Date: 23-Apr-2015 20:56:42 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 47 Worklist Smp#: 15

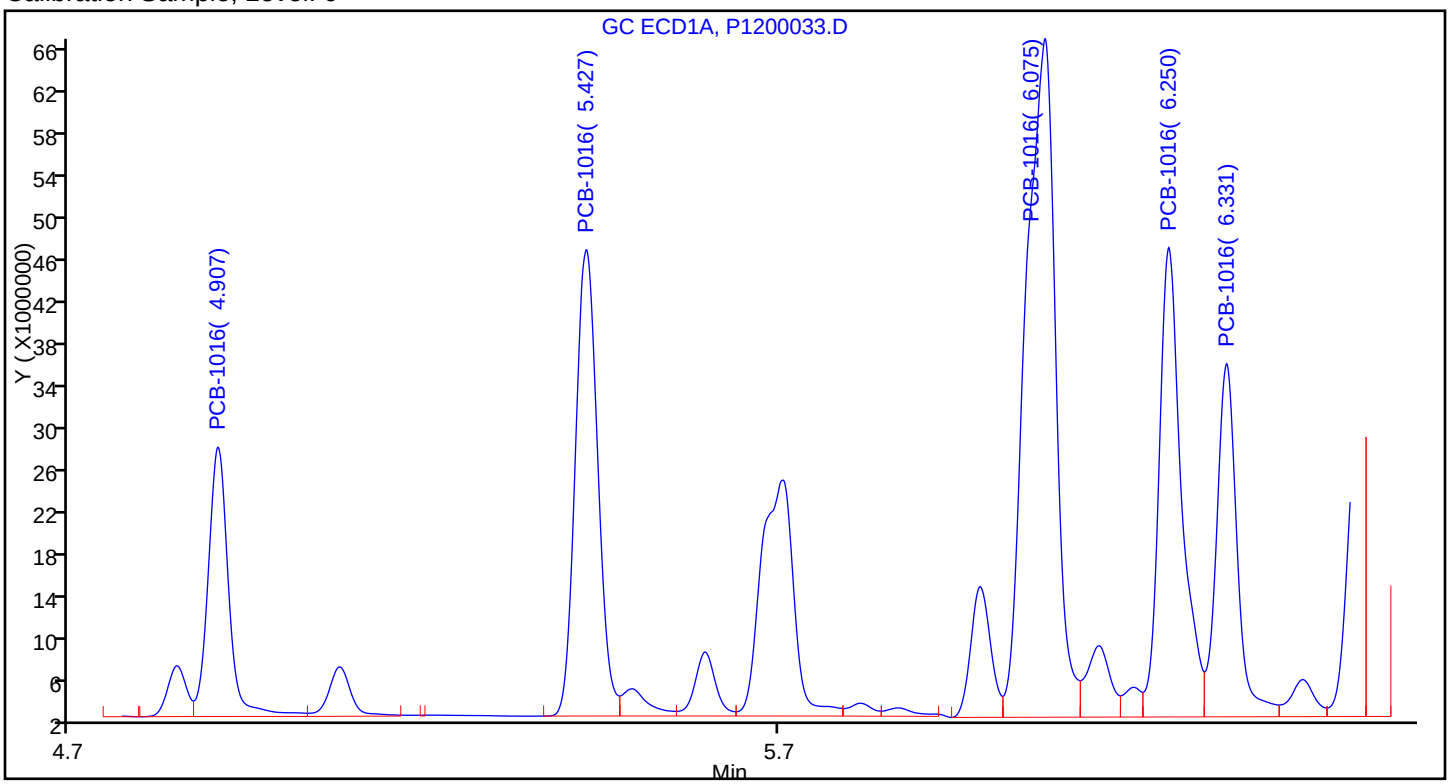
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



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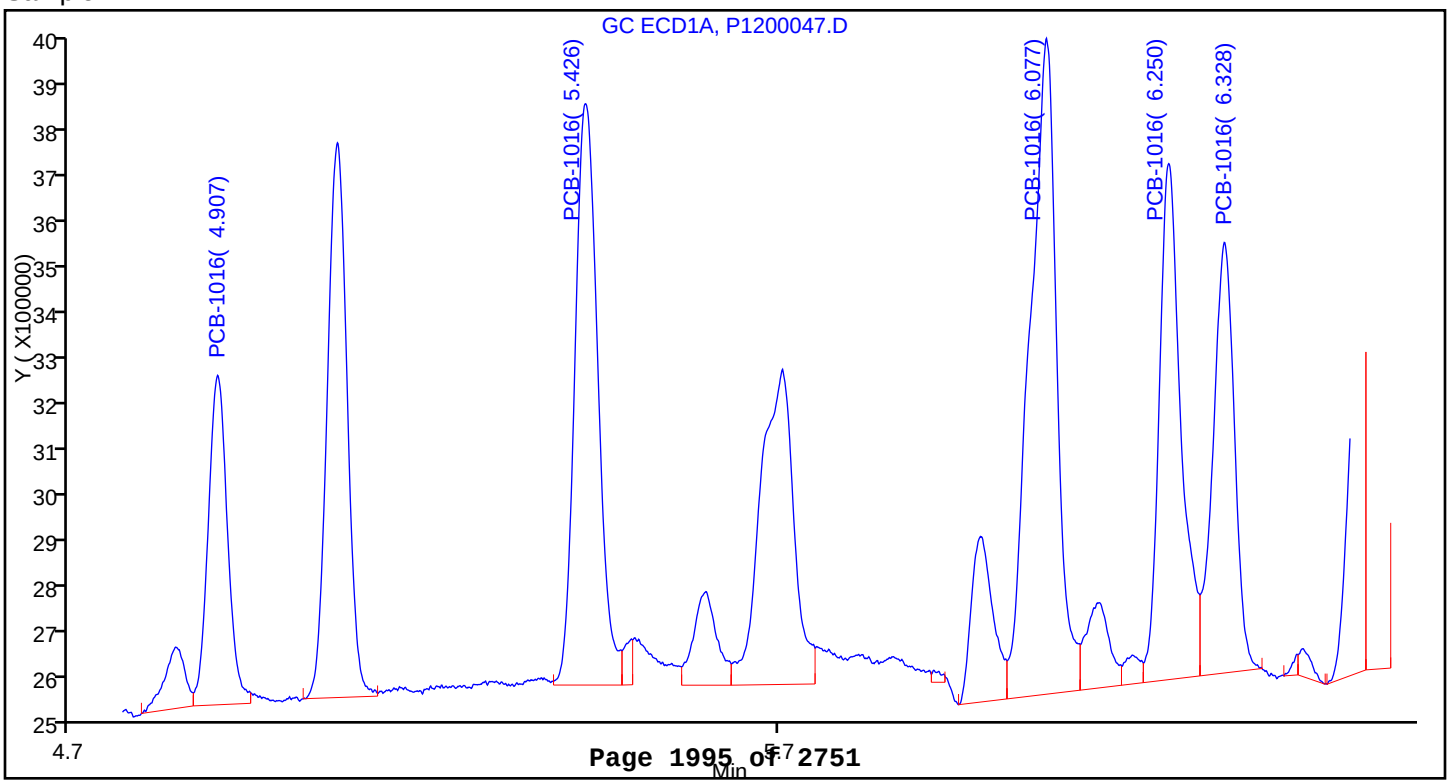


Report Date: 24-Apr-2015 10:24:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D

Injection Date: 23-Apr-2015 20:56:42 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 47 Worklist Smp#: 15

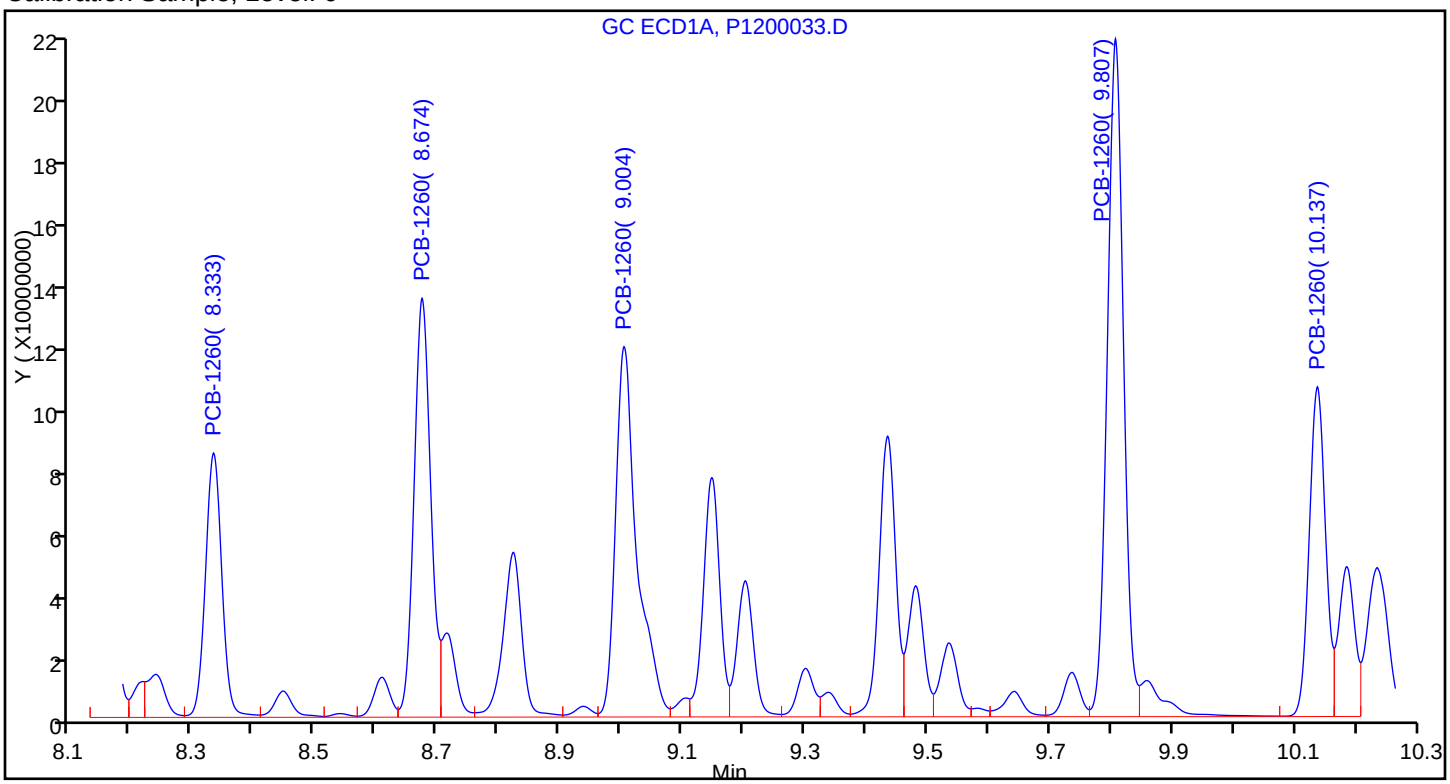
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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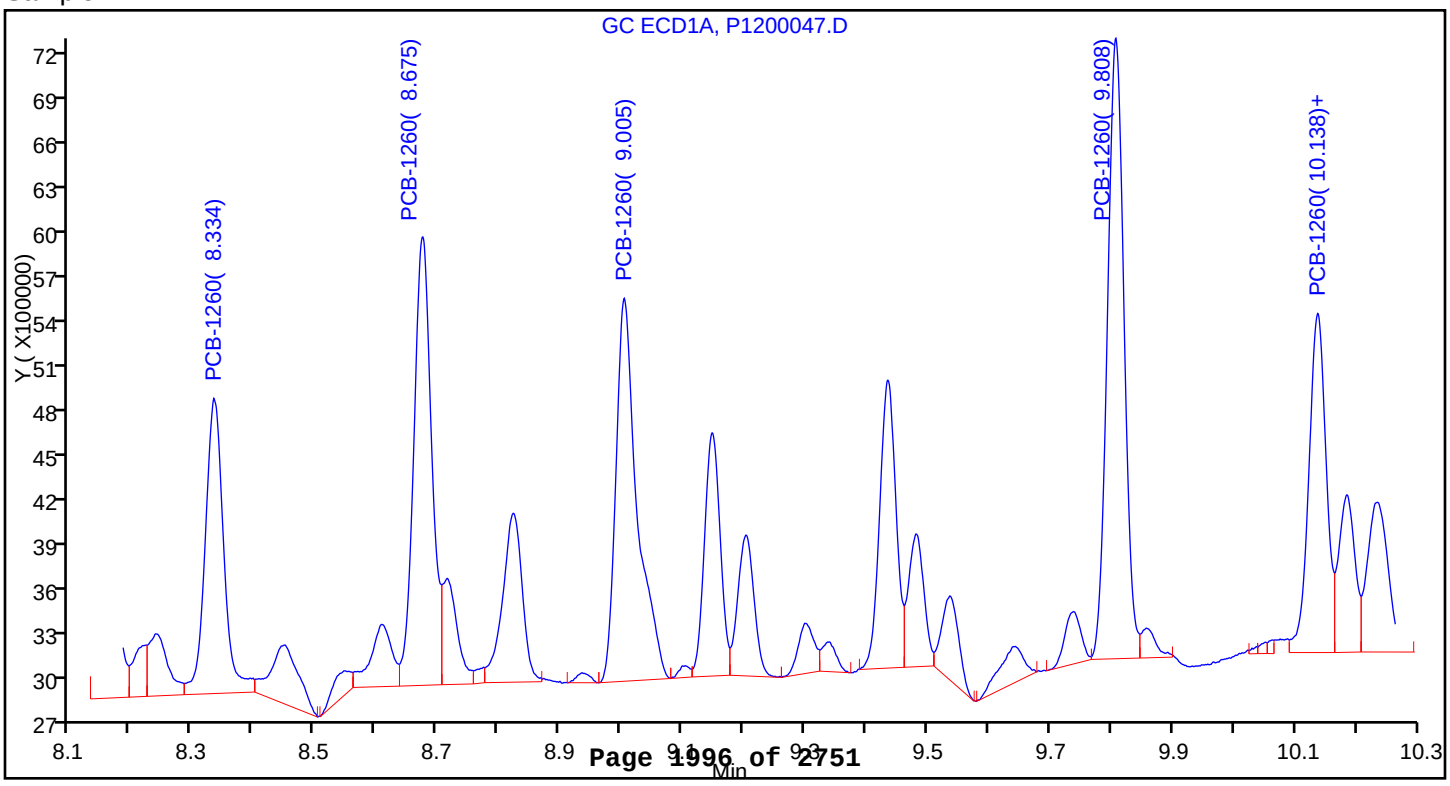


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177609/15

Matrix: Solid | Lab File ID: P1200047.D

Analysis Method: 8082 | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/23/2015 20:56

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177609 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0533		0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0469	J	0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		50-150
2051-24-3	DCB Decachlorobiphenyl	98		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 23-Apr-2015 20:56:42 ALS Bottle#: 47 Worklist Smp#: 15
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-015
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:19:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	98337132	0.0500	0.0500	
2	3.596	3.596	0.000	76915427	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	4195446	0.002500	0.002520	
2	5.027	5.027	0.000	3429532	0.002500	0.002514	
						RPD = 0.21	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	1294622	0.0500	0.0493	
1	5.426	5.427	-0.001	2724215	0.0500	0.0519	
1	6.077	6.073	0.004	3601173	0.0500	0.0407	
1	6.250	6.250	0.000	2311509	0.0500	0.0433	
1	6.328	6.331	-0.003	1886670	0.0500	0.0499	
		Average of Peak Amounts =				0.0470	
2	5.834	5.834	0.000	1250179	0.0500	0.0525	
2	6.431	6.431	0.000	2540928	0.0500	0.0706	
2	7.055	7.056	-0.001	4753596	0.0500	0.0479	
2	7.236	7.237	-0.001	1822941	0.0500	0.0459	
2	7.513	7.514	-0.001	1017914	0.0500	0.0496	
		Average of Peak Amounts =				0.0533	
						RPD = 12.51	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.334	8.334	0.000	4146918	0.0500	0.0526	
1	8.675	8.675	0.000	6082923	0.0500	0.0494	
1	9.005	9.004	0.001	6158889	0.0500	0.0446	
1	9.808	9.808	0.000	7851601	0.0500	0.0437	
1	10.138	10.138	0.000	4498057	0.0500	0.0505	
		Average of Peak Amounts =				0.0481	
2	9.426	9.426	0.000	3030420	0.0500	0.0484	
2	9.681	9.682	-0.001	3421178	0.0500	0.0486	
2	10.110	10.110	0.000	4572354	0.0500	0.0457	
2	10.827	10.827	0.000	5921299	0.0500	0.0458	
2	11.203	11.203	0.000	4168468	0.0500	0.0460	
		Average of Peak Amounts =				0.0469	
						RPD = 2.59	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.313	0.001	4300672	0.002500	0.002441	
2	12.299	12.298	0.001	2851774	0.002500	0.002458	
						RPD = 0.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.138	10.138	0.000	4498057			NR
2	9.681	9.682	-0.001	3421178			NR
13 1260 Res 2							
1		10.185				ND	
2		9.778					
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@.05PPM_00012	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

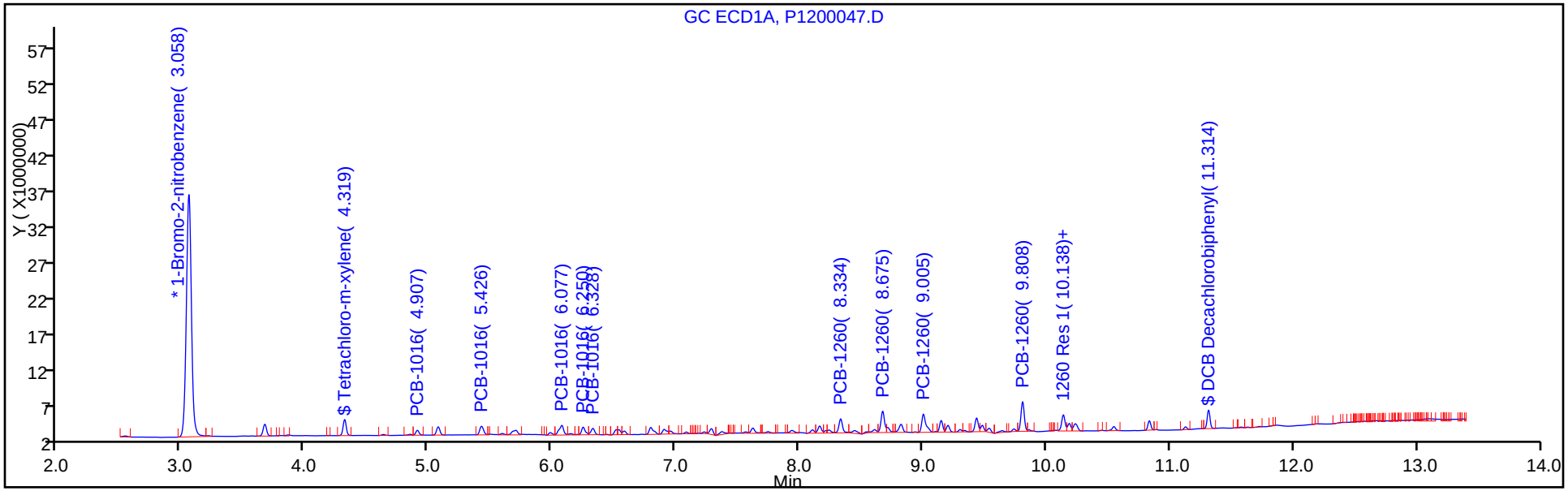
Report Date: 24-Apr-2015 10:24:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

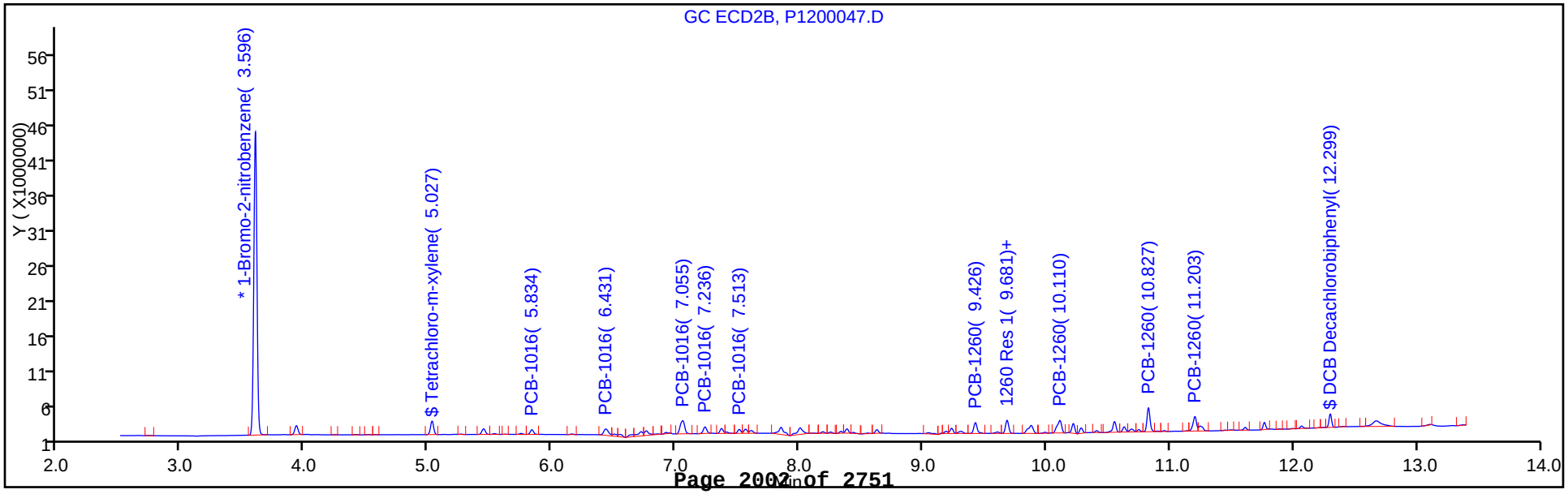
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D

Injection Date:	23-Apr-2015 20:56:42	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

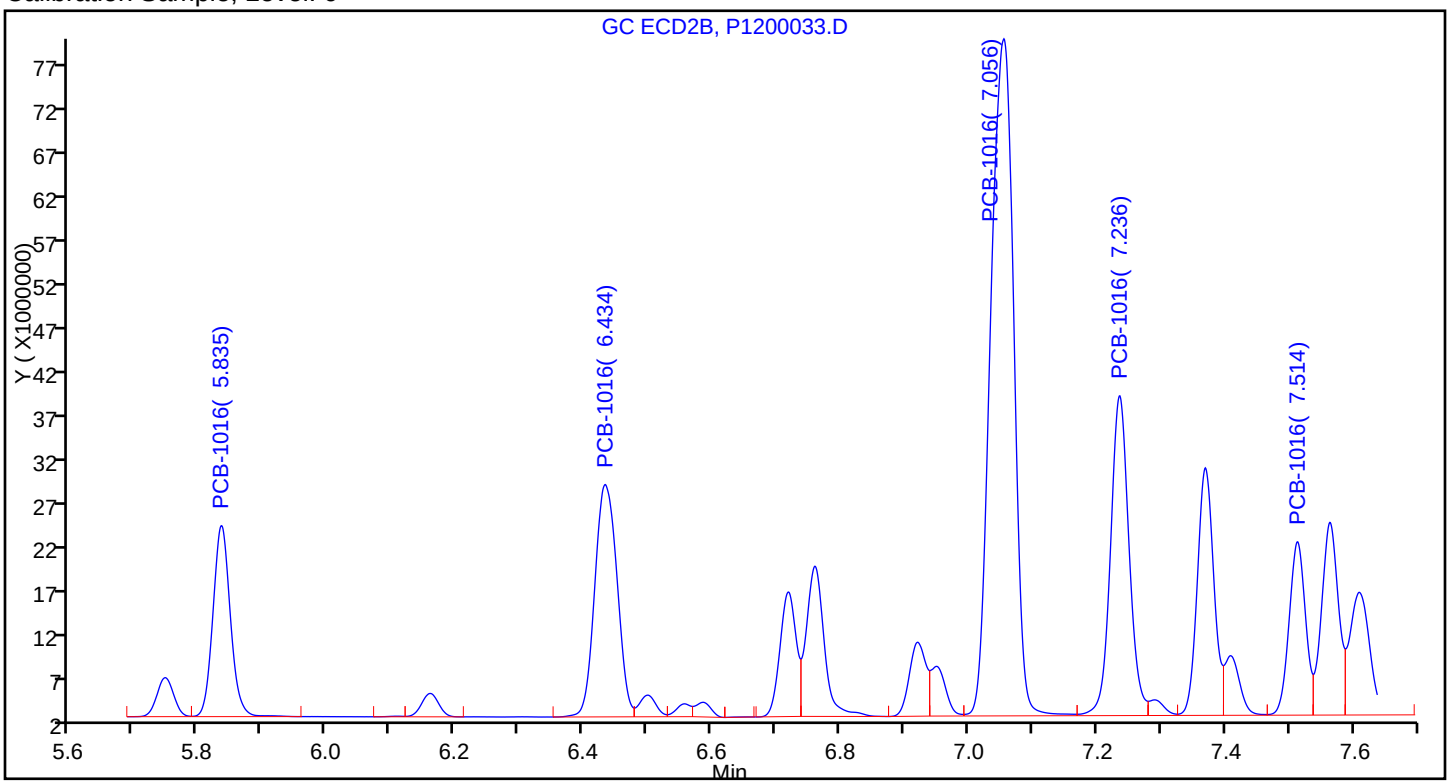
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D

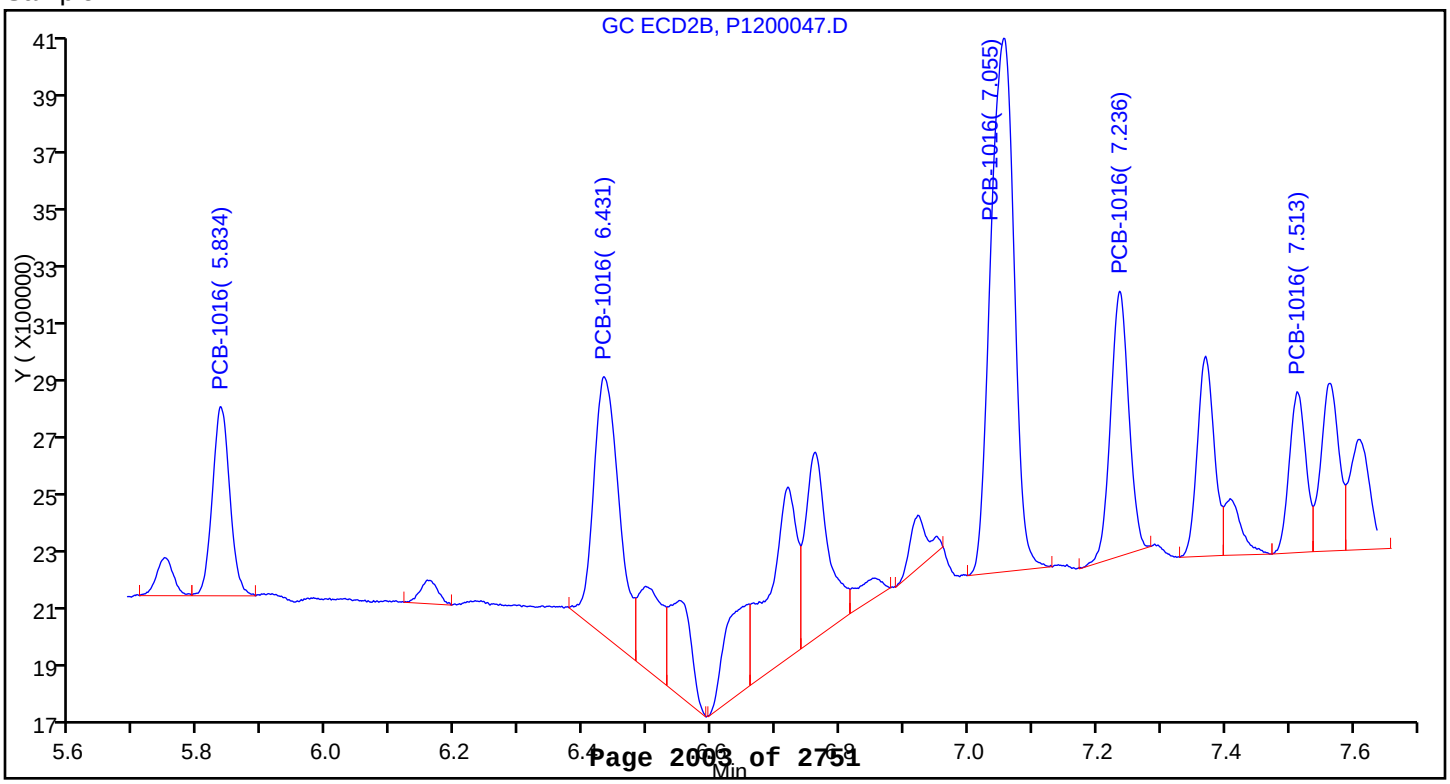
Injection Date:	23-Apr-2015 20:56:42	Instrument ID:	A2HP12		
Lims ID:	MRL				
Client ID:					
Operator ID:		ALS Bottle#:	47	Worklist Smp#:	15
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		
Column:		Detector	GC ecd2b		

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 24-Apr-2015 10:24:20 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200047.D

Injection Date: 23-Apr-2015 20:56:42 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 47 Worklist Smp#: 15

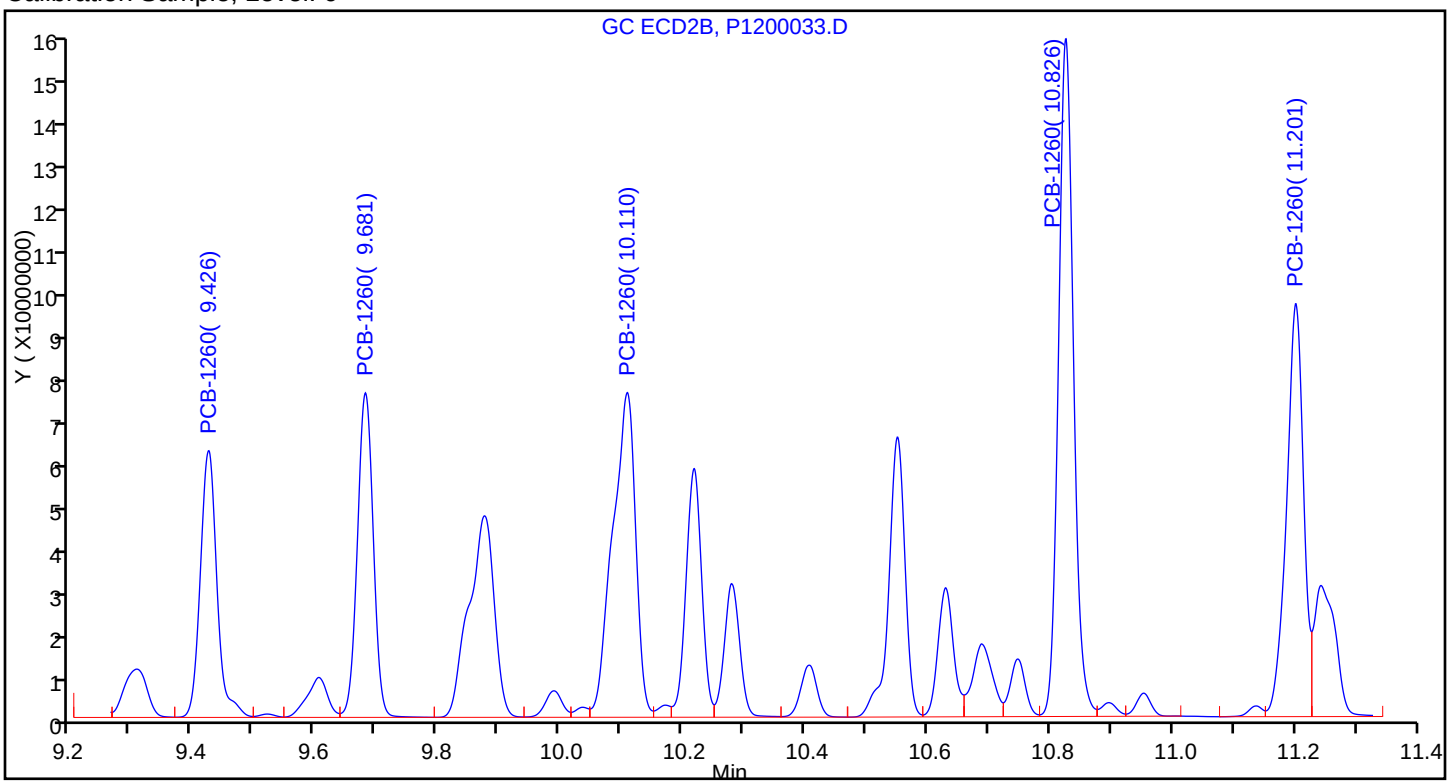
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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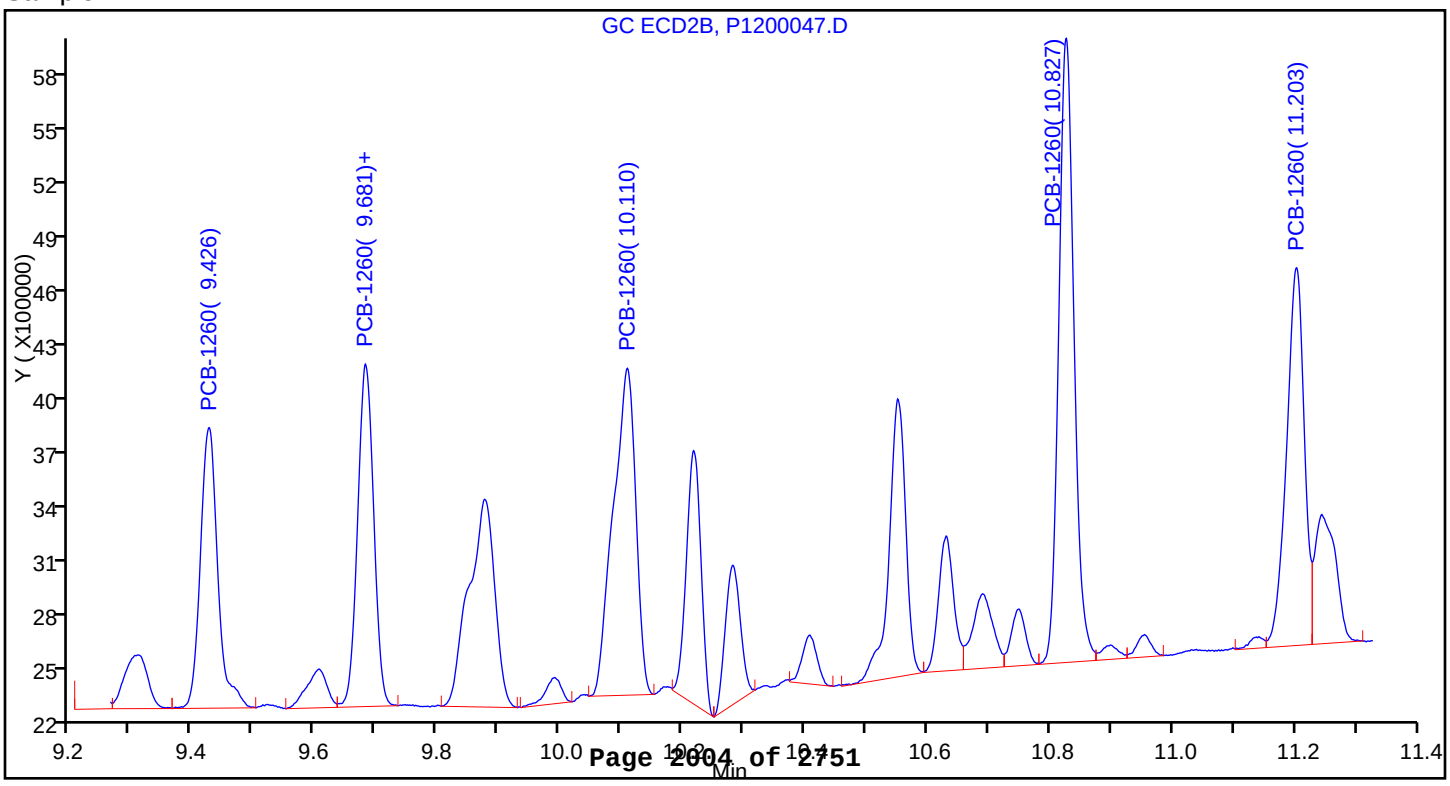


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MRL 240-177830/19

Matrix: Solid | Lab File ID: P1200048.D

Analysis Method: 8082 | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 04/24/2015 21:51

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

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

Analysis Batch No.: 177830 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	*Aroclor-1221*	*0.00020*	*U*	*0.050*	0.00020	*0.013*
12674-11-2	*Aroclor-1016*	*0.0444*	*J*	*0.050*	0.00020	*0.017*
11141-16-5	*Aroclor-1232*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
53469-21-9	*Aroclor-1242*	*0.00040*	*U*	*0.050*	0.00040	*0.022*
12672-29-6	*Aroclor-1248*	*0.00020*	*U*	*0.050*	0.00020	*0.010*
11097-69-1	*Aroclor-1254*	*0.00020*	*U*	*0.050*	0.00020	*0.016*
11096-82-5	*Aroclor-1260*	*0.0436*	*J*	*0.050*	0.00020	*0.017*

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		50-150
2051-24-3	DCB Decachlorobiphenyl	94		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 24-Apr-2015 21:51:20 ALS Bottle#: 48 Worklist Smp#: 19
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-019
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:19 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:45:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.058	-0.002	102543806	0.0500	0.0500	
2	3.596	3.596	-0.001	80175418	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.317	4.318	-0.001	4082627	0.002500	0.002351	
2	5.026	5.026	0.000	3375158	0.002500	0.002374	
						RPD = 0.96	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.746					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.906	4.906	0.000	1236381	0.0500	0.0451	
1	5.425	5.426	-0.001	2621689	0.0500	0.0479	
1	6.074	6.072	0.002	4227616	0.0500	0.0458	
1	6.248	6.250	-0.002	2074690	0.0500	0.0373	
1	6.326	6.331	-0.005	1818047	0.0500	0.0462	
		Average of Peak Amounts =				0.0444	
2	5.833	5.835	-0.002	1196381	0.0500	0.0482	
2	6.430	6.429	0.001	2081578	0.0500	0.0555	
2	7.055	7.054	0.001	4607459	0.0500	0.0445	
2	7.235	7.235	0.000	1832004	0.0500	0.0442	
2	7.513	7.512	0.001	998185	0.0500	0.0467	
		Average of Peak Amounts =				0.0478	
						RPD = 7.31	
4 PCB-1232							
1		4.906				ND	
1		5.425					
1		6.072					
1		6.248					
1		6.795					
2		5.834					
2		6.429					
2		7.055					
2		7.235					
2		7.512					
5 PCB-1242							
1		4.907				ND	
1		5.426					
1		6.072					
1		6.249					
1		6.330					
2		5.834					
2		6.430					
2		7.054					
2		7.235					
2		7.512					
7 PCB-1248							
1		5.424				ND	
1		6.795					
1		7.369					
1		7.616					
1		8.105					
2		7.050					
2		7.512					
2		8.005					
2		8.388					
2		9.186					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.286				ND	
1		7.621					
1		8.104					
1		8.445					
1		9.004					
2		8.384					
2		8.627					
2		9.186					
2		9.463					
2		10.110					
10 PCB-1260							
1	8.332	8.332	0.000	3672293	0.0500	0.0446	
1	8.672	8.674	-0.002	5770001	0.0500	0.0449	
1	9.002	9.003	-0.001	6098287	0.0500	0.0423	
1	9.806	9.806	0.000	7766730	0.0500	0.0414	
1	10.136	10.136	0.000	4143443	0.0500	0.0446	
		Average of Peak Amounts =				0.0436	
2	9.424	9.424	0.000	2986058	0.0500	0.0457	
2	9.680	9.680	0.000	3413807	0.0500	0.0466	
2	10.107	10.108	-0.001	4501127	0.0500	0.0432	
2	10.825	10.825	0.000	5189961	0.0500	0.0385	
2	11.201	11.201	0.000	4411039	0.0500	0.0467	
		Average of Peak Amounts =				0.0441	
						RPD = 1.26	
9 PCB-1262							
1		8.673				ND	
1		9.146					
1		9.432					
1		9.804					
1		10.182					
2		9.680					
2		10.216					
2		10.549					
2		10.825					
2		11.197					
11 PCB-1268							
1		10.183				ND	
1		10.227					
1		10.443					
1		10.831					
1		11.123					
2		11.193					
2		11.240					
2		11.490					
2		11.763					
2		12.064					
$ 12 DCB Decachlorobiphenyl							
1	11.311	11.311	0.000	4316903	0.002500	0.002350	
2	12.297	12.296	0.001	3008400	0.002500	0.002488	
						RPD = 5.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.136	10.136	0.000	4143443			NR
2	9.680	9.680	0.000	3413807			NR
13 1260 Res 2							
1		10.184				ND	
2		9.778					
15 1260 Res 3							
1		10.232				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@.05PPM_00012	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

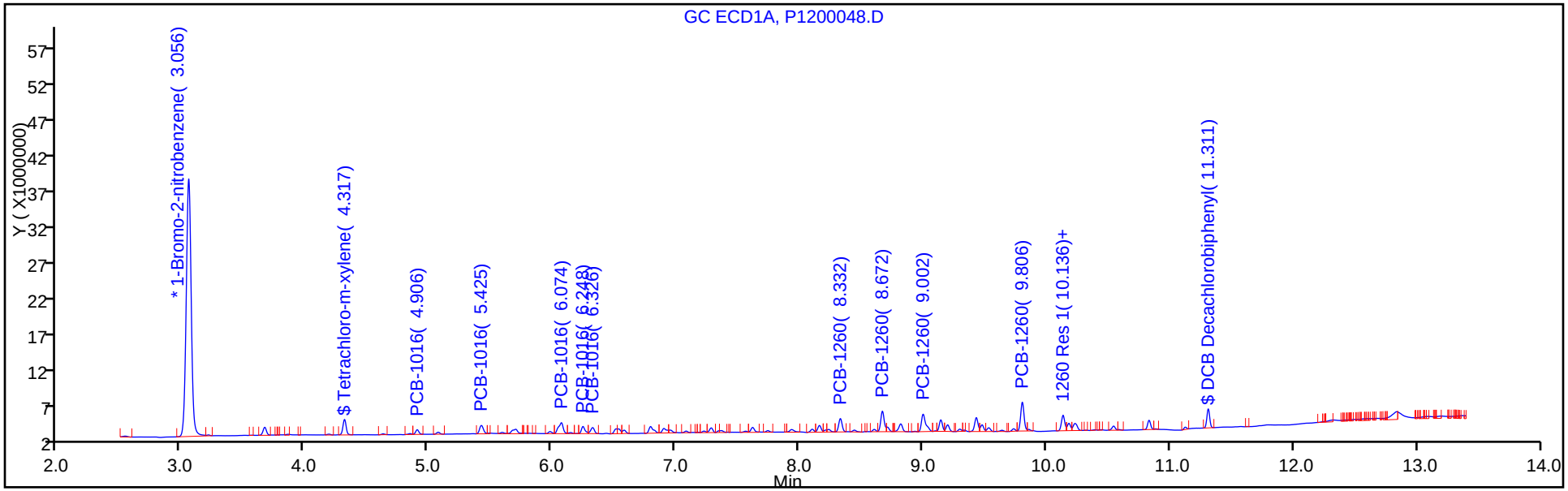
Report Date: 26-Apr-2015 19:55:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

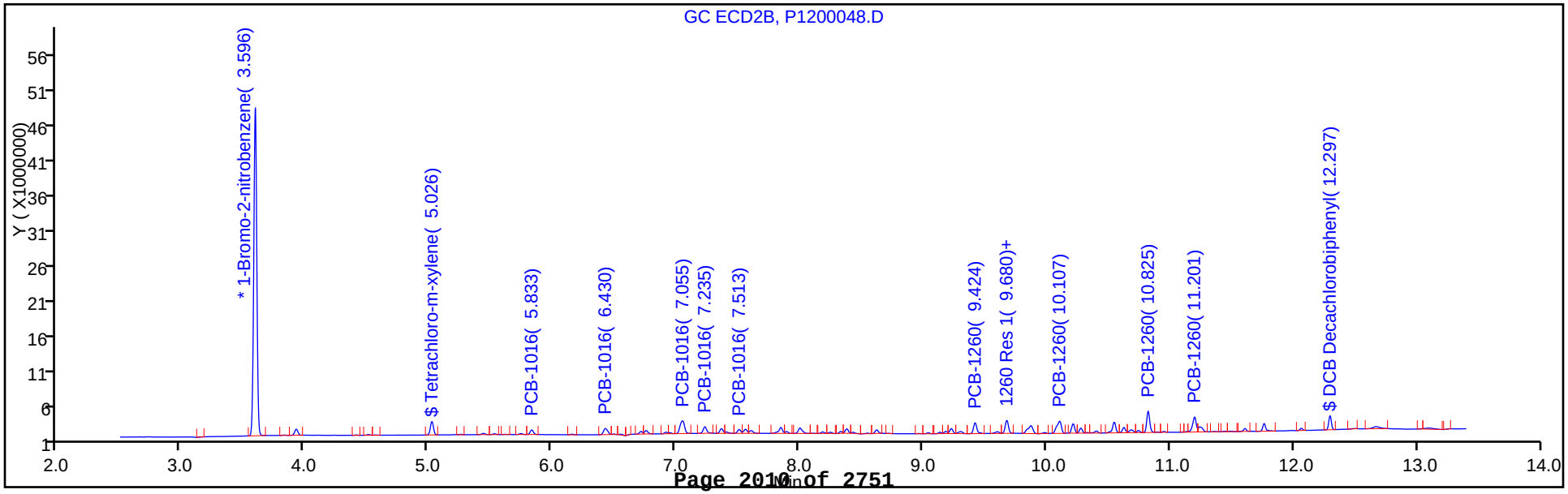
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D

Injection Date:	24-Apr-2015 21:51:20	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 26-Apr-2015 19:55:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D

Injection Date: 24-Apr-2015 21:51:20 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 48 Worklist Smp#: 19

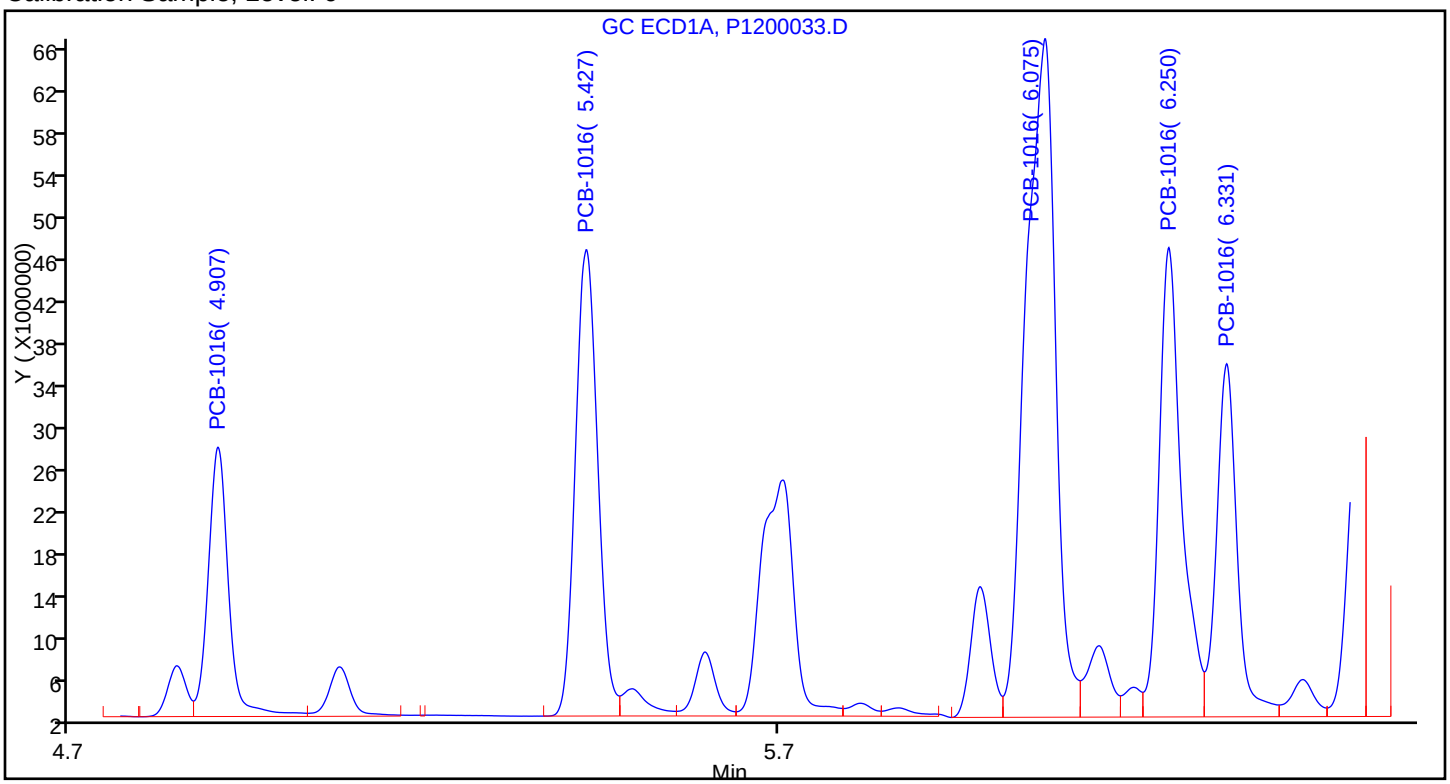
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

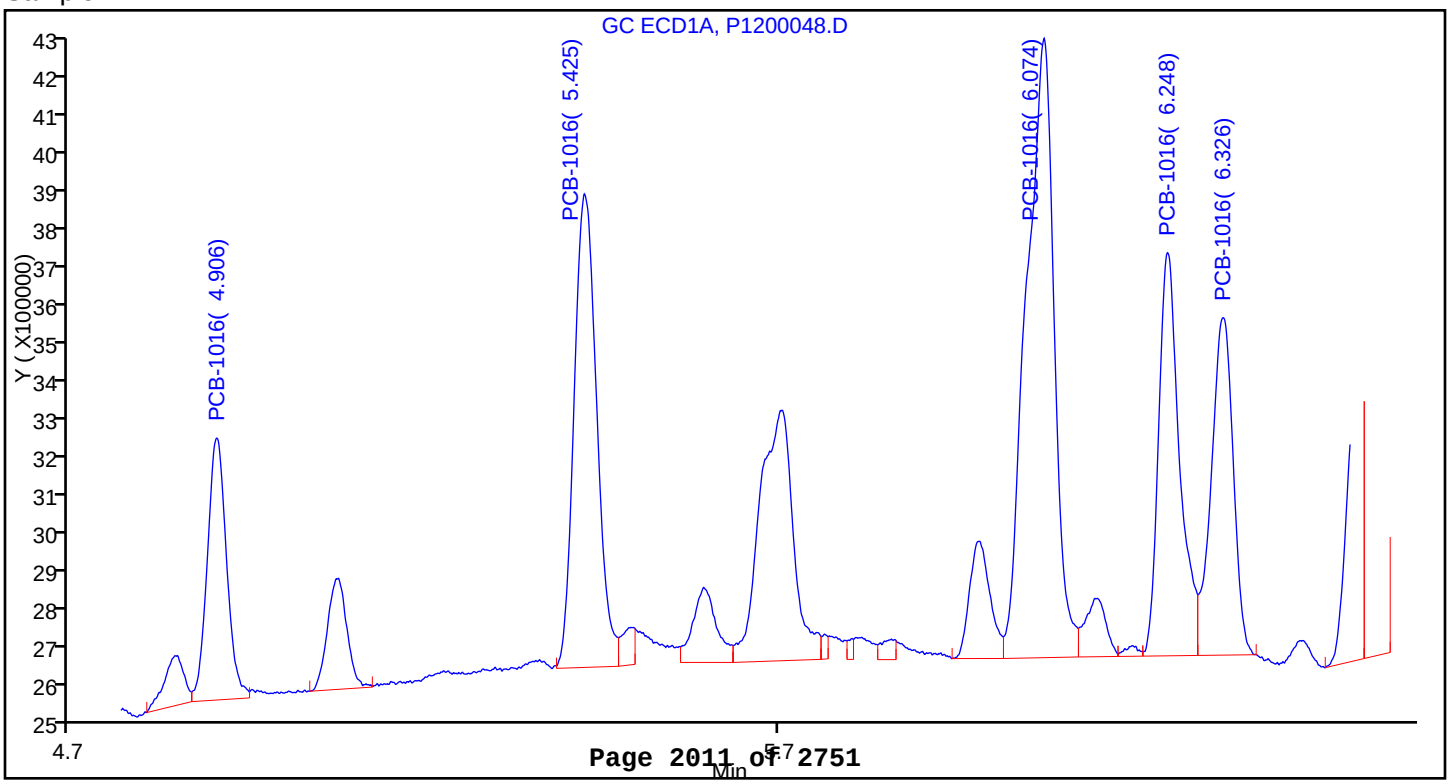
Column: Detector GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 26-Apr-2015 19:55:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D

Injection Date: 24-Apr-2015 21:51:20 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 48 Worklist Smp#: 19

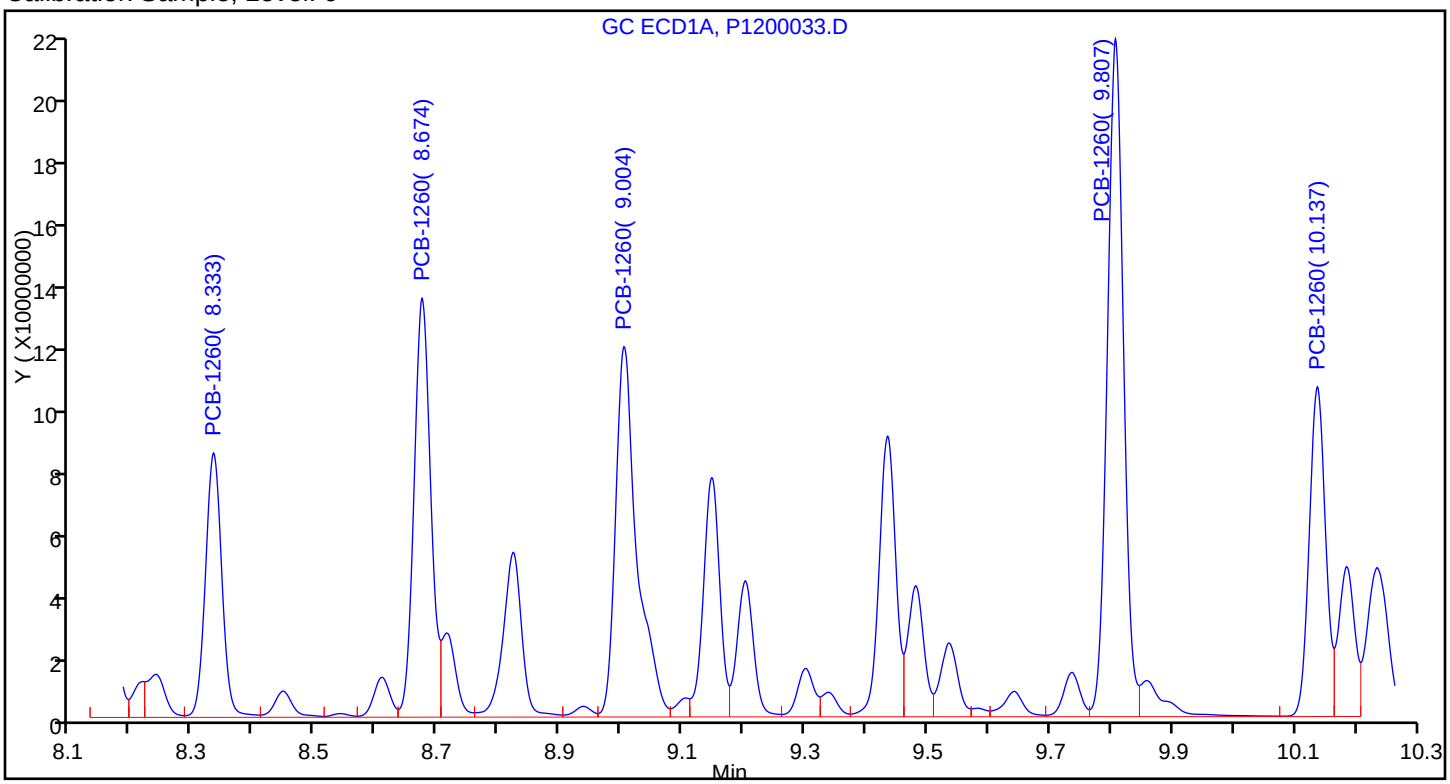
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

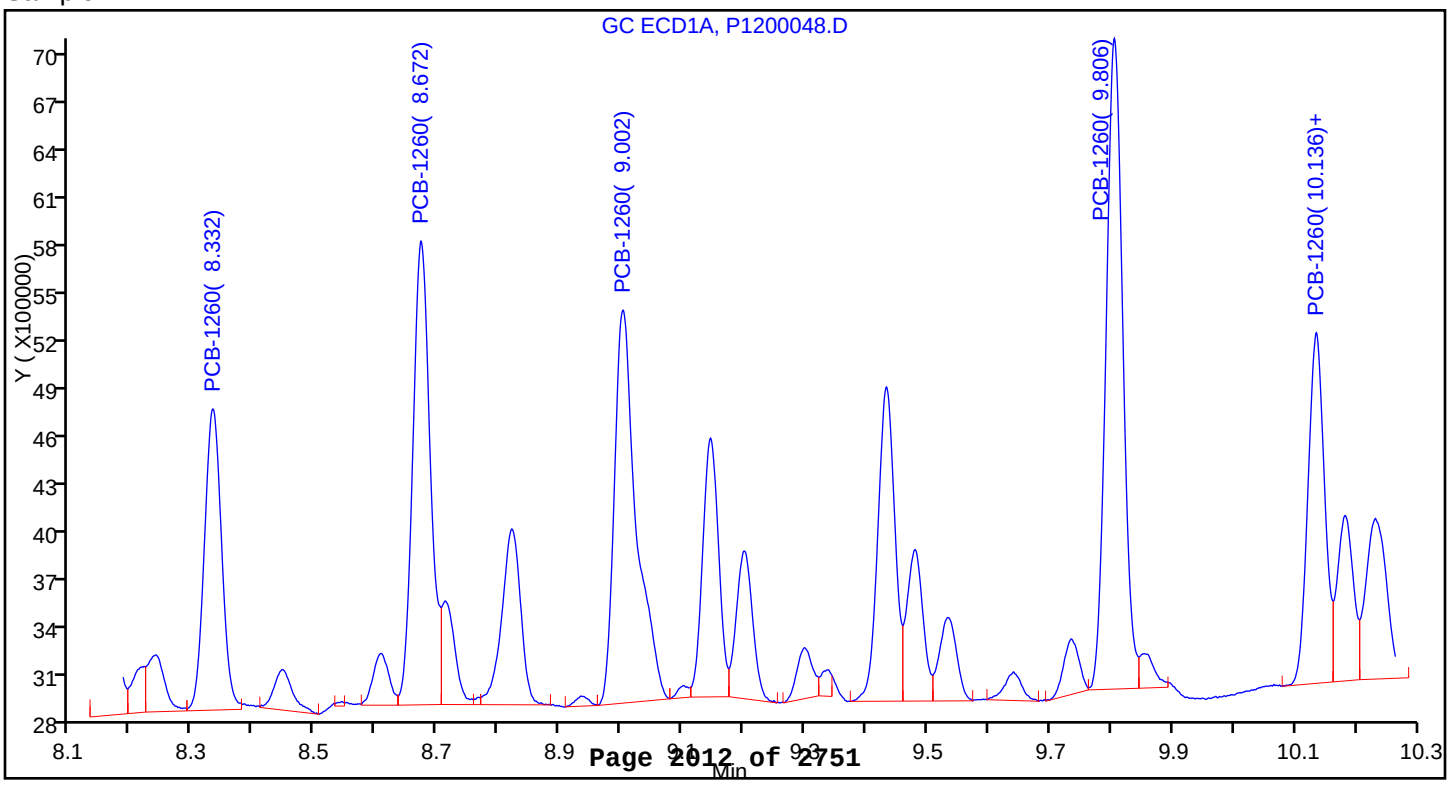
Column: Detector GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MRL 240-177830/19

Matrix: Solid Lab File ID: P1200048.D

Analysis Method: 8082 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 04/24/2015 21:51

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

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

Analysis Batch No.: 177830 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	0.00020	U	0.050	0.00020	0.013
12674-11-2	Aroclor-1016	0.0478	J	0.050	0.00020	0.017
11141-16-5	Aroclor-1232	0.00020	U	0.050	0.00020	0.016
53469-21-9	Aroclor-1242	0.00040	U	0.050	0.00040	0.022
12672-29-6	Aroclor-1248	0.00020	U	0.050	0.00020	0.010
11097-69-1	Aroclor-1254	0.00020	U	0.050	0.00020	0.016
11096-82-5	Aroclor-1260	0.0441	J	0.050	0.00020	0.017

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		50-150
2051-24-3	DCB Decachlorobiphenyl	100		50-150

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 24-Apr-2015 21:51:20 ALS Bottle#: 48 Worklist Smp#: 19
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042909-019
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 26-Apr-2015 19:55:19 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK023

First Level Reviewer: bosworthh Date: 26-Apr-2015 19:45:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.056	3.058	-0.002	102543806	0.0500	0.0500	
2	3.596	3.596	-0.001	80175418	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.317	4.318	-0.001	4082627	0.002500	0.002351	
2	5.026	5.026	0.000	3375158	0.002500	0.002374	
						RPD = 0.96	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.746					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.906	4.906	0.000	1236381	0.0500	0.0451	
1	5.425	5.426	-0.001	2621689	0.0500	0.0479	
1	6.074	6.072	0.002	4227616	0.0500	0.0458	
1	6.248	6.250	-0.002	2074690	0.0500	0.0373	
1	6.326	6.331	-0.005	1818047	0.0500	0.0462	
		Average of Peak Amounts =				0.0444	
2	5.833	5.835	-0.002	1196381	0.0500	0.0482	
2	6.430	6.429	0.001	2081578	0.0500	0.0555	
2	7.055	7.054	0.001	4607459	0.0500	0.0445	
2	7.235	7.235	0.000	1832004	0.0500	0.0442	
2	7.513	7.512	0.001	998185	0.0500	0.0467	
		Average of Peak Amounts =				0.0478	
						RPD = 7.31	
4 PCB-1232							
1		4.906				ND	
1		5.425					
1		6.072					
1		6.248					
1		6.795					
2		5.834					
2		6.429					
2		7.055					
2		7.235					
2		7.512					
5 PCB-1242							
1		4.907				ND	
1		5.426					
1		6.072					
1		6.249					
1		6.330					
2		5.834					
2		6.430					
2		7.054					
2		7.235					
2		7.512					
7 PCB-1248							
1		5.424				ND	
1		6.795					
1		7.369					
1		7.616					
1		8.105					
2		7.050					
2		7.512					
2		8.005					
2		8.388					
2		9.186					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.286				ND	
1		7.621					
1		8.104					
1		8.445					
1		9.004					
2		8.384					
2		8.627					
2		9.186					
2		9.463					
2		10.110					
10 PCB-1260							
1	8.332	8.332	0.000	3672293	0.0500	0.0446	
1	8.672	8.674	-0.002	5770001	0.0500	0.0449	
1	9.002	9.003	-0.001	6098287	0.0500	0.0423	
1	9.806	9.806	0.000	7766730	0.0500	0.0414	
1	10.136	10.136	0.000	4143443	0.0500	0.0446	
		Average of Peak Amounts =				0.0436	
2	9.424	9.424	0.000	2986058	0.0500	0.0457	
2	9.680	9.680	0.000	3413807	0.0500	0.0466	
2	10.107	10.108	-0.001	4501127	0.0500	0.0432	
2	10.825	10.825	0.000	5189961	0.0500	0.0385	
2	11.201	11.201	0.000	4411039	0.0500	0.0467	
		Average of Peak Amounts =				0.0441	
						RPD = 1.26	
9 PCB-1262							
1		8.673				ND	
1		9.146					
1		9.432					
1		9.804					
1		10.182					
2		9.680					
2		10.216					
2		10.549					
2		10.825					
2		11.197					
11 PCB-1268							
1		10.183				ND	
1		10.227					
1		10.443					
1		10.831					
1		11.123					
2		11.193					
2		11.240					
2		11.490					
2		11.763					
2		12.064					
$ 12 DCB Decachlorobiphenyl							
1	11.311	11.311	0.000	4316903	0.002500	0.002350	
2	12.297	12.296	0.001	3008400	0.002500	0.002488	
						RPD = 5.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.136	10.136	0.000	4143443			NR
2	9.680	9.680	0.000	3413807			NR
13 1260 Res 2							
1		10.184				ND	
2		9.778					
15 1260 Res 3							
1		10.232				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SG1660@.05PPM_00012	Amount Added:	1.00	Units: mL	
Pest ISTD_00002	Amount Added:	5.00	Units: uL	Run Reagent

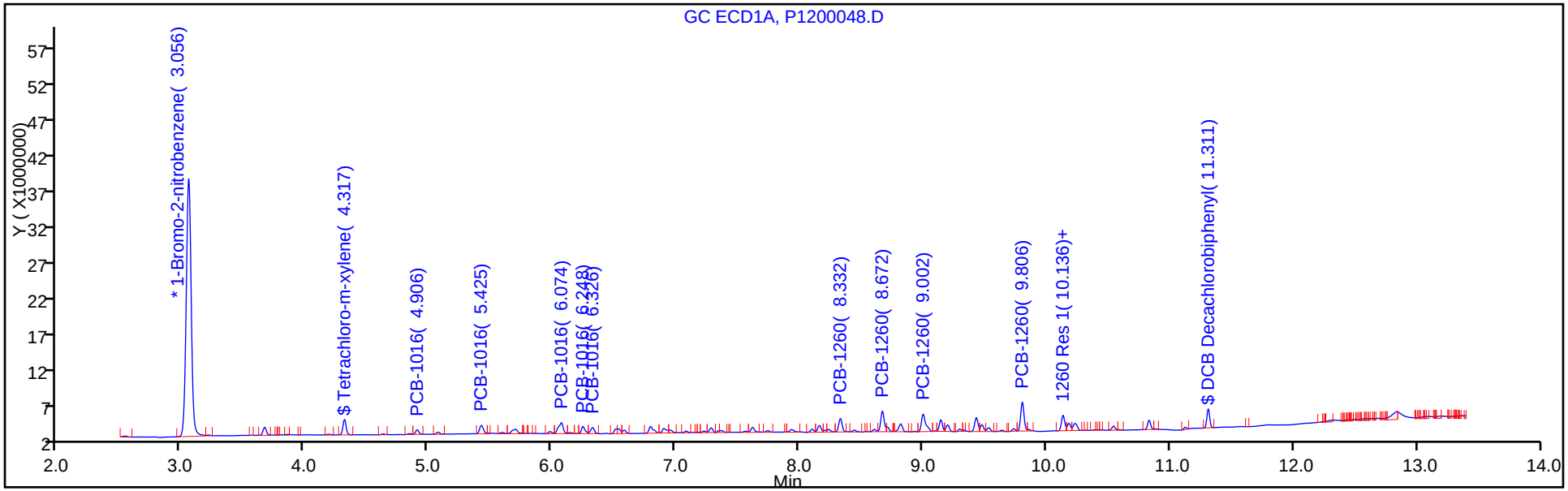
Report Date: 26-Apr-2015 19:55:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

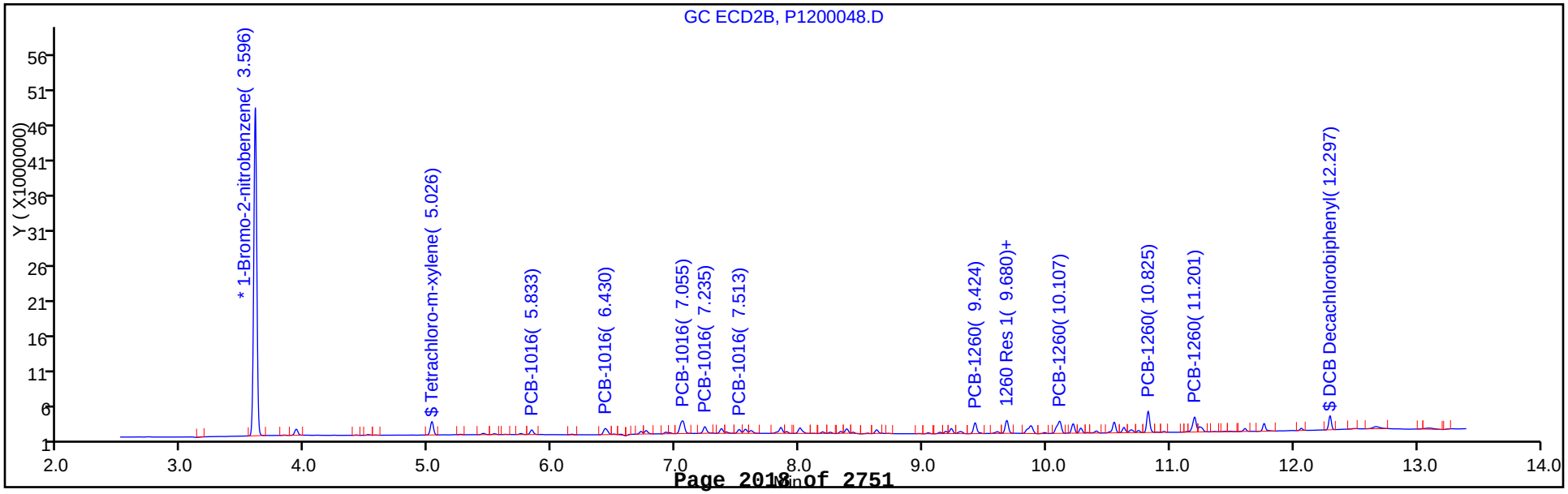
Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D

Injection Date:	24-Apr-2015 21:51:20	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 26-Apr-2015 19:55:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

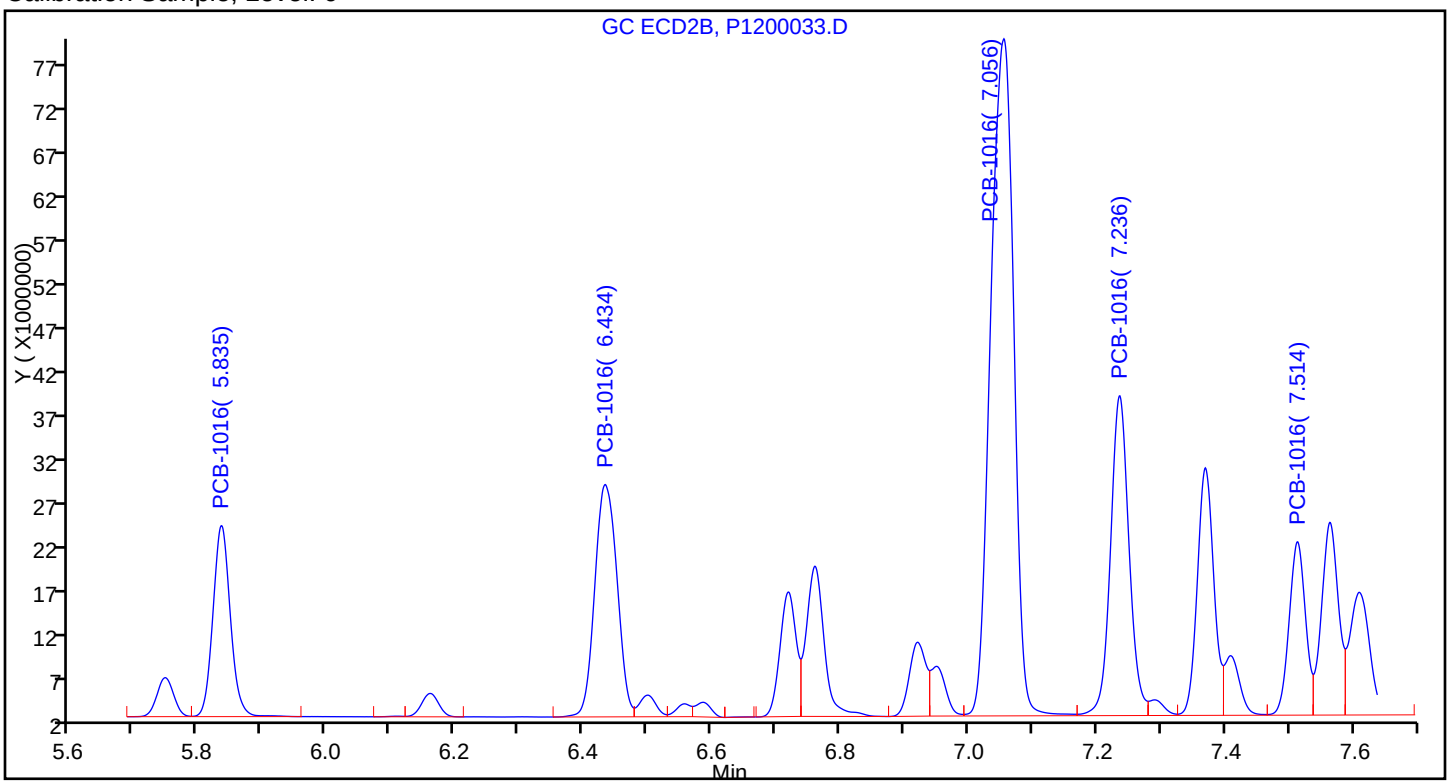
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D

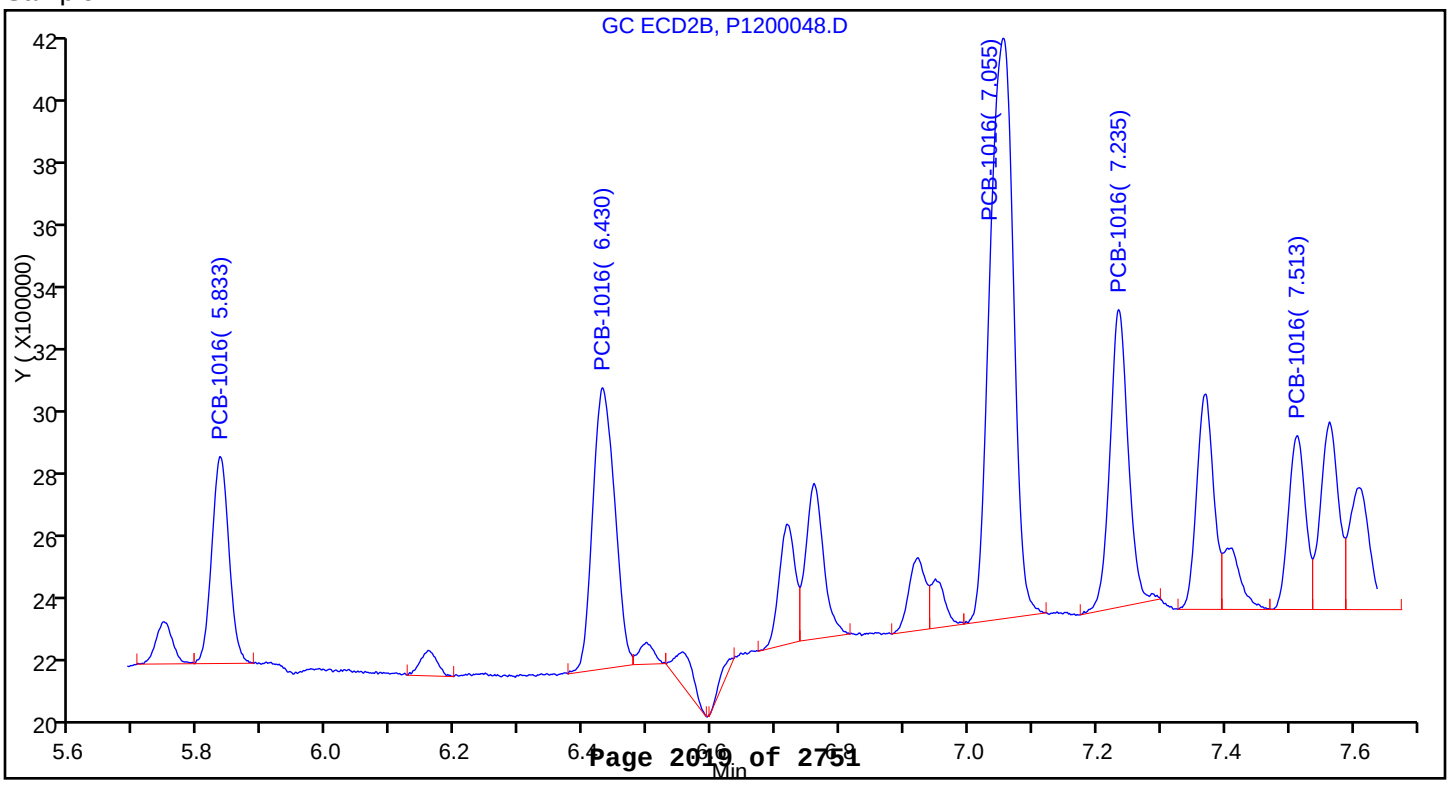
Injection Date:	24-Apr-2015 21:51:20	Instrument ID:	A2HP12
Lims ID:	MRL		
Client ID:			
Operator ID:		ALS Bottle#:	48 Worklist Smp#: 19
Injection Vol:	1.0 uL	Dil. Factor:	1.0000
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS
Column:		Detector	GC ecd2b

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 26-Apr-2015 19:55:34 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150424-42909.b\P1200048.D

Injection Date: 24-Apr-2015 21:51:20 Instrument ID: A2HP12

Lims ID: MRL

Client ID:

Operator ID: ALS Bottle#: 48 Worklist Smp#: 19

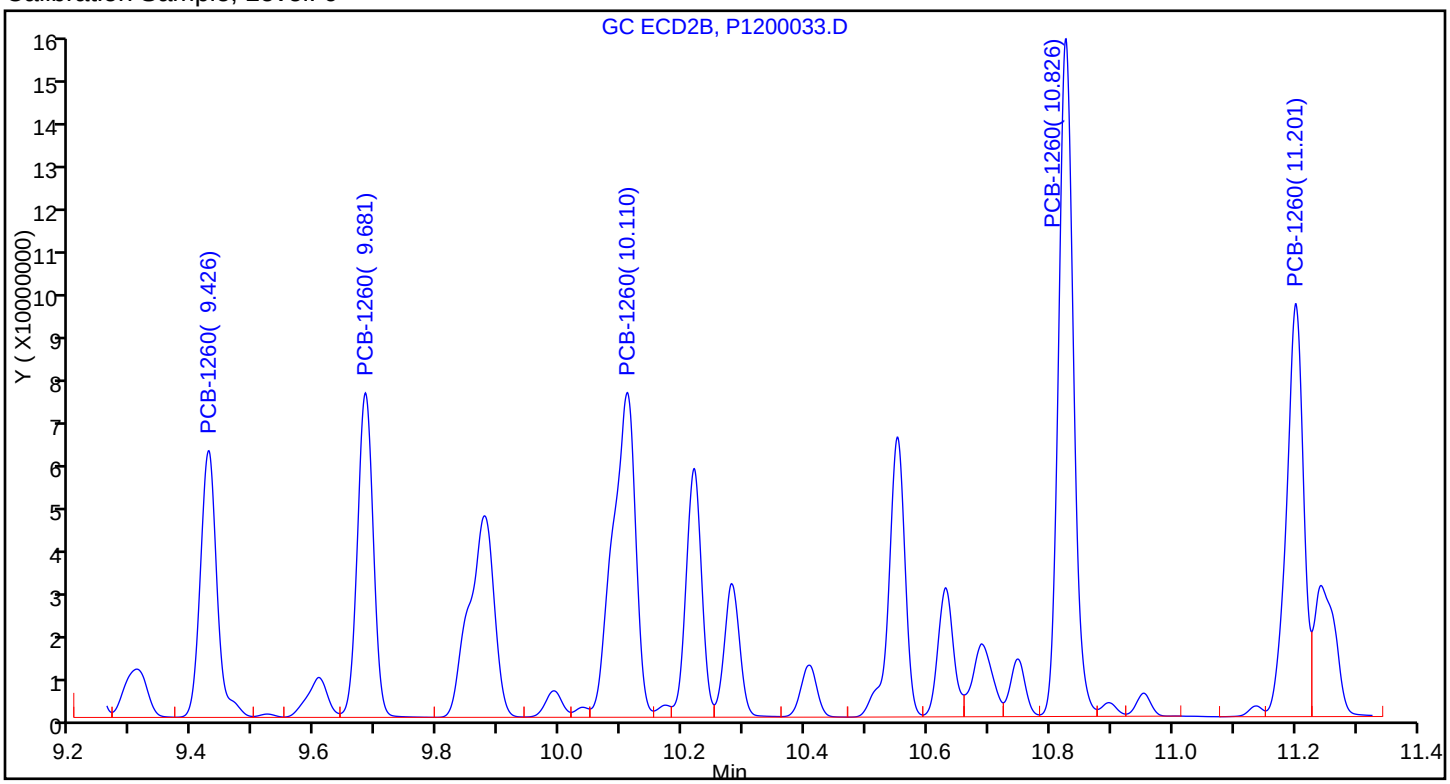
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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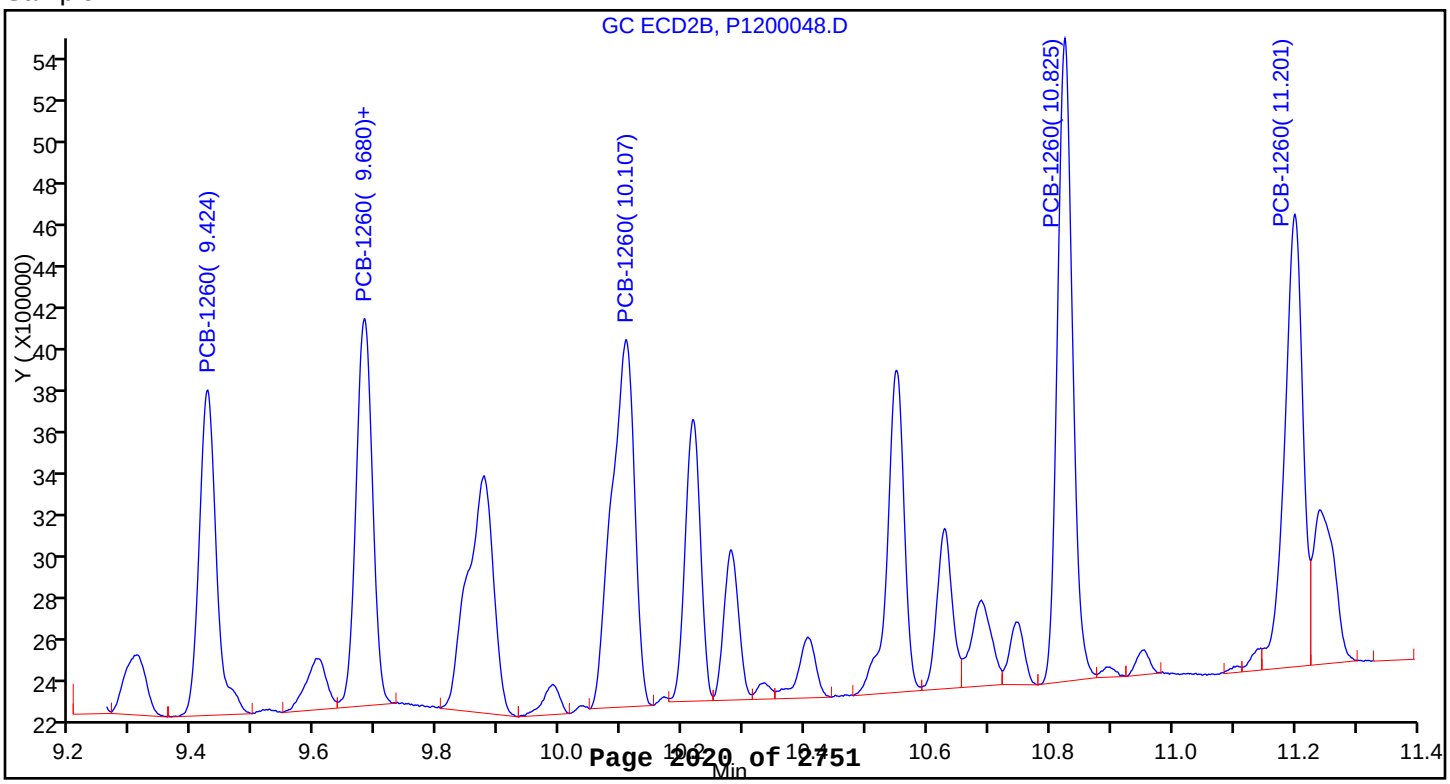


FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MS

Matrix: Solid Lab File ID: P1200043.D

Analysis Method: 8082 Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:04

Sample wt/vol: 29.62(g) Date Analyzed: 04/23/2015 19:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177609 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		40-140
2051-24-3	DCB Decachlorobiphenyl	82		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D
Lims ID: 240-49071-A-2-T MS
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MS
Inject. Date: 23-Apr-2015 19:44:25 ALS Bottle#: 43 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-011
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:17:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.058	-0.001	90134001	0.0500	0.0500	
2	3.595	3.596	-0.001	69047454	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	27993145	0.0200	0.0183	
2	5.026	5.027	-0.001	21045908	0.0200	0.0172	
						RPD = 6.49	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	20967166	1.00	0.8705	
1	5.427	5.427	0.000	40529970	1.00	0.8427	
1	6.074	6.073	0.001	87138025	1.00	1.07	
1	6.250	6.250	0.000	31522963	1.00	0.6439	
1	0.000	6.331	-6.331	0	1.00	0	E
		Average of Peak Amounts =				0.8577	
2	5.834	5.834	0.000	16298237	1.00	0.7622	
2	6.431	6.431	0.000	32328739	1.00	1.00	
2	7.056	7.056	0.000	75183907	1.00	0.8441	
2	7.237	7.237	0.000	27183939	1.00	0.7620	
2	7.514	7.514	0.000	13712291	1.00	0.7444	
		Average of Peak Amounts =				0.8225	
						RPD = 4.18	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.334	8.334	0.000	54795373	1.00	0.7580	
1	8.675	8.675	0.000	93942008	1.00	0.8325	
1	9.004	9.004	0.000	101505787	1.00	0.8013	
1	9.808	9.808	0.000	120300974	1.00	0.7301	
1	10.138	10.138	0.000	66071745	1.00	0.8086	
		Average of Peak Amounts =				0.7861	
2	9.425	9.426	-0.001	43719630	1.00	0.7773	
2	9.681	9.682	-0.001	50048917	1.00	0.7927	
2	10.111	10.110	0.001	71511289	1.00	0.7965	
2	10.826	10.827	-0.001	89427224	1.00	0.7701	
2	11.203	11.203	0.000	60840316	1.00	0.7484	
		Average of Peak Amounts =				0.7770	
						RPD = 1.17	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.313	0.001	26487488	0.0200	0.0164	
2	12.299	12.298	0.001	18079120	0.0200	0.0174	
						RPD = 5.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.138	10.138	0.000	66071745		NR	
2	9.681	9.682	-0.001	50048917		NR	
13 1260 Res 2							
1	10.185	10.185	0.000	21561621		NR	
2	9.766	9.778	-0.012	352828		NR	
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

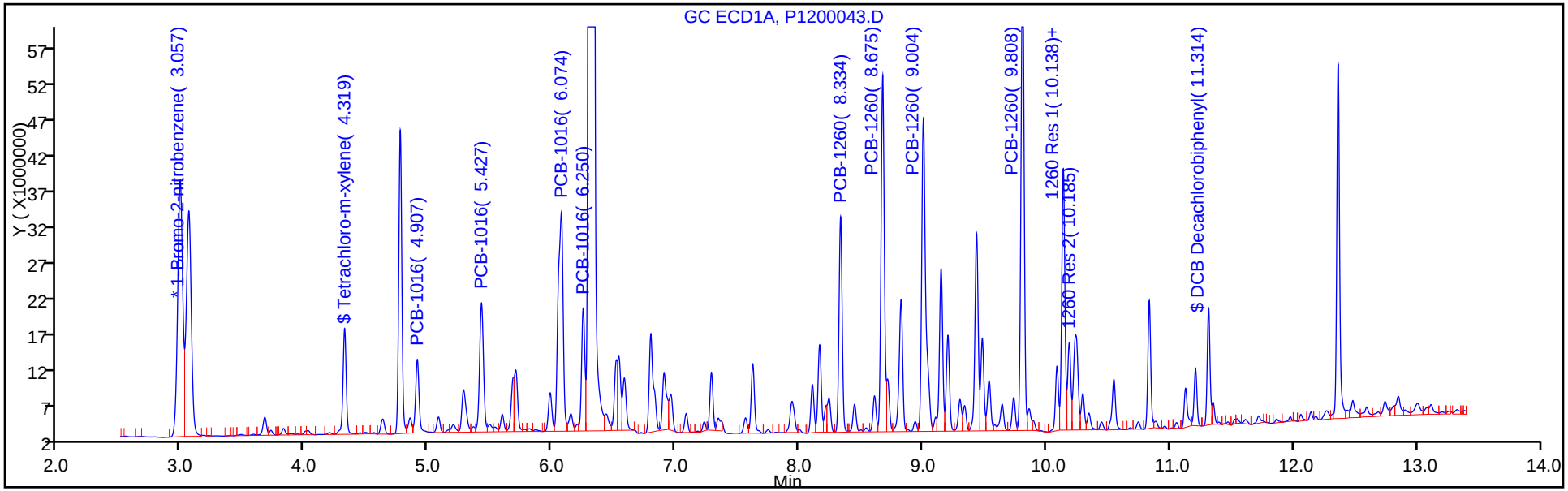
Report Date: 24-Apr-2015 10:24:13 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

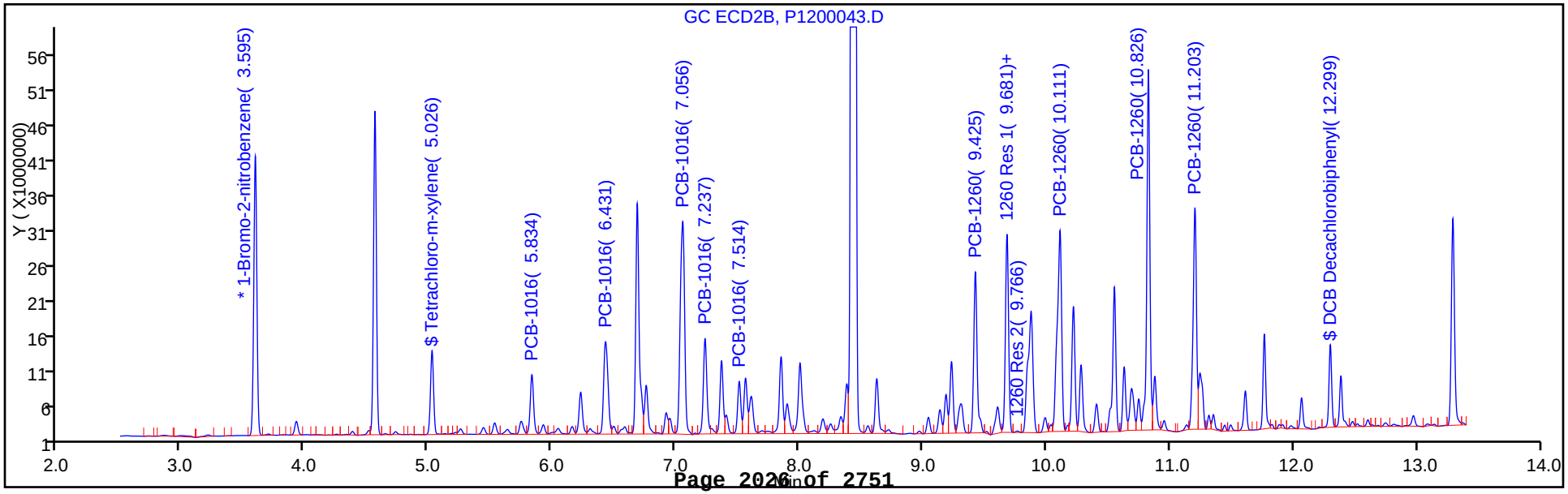
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D

Injection Date:	23-Apr-2015 19:44:25	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	240-49071-A-2-T MS			Worklist Smp#:	11
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D

Injection Date: 23-Apr-2015 19:44:25 Instrument ID: A2HP12

Lims ID: 240-49071-A-2-T MS

Client ID: 079SS-0342M-0001,0002-SO

Operator ID: ALS Bottle#: 43 Worklist Smp#: 11

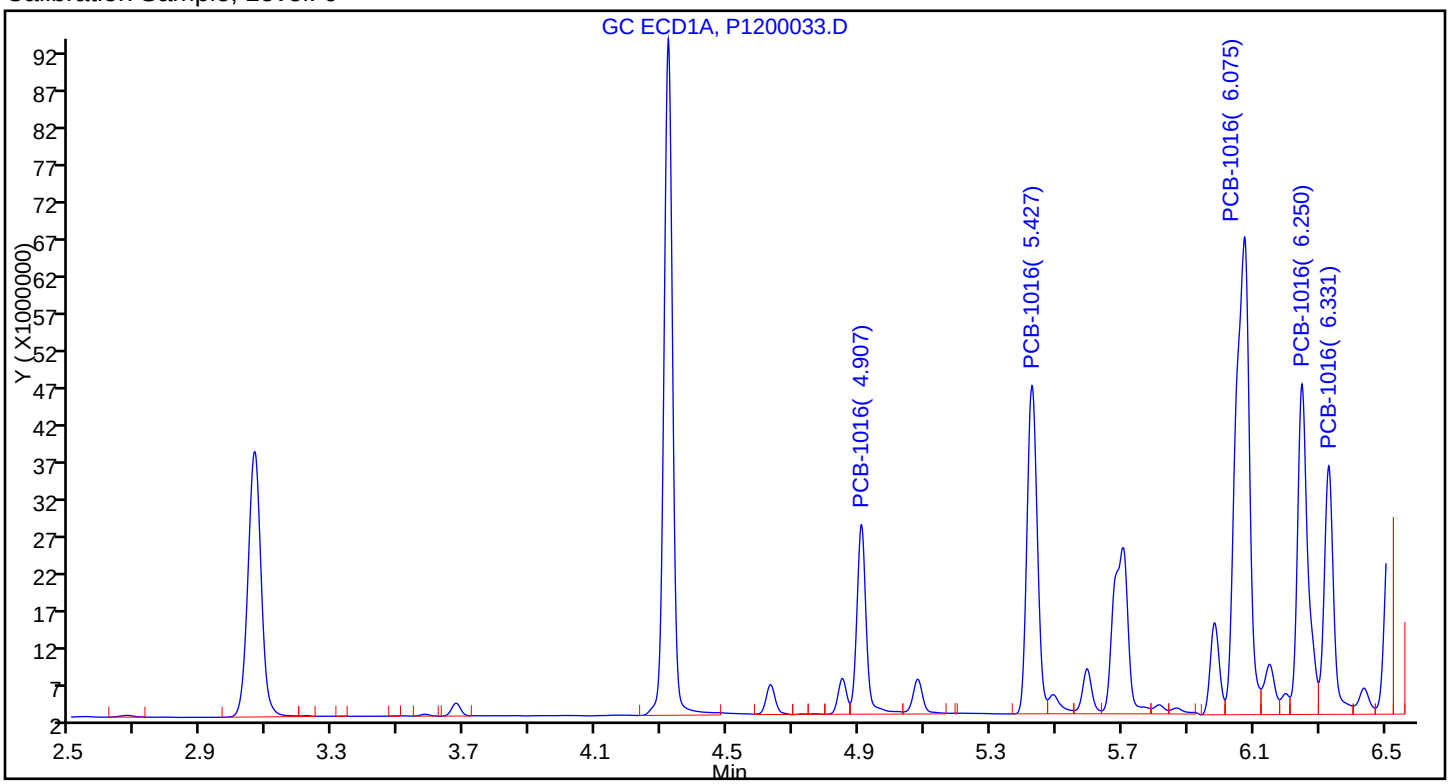
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

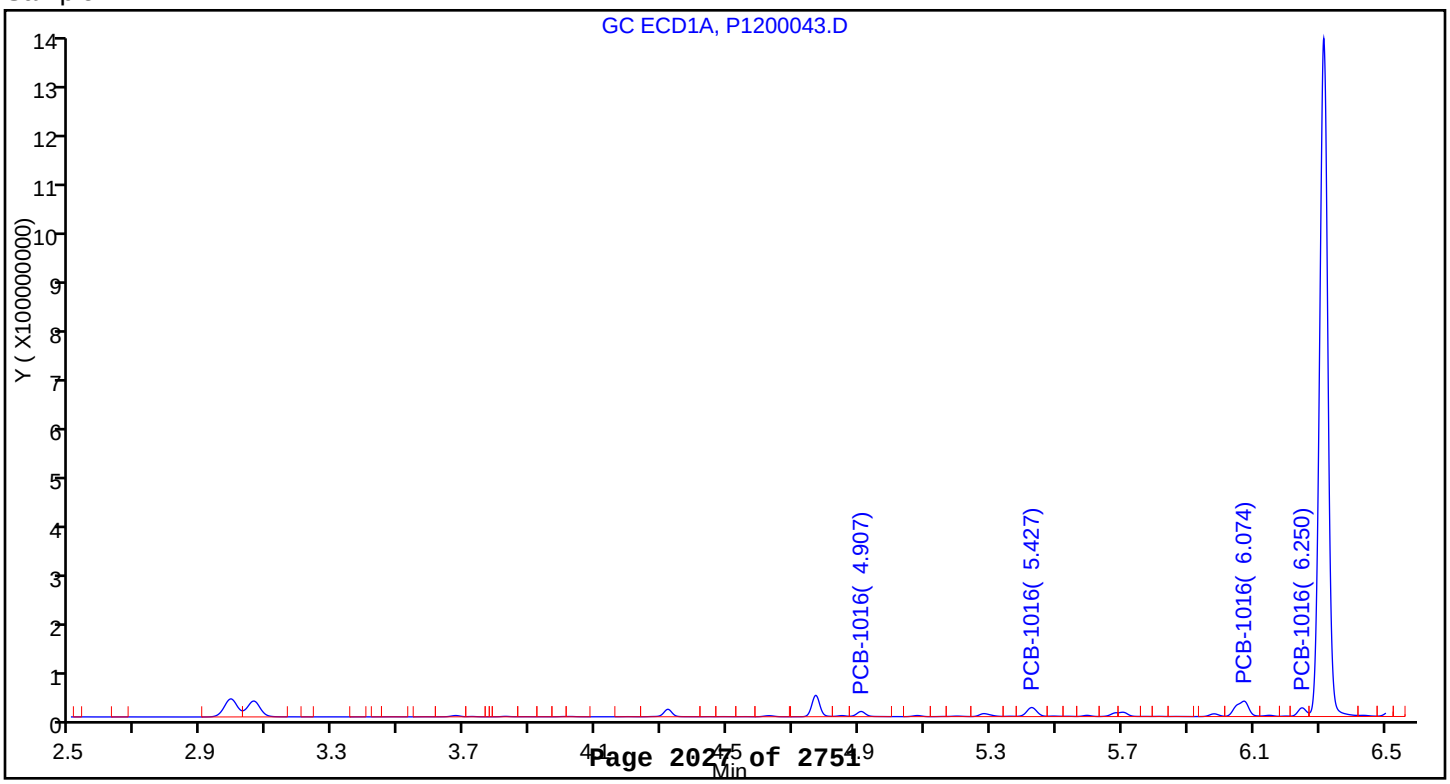
Column: Detector GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 24-Apr-2015 10:24:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D

Injection Date: 23-Apr-2015 19:44:25 Instrument ID: A2HP12

Lims ID: 240-49071-A-2-T MS

Client ID: 079SS-0342M-0001,0002-SO

Operator ID: ALS Bottle#: 43 Worklist Smp#: 11

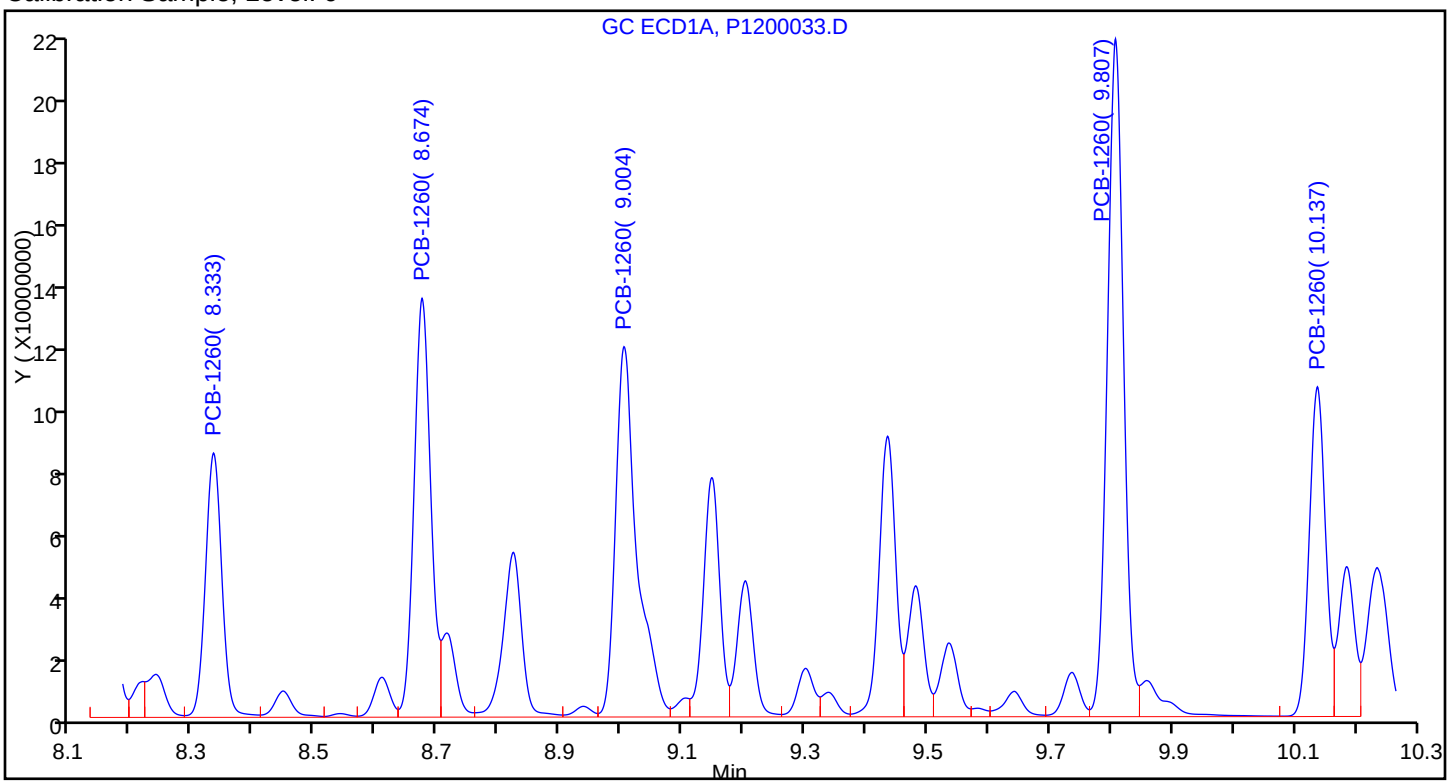
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

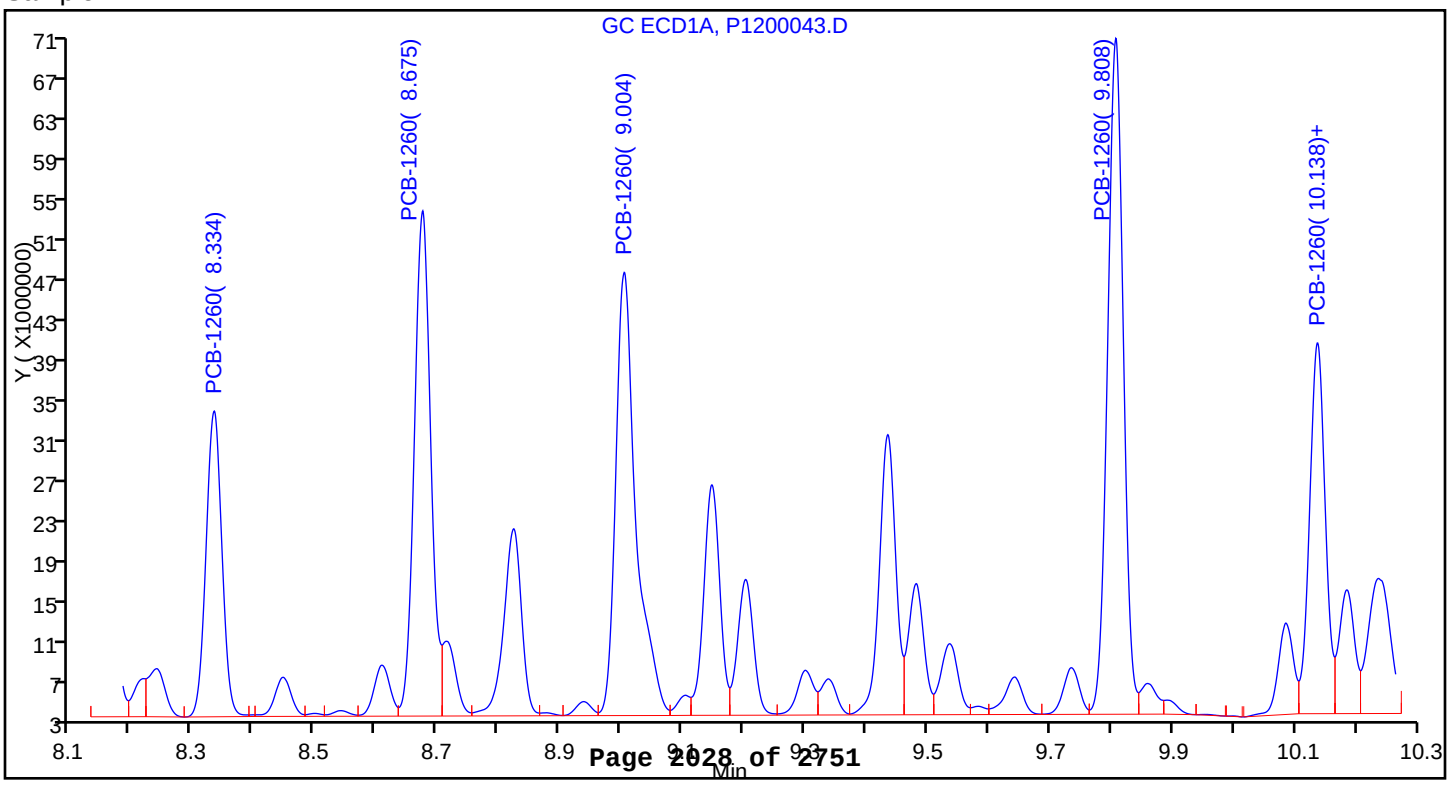
Column: Detector GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO | Lab Sample ID: 240-49071-2 MS

Matrix: Solid | Lab File ID: P1200043.D

Analysis Method: 8082 | Date Collected: 04/06/2015 16:30

Extraction Method: 3540C | Date Extracted: 04/20/2015 09:04

Sample wt/vol: 29.62(g) | Date Analyzed: 04/23/2015 19:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 177609 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	34	U	52	34	17
12674-11-2	Aroclor-1016	284		67	34	12
11141-16-5	Aroclor-1232	34	U	47	34	21
53469-21-9	Aroclor-1242	34	U	41	34	11
12672-29-6	Aroclor-1248	34	U	57	34	8.3
11097-69-1	Aroclor-1254	34	U	57	34	15
11096-82-5	Aroclor-1260	269		57	34	9.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		40-140
2051-24-3	DCB Decachlorobiphenyl	87		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D
Lims ID: 240-49071-A-2-T MS
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MS
Inject. Date: 23-Apr-2015 19:44:25 ALS Bottle#: 43 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-011
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:17:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.057	3.058	-0.001	90134001	0.0500	0.0500	
2	3.595	3.596	-0.001	69047454	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	27993145	0.0200	0.0183	
2	5.026	5.027	-0.001	21045908	0.0200	0.0172	
						RPD = 6.49	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	20967166	1.00	0.8705	
1	5.427	5.427	0.000	40529970	1.00	0.8427	
1	6.074	6.073	0.001	87138025	1.00	1.07	
1	6.250	6.250	0.000	31522963	1.00	0.6439	
1	0.000	6.331	-6.331	0	1.00	0	E
		Average of Peak Amounts =				0.8577	
2	5.834	5.834	0.000	16298237	1.00	0.7622	
2	6.431	6.431	0.000	32328739	1.00	1.00	
2	7.056	7.056	0.000	75183907	1.00	0.8441	
2	7.237	7.237	0.000	27183939	1.00	0.7620	
2	7.514	7.514	0.000	13712291	1.00	0.7444	
		Average of Peak Amounts =				0.8225	
						RPD = 4.18	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.334	8.334	0.000	54795373	1.00	0.7580	
1	8.675	8.675	0.000	93942008	1.00	0.8325	
1	9.004	9.004	0.000	101505787	1.00	0.8013	
1	9.808	9.808	0.000	120300974	1.00	0.7301	
1	10.138	10.138	0.000	66071745	1.00	0.8086	
		Average of Peak Amounts =				0.7861	
2	9.425	9.426	-0.001	43719630	1.00	0.7773	
2	9.681	9.682	-0.001	50048917	1.00	0.7927	
2	10.111	10.110	0.001	71511289	1.00	0.7965	
2	10.826	10.827	-0.001	89427224	1.00	0.7701	
2	11.203	11.203	0.000	60840316	1.00	0.7484	
		Average of Peak Amounts =				0.7770	
						RPD = 1.17	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.313	0.001	26487488	0.0200	0.0164	
2	12.299	12.298	0.001	18079120	0.0200	0.0174	
						RPD = 5.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.138	10.138	0.000	66071745			NR
2	9.681	9.682	-0.001	50048917			NR
13 1260 Res 2							
1	10.185	10.185	0.000	21561621			NR
2	9.766	9.778	-0.012	352828			NR
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

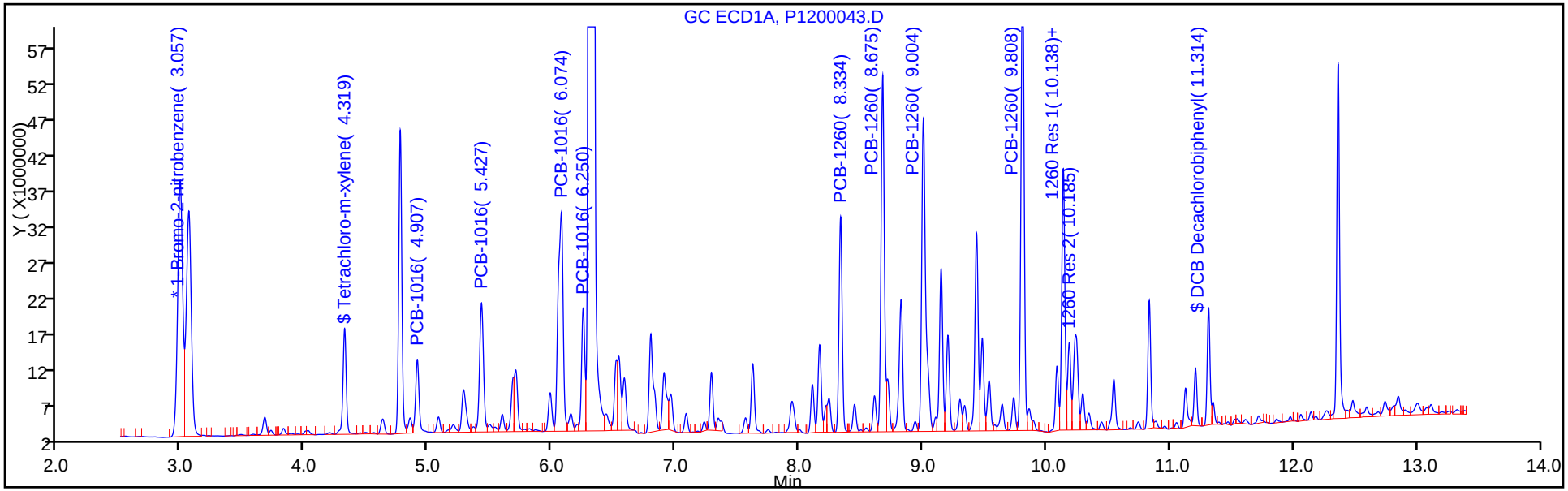
Report Date: 24-Apr-2015 10:24:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

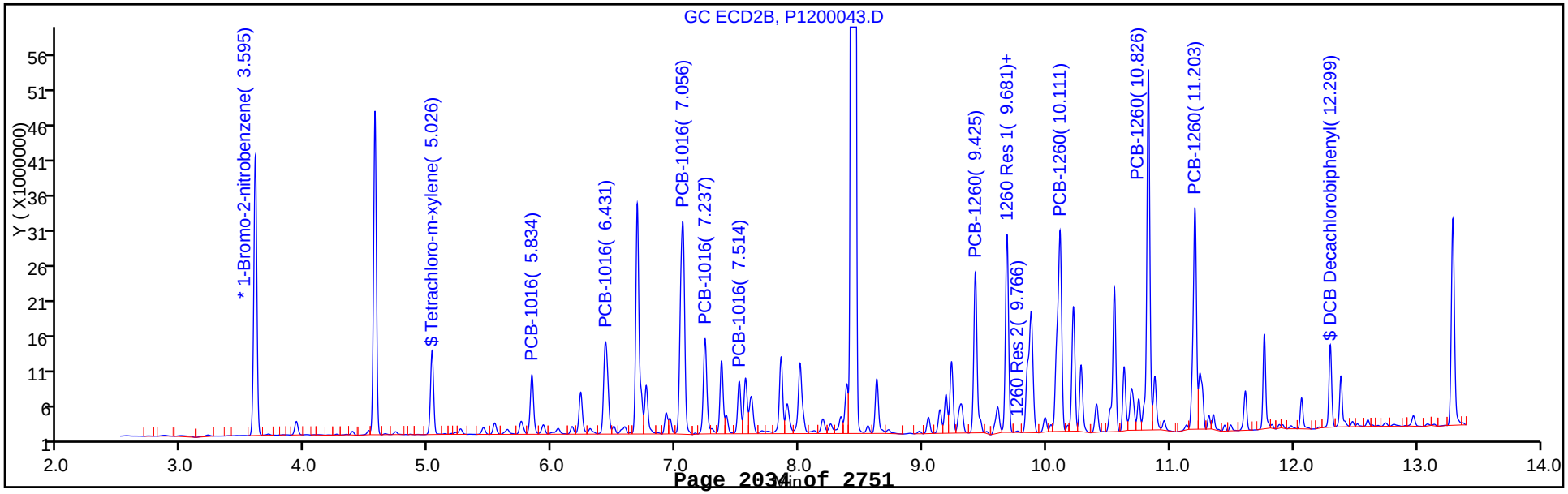
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D

Injection Date:	23-Apr-2015 19:44:25	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	240-49071-A-2-T MS			Worklist Smp#:	11
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:14 Chrom Revision: 2.2 09-Apr-2015 10:05:40

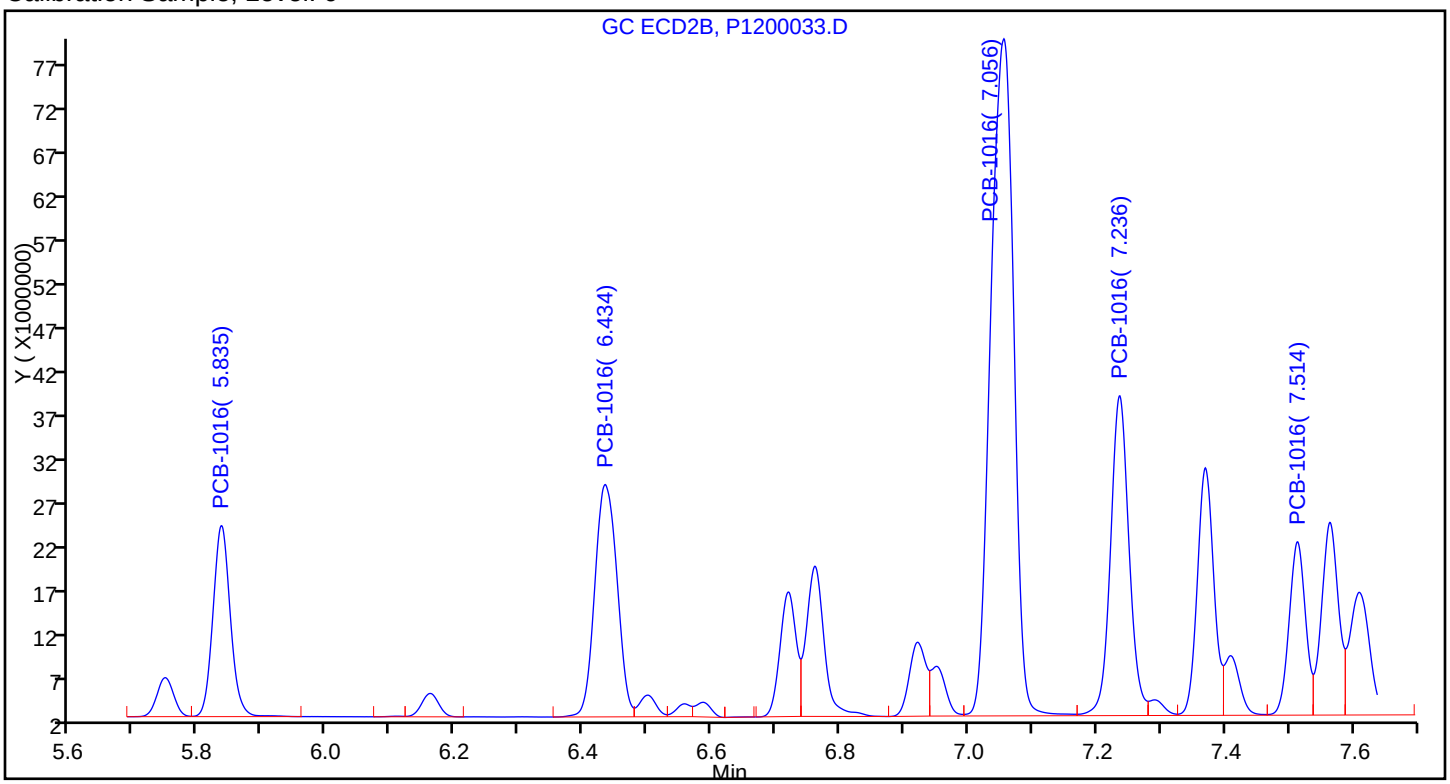
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D

Injection Date:	23-Apr-2015 19:44:25	Instrument ID:	A2HP12		
Lims ID:	240-49071-A-2-T MS				
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:		ALS Bottle#:	43	Worklist Smp#:	11
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		
Column:		Detector	GC ecd2b		

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



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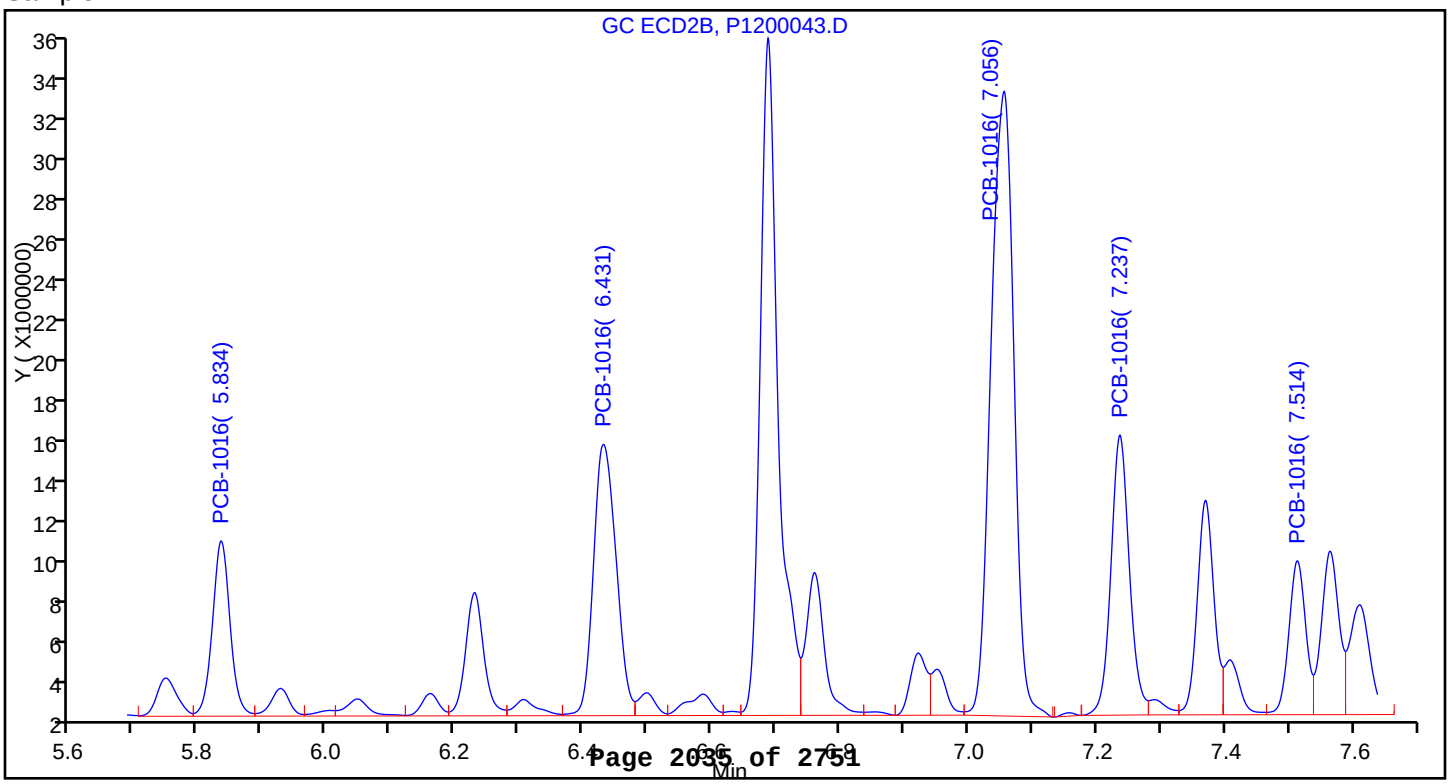


Report Date: 24-Apr-2015 10:24:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200043.D

Injection Date: 23-Apr-2015 19:44:25 Instrument ID: A2HP12

Lims ID: 240-49071-A-2-T MS

Client ID: 079SS-0342M-0001,0002-SO

Operator ID: ALS Bottle#: 43 Worklist Smp#: 11

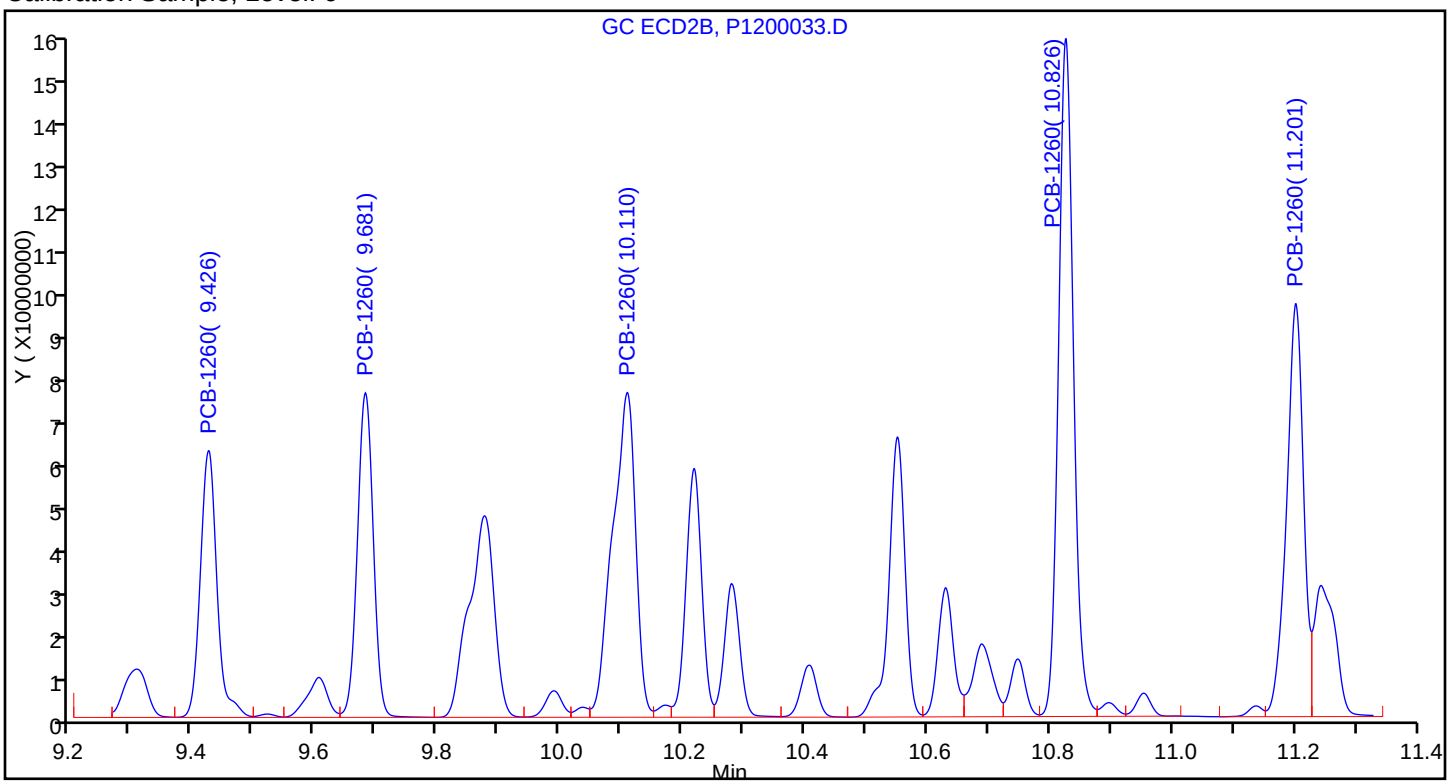
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

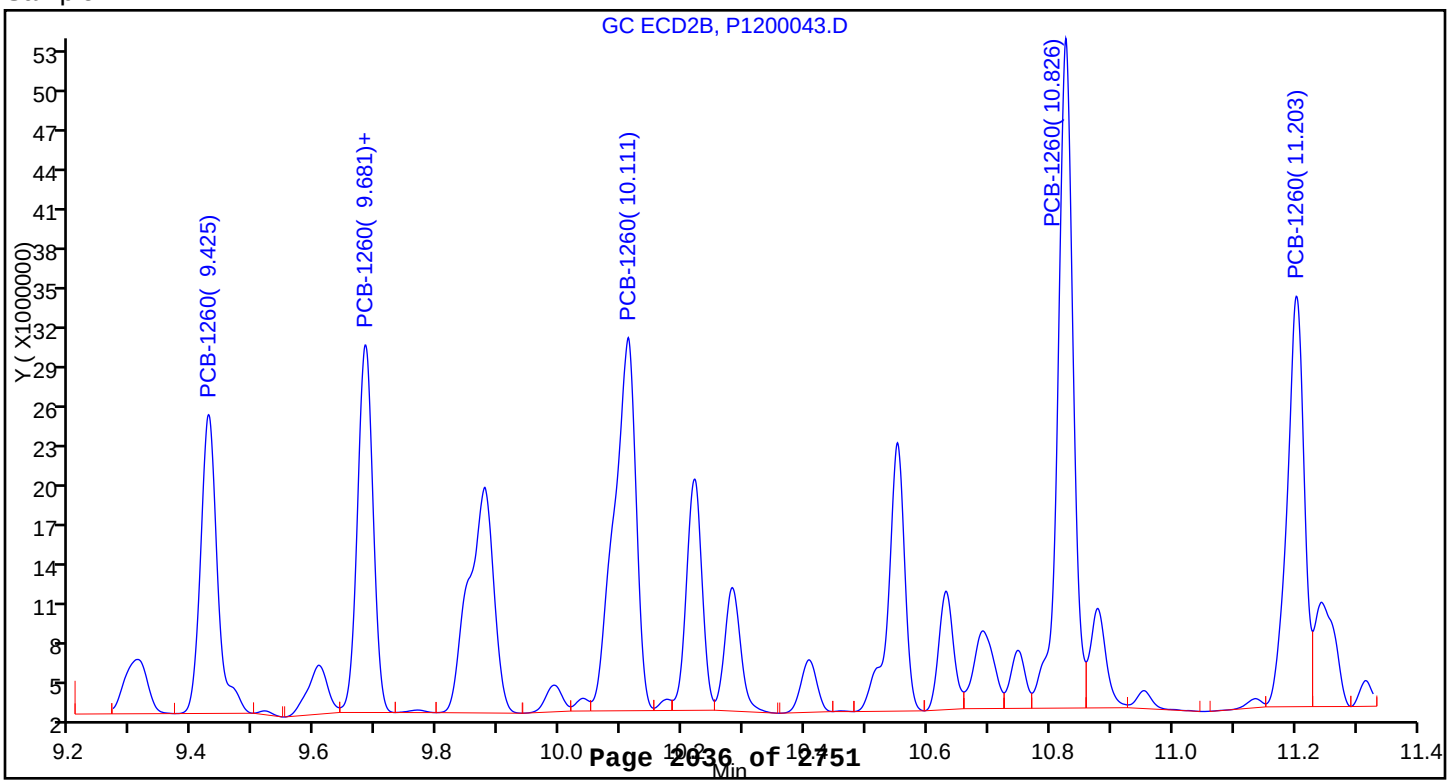
Column: Detector GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MSD

Matrix: Solid Lab File ID: P1200044.D

Analysis Method: 8082 Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:04

Sample wt/vol: 30.43(g) Date Analyzed: 04/23/2015 20:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-1 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177609 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	81		40-140
2051-24-3	DCB Decachlorobiphenyl	73		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D
Lims ID: 240-49071-A-2-U MSD
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MSD
Inject. Date: 23-Apr-2015 20:02:34 ALS Bottle#: 44 Worklist Smp#: 12
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-012
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:17:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	94516636	0.0500	0.0500	
2	3.596	3.596	0.000	71966580	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	26050170	0.0200	0.0163	
2	5.027	5.027	0.000	20118165	0.0200	0.0158	
						RPD = 3.20	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	18989548	1.00	0.7518	
1	5.427	5.427	0.000	38545737	1.00	0.7643	
1	6.075	6.073	0.002	77416376	1.00	0.9095	
1	6.250	6.250	0.000	29668850	1.00	0.5780	
1	0.000	6.331	-6.331	0	1.00	0	E
		Average of Peak Amounts =				0.7509	
2	5.834	5.834	0.000	16201869	1.00	0.7270	
2	6.431	6.431	0.000	31310793	1.00	0.9292	
2	7.057	7.056	0.001	70866602	1.00	0.7633	
2	7.237	7.237	0.000	25556498	1.00	0.6873	
2	7.513	7.514	-0.001	12932235	1.00	0.6736	
		Average of Peak Amounts =				0.7561	
						RPD = 0.69	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.334	8.334	0.000	51767610	1.00	0.6829	
1	8.674	8.675	-0.001	89696311	1.00	0.7581	
1	9.003	9.004	-0.001	98095018	1.00	0.7385	
1	9.808	9.808	0.000	115229911	1.00	0.6669	
1	10.138	10.138	0.000	62749518	1.00	0.7323	
		Average of Peak Amounts =				0.7157	
2	9.425	9.426	-0.001	42613334	1.00	0.7269	
2	9.682	9.682	0.000	47443042	1.00	0.7209	
2	10.111	10.110	0.001	68433199	1.00	0.7313	
2	10.827	10.827	0.000	81927576	1.00	0.6769	
2	11.204	11.203	0.001	57059081	1.00	0.6734	
		Average of Peak Amounts =				0.7059	
						RPD = 1.39	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.313	0.001	24796460	0.0200	0.0146	
2	12.299	12.298	0.001	16936403	0.0200	0.0156	
						RPD = 6.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.138	10.138	0.000	62749518			NR
2	9.682	9.682	0.000	47443042			NR
13 1260 Res 2							
1	10.186	10.185	0.001	20791055			NR
2	9.767	9.778	-0.012	320485			NR
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

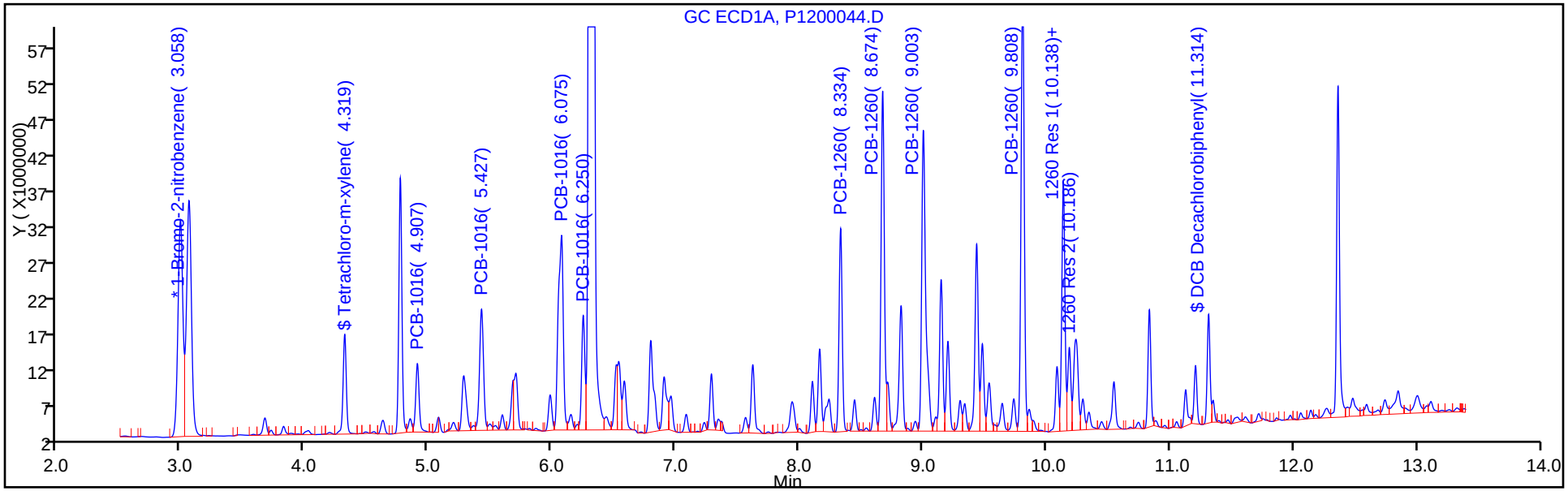
Report Date: 24-Apr-2015 10:24:15 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

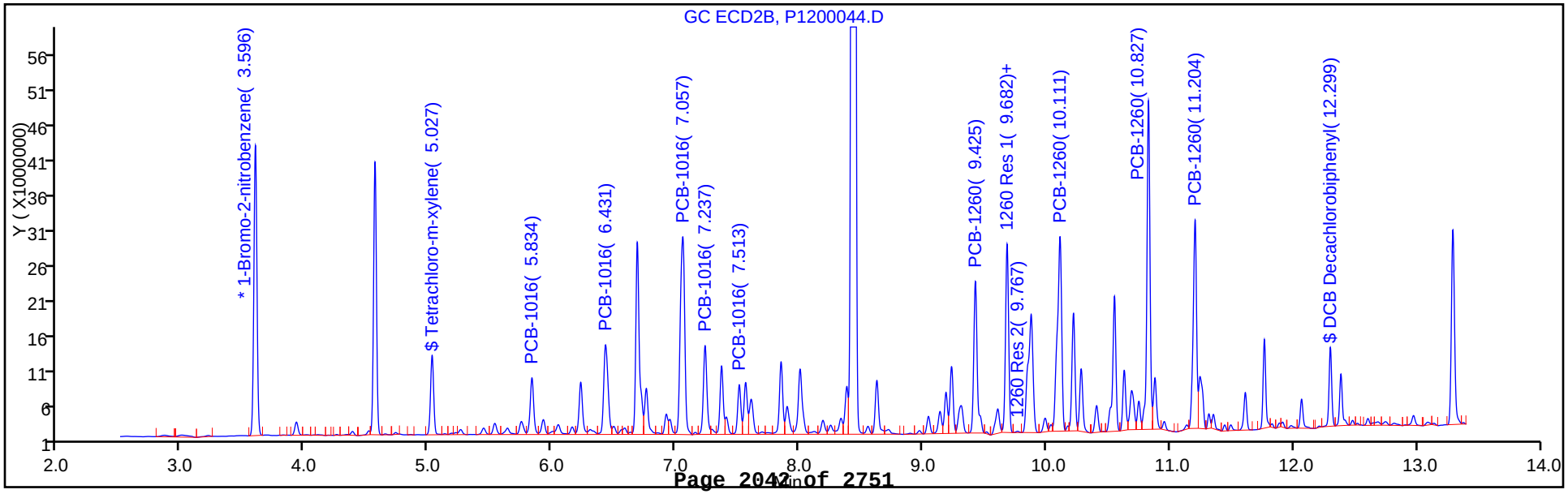
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D

Injection Date:	23-Apr-2015 20:02:34	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	240-49071-A-2-U MSD			Worklist Smp#:	12
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D

Injection Date: 23-Apr-2015 20:02:34 Instrument ID: A2HP12

Lims ID: 240-49071-A-2-U MSD

Client ID: 079SS-0342M-0001,0002-SO

Operator ID: ALS Bottle#: 44 Worklist Smp#: 12

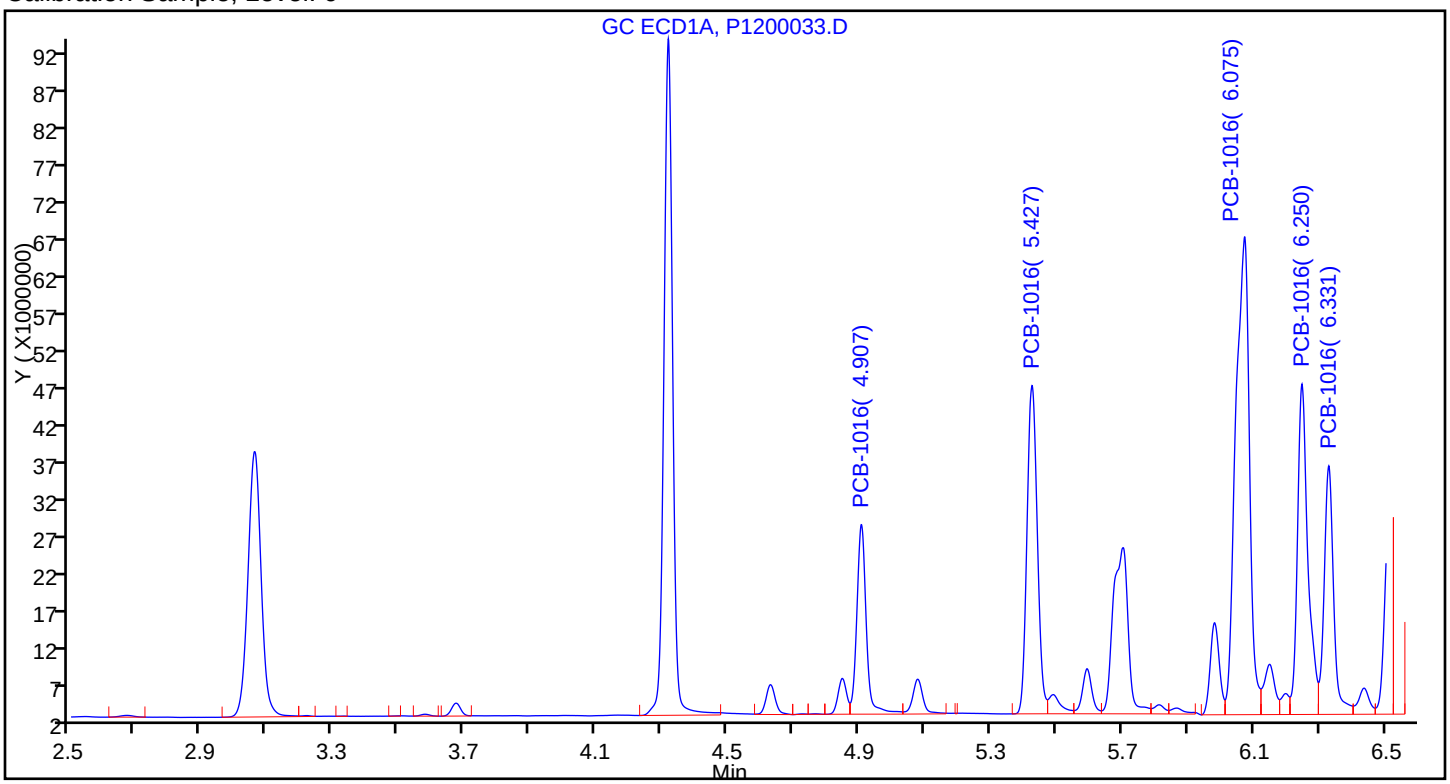
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ECD1A

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



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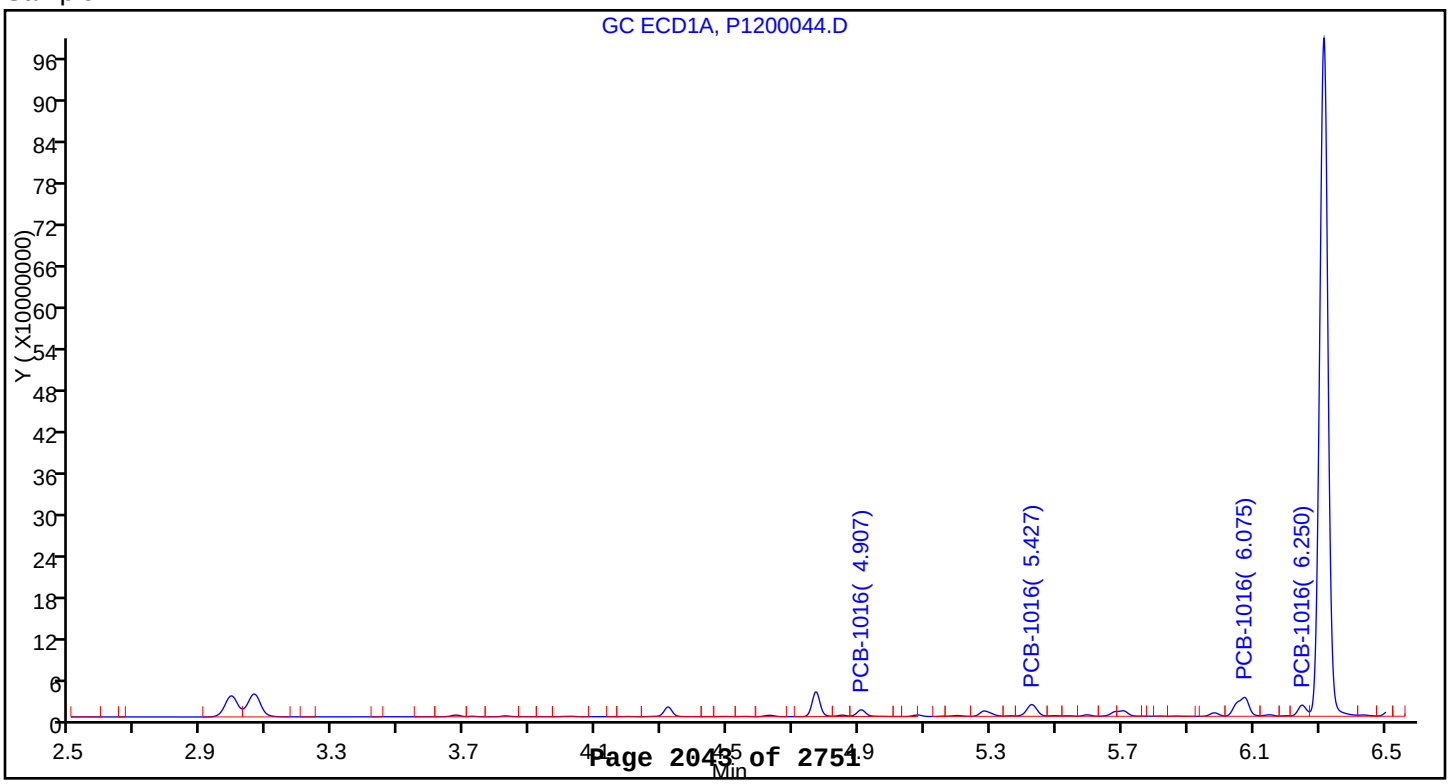


Report Date: 24-Apr-2015 10:24:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D

Injection Date: 23-Apr-2015 20:02:34 Instrument ID: A2HP12

Lims ID: 240-49071-A-2-U MSD

Client ID: 079SS-0342M-0001,0002-SO

Operator ID: ALS Bottle#: 44 Worklist Smp#: 12

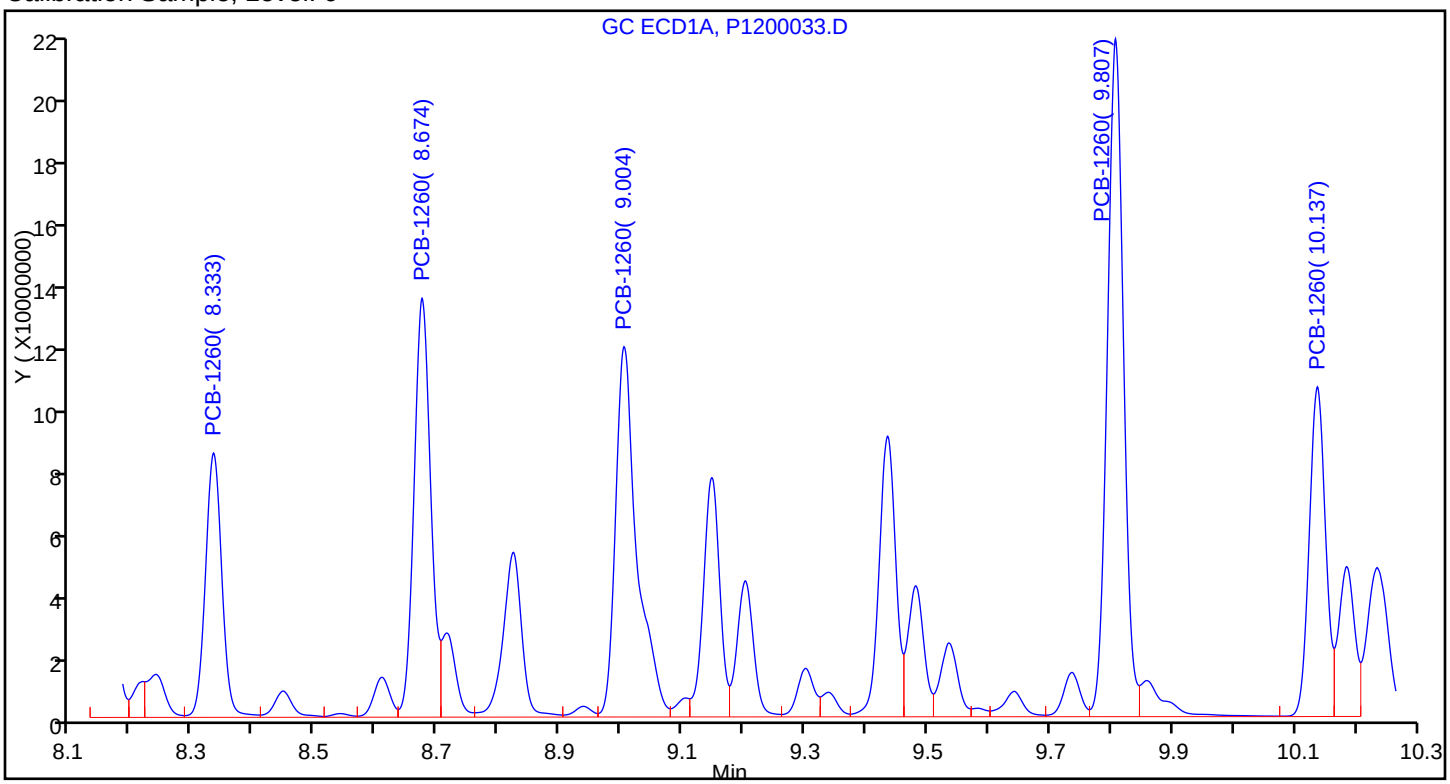
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

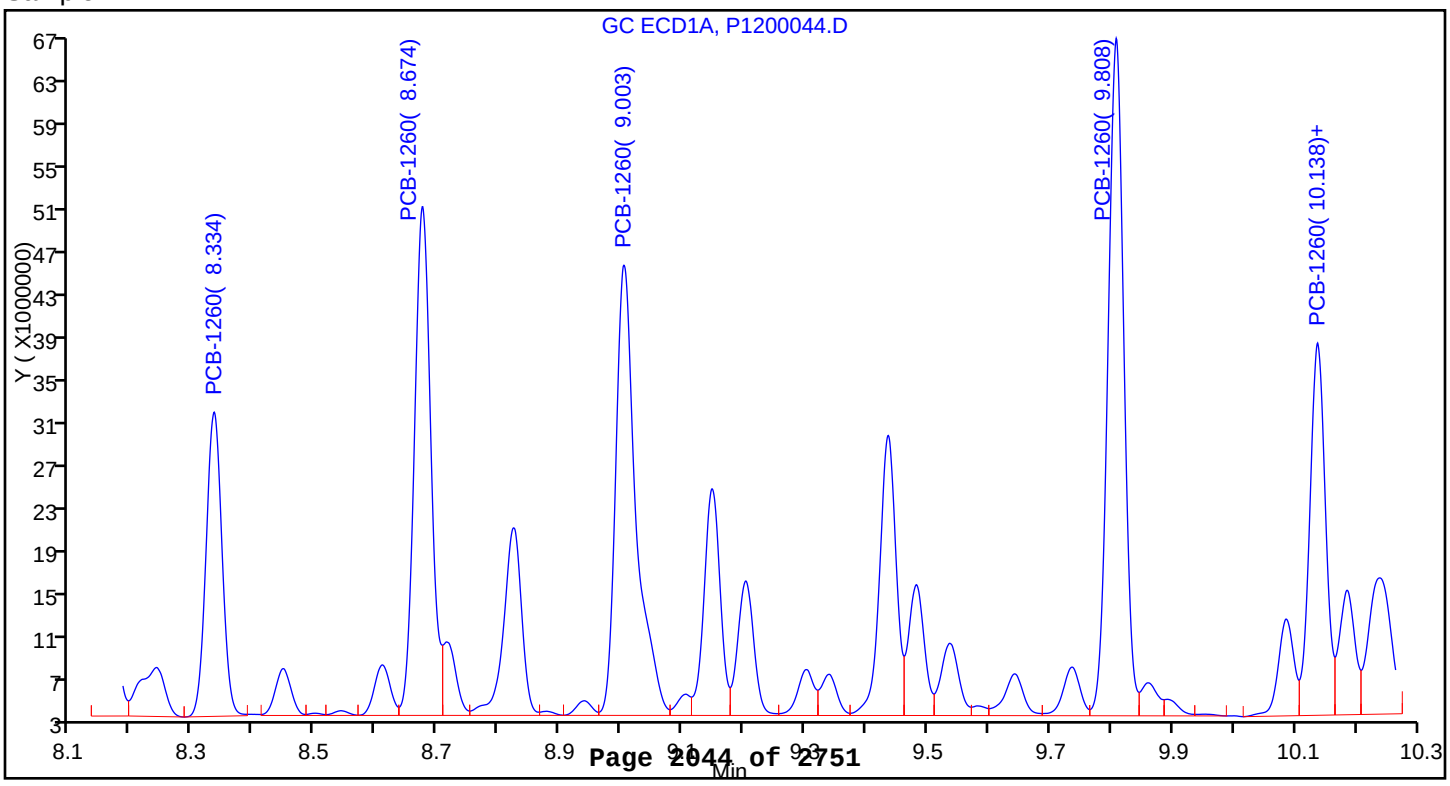
Column: Detector GC ECD1A

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MSD

Matrix: Solid Lab File ID: P1200044.D

Analysis Method: 8082 Date Collected: 04/06/2015 16:30

Extraction Method: 3540C Date Extracted: 04/20/2015 09:04

Sample wt/vol: 30.43(g) Date Analyzed: 04/23/2015 20:02

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: 2.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 177609 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
11104-28-2	Aroclor-1221	33	U	50	33	16
12674-11-2	Aroclor-1016	254		66	33	12
11141-16-5	Aroclor-1232	33	U	45	33	20
53469-21-9	Aroclor-1242	33	U	40	33	11
12672-29-6	Aroclor-1248	33	U	56	33	8.1
11097-69-1	Aroclor-1254	33	U	56	33	14
11096-82-5	Aroclor-1260	238		56	33	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		40-140
2051-24-3	DCB Decachlorobiphenyl	78		60-125

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D
Lims ID: 240-49071-A-2-U MSD
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MSD
Inject. Date: 23-Apr-2015 20:02:34 ALS Bottle#: 44 Worklist Smp#: 12
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 240-0042858-012
Operator ID: Instrument ID: A2HP12

Method: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\PCB12IS.m
Limit Group: GC 8082A and DoD IS
Last Update: 24-Apr-2015 10:24:09 Calib Date: 23-Apr-2015 02:34:22
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A2HP12\20150422-42836.b\P1200033.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ecd2b
Process Host: XAWRK011

First Level Reviewer: bosworthh Date: 24-Apr-2015 10:17:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 1 Polychlorinated biphenyls, Total							
1		1.000				ND	
* 14 1-Bromo-2-nitrobenzene							
1	3.058	3.058	0.000	94516636	0.0500	0.0500	
2	3.596	3.596	0.000	71966580	0.0500	0.0500	
$ 2 Tetrachloro-m-xylene							
1	4.319	4.318	0.001	26050170	0.0200	0.0163	
2	5.027	5.027	0.000	20118165	0.0200	0.0158	
						RPD = 3.20	
3 PCB-1221							
1		4.630				ND	
1		4.849					
1		4.906					
2		5.532					
2		5.747					
2		5.834					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
6 PCB-1016							
1	4.907	4.907	0.000	18989548	1.00	0.7518	
1	5.427	5.427	0.000	38545737	1.00	0.7643	
1	6.075	6.073	0.002	77416376	1.00	0.9095	
1	6.250	6.250	0.000	29668850	1.00	0.5780	
1	0.000	6.331	-6.331	0	1.00	0	E
		Average of Peak Amounts =				0.7509	
2	5.834	5.834	0.000	16201869	1.00	0.7270	
2	6.431	6.431	0.000	31310793	1.00	0.9292	
2	7.057	7.056	0.001	70866602	1.00	0.7633	
2	7.237	7.237	0.000	25556498	1.00	0.6873	
2	7.513	7.514	-0.001	12932235	1.00	0.6736	
		Average of Peak Amounts =				0.7561	
						RPD = 0.69	
5 PCB-1242							
1		4.908				ND	
1		5.427					
1		6.074					
1		6.250					
1		6.331					
2		5.835					
2		6.430					
2		7.055					
2		7.236					
2		7.514					
4 PCB-1232							
1		4.908				ND	
1		5.428					
1		6.074					
1		6.250					
1		6.797					
2		5.835					
2		6.430					
2		7.055					
2		7.235					
2		7.514					
7 PCB-1248							
1		5.426				ND	
1		6.797					
1		7.371					
1		7.619					
1		8.106					
2		7.052					
2		7.513					
2		8.005					
2		8.389					
2		9.187					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 PCB-1254							
1		7.288				ND	
1		7.622					
1		8.106					
1		8.447					
1		9.005					
2		8.384					
2		8.628					
2		9.187					
2		9.464					
2		10.111					
10 PCB-1260							
1	8.334	8.334	0.000	51767610	1.00	0.6829	
1	8.674	8.675	-0.001	89696311	1.00	0.7581	
1	9.003	9.004	-0.001	98095018	1.00	0.7385	
1	9.808	9.808	0.000	115229911	1.00	0.6669	
1	10.138	10.138	0.000	62749518	1.00	0.7323	
		Average of Peak Amounts =				0.7157	
2	9.425	9.426	-0.001	42613334	1.00	0.7269	
2	9.682	9.682	0.000	47443042	1.00	0.7209	
2	10.111	10.110	0.001	68433199	1.00	0.7313	
2	10.827	10.827	0.000	81927576	1.00	0.6769	
2	11.204	11.203	0.001	57059081	1.00	0.6734	
		Average of Peak Amounts =				0.7059	
						RPD = 1.39	
9 PCB-1262							
1		8.675				ND	
1		9.148					
1		9.435					
1		9.807					
1		10.185					
2		9.681					
2		10.218					
2		10.551					
2		10.826					
2		11.200					
11 PCB-1268							
1		10.185				ND	
1		10.229					
1		10.446					
1		10.835					
1		11.126					
2		11.196					
2		11.241					
2		11.491					
2		11.765					
2		12.066					
$ 12 DCB Decachlorobiphenyl							
1	11.314	11.313	0.001	24796460	0.0200	0.0146	
2	12.299	12.298	0.001	16936403	0.0200	0.0156	
						RPD = 6.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 1260 Res 1							
1	10.138	10.138	0.000	62749518			NR
2	9.682	9.682	0.000	47443042			NR
13 1260 Res 2							
1	10.186	10.185	0.001	20791055			NR
2	9.767	9.778	-0.012	320485			NR
15 1260 Res 3							
1		10.235				ND	
2		9.798					

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

Pest ISTD_00002 Amount Added: 5.00 Units: uL Run Reagent

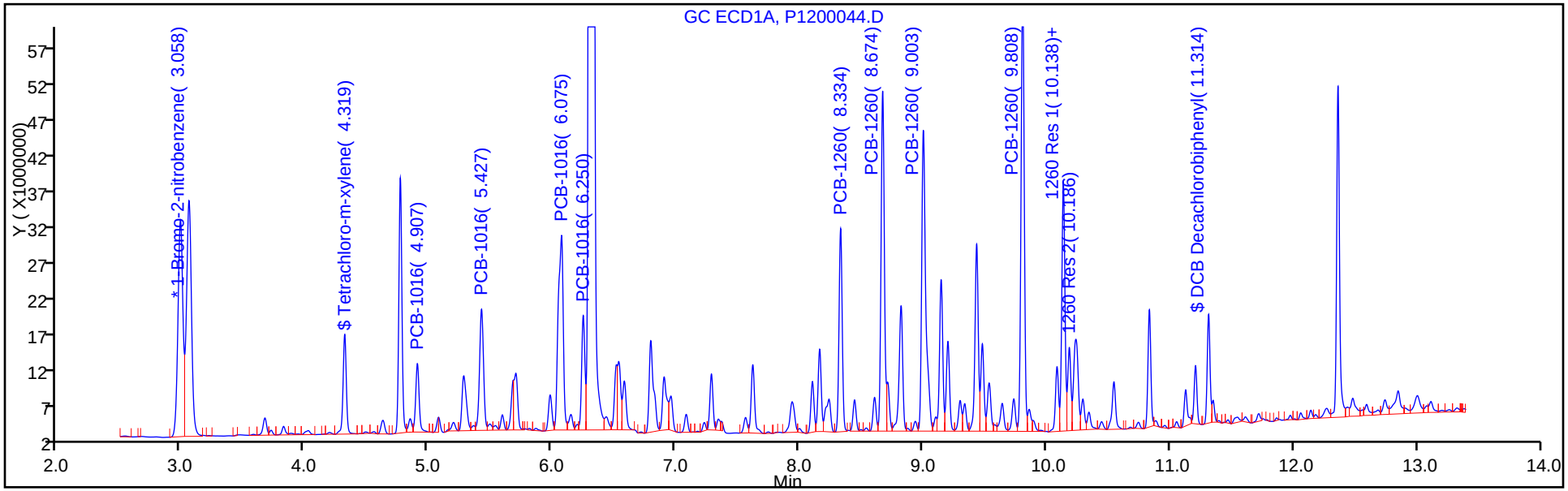
Report Date: 24-Apr-2015 10:24:16 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

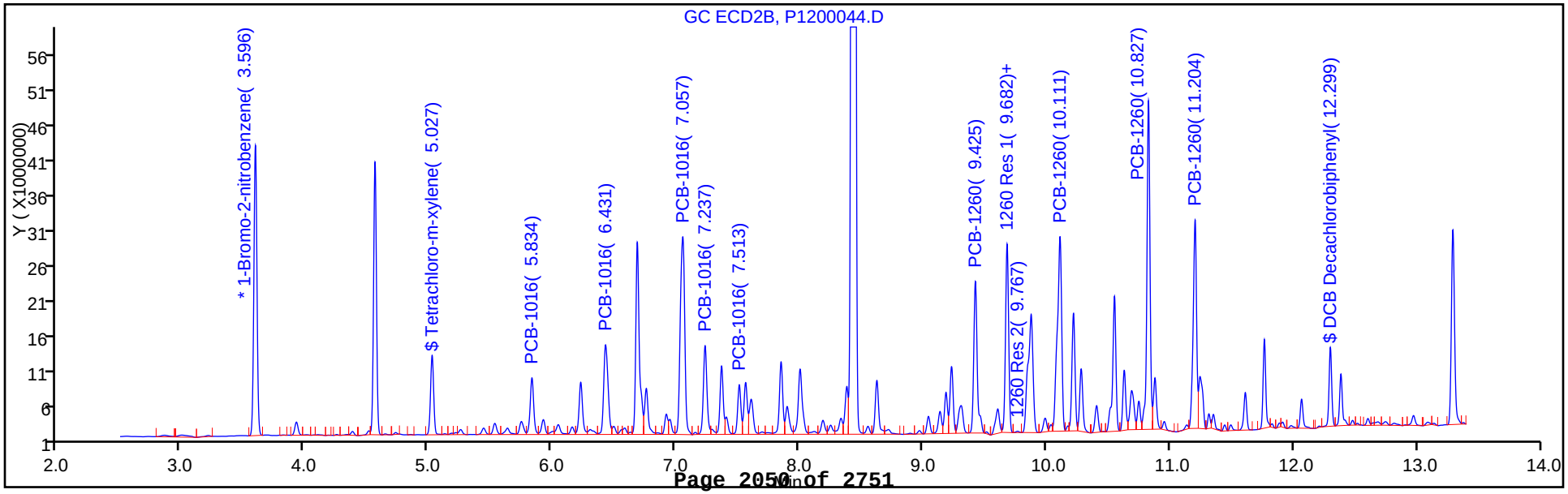
Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D

Injection Date:	23-Apr-2015 20:02:34	Instrument ID:	A2HP12	Operator ID:	
Lims ID:	240-49071-A-2-U MSD			Worklist Smp#:	12
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Apr-2015 10:24:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

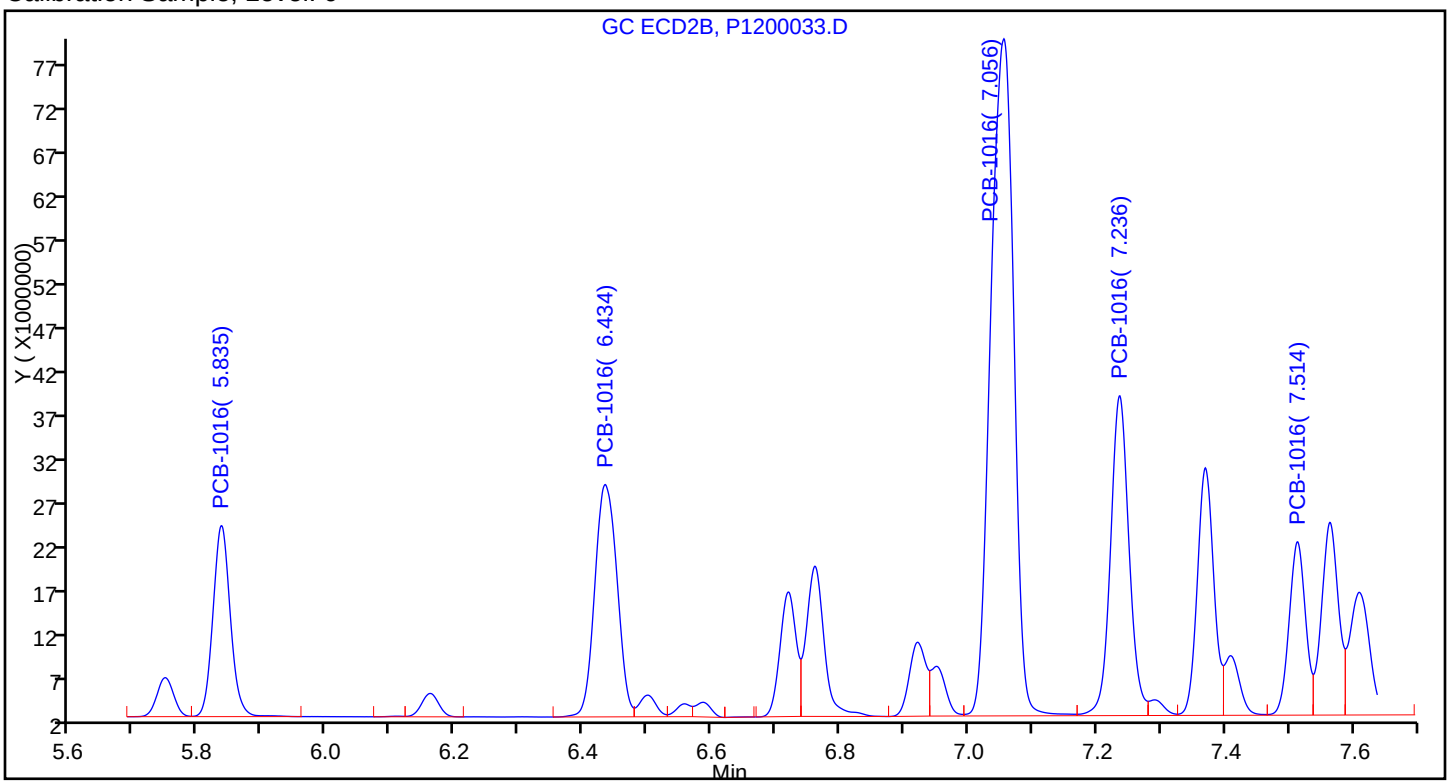
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D

Injection Date:	23-Apr-2015 20:02:34	Instrument ID:	A2HP12		
Lims ID:	240-49071-A-2-U MSD				
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:		ALS Bottle#:	44	Worklist Smp#:	12
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	PCB12IS	Limit Group:	GC 8082A and DoD IS		
Column:		Detector	GC ecd2b		

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



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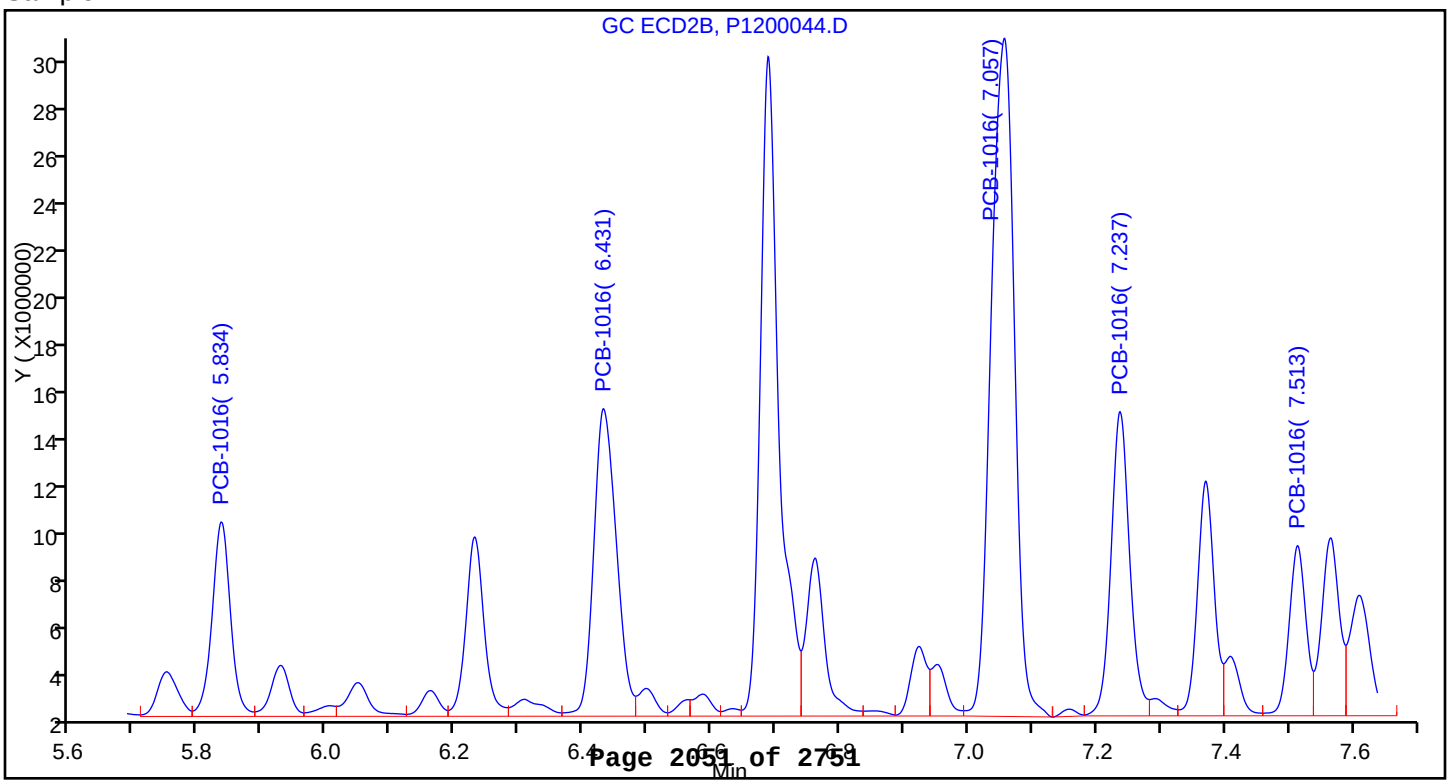


Report Date: 24-Apr-2015 10:24:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A2HP12\20150423-42858.b\P1200044.D

Injection Date: 23-Apr-2015 20:02:34 Instrument ID: A2HP12

Lims ID: 240-49071-A-2-U MSD

Client ID: 079SS-0342M-0001,0002-SO

Operator ID: ALS Bottle#: 44 Worklist Smp#: 12

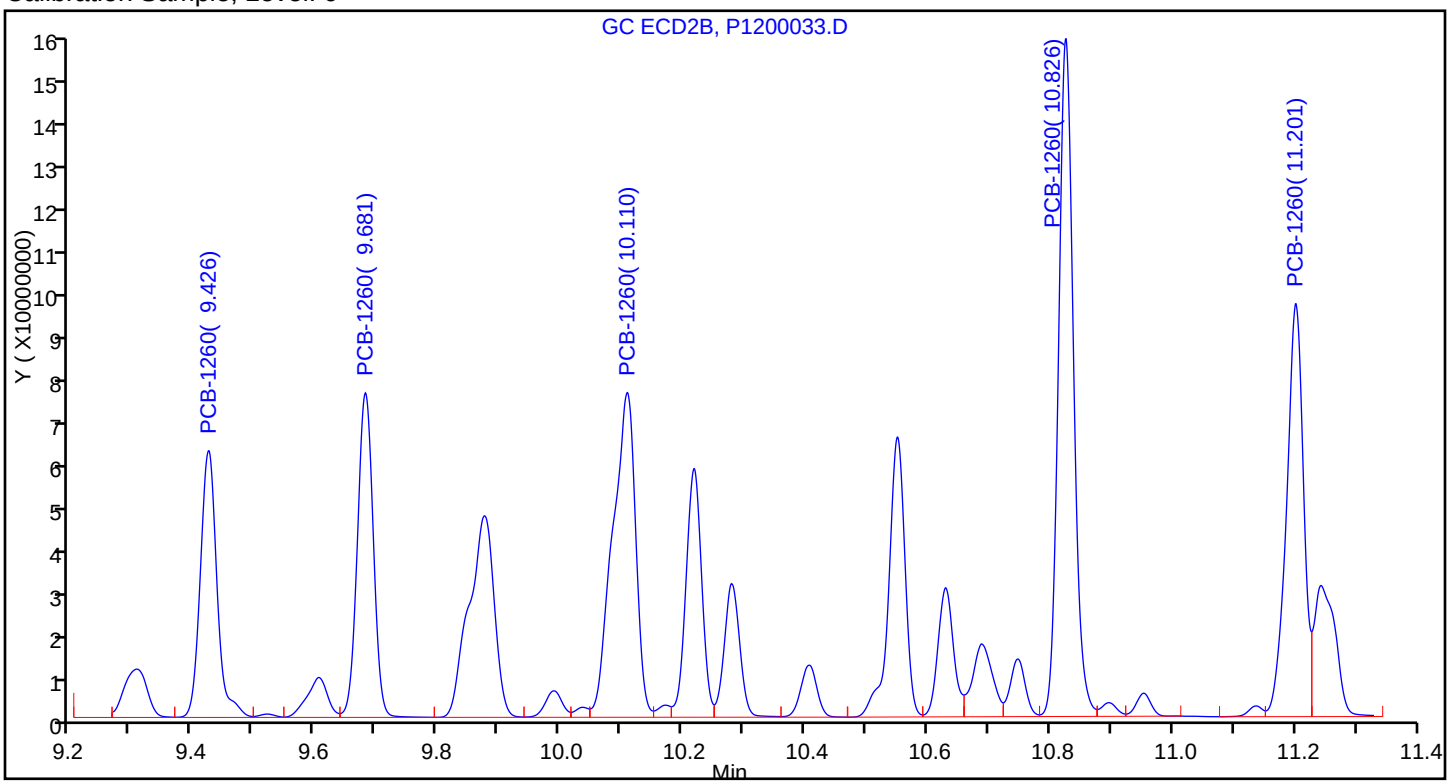
Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: PCB12IS Limit Group: GC 8082A and DoD IS

Column: Detector GC ecd2b

10 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



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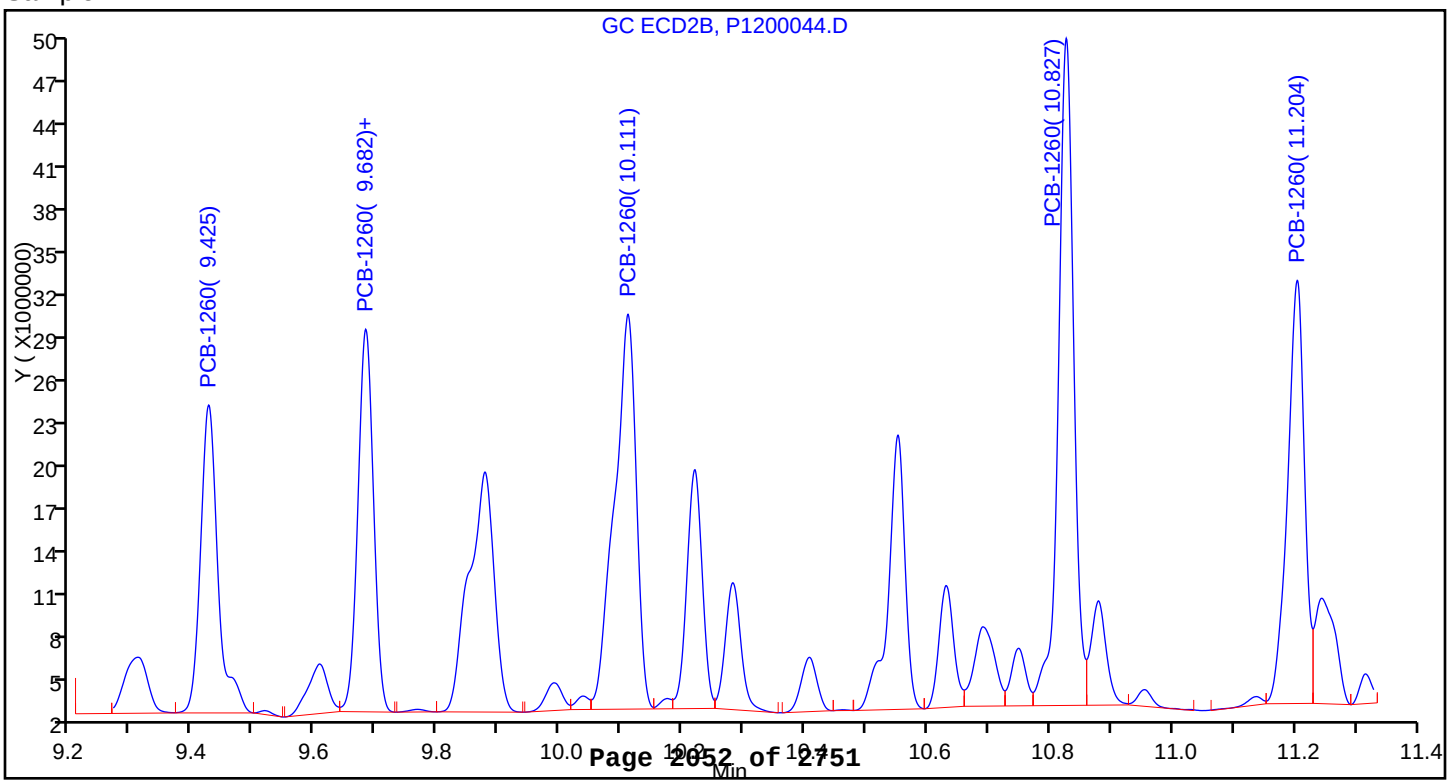


PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Start Date: 04/22/2015 17:49

Analysis Batch Number: 177497 End Date: 04/23/2015 04:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 240-177497/4 IC		04/22/2015 17:49	1	P1200004.D	CLP-1 0.53(mm)
STD005 240-177497/4 IC		04/22/2015 17:49	1	P1200004.D	CLP-2 0.53(mm)
STD01 240-177497/5 IC		04/22/2015 18:07	1	P1200005.D	CLP-1 0.53(mm)
STD01 240-177497/5 IC		04/22/2015 18:07	1	P1200005.D	CLP-2 0.53(mm)
STD02 240-177497/6 IC		04/22/2015 18:25	1	P1200006.D	CLP-1 0.53(mm)
STD02 240-177497/6 IC		04/22/2015 18:25	1	P1200006.D	CLP-2 0.53(mm)
STD05 240-177497/7 IC		04/22/2015 18:43	1	P1200007.D	CLP-1 0.53(mm)
STD05 240-177497/7 IC		04/22/2015 18:43	1	P1200007.D	CLP-2 0.53(mm)
STD1 240-177497/8 IC		04/22/2015 19:02	1	P1200008.D	CLP-1 0.53(mm)
STD1 240-177497/8 IC		04/22/2015 19:02	1	P1200008.D	CLP-2 0.53(mm)
STD2 240-177497/9 IC		04/22/2015 19:20	1	P1200009.D	CLP-1 0.53(mm)
STD2 240-177497/9 IC		04/22/2015 19:20	1	P1200009.D	CLP-2 0.53(mm)
STD005 240-177497/10 IC		04/22/2015 19:38	1	P1200010.D	CLP-1 0.53(mm)
STD005 240-177497/10 IC		04/22/2015 19:38	1	P1200010.D	CLP-2 0.53(mm)
STD01 240-177497/11 IC		04/22/2015 19:56	1	P1200011.D	CLP-1 0.53(mm)
STD01 240-177497/11 IC		04/22/2015 19:56	1	P1200011.D	CLP-2 0.53(mm)
STD02 240-177497/12 IC		04/22/2015 20:14	1	P1200012.D	CLP-1 0.53(mm)
STD02 240-177497/12 IC		04/22/2015 20:14	1	P1200012.D	CLP-2 0.53(mm)
STD05 240-177497/13 IC		04/22/2015 20:32	1	P1200013.D	CLP-1 0.53(mm)
STD05 240-177497/13 IC		04/22/2015 20:32	1	P1200013.D	CLP-2 0.53(mm)
STD1 240-177497/14 IC		04/22/2015 20:50	1	P1200014.D	CLP-1 0.53(mm)
STD1 240-177497/14 IC		04/22/2015 20:50	1	P1200014.D	CLP-2 0.53(mm)
STD2 240-177497/15 IC		04/22/2015 21:08	1	P1200015.D	CLP-1 0.53(mm)
STD2 240-177497/15 IC		04/22/2015 21:08	1	P1200015.D	CLP-2 0.53(mm)
STD005 240-177497/16 IC		04/22/2015 21:26	1	P1200016.D	CLP-1 0.53(mm)
STD005 240-177497/16 IC		04/22/2015 21:26	1	P1200016.D	CLP-2 0.53(mm)
STD01 240-177497/17 IC		04/22/2015 21:45	1	P1200017.D	CLP-1 0.53(mm)
STD01 240-177497/17 IC		04/22/2015 21:45	1	P1200017.D	CLP-2 0.53(mm)
STD02 240-177497/18 IC		04/22/2015 22:03	1	P1200018.D	CLP-1 0.53(mm)
STD02 240-177497/18 IC		04/22/2015 22:03	1	P1200018.D	CLP-2 0.53(mm)
STD05 240-177497/19 IC		04/22/2015 22:21	1	P1200019.D	CLP-1 0.53(mm)
STD05 240-177497/19 IC		04/22/2015 22:21	1	P1200019.D	CLP-2 0.53(mm)
STD1 240-177497/20 IC		04/22/2015 22:39	1	P1200020.D	CLP-1 0.53(mm)

8082

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Start Date: 04/22/2015 17:49

Analysis Batch Number: 177497 End Date: 04/23/2015 04:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-177497/20 IC		04/22/2015 22:39	1	P1200020.D	CLP-2 0.53(mm)
STD2 240-177497/21 IC		04/22/2015 22:57	1	P1200021.D	CLP-1 0.53(mm)
STD2 240-177497/21 IC		04/22/2015 22:57	1	P1200021.D	CLP-2 0.53(mm)
STD005 240-177497/22 IC		04/22/2015 23:15	1	P1200022.D	CLP-1 0.53(mm)
STD005 240-177497/22 IC		04/22/2015 23:15	1	P1200022.D	CLP-2 0.53(mm)
STD01 240-177497/23 IC		04/22/2015 23:33	1	P1200023.D	CLP-1 0.53(mm)
STD01 240-177497/23 IC		04/22/2015 23:33	1	P1200023.D	CLP-2 0.53(mm)
STD02 240-177497/24 IC		04/22/2015 23:51	1	P1200024.D	CLP-1 0.53(mm)
STD02 240-177497/24 IC		04/22/2015 23:51	1	P1200024.D	CLP-2 0.53(mm)
STD05 240-177497/25 IC		04/23/2015 00:09	1	P1200025.D	CLP-1 0.53(mm)
STD05 240-177497/25 IC		04/23/2015 00:09	1	P1200025.D	CLP-2 0.53(mm)
STD1 240-177497/26 IC		04/23/2015 00:27	1	P1200026.D	CLP-1 0.53(mm)
STD1 240-177497/26 IC		04/23/2015 00:27	1	P1200026.D	CLP-2 0.53(mm)
STD2 240-177497/27 IC		04/23/2015 00:45	1	P1200027.D	CLP-1 0.53(mm)
STD2 240-177497/27 IC		04/23/2015 00:45	1	P1200027.D	CLP-2 0.53(mm)
STD005 240-177497/28 IC		04/23/2015 01:03	1	P1200028.D	CLP-1 0.53(mm)
STD005 240-177497/28 IC		04/23/2015 01:03	1	P1200028.D	CLP-2 0.53(mm)
STD01 240-177497/29 IC		04/23/2015 01:22	1	P1200029.D	CLP-1 0.53(mm)
STD01 240-177497/29 IC		04/23/2015 01:22	1	P1200029.D	CLP-2 0.53(mm)
STD02 240-177497/30 IC		04/23/2015 01:40	1	P1200030.D	CLP-1 0.53(mm)
STD02 240-177497/30 IC		04/23/2015 01:40	1	P1200030.D	CLP-2 0.53(mm)
STD05 240-177497/31 ICIS		04/23/2015 01:58	1	P1200031.D	CLP-1 0.53(mm)
STD05 240-177497/31 ICIS		04/23/2015 01:58	1	P1200031.D	CLP-2 0.53(mm)
STD1 240-177497/32 IC		04/23/2015 02:16	1	P1200032.D	CLP-1 0.53(mm)
STD1 240-177497/32 IC		04/23/2015 02:16	1	P1200032.D	CLP-2 0.53(mm)
STD2 240-177497/33 IC		04/23/2015 02:34	1	P1200033.D	CLP-1 0.53(mm)
STD2 240-177497/33 IC		04/23/2015 02:34	1	P1200033.D	CLP-2 0.53(mm)
ICV 240-177497/34		04/23/2015 02:52	1	P1200034.D	CLP-1 0.53(mm)
ICV 240-177497/34		04/23/2015 02:52	1	P1200034.D	CLP-2 0.53(mm)
ICV 240-177497/35		04/23/2015 03:10	1	P1200035.D	CLP-1 0.53(mm)
ICV 240-177497/35		04/23/2015 03:10	1	P1200035.D	CLP-2 0.53(mm)
ICV 240-177497/36		04/23/2015 03:28	1	P1200036.D	CLP-1 0.53(mm)
ICV 240-177497/36		04/23/2015 03:28	1	P1200036.D	CLP-2 0.53(mm)

8082

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Start Date: 04/22/2015 17:49

Analysis Batch Number: 177497 End Date: 04/23/2015 04:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 240-177497/37		04/23/2015 03:46	1	P1200037.D	CLP-1 0.53(mm)
ICV 240-177497/37		04/23/2015 03:46	1	P1200037.D	CLP-2 0.53(mm)
ICV 240-177497/38		04/23/2015 04:04	1	P1200038.D	CLP-1 0.53(mm)
ICV 240-177497/38		04/23/2015 04:04	1	P1200038.D	CLP-2 0.53(mm)
ICV 240-177497/39		04/23/2015 04:22	1	P1200039.D	CLP-1 0.53(mm)
ICV 240-177497/39		04/23/2015 04:22	1	P1200039.D	CLP-2 0.53(mm)
ICV 240-177497/40		04/23/2015 04:40	1	P1200040.D	CLP-1 0.53(mm)
ICV 240-177497/40		04/23/2015 04:40	1	P1200040.D	CLP-2 0.53(mm)
ICV 240-177497/41		04/23/2015 04:59	1	P1200041.D	CLP-1 0.53(mm)
ICV 240-177497/41		04/23/2015 04:59	1	P1200041.D	CLP-2 0.53(mm)

8082

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Start Date: 04/23/2015 17:19

Analysis Batch Number: 177609 End Date: 04/23/2015 21:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-177609/3 CCVIS		04/23/2015 17:19	1	P1200035.D	CLP-1 0.53(mm)
CCV 240-177609/3 CCVIS		04/23/2015 17:19	1	P1200035.D	CLP-2 0.53(mm)
RTC 240-177609/4 CCV		04/23/2015 17:37	1	P1200036.D	CLP-1 0.53(mm)
RTC 240-177609/4 CCV		04/23/2015 17:37	1	P1200036.D	CLP-2 0.53(mm)
RTC 240-177609/5 CCV		04/23/2015 17:55	1	P1200037.D	CLP-1 0.53(mm)
RTC 240-177609/5 CCV		04/23/2015 17:55	1	P1200037.D	CLP-2 0.53(mm)
RTC 240-177609/6 CCV		04/23/2015 18:13	1	P1200038.D	CLP-1 0.53(mm)
RTC 240-177609/6 CCV		04/23/2015 18:13	1	P1200038.D	CLP-2 0.53(mm)
RTC 240-177609/7 CCV		04/23/2015 18:31	1	P1200039.D	CLP-1 0.53(mm)
RTC 240-177609/7 CCV		04/23/2015 18:31	1	P1200039.D	CLP-2 0.53(mm)
MRL 240-177609/9		04/23/2015 19:08	1	P1200041.D	CLP-1 0.53(mm)
MRL 240-177609/9		04/23/2015 19:08	1	P1200041.D	CLP-2 0.53(mm)
240-49071-2	079SS-0342M-0001,0002 -SO	04/23/2015 19:26	1	P1200042.D	CLP-1 0.53(mm)
240-49071-2	079SS-0342M-0001,0002 -SO	04/23/2015 19:26	1	P1200042.D	CLP-2 0.53(mm)
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/23/2015 19:44	1	P1200043.D	CLP-1 0.53(mm)
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/23/2015 19:44	1	P1200043.D	CLP-2 0.53(mm)
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/23/2015 20:02	1	P1200044.D	CLP-1 0.53(mm)
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/23/2015 20:02	1	P1200044.D	CLP-2 0.53(mm)
MB 240-177040/4-A		04/23/2015 20:20	1	P1200045.D	CLP-1 0.53(mm)
MB 240-177040/4-A		04/23/2015 20:20	1	P1200045.D	CLP-2 0.53(mm)
MRL 240-177609/15		04/23/2015 20:56	1	P1200047.D	CLP-1 0.53(mm)
MRL 240-177609/15		04/23/2015 20:56	1	P1200047.D	CLP-2 0.53(mm)
CCV 240-177609/16		04/23/2015 21:14	1	P1200048.D	CLP-1 0.53(mm)
CCV 240-177609/16		04/23/2015 21:14	1	P1200048.D	CLP-2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Start Date: 04/24/2015 17:01

Analysis Batch Number: 177830 End Date: 04/25/2015 02:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-177830/3 CCVIS		04/24/2015 17:01	1	P1200032.D	CLP-1 0.53(mm)
CCV 240-177830/3 CCVIS		04/24/2015 17:01	1	P1200032.D	CLP-2 0.53(mm)
RTC 240-177830/4 CCV		04/24/2015 17:19	1	P1200033.D	CLP-1 0.53(mm)
RTC 240-177830/4 CCV		04/24/2015 17:19	1	P1200033.D	CLP-2 0.53(mm)
RTC 240-177830/5 CCV		04/24/2015 17:37	1	P1200034.D	CLP-1 0.53(mm)
RTC 240-177830/5 CCV		04/24/2015 17:37	1	P1200034.D	CLP-2 0.53(mm)
RTC 240-177830/6 CCV		04/24/2015 17:55	1	P1200035.D	CLP-1 0.53(mm)
RTC 240-177830/6 CCV		04/24/2015 17:55	1	P1200035.D	CLP-2 0.53(mm)
RTC 240-177830/7 CCV		04/24/2015 18:13	1	P1200036.D	CLP-1 0.53(mm)
RTC 240-177830/7 CCV		04/24/2015 18:13	1	P1200036.D	CLP-2 0.53(mm)
ZZZZZ		04/24/2015 18:50	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 18:50	1		CLP-2 0.53(mm)
LCS 240-177040/5-A		04/24/2015 19:08	1	P1200039.D	CLP-1 0.53(mm)
LCS 240-177040/5-A		04/24/2015 19:08	1	P1200039.D	CLP-2 0.53(mm)
CCV 240-177830/11		04/24/2015 19:26	1	P1200040.D	CLP-1 0.53(mm)
CCV 240-177830/11		04/24/2015 19:26	1	P1200040.D	CLP-2 0.53(mm)
ZZZZZ		04/24/2015 19:44	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 19:44	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 20:02	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 20:02	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 20:20	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 20:20	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 20:38	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 20:38	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 20:57	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 20:57	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 21:15	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 21:15	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 21:33	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 21:33	1		CLP-2 0.53(mm)
MRL 240-177830/19		04/24/2015 21:51	1	P1200048.D	CLP-1 0.53(mm)
MRL 240-177830/19		04/24/2015 21:51	1	P1200048.D	CLP-2 0.53(mm)
CCV 240-177830/20		04/24/2015 22:09	1		CLP-1 0.53(mm)
CCV 240-177830/20		04/24/2015 22:09	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 23:39	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 23:39	1		CLP-2 0.53(mm)
ZZZZZ		04/24/2015 23:58	1		CLP-1 0.53(mm)
ZZZZZ		04/24/2015 23:58	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 00:16	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 00:16	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 00:34	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 00:34	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 00:52	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 00:52	1		CLP-2 0.53(mm)

8082

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: A2HP12 Start Date: 04/24/2015 17:01

Analysis Batch Number: 177830 End Date: 04/25/2015 02:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/25/2015 01:10	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 01:10	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 01:28	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 01:28	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 01:46	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 01:46	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 02:04	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 02:04	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 02:22	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 02:22	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 02:40	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 02:40	1		CLP-2 0.53(mm)
ZZZZZ		04/25/2015 02:59	1		CLP-1 0.53(mm)
ZZZZZ		04/25/2015 02:59	1		CLP-2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176059 Batch Start Date: 04/08/15 16:00 Batch Analyst: Jones, Diane

Batch Method: Increment, Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-49071-A-2	079SS-0342M-0001 ,0002-SO	Increment, Prep, 3540C, 8082	T	Disagg 4/11					

Batch Notes	
First End time	Ground/Sieved 4/9 and 4/11, split 4/13
First Start time	4/8/15

Basis	Basis Description
T	Total/NA

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

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 177040 Batch Start Date: 04/20/15 11:15 Batch Analyst: Coast, Chris

Batch Method: 3540C Batch End Date: 04/21/15 03:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX10PPMSPK 00016	EX2/.2SURRW 00053	AnalysisComment	
240-49071-A-2-A	079SS-0342M-0001 ,0002-SO	3540C, 8082	T	29.51 g	10 mL		1 mL	associate w/ 177037	
240-49071-A-2-A MS	079SS-0342M-0001 ,0002-SO	3540C, 8082	T	29.62 g	10 mL	1 mL	1 mL		
240-49071-A-2-A MSD	079SS-0342M-0001 ,0002-SO	3540C, 8082	T	30.43 g	10 mL	1 mL	1 mL		
MB 240-177040/4		3540C, 8082		30 g	10 mL		1 mL	associate w/ 177037	
LCS 240-177040/5		3540C, 8082		30 g	10 mL	1 mL	1 mL		

Batch Notes	
Acid used for Clean Up Reagent	1826635
Balance ID	1339907
Na2SO4 Lot Number	1942695
Prep Solvent Lot #	1928227

Basis	Basis Description
T	Total/NA

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

Method 8330 Nitroguanidine

Nitroguanidine (HPLC) by Method 8330

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 320-0021236-006-1.d

Lab ID: LCS 320-71482/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Nitroguanidine	1.00	0.815	82	72-121	M

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 320-0021236-008-1.d

Lab ID: 240-49071-2 MS Client ID: 079SS-0342M-0001,0002-SO MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
Nitroguanidine	1.00	0.039 U	0.826	83	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: 320-0021236-009-1.d

Lab ID: 240-49071-2 MSD Client ID: 079SS-0342M-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Nitroguanidine	1.00	0.809	81	2	20	72-121	

Column to be used to flag recovery and RPD values

FORM III 8330 Modified

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab File ID: 320-0021236-005-1.d Lab Sample ID: MB 320-71482/1-A

Matrix: Solid Date Extracted: 04/18/2015 14:00

Instrument ID: PDA1 Date Analyzed: 04/22/2015 15:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-71482/2-A	320-0021236-006-1.d	04/22/2015 15:57
079SS-0342M-0001,0002-SO	240-49071-2	320-0021236-007-1.d	04/22/2015 16:15
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	320-0021236-008-1.d	04/22/2015 16:33
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	320-0021236-009-1.d	04/22/2015 16:51

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2

Matrix: Solid Lab File ID: 320-0021236-007-1.d

Analysis Method: 8330 Modified Date Collected: 04/06/2015 16:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/18/2015 14:00

Sample wt/vol: 2.03(g) Date Analyzed: 04/22/2015 16:15

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 71845 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.039	U	0.25	0.039	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-007-1.d				
Lims ID:	240-49071-E-2-D	Lab Sample ID:	320-49071-2		
Client ID:	079SS-0342M-0001,0002-SO				
Sample Type:	Client				
Inject. Date:	22-Apr-2015 16:15:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-007 Analysis				
Misc. Info.:	none STD				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 16:26:13	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				
First Level Reviewer: huangyun		Date:	22-Apr-2015 16:41:42		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

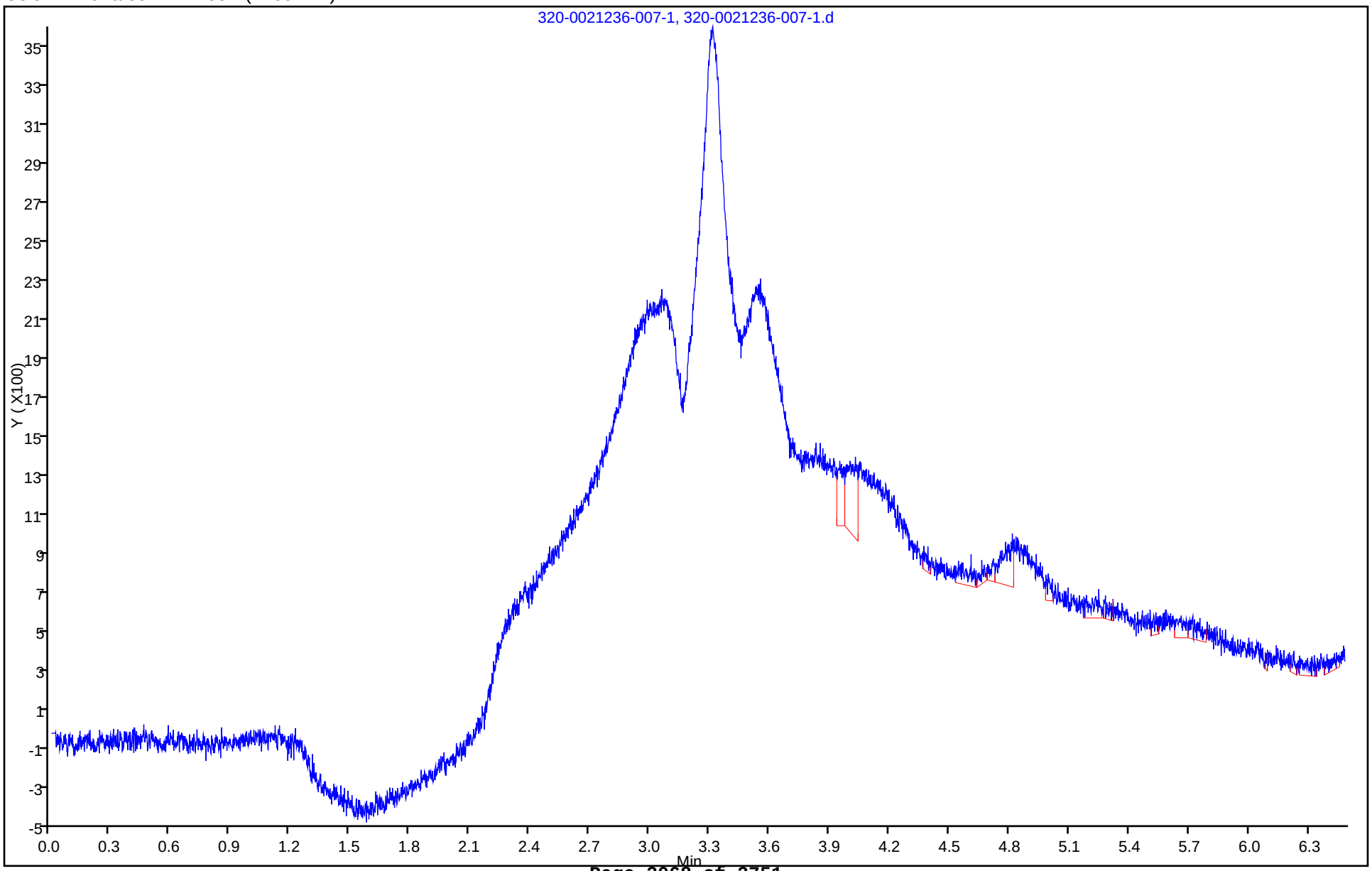
Report Date: 22-Apr-2015 16:41:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-007-1.d

Injection Date:	22-Apr-2015 16:15:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	240-49071-E-2-D	Lab Sample ID:	320-49071-2	Worklist Smp#:	7
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 70867

SDG No.: CC 79 Area 8

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2015 17:35 Calibration End Date: 04/10/2015 19:22 Calibration ID: 12871

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-70867/43	STD02-1.d
Level 2	STD03 320-70867/5	320-0020944-005-1.d
Level 3	STD04 320-70867/6	320-0020944-006-1.d
Level 4	STD05 320-70867/7	320-0020944-007-1.d
Level 5	STD06 320-70867/8	320-0020944-008-1.d
Level 6	STD07 320-70867/9	320-0020944-009-1.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Nitroguanidine	4.237	4.250	4.237	4.213	4.233	4.240					3.963 - 4.463	4.235

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 70867

SDG No.: CC 79 Area 8

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2015 17:35 Calibration End Date: 04/10/2015 19:22 Calibration ID: 12871

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-70867/43	STD02-1.d
Level 2	STD03 320-70867/5	320-0020944-005-1.d
Level 3	STD04 320-70867/6	320-0020944-006-1.d
Level 4	STD05 320-70867/7	320-0020944-007-1.d
Level 5	STD06 320-70867/8	320-0020944-008-1.d
Level 6	STD07 320-70867/9	320-0020944-009-1.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Nitroguanidine	27.200 23.976	25.640 22.980	25.800	24.460	Ave		25.0093333				6.0		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 70867

SDG No.: CC 79 Area 8

Instrument ID: PDA1 GC Column: Luna NH2 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2015 17:35 Calibration End Date: 04/10/2015 19:22 Calibration ID: 12871

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD02 320-70867/43	STD02-1.d
Level 2	STD03 320-70867/5	320-0020944-005-1.d
Level 3	STD04 320-70867/6	320-0020944-006-1.d
Level 4	STD05 320-70867/7	320-0020944-007-1.d
Level 5	STD06 320-70867/8	320-0020944-008-1.d
Level 6	STD07 320-70867/9	320-0020944-009-1.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Nitroguanidine	Ave	544 22980	1282	2580	4892	11988	20.0 1000	50.0	100	200	500

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-005-1.d			
Lims ID:	std03			
Client ID:				
Sample Type:	IC	Calib Level:	3	
Inject. Date:	10-Apr-2015 17:35:00	ALS Bottle#:	0	Worklist Smp#: 5
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	
Sample Info:	320-0020944-005 Analysis			
Misc. Info.:	none STD			
Operator ID:	YPH	Instrument ID:	PDA1	
Sublist:	chrom-NGu Primary*sub1			
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m			
Limit Group:	LC 8330 Ngu ICAL			
Last Update:	13-Apr-2015 10:47:34	Calib Date:	10-Apr-2015 19:22:00	
Integrator:	Falcon			
Quant Method:	External Standard	Quant By:	Initial Calibration	
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d			
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS	
Process Host:	XAWRK053			

First Level Reviewer: huangyun Date: 13-Apr-2015 10:19:02

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.250	4.213	0.037	1282H	50.0	51.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HPNQL3_00007 Amount Added: 1.00 Units: mL

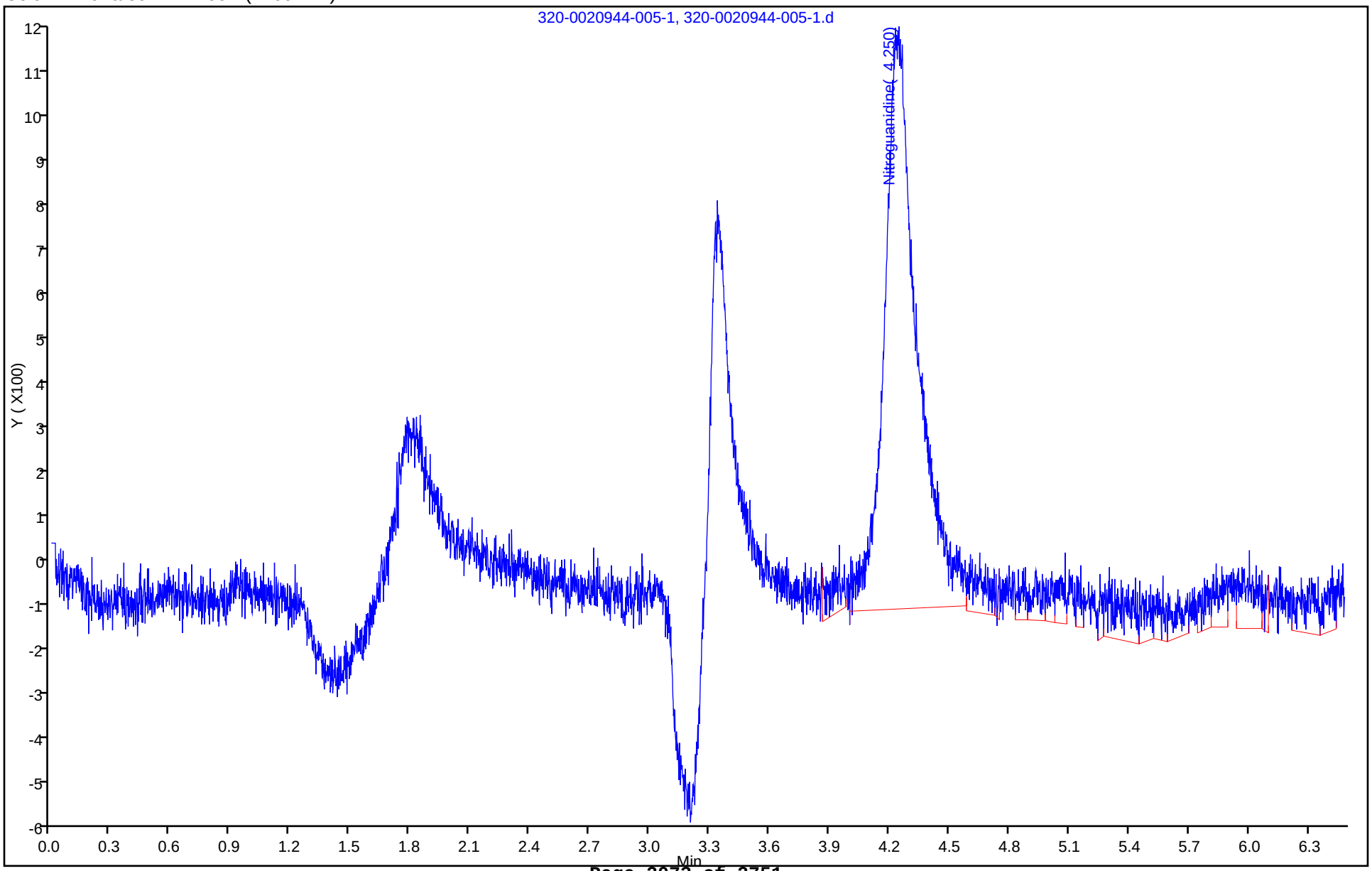
Report Date: 13-Apr-2015 10:47:34 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-005-1.d

Injection Date:	10-Apr-2015 17:35:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std03			Worklist Smp#:	5
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

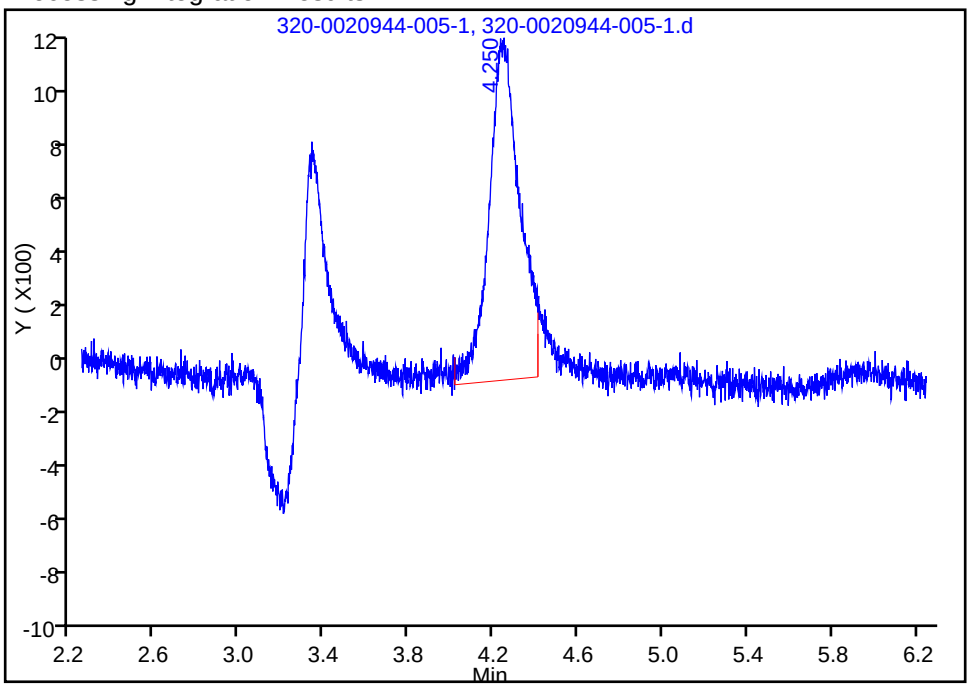
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-005-1.d
Injection Date: 10-Apr-2015 17:35:00 Instrument ID: PDA1
Lims ID: std03
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

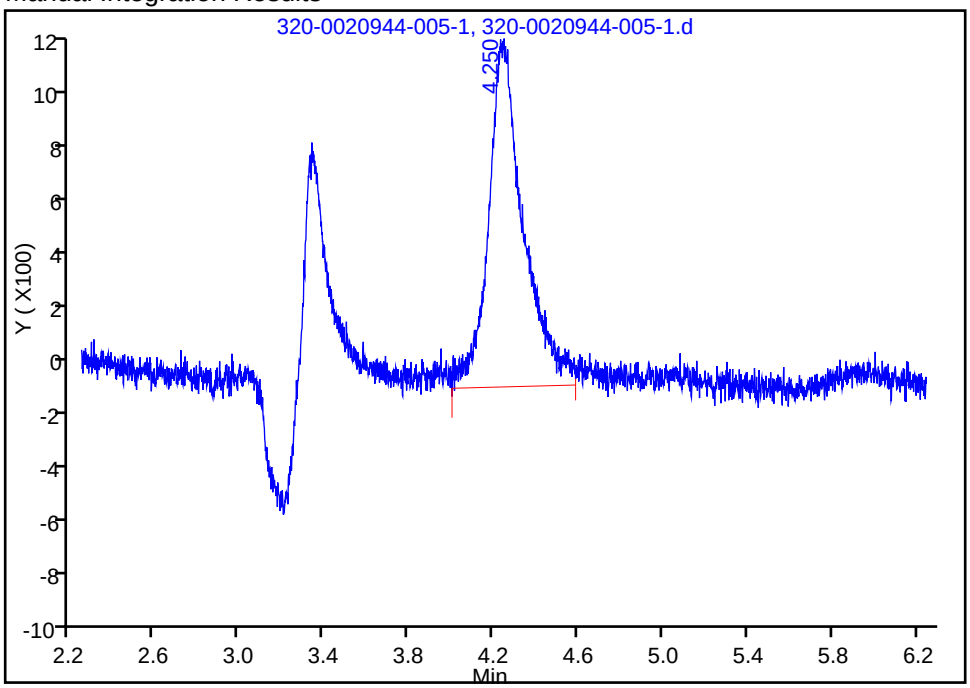
Processing Integration Results

RT: 4.25
Height: 1260
Amount: 50.529355
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Height: 1282
Amount: 51.260863
Amount Units: ng/ml



Reviewer: huangyun, 13-Apr-2015 10:21:20
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-006-1.d				
Lims ID:	std04				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	10-Apr-2015 17:53:00	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0020944-006 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	13-Apr-2015 10:47:34	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK053				

First Level Reviewer: huangyun Date: 13-Apr-2015 10:31:30

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.237	4.213	0.024	2580H	100.0	103.2	

Reagents:

HPNQL4_00009 Amount Added: 1.00 Units: mL

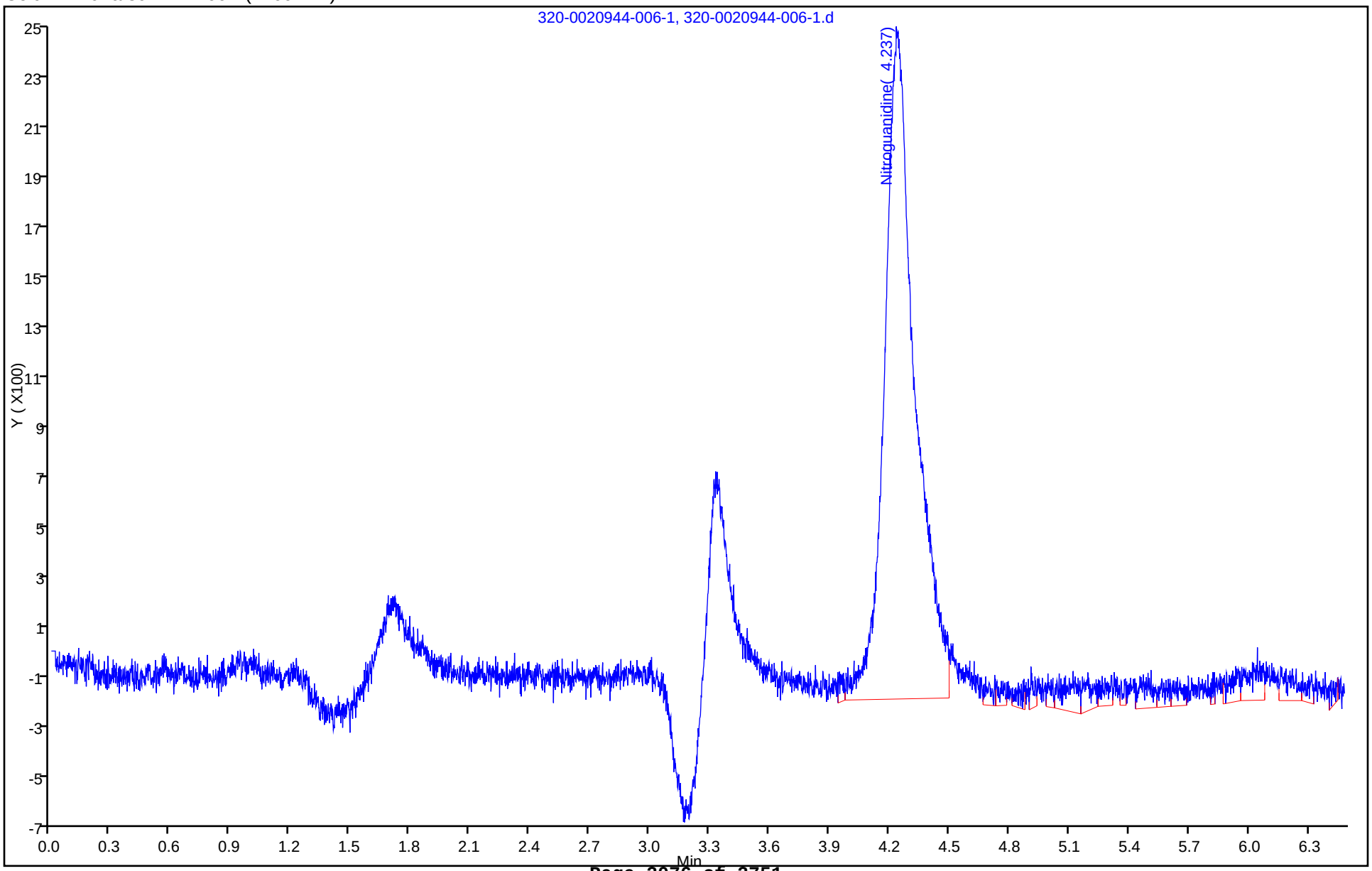
Report Date: 13-Apr-2015 10:47:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-006-1.d

Injection Date:	10-Apr-2015 17:53:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std04			Worklist Smp#:	6
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-007-1.d
Lims ID: std05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Apr-2015 18:11:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-007 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 10:47:35 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK053

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.213	4.213	0.000	4892H	200.0	195.6	

Reagents:

HPNQL5_00008 Amount Added: 1.00 Units: mL

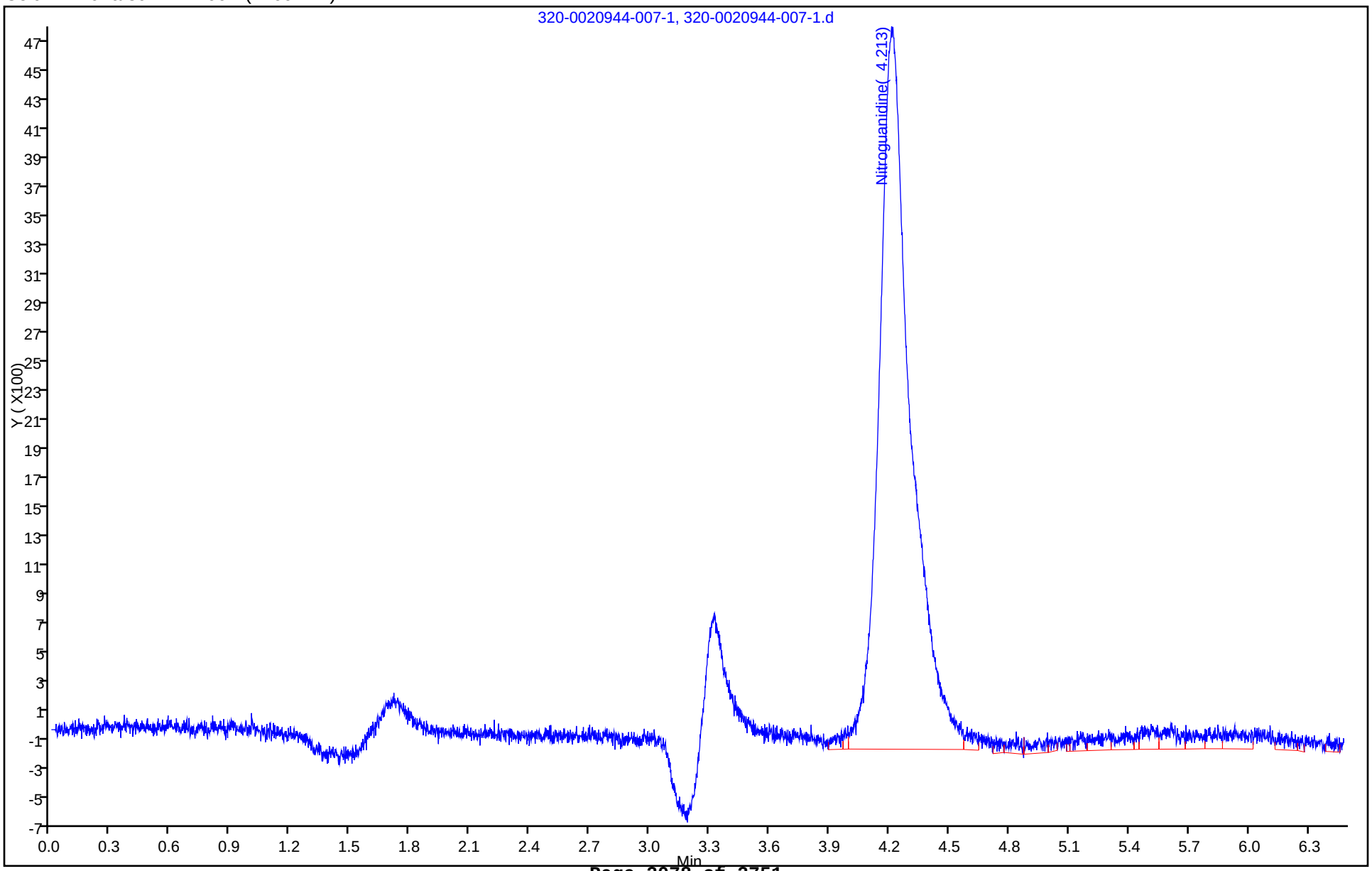
Report Date: 13-Apr-2015 10:47:35 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-007-1.d

Injection Date:	10-Apr-2015 18:11:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std05			Worklist Smp#:	7
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-008-1.d				
Lims ID:	std06				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	10-Apr-2015 18:29:00	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0020944-008 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	13-Apr-2015 10:47:36	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK053				

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.233	4.213	0.020	11988H	500.0	479.3	

Reagents:

HPNQL6_00007 Amount Added: 1.00 Units: mL

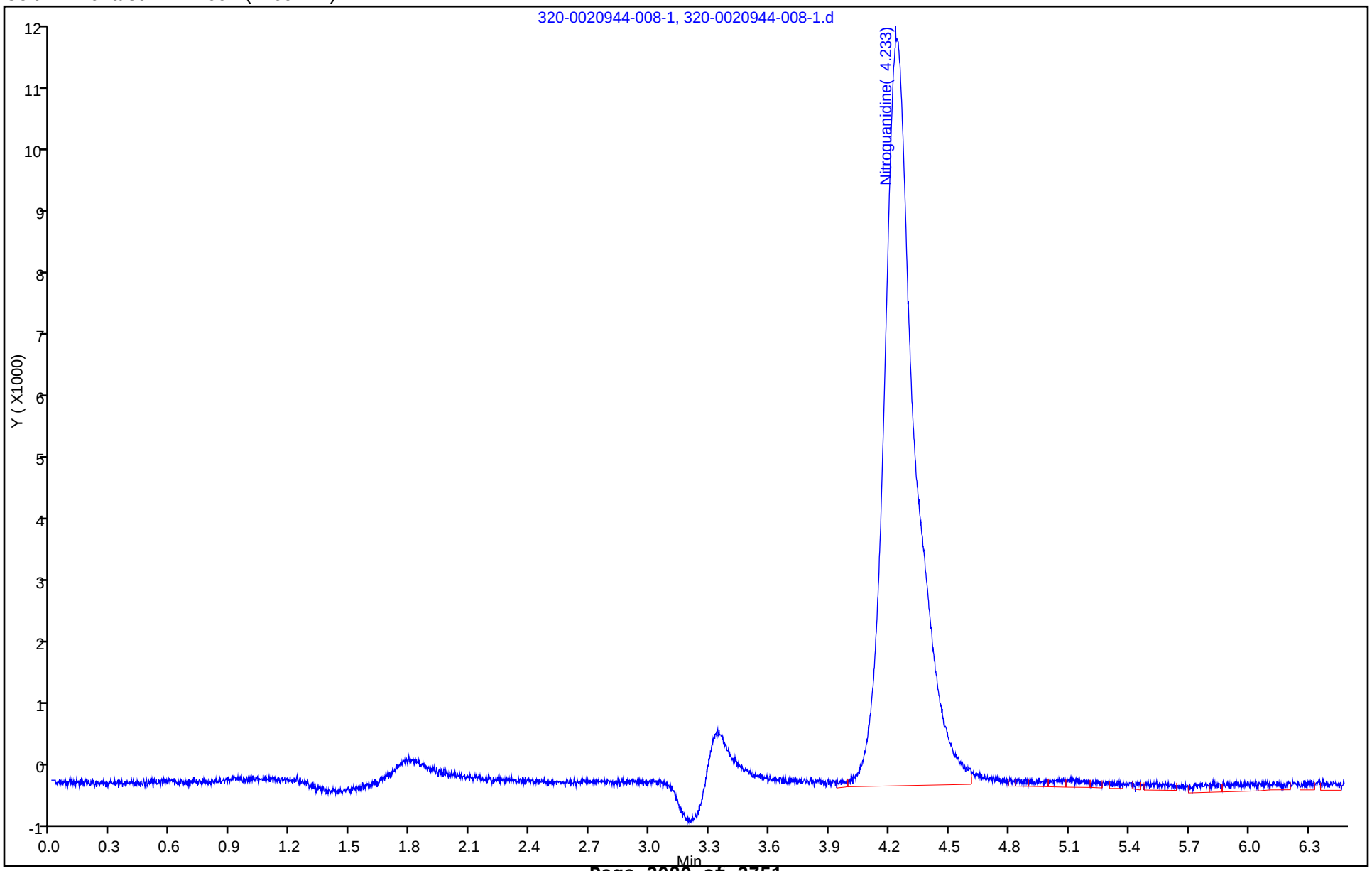
Report Date: 13-Apr-2015 10:47:36 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-008-1.d

Injection Date:	10-Apr-2015 18:29:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std06			Worklist Smp#:	8
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-009-1.d			
Lims ID:	std07			
Client ID:				
Sample Type:	IC	Calib Level:	7	
Inject. Date:	10-Apr-2015 18:46:00	ALS Bottle#:	0	Worklist Smp#: 9
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	
Sample Info:	320-0020944-009 Analysis			
Misc. Info.:	none SAMPLE			
Operator ID:	YPH	Instrument ID:	PDA1	
Sublist:	chrom-NGu Primary*sub1			
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m			
Limit Group:	LC 8330 Ngu ICAL			
Last Update:	13-Apr-2015 10:50:11	Calib Date:	10-Apr-2015 19:22:00	
Integrator:	Falcon			
Quant Method:	External Standard	Quant By:	Initial Calibration	
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d			
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS	
Process Host:	XAWRK053			

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.240	4.213	0.027	22980	H 1000.0	918.9	

Reagents:

HPNQL7_00007 Amount Added: 1.00 Units: mL

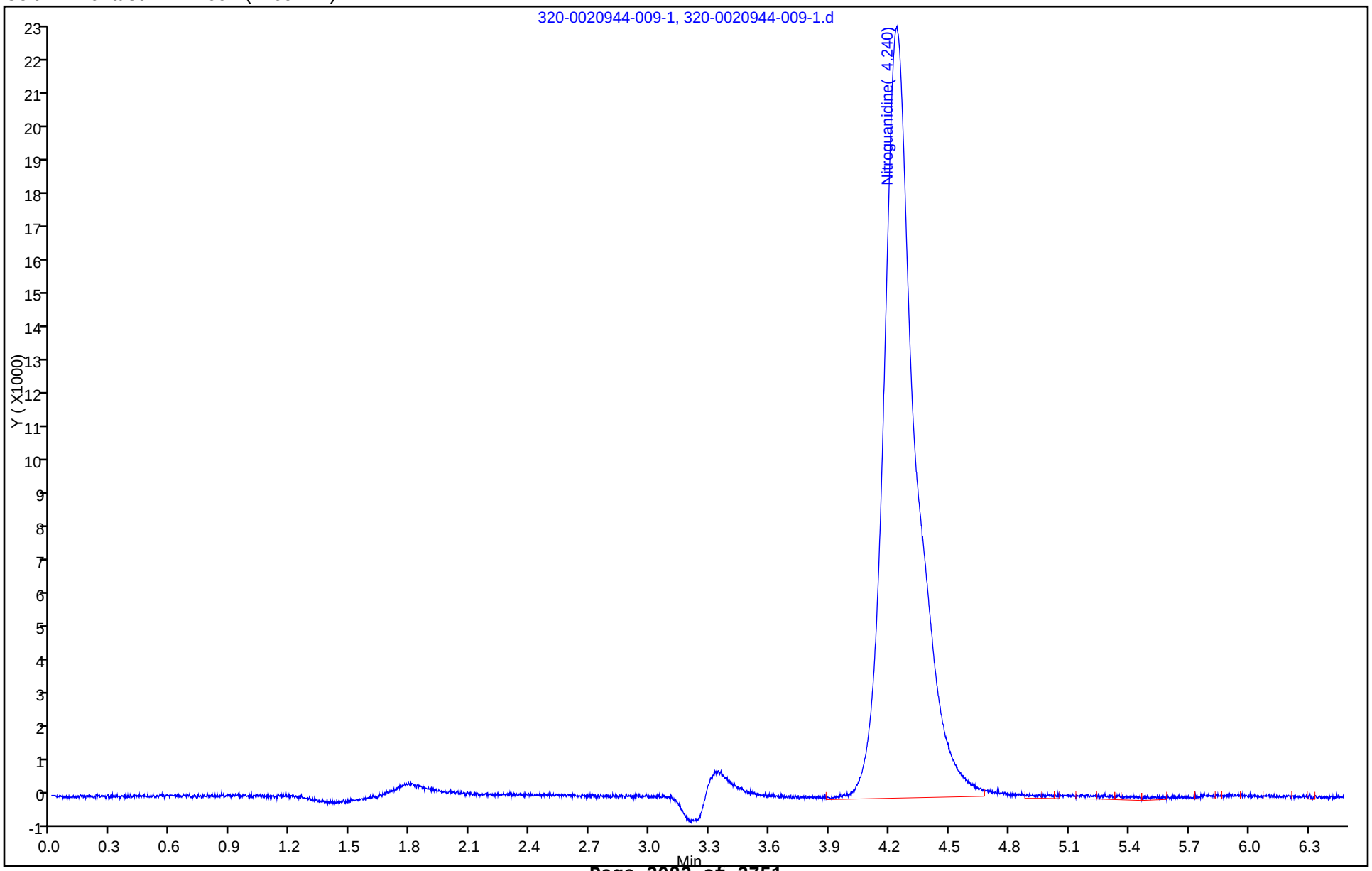
Report Date: 13-Apr-2015 10:50:11 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-009-1.d

Injection Date:	10-Apr-2015 18:46:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std07			Worklist Smp#:	9
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Lims ID:	std02				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	10-Apr-2015 19:22:00	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	STD02 Analysis				
Misc. Info.:	none STD				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	13-Apr-2015 10:47:36	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK053				

First Level Reviewer: huangyun Date: 13-Apr-2015 10:20:45

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.237	4.213	0.024	544H	20.0	21.8	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

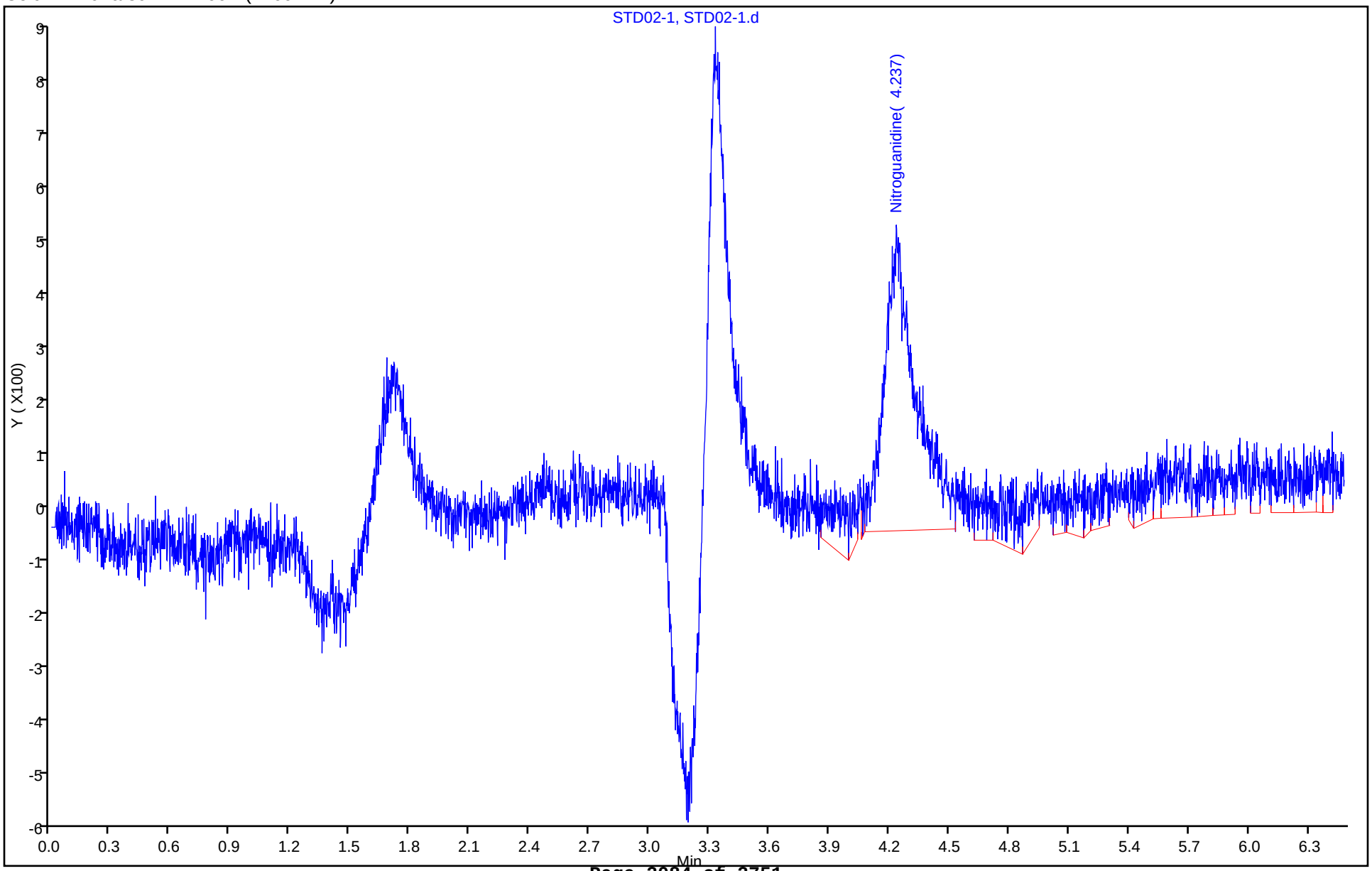
Report Date: 13-Apr-2015 10:47:36 Chrom Revision: 2.2 13-Mar-2015 11:20:44

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Injection Date:	10-Apr-2015 19:22:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	std02			Worklist Smp#:	43
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

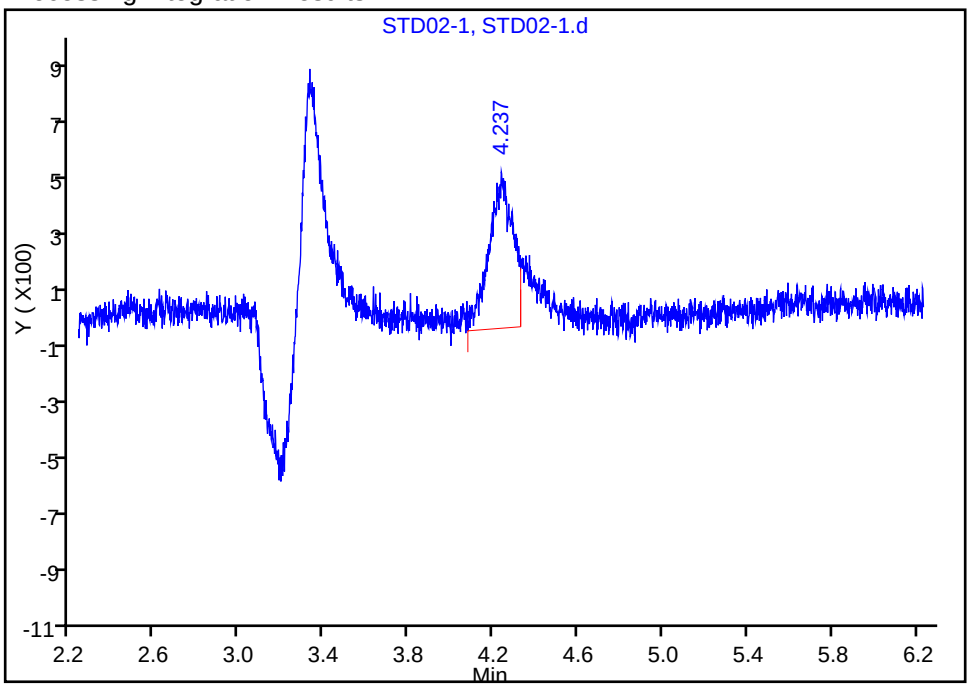
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Injection Date:	10-Apr-2015 19:22:00	Instrument ID:	PDA1		
Lims ID:	std02				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		
Column:	Luna 5u NH2 100A (4.60 mm)	Detector	UV-VIS		

1 Nitroguanidine, CAS: 556-88-7

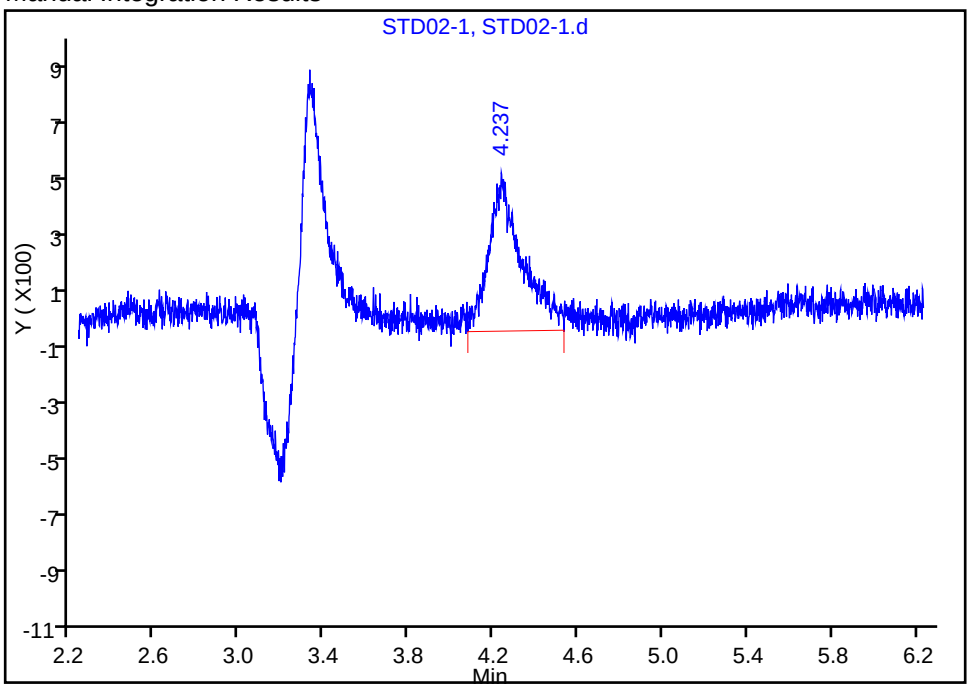
Processing Integration Results

RT: 4.24
Height: 537
Amount: 21.585626
Amount Units: ng/ml



Manual Integration Results

RT: 4.24
Height: 544
Amount: 21.751879
Amount Units: ng/ml



Reviewer: huangyun, 13-Apr-2015 10:20:45
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 320-70867/11 Calibration Date: 04/10/2015 19:40

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-011-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	21.84		437	500	-12.7	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 320-70867/11 Calibration Date: 04/10/2015 19:40

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-011-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.26	3.96	4.46

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-011-1.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Apr-2015 19:40:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-011 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist:

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 16:49:20 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK002

First Level Reviewer: pagem Date: 14-Apr-2015 13:55:44

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.258	4.213	0.045	10921	H 500.0	436.7	

Reagents:

HPNQIC_00007 Amount Added: 1.00 Units: mL

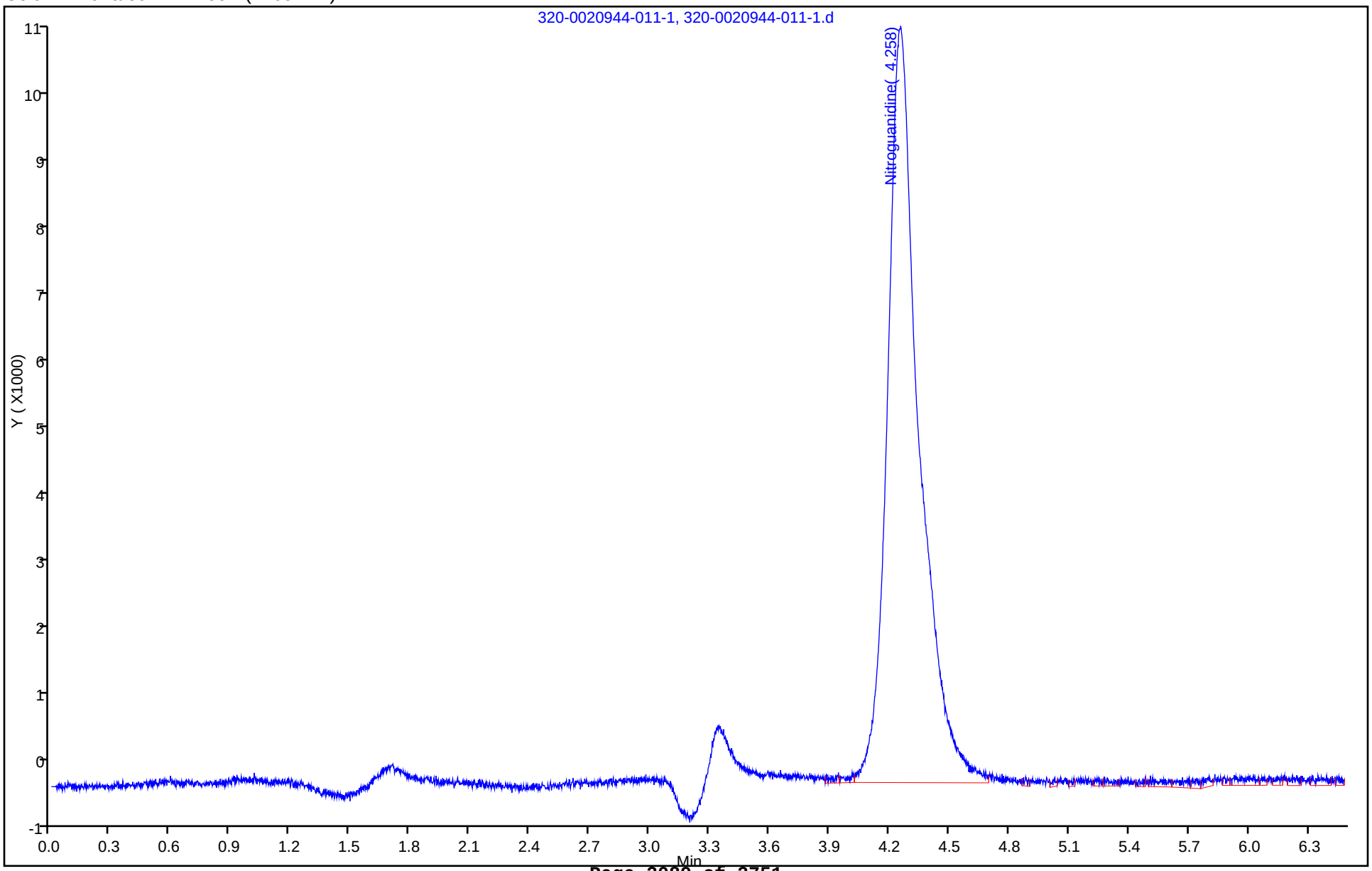
Report Date: 14-Apr-2015 13:55:44 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-011-1.d

Injection Date:	10-Apr-2015 19:40:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 320-70867/12 Calibration Date: 04/10/2015 19:57

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-012-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	25.25		20.2	20.0	1.0	

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 320-70867/12 Calibration Date: 04/10/2015 19:57

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0020944-012-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.26	3.96	4.46

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-012-1.d
Lims ID: LODV
Client ID:
Sample Type: LODV
Inject. Date: 10-Apr-2015 19:57:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020944-012 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1

Method: \\SACChrom\ChromData\PDA1\20150410-20944.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 13-Apr-2015 16:49:20 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK002

First Level Reviewer: huangyun Date: 13-Apr-2015 10:36:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.263	4.213	0.050	505H	20.0	20.2	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

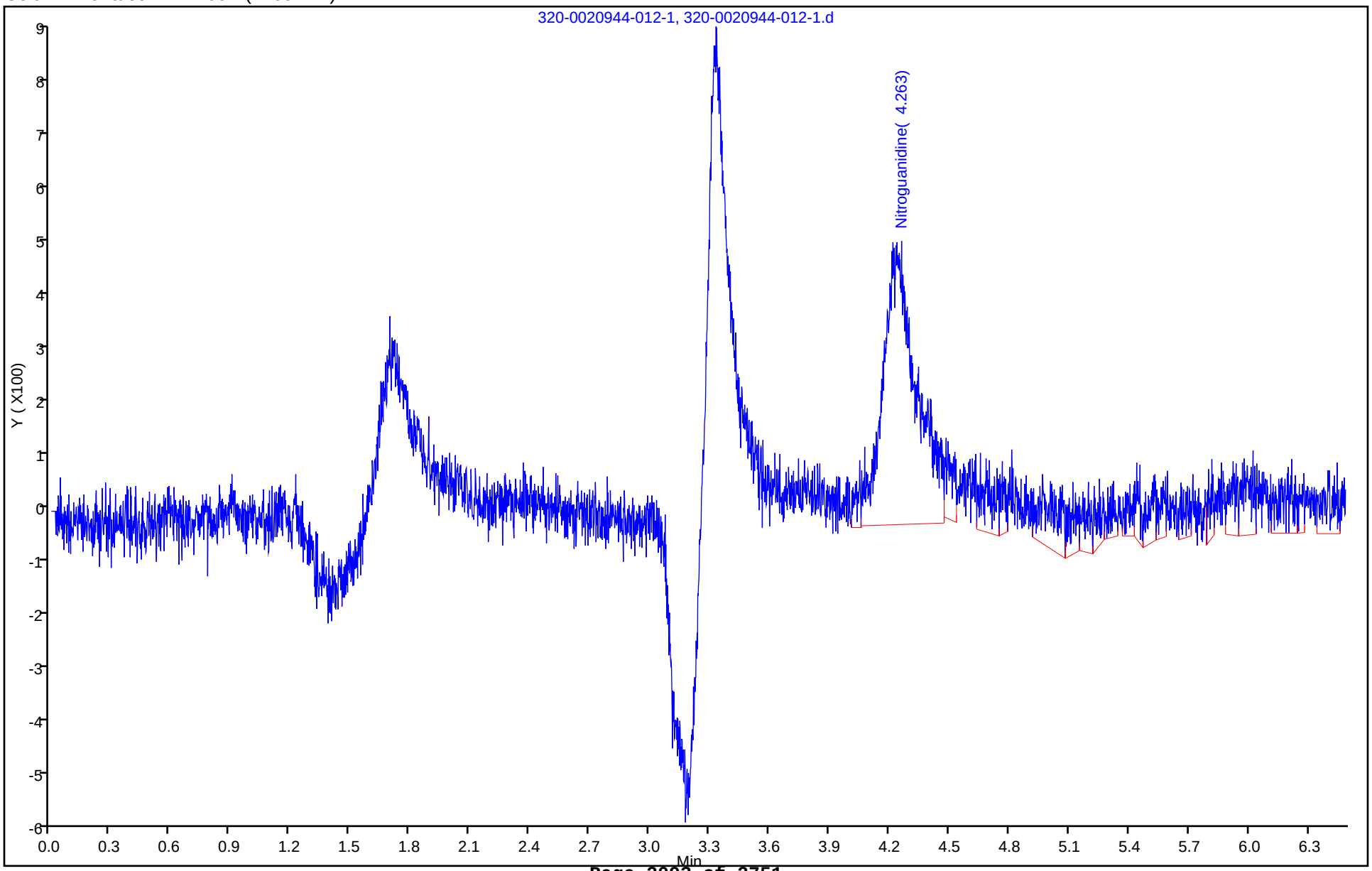
Report Date: 14-Apr-2015 13:55:56 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-012-1.d

Injection Date:	10-Apr-2015 19:57:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	LODV			Worklist Smp#:	12
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

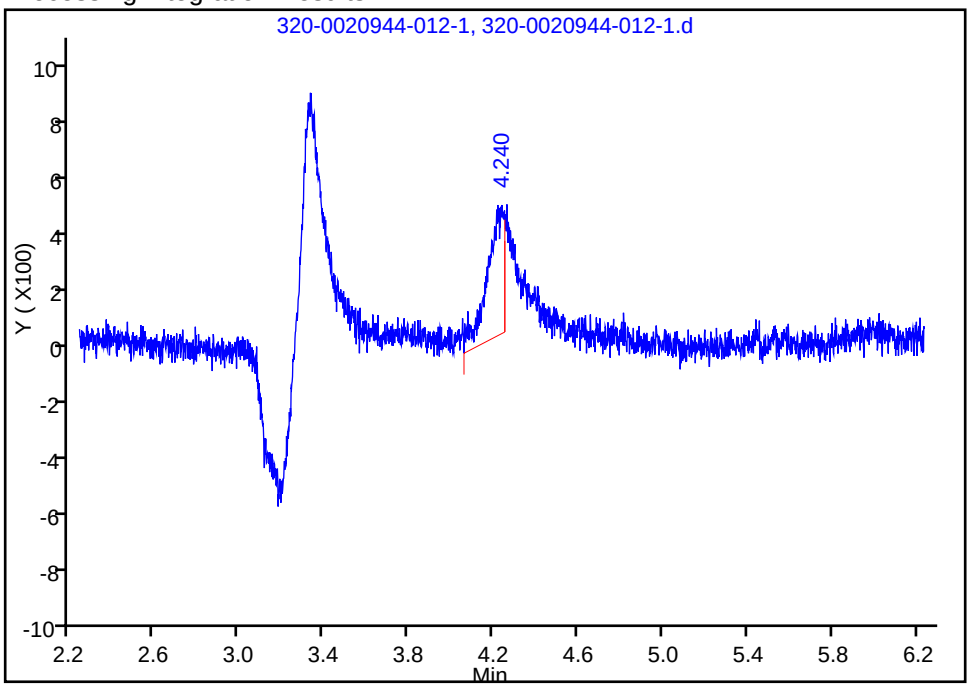
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150410-20944.b\320-0020944-012-1.d
Injection Date: 10-Apr-2015 19:57:00 Instrument ID: PDA1
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

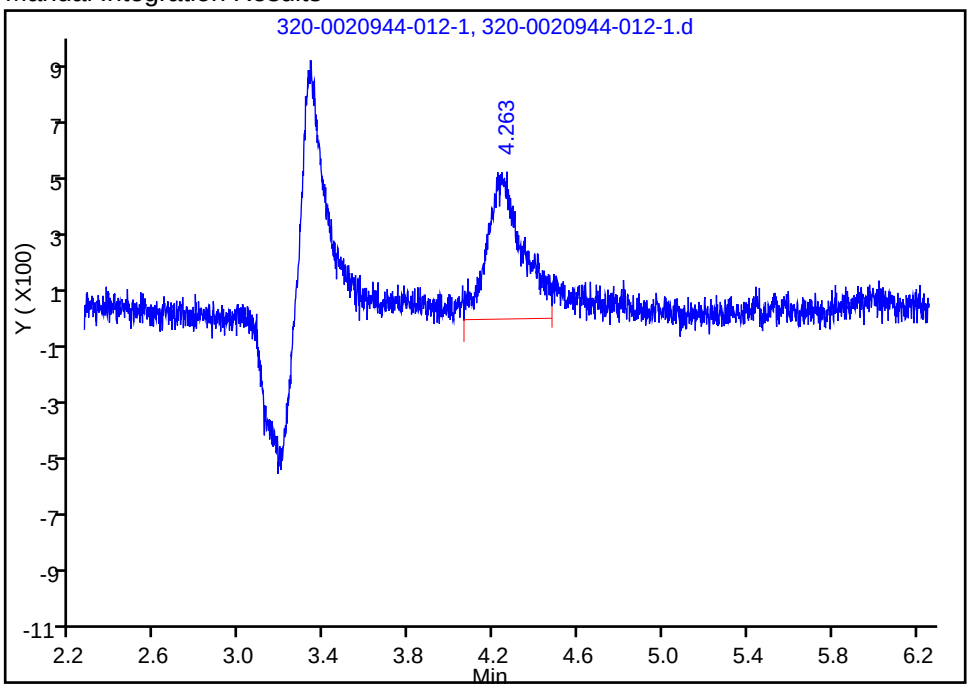
Processing Integration Results

RT: 4.24
Height: 442
Amount: 17.673402
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Height: 505
Amount: 20.192461
Amount Units: ng/ml



Reviewer: huangyun, 13-Apr-2015 10:36:13
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71845/3 Calibration Date: 04/22/2015 15:04

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-003-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	24.30		19.4	20.0	-2.8	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71845/3 Calibration Date: 04/22/2015 15:04

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-003-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.15	3.90	4.40

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-003-1.d				
Lims ID:	CCVL				
Client ID:					
Sample Type:	CCVL				
Inject. Date:	22-Apr-2015 15:04:00	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-003 Analysis				
Misc. Info.:	none PRIMER				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 16:12:21	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				

First Level Reviewer: huangyun Date: 22-Apr-2015 16:12:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.150	4.150	0.000	486H	20.0	19.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

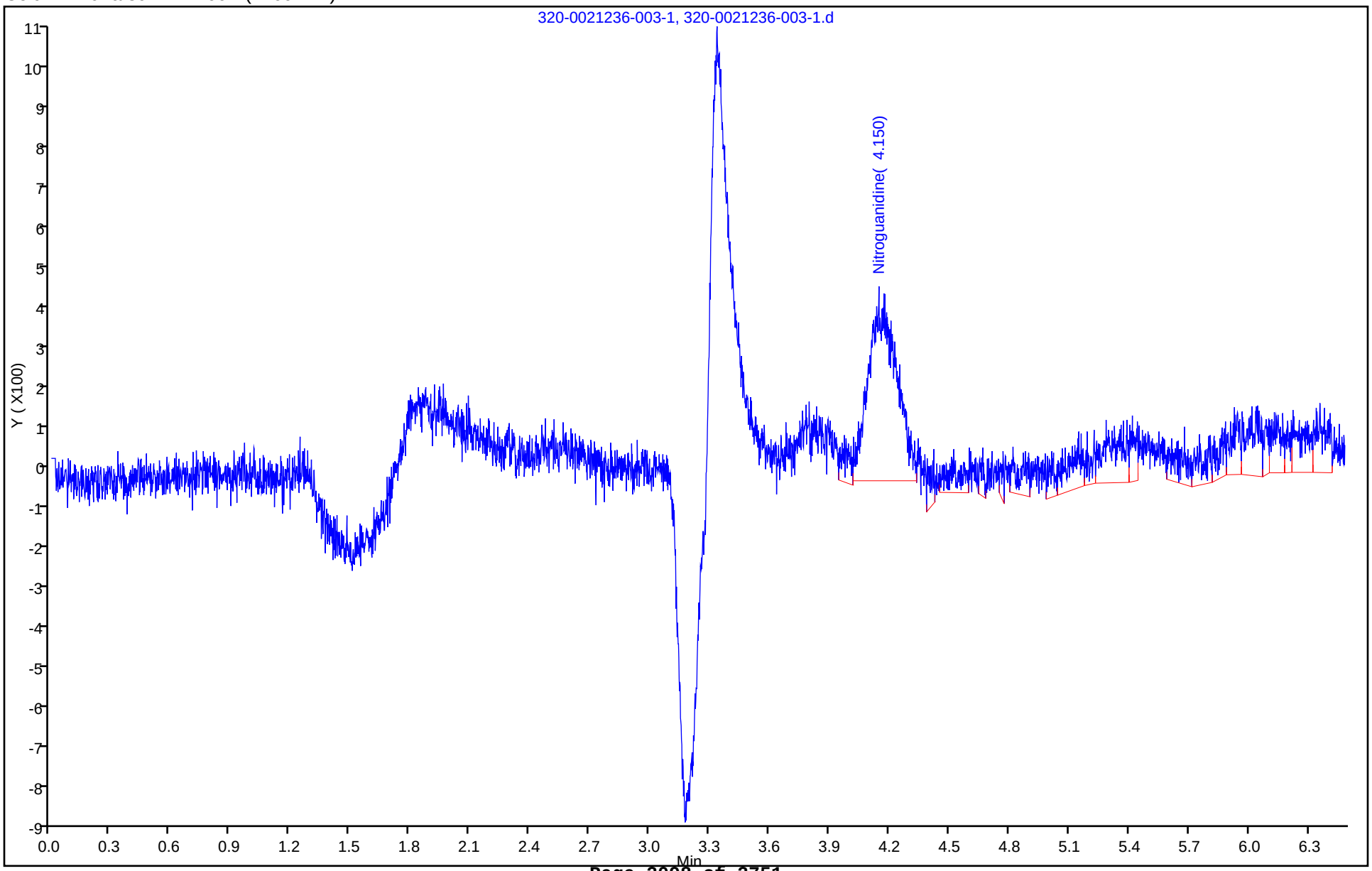
Report Date: 22-Apr-2015 16:12:21 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-003-1.d

Injection Date:	22-Apr-2015 15:04:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	3
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

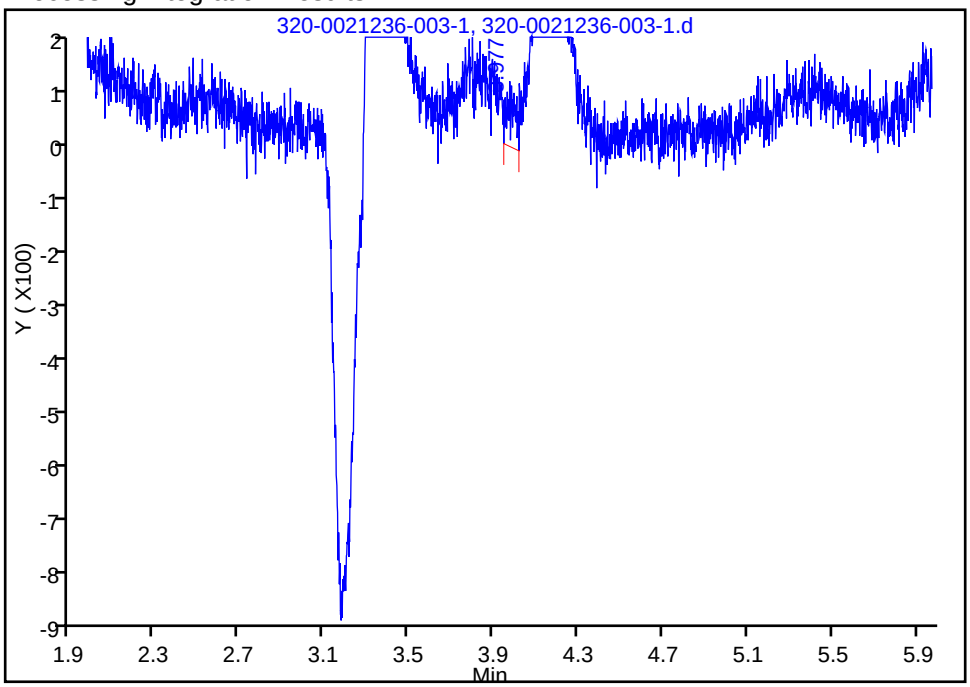
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-003-1.d
Injection Date: 22-Apr-2015 15:04:00 Instrument ID: PDA1
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

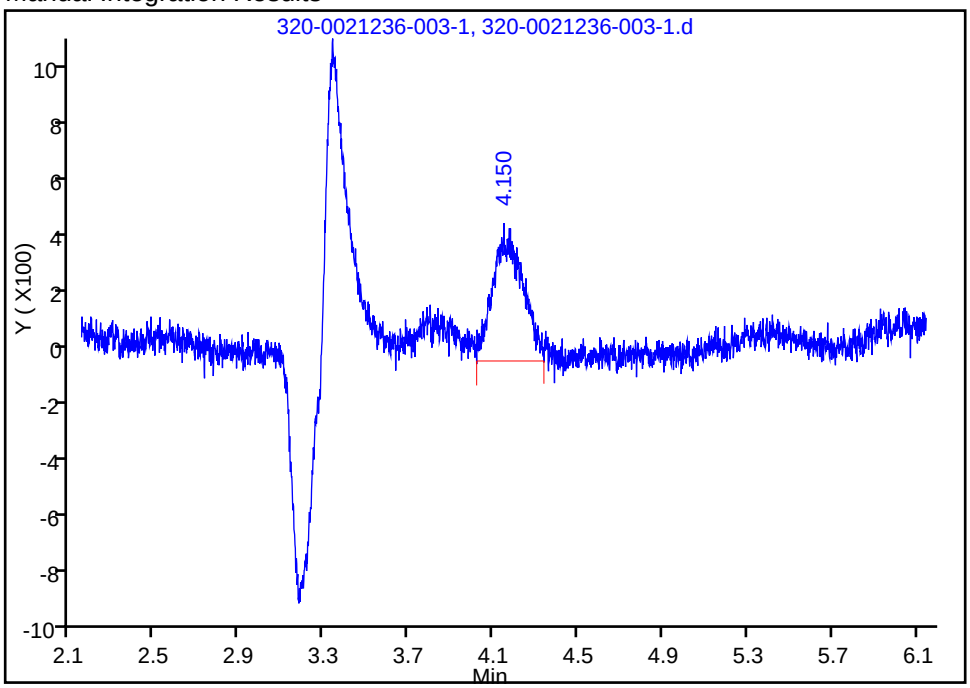
Processing Integration Results

RT: 3.98
Height: 117
Amount: 4.678253
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Height: 486
Amount: 19.432745
Amount Units: ng/ml



Reviewer: huangyun, 22-Apr-2015 15:22:46
Audit Action: Manually Integrated
Audit Reason: Wrong Peak

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71845/4 Calibration Date: 04/22/2015 15:22

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-004-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	22.77		182	200	-9.0	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71845/4 Calibration Date: 04/22/2015 15:22

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-004-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.20	3.95	4.45

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-004-1.d				
Lims ID:	CCV 05				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	22-Apr-2015 15:22:00	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-004 Analysis				
Misc. Info.:	none PRIMER				
Operator ID:	YPH	Instrument ID:	PDA1		
Sublist:	chrom-NGu Primary*sub1				
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 16:12:02	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				
First Level Reviewer: huangyun		Date:	22-Apr-2015 16:12:02		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.200	4.200	0.000	4554H	200.0	182.1	

Reagents:

HPNQL5_00008 Amount Added: 1.00 Units: mL

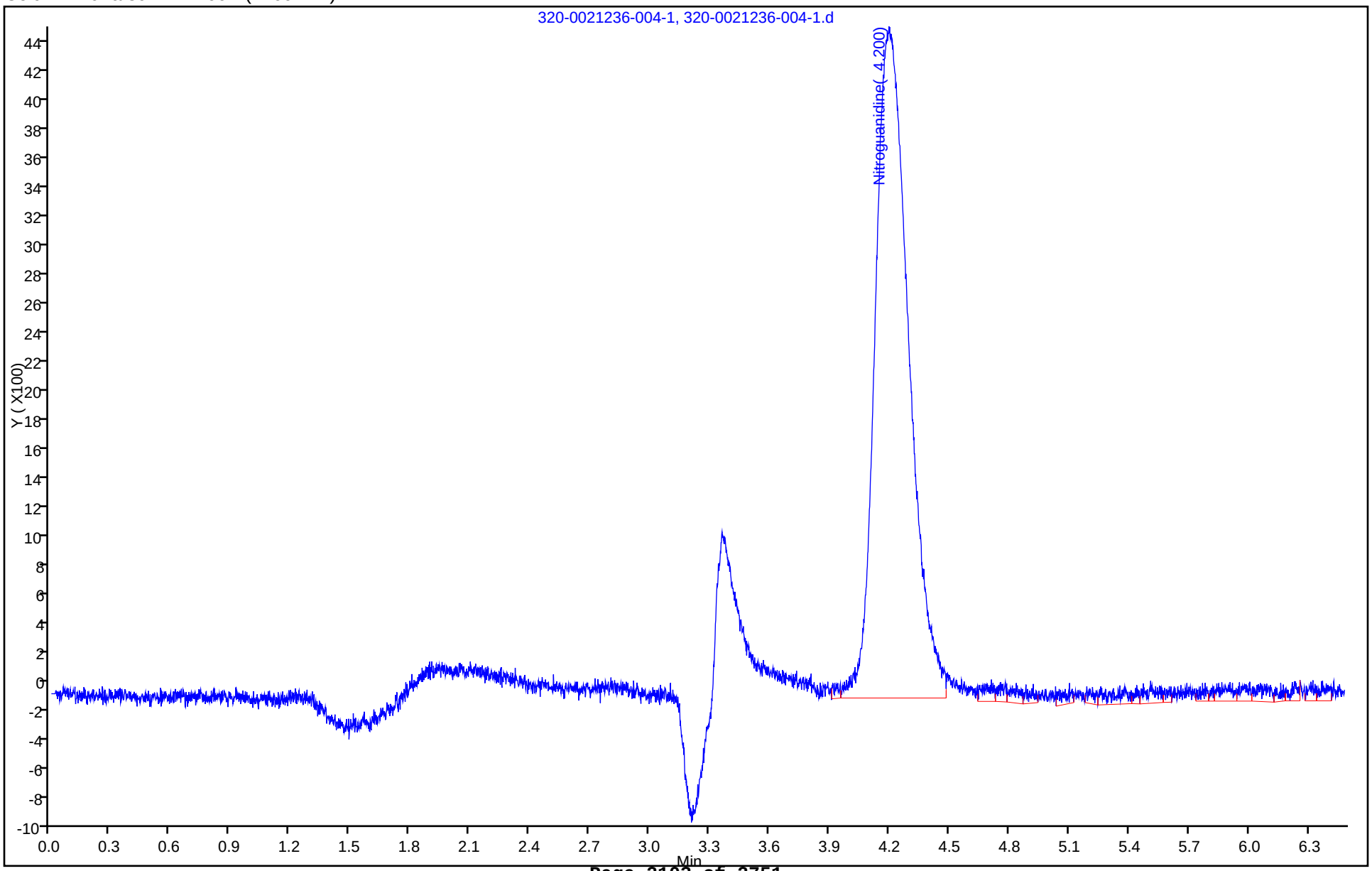
Report Date: 22-Apr-2015 16:12:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-004-1.d

Injection Date:	22-Apr-2015 15:22:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCV 05			Worklist Smp#:	4
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71845/16 Calibration Date: 04/22/2015 18:55

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-016-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	23.92		95.6	100	-4.4	15.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71845/16 Calibration Date: 04/22/2015 18:55

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-016-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.15	3.90	4.40

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-016-1.d
Lims ID: CCV 04
Client ID:
Sample Type: CCV
Inject. Date: 22-Apr-2015 18:55:00 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021236-016 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 23-Apr-2015 09:06:04 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK026

First Level Reviewer: huangyun Date: 23-Apr-2015 09:06:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.150	4.150	0.000	2392H	100.0	95.6	

Reagents:

HPNQL4_00009 Amount Added: 1.00 Units: mL

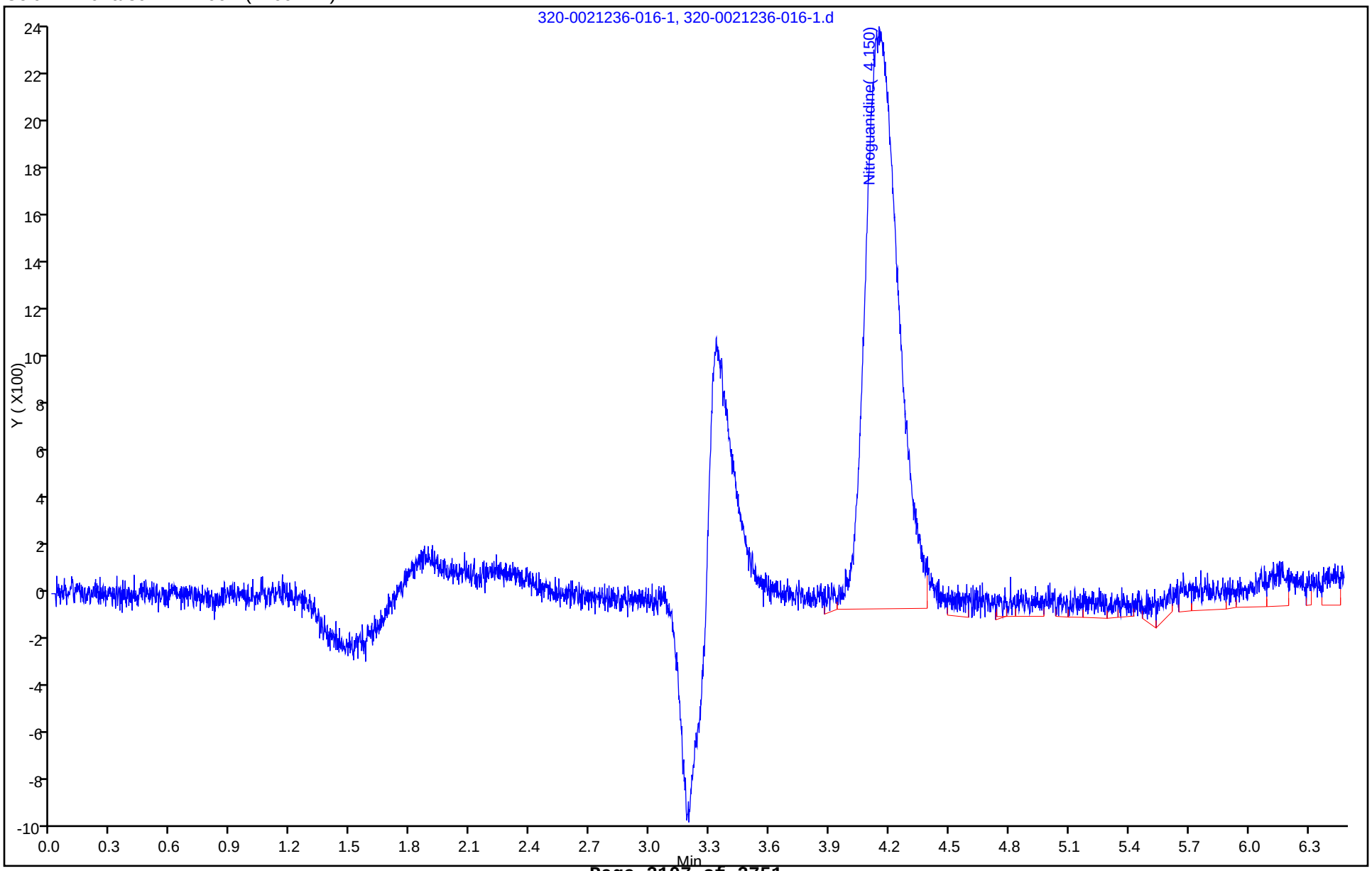
Report Date: 23-Apr-2015 09:06:05 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-016-1.d

Injection Date:	22-Apr-2015 18:55:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCV 04			Worklist Smp#:	16
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71845/17 Calibration Date: 04/22/2015 19:13

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-017-1.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Nitroguanidine	Ave	25.01	27.10		21.7	20.0	8.4	30.0

FORM VII 8330 Modified

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71845/17 Calibration Date: 04/22/2015 19:13

Instrument ID: PDA1 Calib Start Date: 04/10/2015 17:35

GC Column: Luna NH2 ID: 4.60(mm) Calib End Date: 04/10/2015 19:22

Lab File ID: 320-0021236-017-1.d

Analyte	RT	RT WINDOW	
		FROM	TO
Nitroguanidine	4.13	3.88	4.38

Form VII 8330 Modified

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-017-1.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 22-Apr-2015 19:13:00 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021236-017 Analysis
Misc. Info.: none SAMPLE
Operator ID: YPH Instrument ID: PDA1
Sublist: chrom-NGu Primary*sub1

Method: \\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m
Limit Group: LC 8330 Ngu ICAL
Last Update: 23-Apr-2015 09:06:59 Calib Date: 10-Apr-2015 19:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d

Column 1 : Luna 5u NH2 100A (4.60 mm) Det: UV-VIS
Process Host: XAWRK026

First Level Reviewer: huangyun Date: 23-Apr-2015 09:06:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.133	4.133	0.000	542H	20.0	21.7	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HPNQL2_00008 Amount Added: 1.00 Units: mL

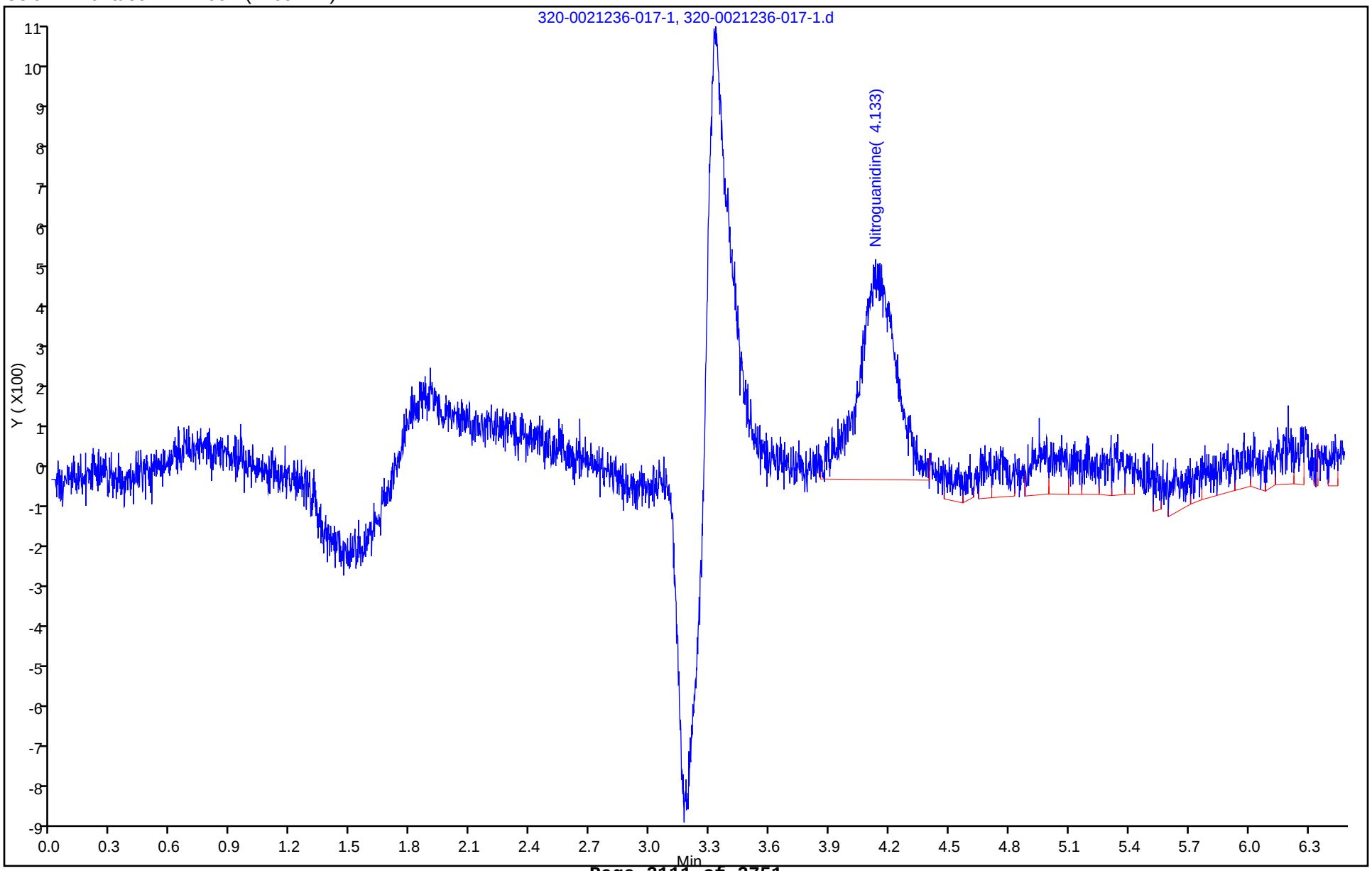
Report Date: 23-Apr-2015 09:06:59 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-017-1.d

Injection Date:	22-Apr-2015 19:13:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	17
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

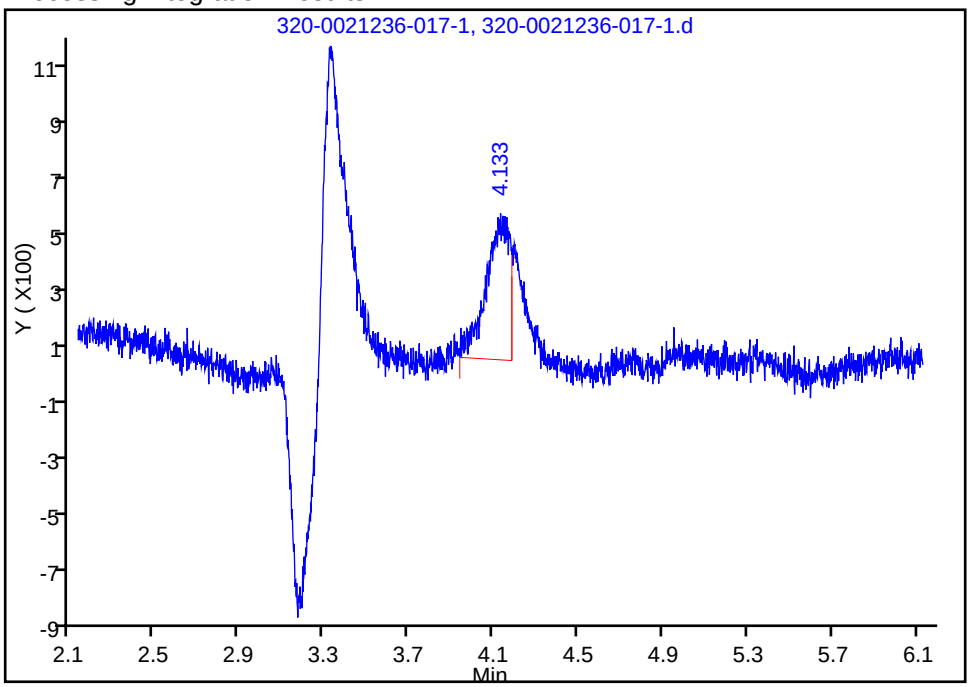
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-017-1.d
Injection Date: 22-Apr-2015 19:13:00 Instrument ID: PDA1
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 50.0 ul Dil. Factor: 1.0000
Method: NGu Primary Limit Group: LC 8330 Ngu ICAL
Column: Luna 5u NH2 100A (4.60 mm) Detector UV-VIS

1 Nitroguanidine, CAS: 556-88-7

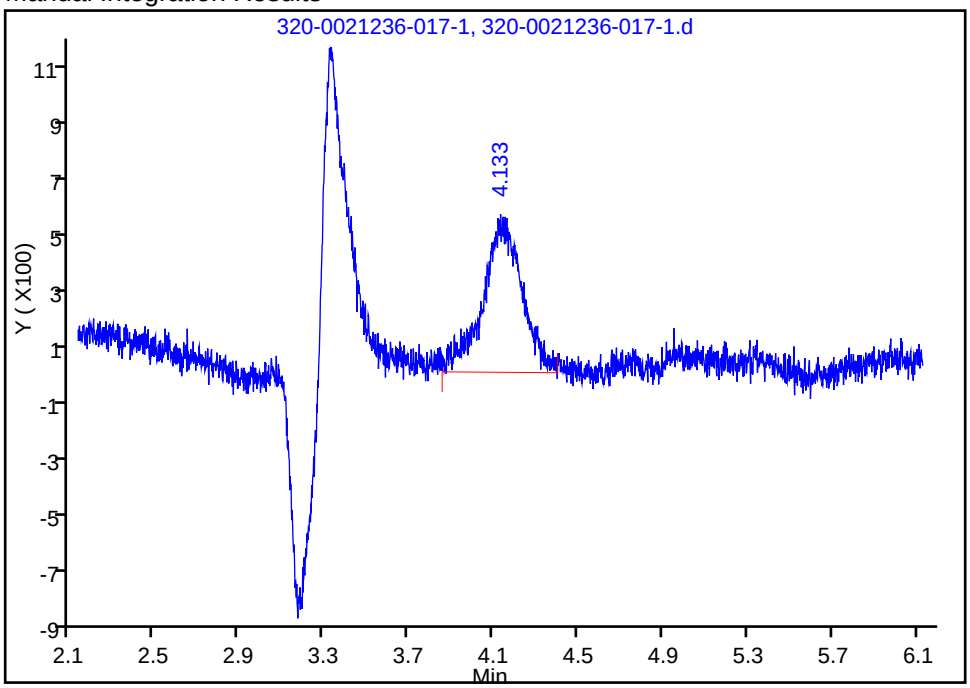
Processing Integration Results

RT: 4.13
Height: 503
Amount: 20.112491
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Height: 542
Amount: 21.671909
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 09:06:59
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: MB 320-71482/1-A

Matrix: Solid Lab File ID: 320-0021236-005-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/18/2015 14:00

Sample wt/vol: 2.00(g) Date Analyzed: 04/22/2015 15:40

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 71845 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.040	U	0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-005-1.d				
Lims ID:	MB 320-71482/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	22-Apr-2015 15:40:00	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-005 Analysis				
Misc. Info.:	none PRIMER				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 16:12:21	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				
First Level Reviewer: huangyun		Date:	22-Apr-2015 16:12:41		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags

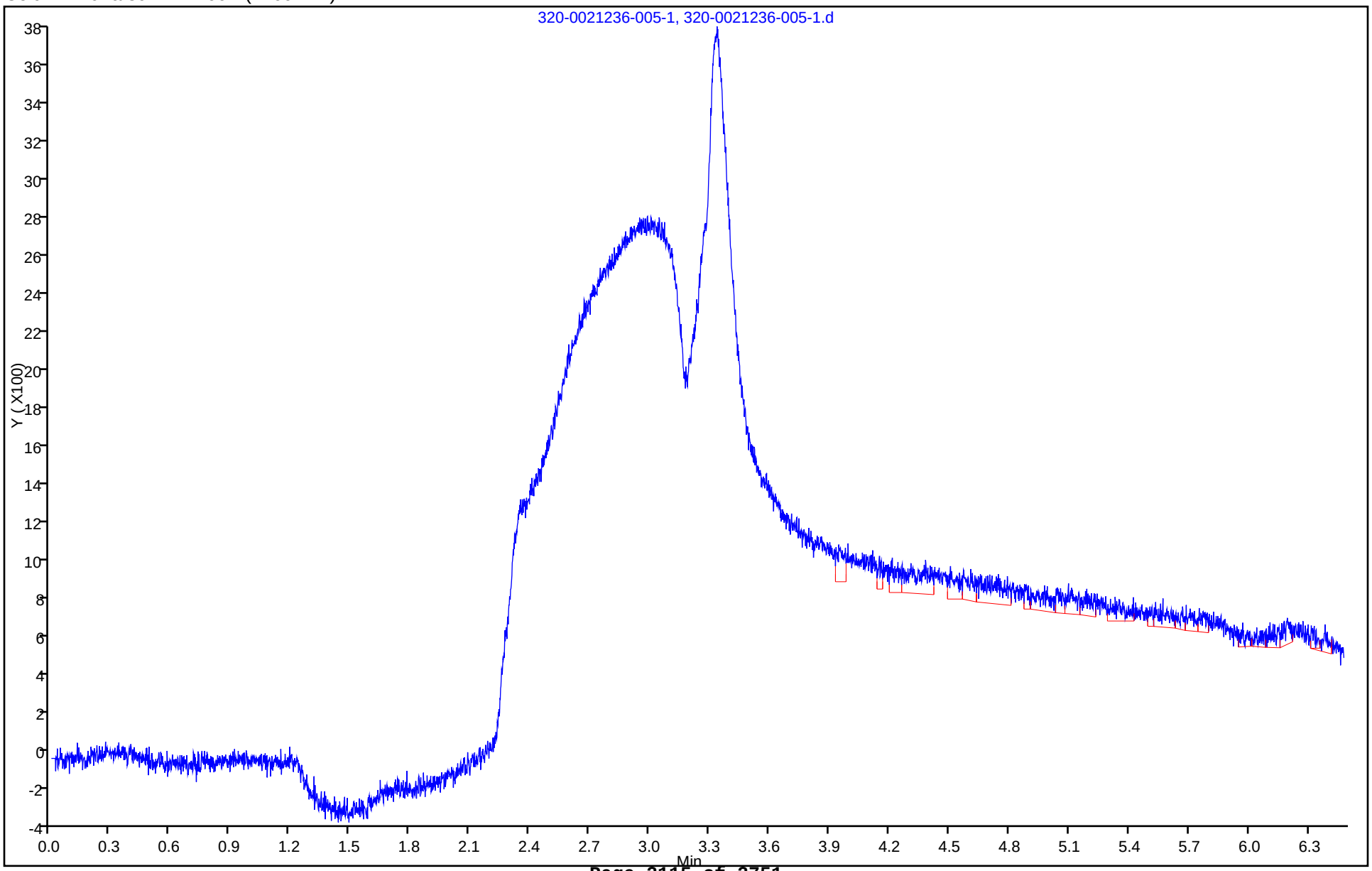
Report Date: 22-Apr-2015 16:12:41 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-005-1.d

Injection Date:	22-Apr-2015 15:40:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	MB 320-71482/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: Lab Sample ID: LCS 320-71482/2-A

Matrix: Solid Lab File ID: 320-0021236-006-1.d

Analysis Method: 8330 Modified Date Collected:

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/18/2015 14:00

Sample wt/vol: 2.00(g) Date Analyzed: 04/22/2015 15:57

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 71845 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.815	M	0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-006-1.d				
Lims ID:	LCS 320-71482/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	22-Apr-2015 15:57:00	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-006 Analysis				
Misc. Info.:	none STD				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 16:14:17	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				

First Level Reviewer: huangyun Date: 22-Apr-2015 16:14:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						M
4.160	4.200	-0.040	4078H	200.0	163.1	M

QC Flag Legend

Review Flags

M - Manually Integrated

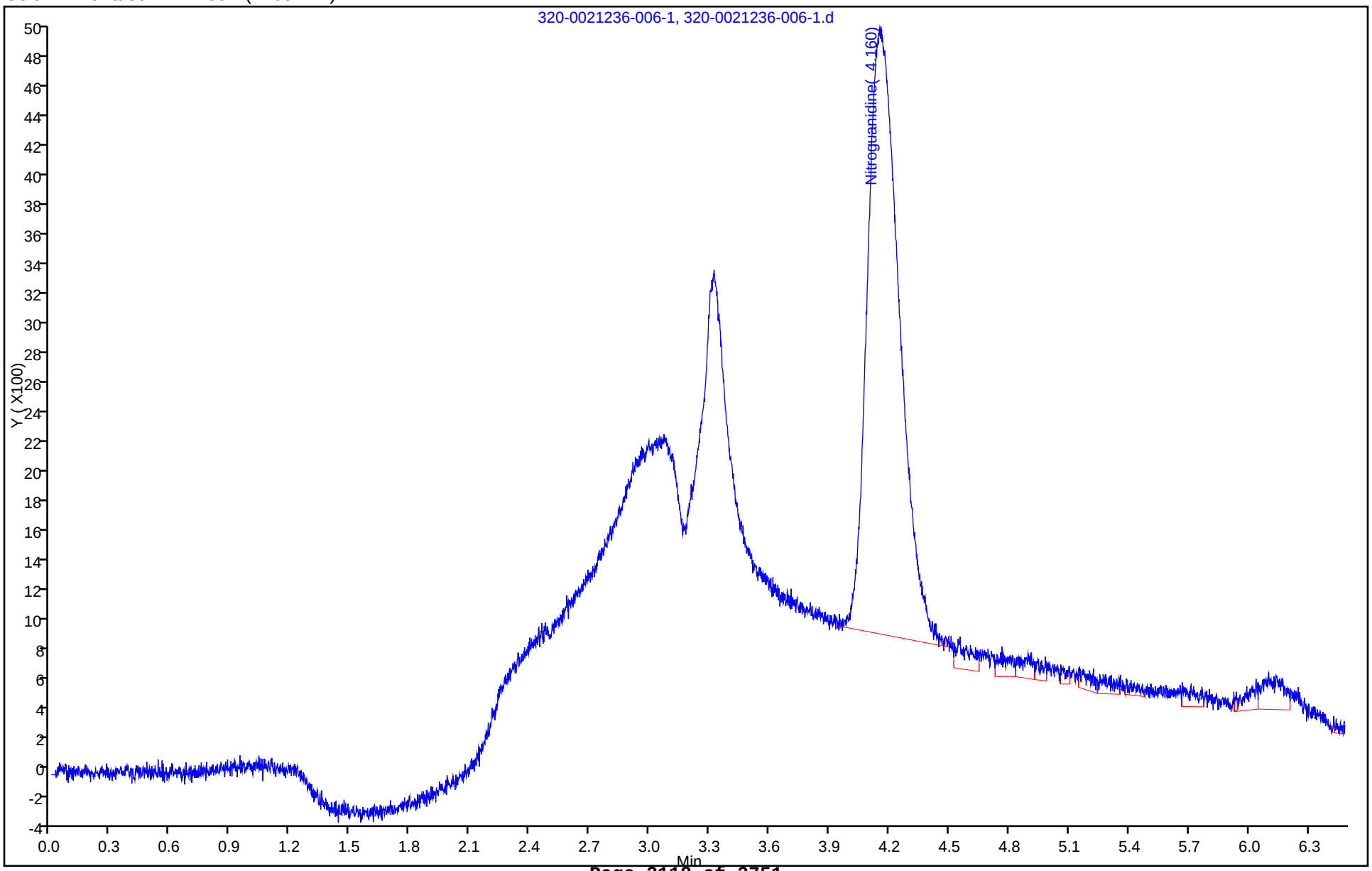
Report Date: 22-Apr-2015 16:14:17 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-006-1.d

Injection Date:	22-Apr-2015 15:57:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	LCS 320-71482/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



Manual Integration/User Assign Peak Report

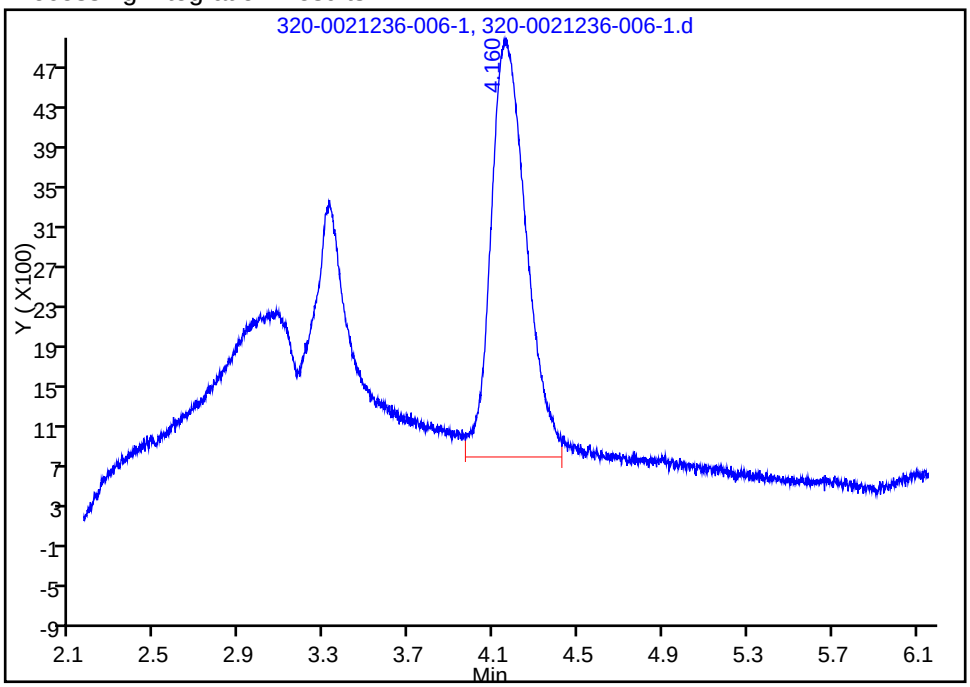
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-006-1.d				
Injection Date:	22-Apr-2015 15:57:00	Instrument ID:	PDA1		
Lims ID:	LCS 320-71482/2-A				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		
Column:	Luna 5u NH2 100A (4.60 mm)	Detector	UV-VIS		

1 Nitroguanidine, CAS: 556-88-7

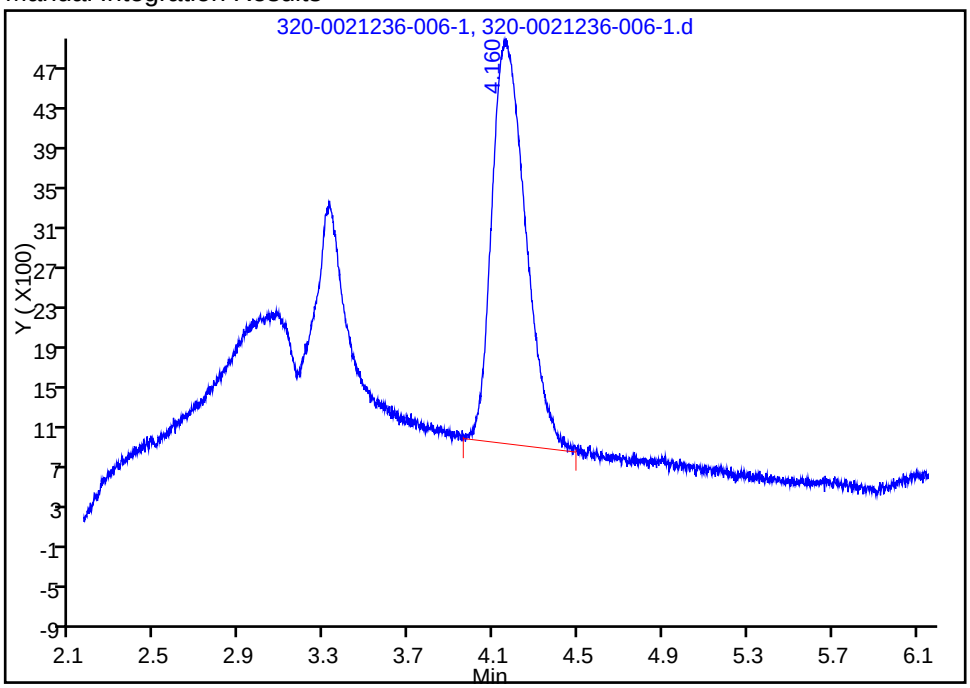
Processing Integration Results

RT: 4.16
Height: 4219
Amount: 168.6970
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Height: 4078
Amount: 163.0591
Amount Units: ng/ml



Reviewer: huangyun, 22-Apr-2015 16:14:17
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MS

Matrix: Solid Lab File ID: 320-0021236-008-1.d

Analysis Method: 8330 Modified Date Collected: 04/06/2015 16:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/18/2015 14:00

Sample wt/vol: 2.00(g) Date Analyzed: 04/22/2015 16:33

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 71845 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.826		0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-008-1.d				
Lims ID:	240-49071-E-2-E MS				
Client ID:	079SS-0342M-0001,0002-SO				
Sample Type:	MS				
Inject. Date:	22-Apr-2015 16:33:00	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-008 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 17:41:18	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				
First Level Reviewer: huangyun		Date:	22-Apr-2015 16:57:07		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.155	4.200	-0.045	4131H	200.0	165.2	

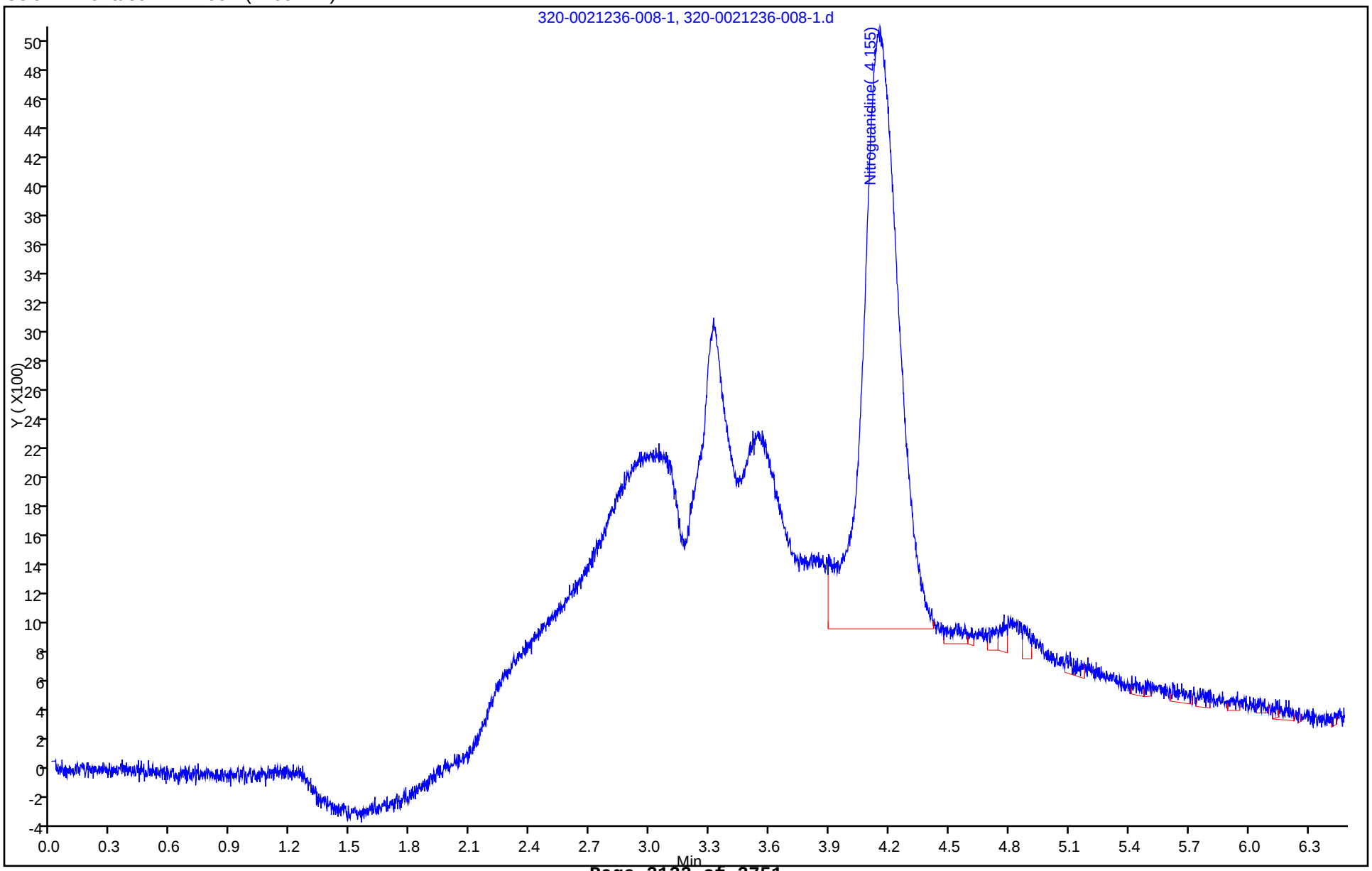
Report Date: 22-Apr-2015 16:57:07 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-008-1.d

Injection Date:	22-Apr-2015 16:33:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	240-49071-E-2-E MS			Worklist Smp#:	8
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MSD

Matrix: Solid Lab File ID: 320-0021236-009-1.d

Analysis Method: 8330 Modified Date Collected: 04/06/2015 16:30

Extraction Method: Sieve/Ultrasoni Date Extracted: 04/18/2015 14:00

Sample wt/vol: 2.00(g) Date Analyzed: 04/22/2015 16:51

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 50(uL) GC Column: Luna NH2 ID: 4.6(mm)

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

Analysis Batch No.: 71845 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
556-88-7	Nitroguanidine	0.809		0.25	0.040	0.020

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-009-1.d				
Lims ID:	240-49071-E-2-F MSD				
Client ID:	079SS-0342M-0001,0002-SO				
Sample Type:	MSD				
Inject. Date:	22-Apr-2015 16:51:00	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	50.0 ul	Dil. Factor:	1.0000		
Sample Info:	320-0021236-009 Analysis				
Misc. Info.:	none SAMPLE				
Operator ID:	YPH	Instrument ID:	PDA1		
Method:	\\SACChrom\ChromData\PDA1\20150422-21236.b\NGu Primary.m				
Limit Group:	LC 8330 Ngu ICAL				
Last Update:	22-Apr-2015 17:59:42	Calib Date:	10-Apr-2015 19:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACChrom\ChromData\PDA1\20150410-20944.b\STD02-1.d				
Column 1 :	Luna 5u NH2 100A (4.60 mm)		Det: UV-VIS		
Process Host:	XAWRK013				
First Level Reviewer: huangyun		Date:	22-Apr-2015 17:00:42		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
1 Nitroguanidine						
4.120	4.200	-0.080	4048H	200.0	161.9	

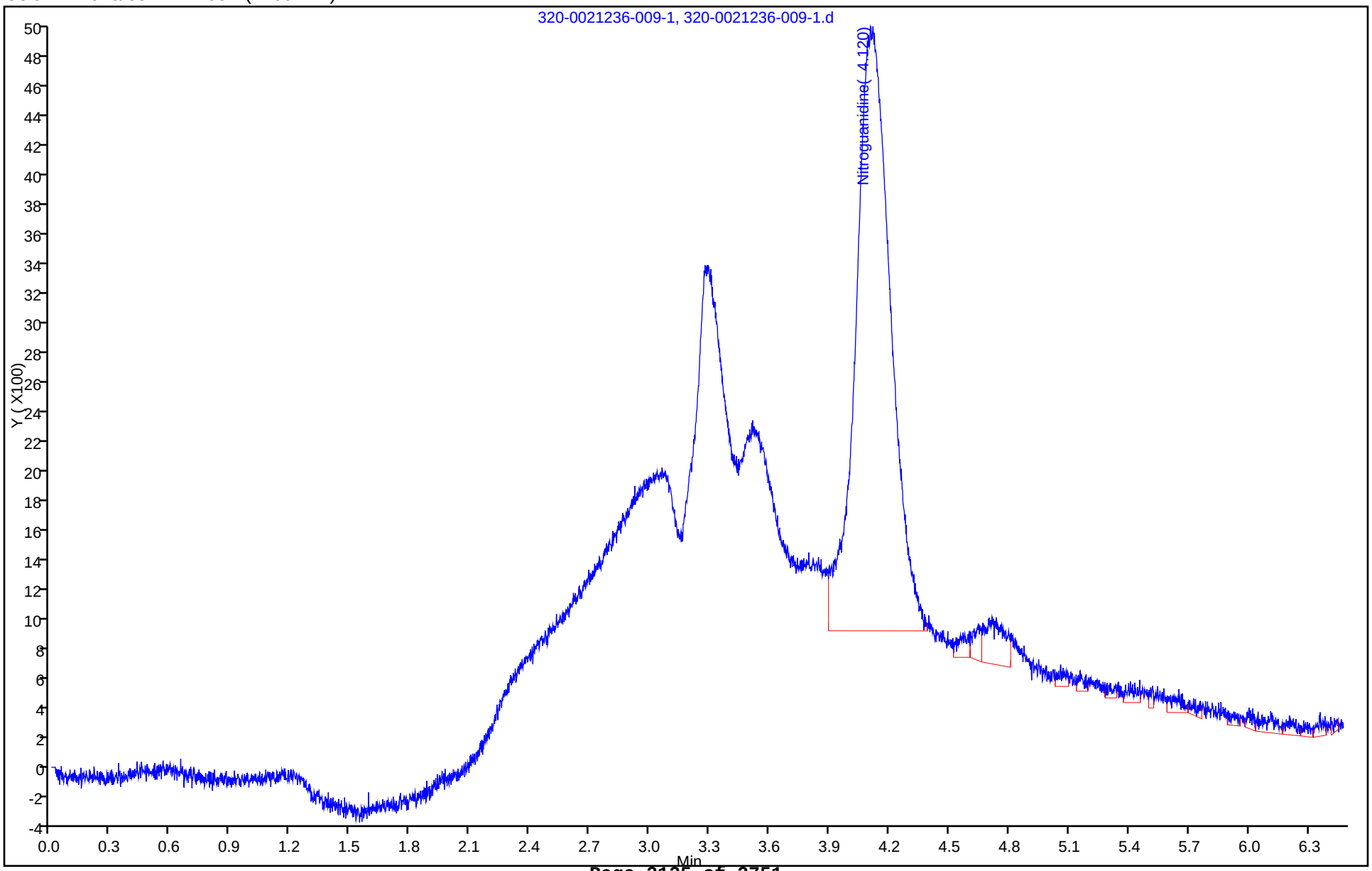
Report Date: 22-Apr-2015 17:00:42 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\PDA1\20150422-21236.b\320-0021236-009-1.d

Injection Date:	22-Apr-2015 16:51:00	Instrument ID:	PDA1	Operator ID:	YPH
Lims ID:	240-49071-E-2-F MSD			Worklist Smp#:	9
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	50.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	NGu Primary	Limit Group:	LC 8330 Ngu ICAL		

Column: Luna 5u NH2 100A (4.60 mm)



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: PDA1 Start Date: 04/10/2015 17:35

Analysis Batch Number: 70867 End Date: 04/10/2015 19:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD03 320-70867/5 IC		04/10/2015 17:35	1	320-0020944-005 -1.d	Luna NH2 4.6(mm)
STD04 320-70867/6 IC		04/10/2015 17:53	1	320-0020944-006 -1.d	Luna NH2 4.6(mm)
STD05 320-70867/7 IC		04/10/2015 18:11	1	320-0020944-007 -1.d	Luna NH2 4.6(mm)
STD06 320-70867/8 IC		04/10/2015 18:29	1	320-0020944-008 -1.d	Luna NH2 4.6(mm)
STD07 320-70867/9 IC		04/10/2015 18:46	1	320-0020944-009 -1.d	Luna NH2 4.6(mm)
STD02 320-70867/43 IC		04/10/2015 19:22	1	STD02-1.d	Luna NH2 4.6(mm)
ICV 320-70867/11		04/10/2015 19:40	1	320-0020944-011 -1.d	Luna NH2 4.6(mm)
LODV 320-70867/12		04/10/2015 19:57	1	320-0020944-012 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: PDA1 Start Date: 04/22/2015 15:04

Analysis Batch Number: 71845 End Date: 04/22/2015 19:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-71845/3		04/22/2015 15:04	1	320-0021236-003 -1.d	Luna NH2 4.6(mm)
CCV 320-71845/4 CCVRT		04/22/2015 15:22	1	320-0021236-004 -1.d	Luna NH2 4.6(mm)
MB 320-71482/1-A		04/22/2015 15:40	1	320-0021236-005 -1.d	Luna NH2 4.6(mm)
LCS 320-71482/2-A		04/22/2015 15:57	1	320-0021236-006 -1.d	Luna NH2 4.6(mm)
240-49071-2	079SS-0342M-0001,0002 -SO	04/22/2015 16:15	1	320-0021236-007 -1.d	Luna NH2 4.6(mm)
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/22/2015 16:33	1	320-0021236-008 -1.d	Luna NH2 4.6(mm)
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/22/2015 16:51	1	320-0021236-009 -1.d	Luna NH2 4.6(mm)
ZZZZZ		04/22/2015 17:08	1		Luna NH2 4.6(mm)
ZZZZZ		04/22/2015 17:26	1		Luna NH2 4.6(mm)
ZZZZZ		04/22/2015 17:44	1		Luna NH2 4.6(mm)
ZZZZZ		04/22/2015 18:02	1		Luna NH2 4.6(mm)
ZZZZZ		04/22/2015 18:19	1		Luna NH2 4.6(mm)
ZZZZZ		04/22/2015 18:37	1		Luna NH2 4.6(mm)
CCV 320-71845/16		04/22/2015 18:55	1	320-0021236-016 -1.d	Luna NH2 4.6(mm)
CCVL 320-71845/17		04/22/2015 19:13	1	320-0021236-017 -1.d	Luna NH2 4.6(mm)

8330 Modified

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 71482 Batch Start Date: 04/20/15 14:50 Batch Analyst: Arauz, Horacio J

Batch Method: Sieve/Ultrasoni Batch End Date: 04/21/15 10:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNQSP 00018			
MB 320-71482/1		Sieve/Ultrasoni, 8330 Modified		2.00 g	10.00 mL				
LCS 320-71482/2		Sieve/Ultrasoni, 8330 Modified		2.00 g	10.00 mL	40 uL			
240-49071-E-2	079SS-0342M-0001,0002-SO	Sieve/Ultrasoni, 8330 Modified	T	2.03 g	10.00 mL				
240-49071-E-2 MS	079SS-0342M-0001,0002-SO	Sieve/Ultrasoni, 8330 Modified	T	2.00 g	10.00 mL	40 uL			
240-49071-E-2 MSD	079SS-0342M-0001,0002-SO	Sieve/Ultrasoni, 8330 Modified	T	2.00 g	10.00 mL	40 uL			

Batch Notes	
Calcium Chloride Reagent ID	397482
Date of Clean up	4-21-15
Analyst performed Clean Up	HJA
Filter Lot #	R4NA21509
Filter Type	.45um Millipore
Pipette ID	EC15219
Pipette ID for Solvent	11-Z-0728
Person's name who witnessed reagent drop	SNE
Blank Sand Lot #	FISHER 142675
Solvent Name	1.3g/l CaCL2
Sonication End Date	4-21-15
Sonication Start Date	4-20-15
Sonication Start Time	15:00
Sonication Stop Time	09:00
SOP Number	WS-LC-0010
Maximum Temperature	24 Degrees C
Minimum Temperature	11 Degrees C

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

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 71482 Batch Start Date: 04/20/15 14:50 Batch Analyst: Arauz, Horacio J

Batch Method: Sieve/Ultrasoni Batch End Date: 04/21/15 10:45

Basis	Basis Description
T	Total/NA

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

Due 4/24
L4

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 240-49071, 49171, 49233 Work List ID(s): 21236

Extraction Batch: 71482 Analysis Batch(es): 71845

Delivery Rank 4 Due Date: 4/24/2015

A. Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# 70867	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓		✓
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).	✓		✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓		✓
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.			✓
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?			✓
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all non-conformances documented/attached? NCM#			✓
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.

1st Level (Analyst): YPH Date: 4/23/2015

2nd Level Reviewer: V. Duhuta Date: 4/27/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

GC/HPLC ICAL Review Checklist

Instrument ID: PDA1 Method: Ngu Primary

Work List ID: 20944 Analysis Batch(es): 70867.

Analytes Included in this ICAL: Nitroguanidine (ICAL 4/10/2015)

ICAL Review	1st Level	2nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets measurements for 8081			✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly			✓
5. Standards used in ICAL are correct	✓	✓	
6. No analytes have saturated peaks	✓	✓	
7. All peaks correctly identified and within retention time windows	✓	✓	
8. Manual integrations reviewed and appropriate	✓	✓	
9. All analytes meet %RSD or linear regression requirements	✓	✓	
10. Any levels dropped are reviewed and appropriate			✓
11. ICV meets requirements and is run after the ICAL	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation	✓	✓	
13. ICAL meets requirements stated in SOP	✓	✓	
13. Chromatograms are uploaded/reviewed in ?TALs	✓	✓	
14. ICAL is locked in TALs.		✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3,V4, V5	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
8330B DoD5	✓		RSD ≤15%, r≥ 0.99, ICV≤20%

1st Level Reviewer: YPH Date: 4/13/2015.

2nd Level Reviewer: V. Pikart Date: 4/14/15

Comments:

TestAmerica Laboratories
Worklist Report

Worklist Name: Ngu 04-22-2015 Worklist Number: 21236
Instrument Name: PDA1 Chrom Method: NGu Primary
Injection Volume: 50.00 Units: ul
Analysis Type: Semi VOA
Batch Directory: \\SACChrom\ChromData\PDA1\20150422-21236.b
Upload Directory: \\CORPTALSAPP02\320-WS-RawData\Organics\LC\PDA1

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021236-001	# 1 Primer		Client		sv	1.000000	mL	1.000000
320-0021236-002	# 2 Primer		Client		sv	1.000000	mL	1.000000
320-0021236-003	# 3 CCVL	HPNQL2_00008	CCVL		sv	1.000000	mL	1.000000
320-0021236-004	# 4 CCV 05	HPNQL5_00008	CCVRT		sv	1.000000	mL	1.000000
320-0021236-005	# 5 MB 320-71482/1-A		MB		sv	1.000000	mL	1.000000
320-0021236-006	# 6 LCS 320-71482/2-A		LCS		sv	1.000000	mL	1.000000
320-0021236-007	# 7 240-49071-E-2-D		Client		sv	1.000000	mL	1.000000
320-0021236-008	# 8 240-49071-E-2-E MS		MS		sv	1.000000	mL	1.000000
320-0021236-009	# 9 240-49071-E-2-F MSD		MSD		sv	1.000000	mL	1.000000
320-0021236-010	#10 240-49171-C-6-B		Client		sv	1.000000	mL	1.000000
320-0021236-011	#11 240-49171-C-8-B		Client		sv	1.000000	mL	1.000000
320-0021236-012	#12 240-49171-C-10-B		Client		sv	1.000000	mL	1.000000
320-0021236-013	#13 240-49233-C-4-B		Client		sv	1.000000	mL	1.000000
320-0021236-014	#14 240-49233-C-6-B		Client		sv	1.000000	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021236-015	#15 240-49233-C-8-B		Client		sv	1.000000	mL	1.000000
320-0021236-016	#16 CCV 04	HPNQL4_00009	CCV		sv	1.000000	mL	1.000000
320-0021236-017	#17 CCVL	HPNQL2_00008	CCVL		sv	1.000000	mL	1.000000

Solid SW-846-3500 Analysis Sheet

BA

(To Accompany Samples to Instruments)

Batch Number: 320-71482

Analyst: Arauz, Horacio J

Batch Open: 4/20/2015 2:50:00PM

Method Code: 320-8330_P_2g-320

Batch End: 4-21-15 1045

Sieve and Ultrasonic Water Bath Extraction (Explosives)

	Input Sample Lab ID (Analytical Method)	SDG	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-71482/1 N/A	N/A	2.00 g	10.00 mL	N/A	N/A	N/A		MB 320-71482/1-A
2	LCS~320-71482/2 N/A	N/A	2.00 g	10.00 mL	N/A	N/A	N/A		LCS 320-71482/2-A
3	240-49071-E-2 (8330_NGu)	CC 79 Area 8	2.03 g	10.00 mL	4/24/15	12_Days	4		240-49071-E-2-D
4	240-49071-E-2~MS (8330_NGu)	CC 79 Area 8	2.00 g	10.00 mL	4/24/15	12_Days	4		240-49071-E-2-E MS
5	240-49071-E-2~MSD (8330_NGu)	CC 79 Area 8	2.00 g	10.00 mL	4/24/15	12_Days	4		240-49071-E-2-F MSD
6	240-49171-C-6 (8330_NGu)	N/A	2.02 g	10.00 mL	4/27/15	12_Days	4		240-49171-C-6-B
7	240-49171-C-8 (8330_NGu)	N/A	2.04 g	10.00 mL	4/27/15	12_Days	4		240-49171-C-8-B
8	240-49171-C-10 (8330_NGu)	N/A	2.02 g	10.00 mL	4/27/15	12_Days	4		240-49171-C-10-B
9	240-49233-C-4 (8330_NGu)	N/A	2.04 g	10.00 mL	4/28/15	12_Days	4		240-49233-C-4-B
10	240-49233-C-6 (8330_NGu)	N/A	2.00 g	10.00 mL	4/28/15	12_Days	4		240-49233-C-6-B
11	240-49233-C-8 (8330_NGu)	N/A	2.00 g	10.00 mL	4/28/15	12_Days	4		240-49233-C-8-B

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71482

Analyst: Arauz, Horacio J

Batch Open: 4/20/2015 2:50:00PM

Method Code: 320-8330_P_2g-320

Batch End:

Batch Notes

Balance ID	NA
Blank Sand Lot #	FISHER 142675
Solvent Name	1.3g/l CaCL2
Solvent Lot #	NA
Filter Type	.45um Millipore
Filter Lot #	R4NA21509
Pipette ID	EC15219
Person's name who witnessed reagent drop	SNE
Pipette ID for Solvent	11-Z-0728
Sonication Start Date	4-20-15
Sonication Start Time	15:00
Sonication End Date	4-21-15
Sonication Stop Time	09:00
Minimum Temperature	11
Maximum Temperature	24
Minumum Temperature	NA
Calcium Chloride Reagent ID	397482
Date Sample was Dried	NA
Date Sample was Ground	NA
Date Dilution Performed	NA
Analytst performing Dilution	NA

Page 2135 of 2751

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71482 Analyst: Arauz, Horacio J Batch Open: 4/20/2015 2:50:00PM

Method Code: 320-8330_P_2g-320 Batch End:

Date of Clean up	4-21-15
Analyst performed Clean Up	HJA
SOP Number	WS-LC-0010
Batch Comment	

Comments

240-49071-E-2	Method Comments: samples have been dried
240-49071-E-2~MS	Method Comments: samples have been dried
240-49071-E-2~MSD	Method Comments: samples have been dried
240-49171-C-6	Method Comments: samples have been dried
240-49171-C-8	Method Comments: samples have been dried
240-49171-C-10	Method Comments: samples have been dried
240-49233-C-4	Method Comments: samples have been dried
240-49233-C-6	Method Comments: samples have been dried
240-49233-C-8	Method Comments: samples have been dried

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71482 Analyst: Arauz, Horacio J Batch Open: 4/20/2015 2:50:00PM

Method Code: 320-8330_P_2g-320 Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 320-71482/2	HPNQSP_00018	40 uL	10.00 mL	HJA 4-20-15	SNE 4/20/15
240-49071-E-2 MS	HPNQSP_00018	40 uL	10.00 mL	↓	↓
240-49071-E-2 MSD	HPNQSP_00018	40 uL	10.00 mL	↓	↓

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-71482 Test: NQ-S

Earliest Holding Time: 4-22-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	1st Level Reviewer	2nd Level Reviewer
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed correctly in TALS	NA	NA
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	1st Level Reviewer	2nd Level Reviewer
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HJA Date: 4-21-15

2nd Level Reviewer: SNE Date: 4/21/15

Comments:

Method 8330B

Nitroaromatics and Nitramines (HPLC) by Method 8330B

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low

GC Column (1): Synergi C18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	DNT1 #
079SS-0342M-0001,0002-SO	240-49071-2	89
	MB 320-71481/1-A	90
	LCS 320-71481/2-A	92
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	93
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	90

	QC LIMITS
DNT = 3,4-Dinitrotoluene	78-118

Column to be used to flag recovery values

FORM II 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: W000006.D

Lab ID: LCS 320-71481/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.500	0.465	93	79-119	
4-Amino-2,6-dinitrotoluene	0.500	0.460	92	81-121	
1,3-Dinitrobenzene	0.500	0.471	94	81-121	
2,4-Dinitrotoluene	0.500	0.470	94	79-119	
2,6-Dinitrotoluene	0.500	0.469	94	79-119	
HMX	0.500	0.463	93	80-120	
Nitrobenzene	0.500	0.475	95	80-120	
Nitroglycerin	1.00	1.00	100	76-116	
2-Nitrotoluene	0.500	0.471	94	78-118	
3-Nitrotoluene	0.500	0.470	94	77-117	
4-Nitrotoluene	0.500	0.471	94	78-118	
PETN	1.00	0.975	98	76-116	
RDX	0.500	0.463	93	82-122	
Tetryl	0.500	0.472	94	63-120	
1,3,5-Trinitrobenzene	0.500	0.468	94	81-121	
2,4,6-Trinitrotoluene	0.500	0.470	94	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: W000008.D

Lab ID: 240-49071-2 MS Client ID: 079SS-0342M-0001,0002-SO MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.500	0.050 U	0.459	92	79-119	
4-Amino-2,6-dinitrotoluene	0.500	0.050 U	0.435	87	81-121	
1,3-Dinitrobenzene	0.500	0.050 U	0.467	93	81-121	
2,4-Dinitrotoluene	0.500	0.050 U	0.466	93	79-119	M
2,6-Dinitrotoluene	0.500	0.050 U	0.475	95	79-119	M
HMX	0.500	0.050 U	0.455	91	80-120	
Nitrobenzene	0.500	0.050 U	0.475	95	80-120	
Nitroglycerin	1.00	0.25 U	0.992	99	76-116	
2-Nitrotoluene	0.500	0.050 U	0.464	93	78-118	M
3-Nitrotoluene	0.500	0.050 U	0.494	99	77-117	
4-Nitrotoluene	0.500	0.050 U	0.487	97	78-118	
PETN	1.00	0.25 U	0.985	98	76-116	
RDX	0.500	0.050 U	0.441	88	82-122	
Tetryl	0.500	0.050 U	0.463	93	63-120	
1,3,5-Trinitrobenzene	0.500	0.050 U	0.470	94	81-121	
2,4,6-Trinitrotoluene	0.500	0.050 U	0.471	94	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Level: Low Lab File ID: W000009.D

Lab ID: 240-49071-2 MSD Client ID: 079SS-0342M-0001,0002-SO MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-Amino-4,6-dinitrotoluene	0.502	0.454	91	1	20	79-119	
4-Amino-2,6-dinitrotoluene	0.502	0.429	86	2	20	81-121	
1,3-Dinitrobenzene	0.502	0.471	94	1	20	81-121	
2,4-Dinitrotoluene	0.502	0.469	94	1	20	79-119	
2,6-Dinitrotoluene	0.502	0.472	94	1	20	79-119	
HMX	0.502	0.459	92	1	20	80-120	
Nitrobenzene	0.502	0.472	94	1	20	80-120	
Nitroglycerin	1.00	1.01	101	2	20	76-116	
2-Nitrotoluene	0.502	0.472	94	2	20	78-118	
3-Nitrotoluene	0.502	0.473	94	4	20	77-117	
4-Nitrotoluene	0.502	0.471	94	3	20	78-118	
PETN	1.00	0.996	99	1	20	76-116	
RDX	0.502	0.442	88	0	20	82-122	
Tetryl	0.502	0.465	93	0	20	63-120	
1,3,5-Trinitrobenzene	0.502	0.473	94	1	20	81-121	
2,4,6-Trinitrotoluene	0.502	0.469	94	0	20	65-105	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: MB 320-71481/1-A

Matrix: Solid Date Extracted: 04/18/2015 14:00

Lab File ID:(1) W000005.D Lab File ID:(2)

Date Analyzed:(1) 04/23/2015 18:16 Date Analyzed:(2)

Instrument ID:(1) LC10 Instrument ID:(2)

GC Column:(1) Synergi C18 ID: 4.6(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 320-71481/2-A	04/23/2015 19:00	
079SS-0342M-0001,0002-SO	240-49071-2	04/23/2015 19:44	
079SS-0342M-0001,0002-SO MS	240-49071-2 MS	04/23/2015 20:27	
079SS-0342M-0001,0002-SO MSD	240-49071-2 MSD	04/23/2015 21:11	

FORM VIII
HPLC/IC ANALYTICAL SEQUENCE

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Sample No.: CCV 320-71988/4 Date Analyzed: 04/23/2015 17:33

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm)

Lab File ID (Standard): W000004.D Heated Purge: (Y/N) N

Calibration ID: 12193

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				DNT RT #		
CONTINUING CALIBRATION SURROGATE				16.65		
UPPER LIMIT				16.90		
LOWER LIMIT				16.40		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 320-71988/4 CCVRT		04/23/2015 17:33	W000004.D	16.65		
MB 320-71481/1-A		04/23/2015 18:16	W000005.D	16.66		
LCS 320-71481/2-A		04/23/2015 19:00	W000006.D	16.66		
240-49071-2	079SS-0342M-0001,0002 -SO	04/23/2015 19:44	W000007.D	16.65		
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/23/2015 20:27	W000008.D	16.65		
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/23/2015 21:11	W000009.D	16.64		
CCV 320-71988/23		04/24/2015 03:00	W000017.D	16.65		
CCVL 320-71988/24		04/24/2015 03:43	W000018.D	16.61		

DNT = 3,4-Dinitrotoluene

DNT RT Limit = ± 0.25 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8330B

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2

Matrix: Solid Lab File ID: W000007.D

Analysis Method: 8330B Date Collected: 04/06/2015 16:30

Extraction Method: 8330B Date Extracted: 04/18/2015 14:00

Sample wt/vol: 9.97(g) Date Analyzed: 04/23/2015 19:44

Con. Extract Vol.: 80.00(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 71988 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	89		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000007.D
Lims ID: 240-49071-E-2-A Lab Sample ID: 320-49071-2
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: Client
Inject. Date: 23-Apr-2015 19:44:04 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-007
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 27-Apr-2015 14:06:51 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK006

First Level Reviewer: huangyun Date: 27-Apr-2015 14:06:51

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene						
1	16.651	16.651	0.000	3737H	55.7	
2	16.128	16.224	-0.096	372H	2.77	

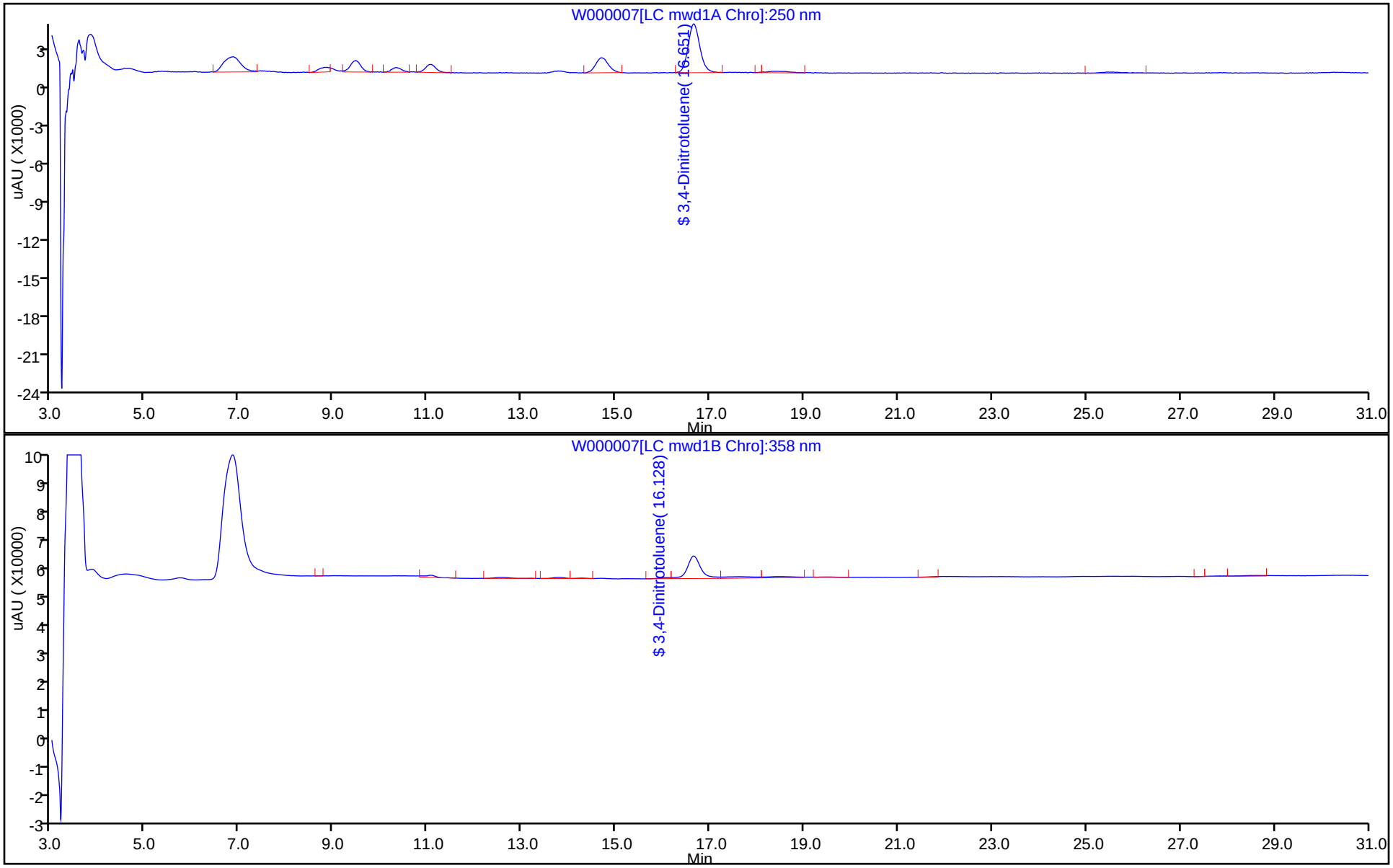
Report Date: 27-Apr-2015 14:06:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000007.D

Injection Date:	23-Apr-2015 19:44:04	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	240-49071-E-2-A	Lab Sample ID:	320-49071-2	Worklist Smp#:	7
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 67883

SDG No.: CC 79 Area 8

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-67883/4	J000007.D
Level 2	IC 320-67883/5	J000008.D
Level 3	IC 320-67883/6	J000009.D
Level 4	IC 320-67883/7	J000010.D
Level 5	IC 320-67883/8	J000011.D
Level 6	IC 320-67883/9	J000012.D
Level 7	IC 320-67883/10	J000013.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
HMX	5.154	5.152	5.154	5.149	5.149	5.146	5.137				4.899 - 5.399	5.149
RDX	7.407	7.405	7.404	7.406	7.405	7.396	7.377				7.156 - 7.656	7.400
Ethylene glycol dinitrate	+++++	+++++	8.051	8.056	8.055	8.046	8.030				7.806 - 8.306	8.048
Picric acid	+++++	8.612	8.591	8.579	8.569	8.516	8.460				8.329 - 8.829	8.555
1,3,5-Trinitrobenzene	9.620	9.622	9.621	9.623	9.622	9.613	9.597				9.373 - 9.873	9.617
1,3-Dinitrobenzene	12.210	12.212	12.204	12.209	12.209	12.199	12.180				11.959 - 12.459	12.203
3,5-Dinitroaniline	12.930	12.928	12.924	12.929	12.925	12.919	12.900				12.679 - 13.179	12.922
Tetryl	13.440	13.462	13.447	13.449	13.445	13.449	13.434				13.199 - 13.699	13.447
Nitrobenzene	13.937	13.925	13.937	13.939	13.932	13.926	13.904				13.689 - 14.189	13.929
Nitroglycerin	+++++	+++++	14.744	14.749	14.742	14.746	14.727				14.499 - 14.999	14.742
2,4,6-Trinitrotoluene	15.427	15.452	15.441	15.443	15.435	15.443	15.424				15.193 - 15.693	15.438
4-Amino-2,6-dinitrotoluene	16.087	16.092	16.084	16.093	16.082	16.089	16.064				15.843 - 16.343	16.084
2-Amino-4,6-dinitrotoluene	16.920	16.945	16.941	16.949	16.935	16.943	16.914				16.699 - 17.199	16.935
2,6-Dinitrotoluene	18.497	18.525	18.537	18.526	18.512	18.526	18.497				18.276 - 18.776	18.517
2,4-Dinitrotoluene	19.064	19.068	19.077	19.093	19.079	19.086	19.057				18.843 - 19.343	19.075
2-Nitrotoluene	22.414	22.438	22.431	22.463	22.452	22.459	22.424				22.213 - 22.713	22.440
4-Nitrotoluene	24.054	24.068	24.074	24.083	24.089	24.093	24.057				23.833 - 24.333	24.074
3-Nitrotoluene	25.844	25.842	25.834	25.843	25.845	25.853	25.817				25.593 - 26.093	25.840
PETN		+++++	28.334	28.309	28.302	28.326	28.304				28.059 - 28.559	28.315
3,4-Dinitrotoluene	16.527	16.525	16.531	16.539	16.529	16.536	16.517				16.289 - 16.789	16.529

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 67883

SDG No.: CC 79 Area 8

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-67883/4	J000007.D
Level 2	IC 320-67883/5	J000008.D
Level 3	IC 320-67883/6	J000009.D
Level 4	IC 320-67883/7	J000010.D
Level 5	IC 320-67883/8	J000011.D
Level 6	IC 320-67883/9	J000012.D
Level 7	IC 320-67883/10	J000013.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
HMX	167.00 143.18	149.60 150.42	143.30 132.72	143.54	Ave		147.107571				7.1		20.0			
RDX	121.40 97.200	109.00 99.700	99.350 83.334	99.720	Ave		101.386286				11.5		20.0			
Ethylene glycol dinitrate	+++++ 123.64	+++++ 124.51	126.45 105.84	122.92	Ave		120.671000				7.0		20.0			
Picric acid	+++++ 136.38	129.55 133.02	131.78 117.19	136.17	Ave		130.681167				5.4		20.0			
1,3,5-Trinitrobenzene	219.60 189.07	201.50 197.44	191.25 172.03	190.38	Ave		194.466714				7.4		20.0			
1,3-Dinitrobenzene	214.60 181.38	195.70 187.98	183.15 162.39	182.56	Ave		186.822857				8.5		20.0			
3,5-Dinitroaniline	140.20 119.60	128.60 124.12	120.80 107.18	120.56	Ave		123.007286				8.1		20.0			
Tetryl	123.60 107.25	113.80 113.60	108.65 102.94	107.16	Ave		110.999286				6.1		20.0			
Nitrobenzene	98.400 81.410	88.800 84.615	83.000 73.490	81.600	Ave		84.4735714				9.1		20.0			
Nitroglycerin	+++++ 77.150	+++++ 78.790	80.100 72.308	74.820	Ave		76.6336000				4.1		20.0			
2,4,6-Trinitrotoluene	129.20 109.70	116.30 115.70	110.75 104.35	109.58	Ave		113.653286				7.0		20.0			
4-Amino-2,6-dinitrotoluene	105.00 88.190	94.800 92.310	90.200 81.802	88.300	Ave		91.5145714				7.9		20.0			
2-Amino-4,6-dinitrotoluene	116.20 98.600	106.40 103.23	100.10 91.586	98.840	Ave		102.135857				7.5		20.0			
2,6-Dinitrotoluene	83.400 69.310	72.300 72.860	70.900 65.362	69.460	Ave		71.9417143				7.8		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 67883

SDG No.: CC 79 Area 8

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
2,4-Dinitrotoluene	134.80 114.42	119.30 120.39	116.40 107.92	114.76	Ave		118.283857				7.0		20.0			
2-Nitrotoluene	61.800 49.990	54.800 52.760	50.550 47.366	49.580	Ave		52.4065714				9.1		20.0			
4-Nitrotoluene	73.000 60.310	64.700 63.975	60.950 57.646	60.120	Ave		62.9572857				8.0		20.0			
3-Nitrotoluene	69.800 56.050	61.200 59.705	57.300 54.058	56.380	Ave		59.2132857				8.8		20.0			
PETN	 44.750	+++++ 45.925	44.800 43.490	43.240	Ave		44.4410000				2.5		20.0			
3,4-Dinitrotoluene	76.400 64.360	71.200 66.360	66.150 61.356	63.420	Ave		67.0351429				7.7		20.0			

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 67883

SDG No.: CC 79 Area 8

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-67883/4	J000007.D
Level 2	IC 320-67883/5	J000008.D
Level 3	IC 320-67883/6	J000009.D
Level 4	IC 320-67883/7	J000010.D
Level 5	IC 320-67883/8	J000011.D
Level 6	IC 320-67883/9	J000012.D
Level 7	IC 320-67883/10	J000013.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	Ave	835 30083	1496 66359	2866	7177	14318	5.00 200	10.0 500	20.0	50.0	100
RDX	Ave	607 19940	1090 41667	1987	4986	9720	5.00 200	10.0 500	20.0	50.0	100
Ethylene glycol dinitrate	Ave	+++++ 24901	+++++ 52920	2529	6146	12364	+++++ 200	+++++ 500	20.0	50.0	100
Picric acid	Ave	+++++ 66509	2591 117189	6589	13617	27276	+++++ 500	20.0 1000	50.0	100	200
1,3,5-Trinitrobenzene	Ave	1098 39487	2015 86016	3825	9519	18907	5.00 200	10.0 500	20.0	50.0	100
1,3-Dinitrobenzene	Ave	1073 37596	1957 81195	3663	9128	18138	5.00 200	10.0 500	20.0	50.0	100
3,5-Dinitroaniline	Ave	701 24823	1286 53588	2416	6028	11960	5.00 200	10.0 500	20.0	50.0	100
Tetryl	Ave	618 22719	1138 51470	2173	5358	10725	5.00 200	10.0 500	20.0	50.0	100
Nitrobenzene	Ave	492 16923	888 36745	1660	4080	8141	5.00 200	10.0 500	20.0	50.0	100
Nitroglycerin	Ave	+++++ 15758	+++++ 36154	1602	3741	7715	+++++ 200	+++++ 500	20.0	50.0	100
2,4,6-Trinitrotoluene	Ave	646 23139	1163 52174	2215	5479	10970	5.00 200	10.0 500	20.0	50.0	100
4-Amino-2,6-dinitrotoluene	Ave	525 18462	948 40901	1804	4415	8819	5.00 200	10.0 500	20.0	50.0	100
2-Amino-4,6-dinitrotoluene	Ave	581 20645	1064 45793	2002	4942	9860	5.00 200	10.0 500	20.0	50.0	100
2,6-Dinitrotoluene	Ave	417 14572	723 32681	1418	3473	6931	5.00 200	10.0 500	20.0	50.0	100
2,4-Dinitrotoluene	Ave	674 24077	1193 53961	2328	5738	11442	5.00 200	10.0 500	20.0	50.0	100

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1 Analy Batch No.: 67883

SDG No.: CC 79 Area 8

Instrument ID: LC10 GC Column: Synergi C18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2015 15:47 Calibration End Date: 03/11/2015 20:09 Calibration ID: 12193

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Nitrotoluene	Ave	309 10552	548 23683	1011	2479	4999	5.00 200	10.0 500	20.0	50.0	100
4-Nitrotoluene	Ave	365 12795	647 28823	1219	3006	6031	5.00 200	10.0 500	20.0	50.0	100
3-Nitrotoluene	Ave	349 11941	612 27029	1146	2819	5605	5.00 200	10.0 500	20.0	50.0	100
PETN	Ave	 9185	+++++ 21745	896	2162	4475	 200	+++++ 500	20.0	50.0	100
3,4-Dinitrotoluene	Ave	382 13272	712 30678	1323	3171	6436	5.00 200	10.0 500	20.0	50.0	100

Curve Type Legend:
Ave = Average by Height

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Mar-2015 15:47:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-004
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:20 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:16:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.149	0.005	835H	5.00	5.68	
19 RDX							M
1	7.407	7.406	0.001	607H	5.00	5.99	M
3 Ethylene glycol dinitrate							
2	8.054	8.056	-0.002	753H	5.00	6.24	
10 2,4,6-Trinitrophenol							
2	8.610	8.579	0.031	1410H	10.0	10.8	
1	8.607	8.579	0.028	996H	10.0	10.8	
27 1,3,5-Trinitrobenzene							
1	9.620	9.623	-0.003	1098H	5.00	5.65	
24 1,3-Dinitrobenzene							
1	12.210	12.209	0.001	1073H	5.00	5.74	
9 3,5-Dinitroaniline							
1	12.930	12.929	0.001	701H	5.00	5.70	
20 Tetryl							
1	13.440	13.449	-0.009	618H	5.00	5.57	
5 Nitrobenzene							
1	13.937	13.939	-0.002	492H	5.00	5.82	
7 Nitroglycerin							
2	14.744	14.749	-0.005	474H	5.00	6.19	
25 2,4,6-Trinitrotoluene							
1	15.427	15.443	-0.016	646H	5.00	5.68	
26 4-Amino-2,6-dinitrotoluene							
1	16.087	16.093	-0.006	525H	5.00	5.74	
$ 30 3,4-Dinitrotoluene							M
1	16.527	16.539	-0.012	382H	5.00	5.70	
2	16.504	16.539	-0.035	834H	5.00	6.21	M
6 2-Amino-4,6-dinitrotoluene							
1	16.920	16.949	-0.029	581H	5.00	5.69	
12 2,6-Dinitrotoluene							M
1	18.497	18.526	-0.029	417H	5.00	5.80	M

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							M
1	19.064	19.093	-0.029	674H	5.00	5.70	M
16 o-Nitrotoluene							M
1	22.414	22.463	-0.049	309H	5.00	5.90	M
15 p-Nitrotoluene							M
1	24.054	24.083	-0.029	365H	5.00	5.80	M
8 m-Nitrotoluene							M
1	25.844	25.843	0.001	349H	5.00	5.89	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L1_00021 Amount Added: 1.00 Units: mL

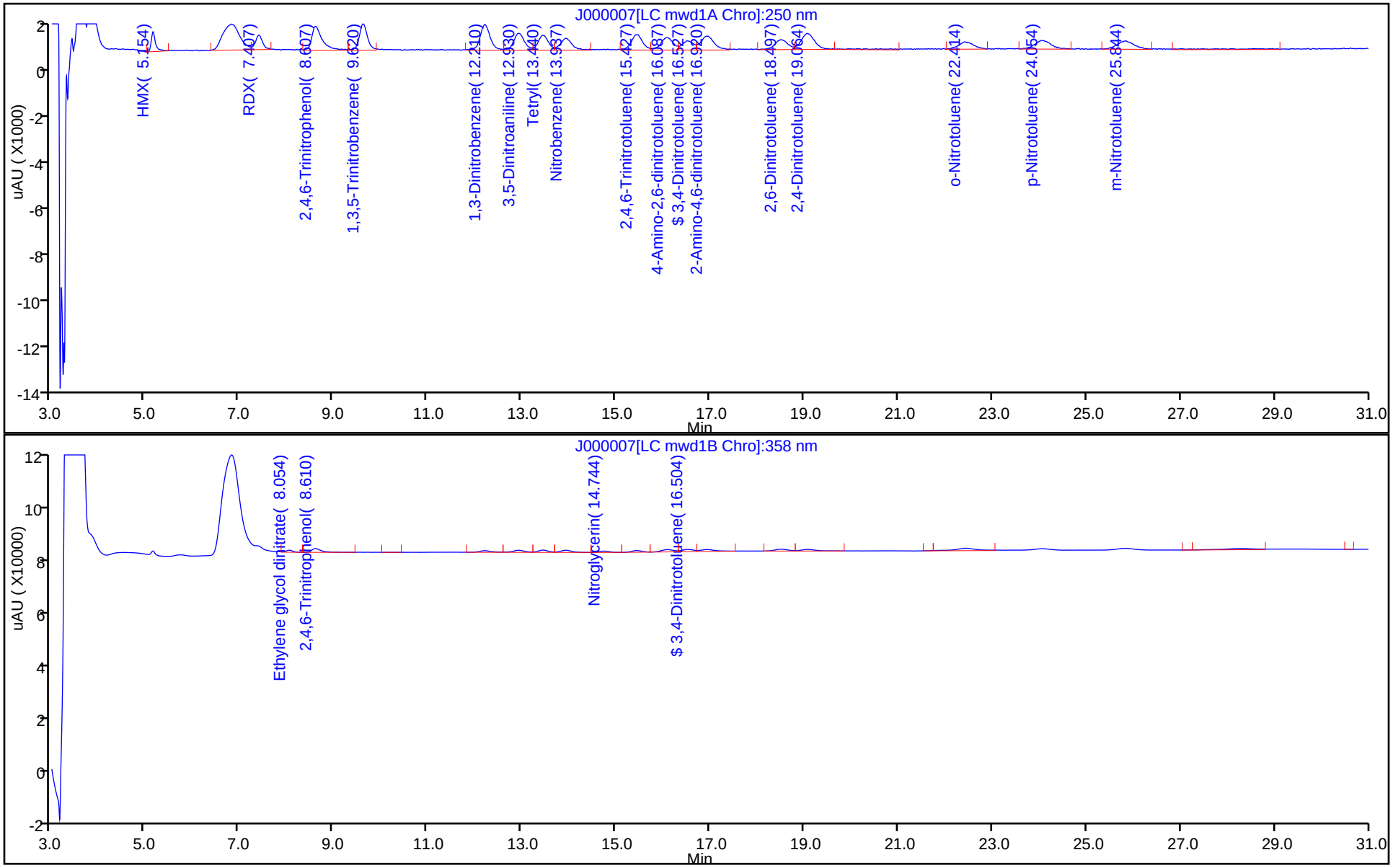
Report Date: 12-Mar-2015 11:12:21 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D

Injection Date:	11-Mar-2015 15:47:30	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 1			Worklist Smp#:	4
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

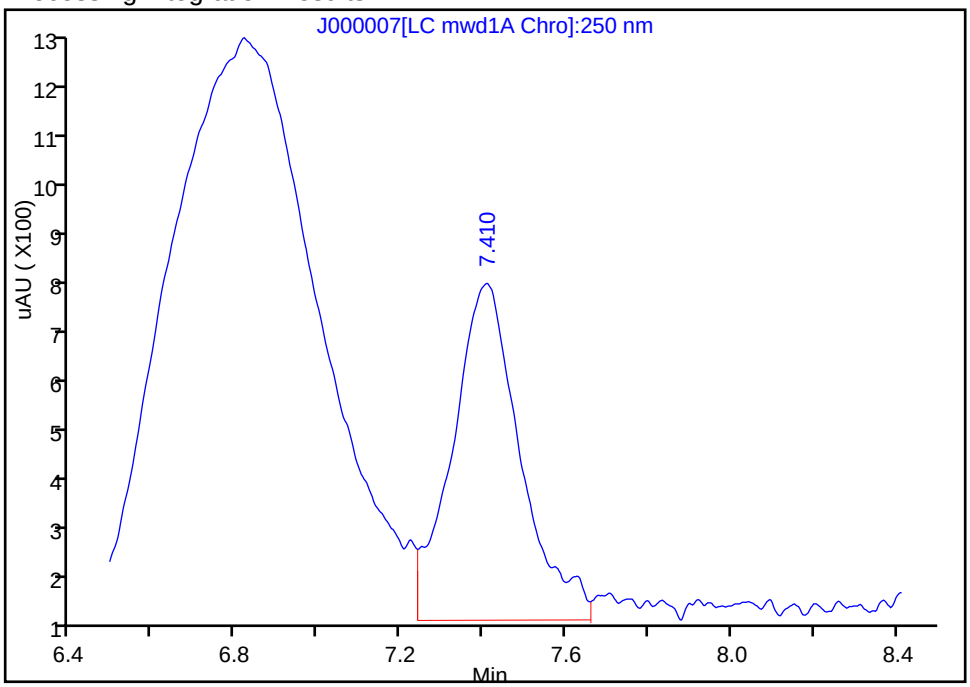
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

19 RDX, CAS: 121-82-4

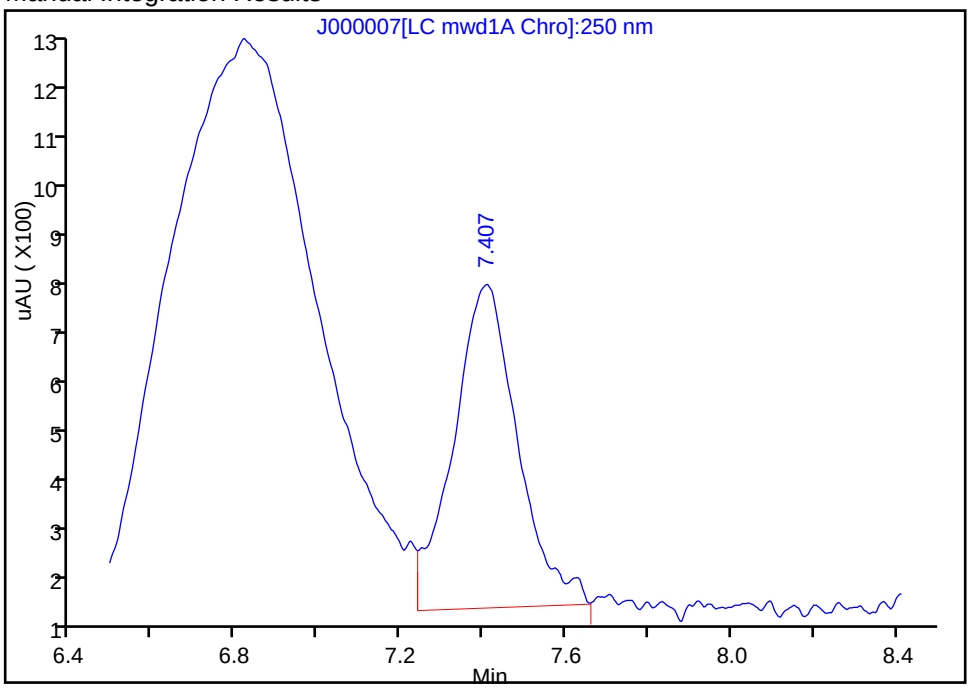
Processing Integration Results

RT: 7.41
Height: 632
Amount: 6.189975
Amount Units: ng/ml



Manual Integration Results

RT: 7.41
Height: 607
Amount: 5.987003
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

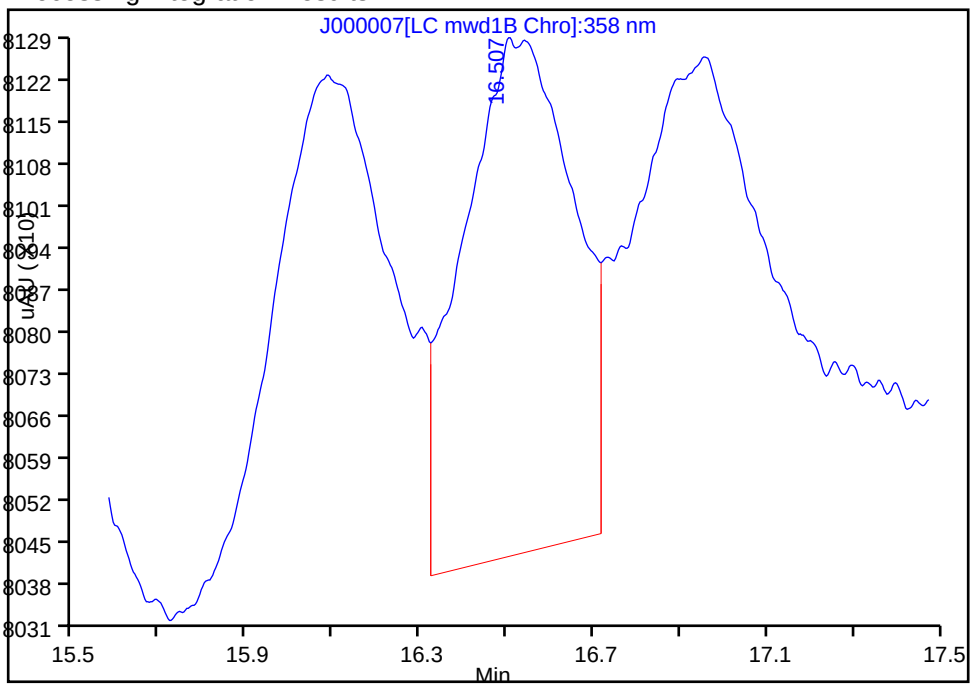
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

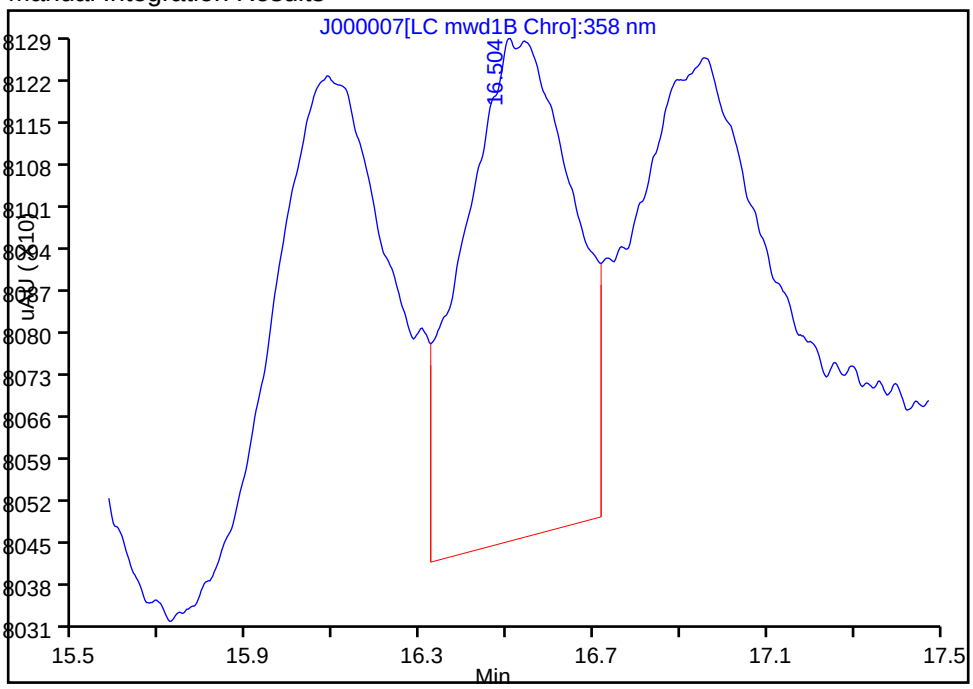
Processing Integration Results

RT: 16.51
Height: 860
Amount: 6.369750
Amount Units: ng/ml



Manual Integration Results

RT: 16.50
Height: 834
Amount: 6.211352
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

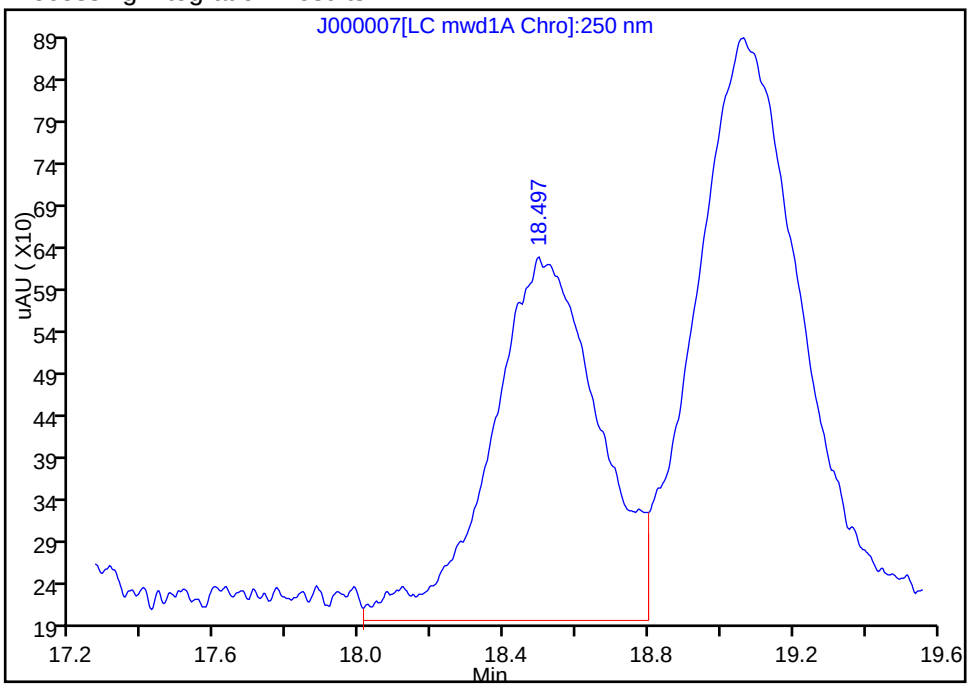
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

12 2,6-Dinitrotoluene, CAS: 606-20-2

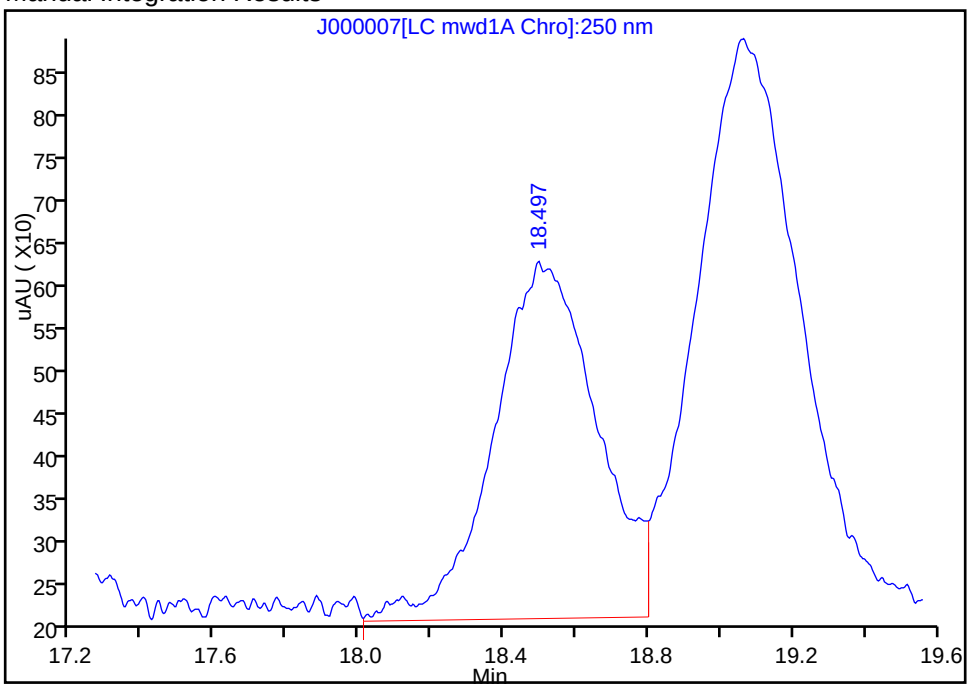
Processing Integration Results

RT: 18.50
Height: 431
Amount: 5.957835
Amount Units: ng/ml



Manual Integration Results

RT: 18.50
Height: 417
Amount: 5.796359
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

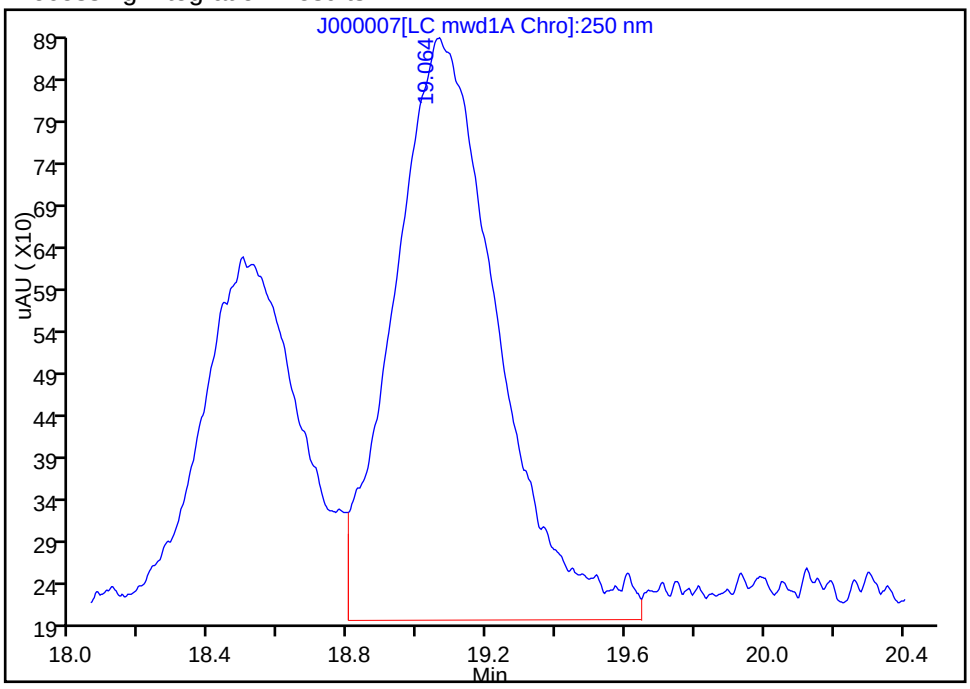
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

23 2,4-Dinitrotoluene, CAS: 121-14-2

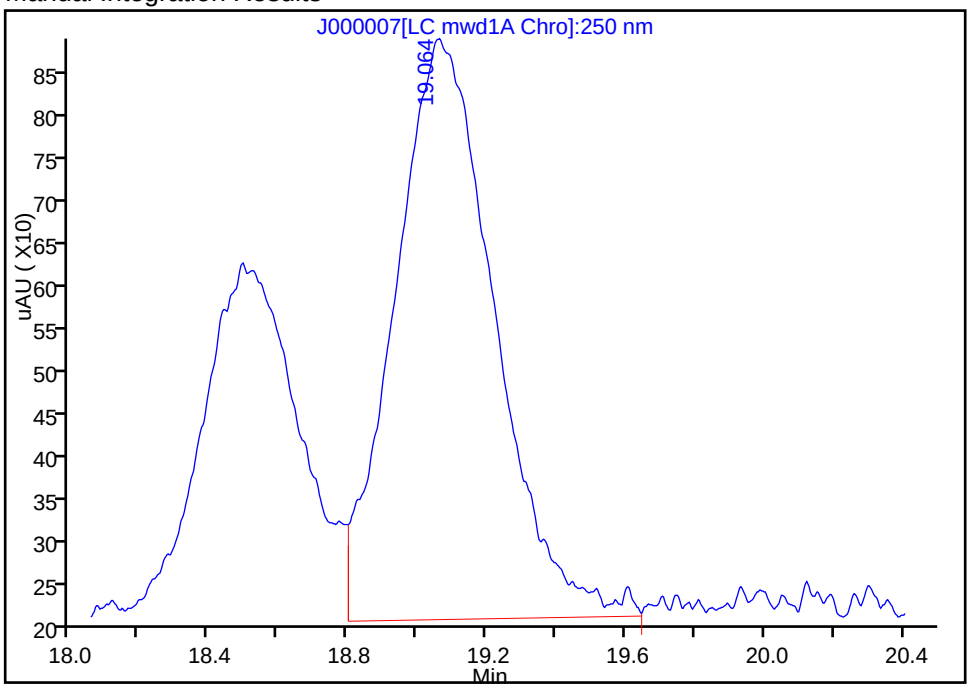
Processing Integration Results

RT: 19.06
Height: 691
Amount: 5.817988
Amount Units: ng/ml



Manual Integration Results

RT: 19.06
Height: 674
Amount: 5.698157
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

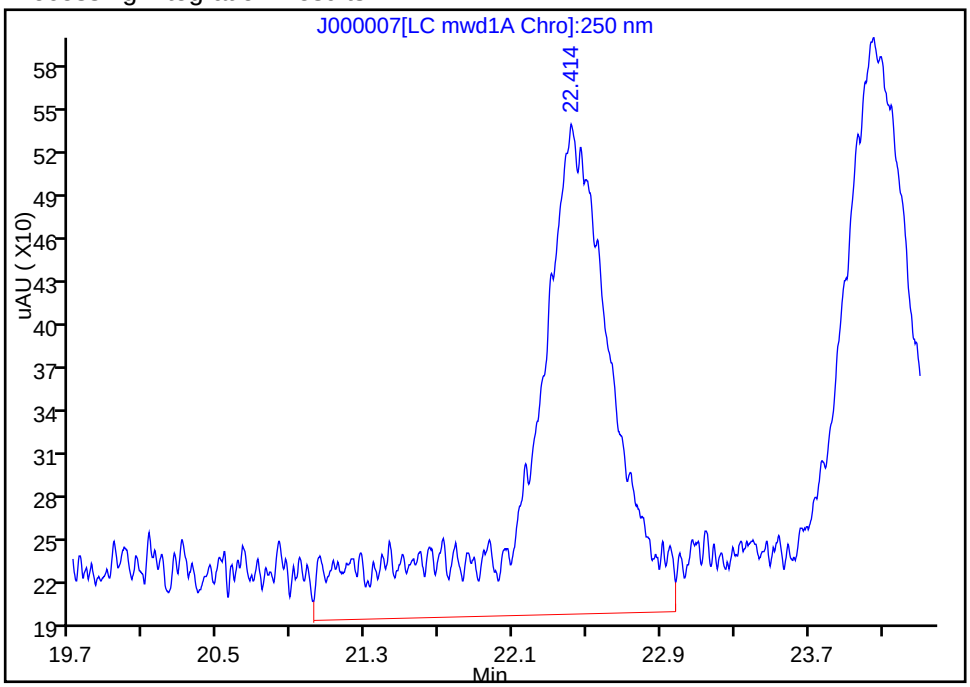
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D				
Injection Date:	11-Mar-2015 15:47:30	Instrument ID:	LC10		
Lims ID:	IC 1				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

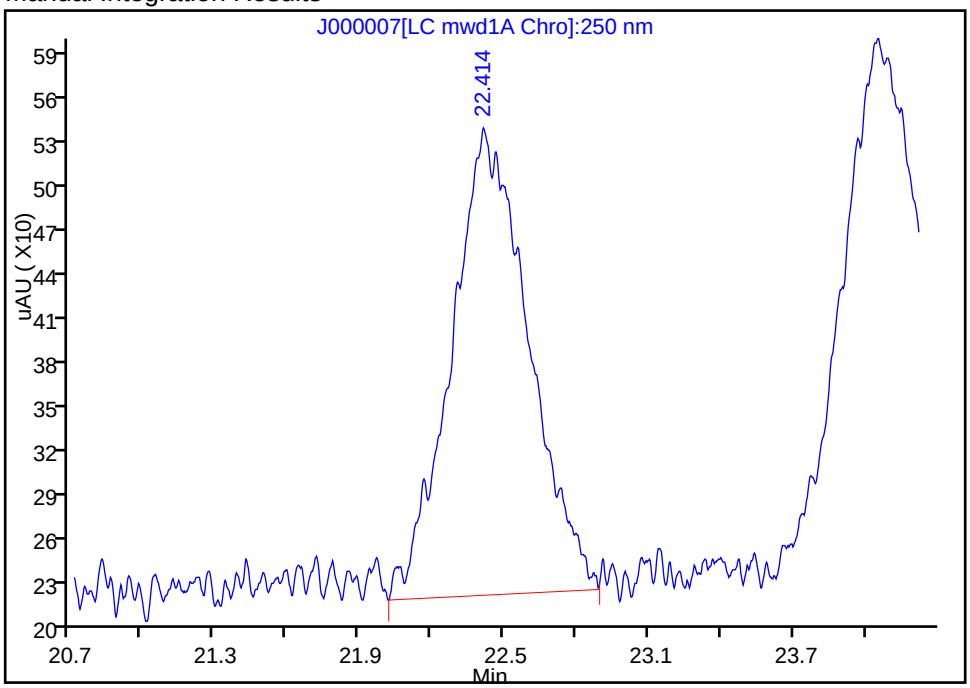
Processing Integration Results

RT: 22.41
Height: 335
Amount: 6.302984
Amount Units: ng/ml



Manual Integration Results

RT: 22.41
Height: 309
Amount: 5.896207
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

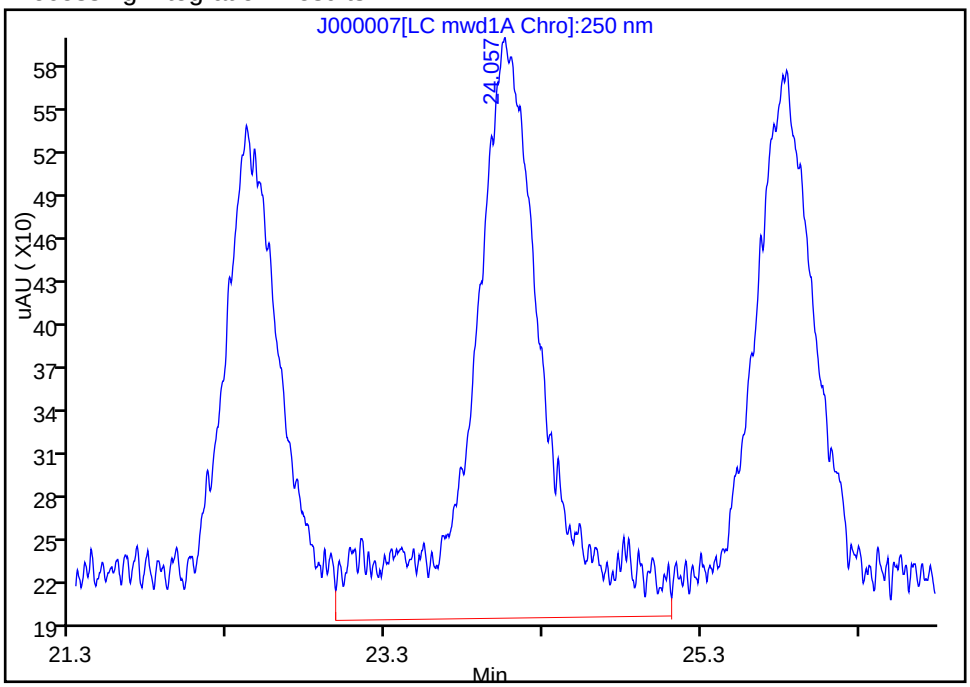
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

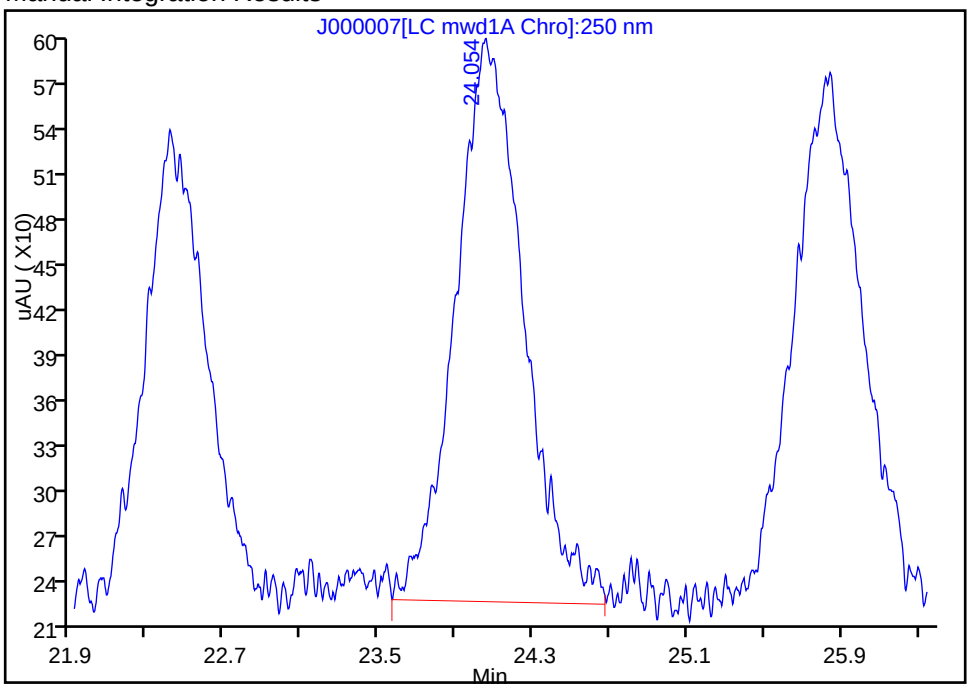
Processing Integration Results

RT: 24.06
Height: 391
Amount: 5.164403
Amount Units: ng/ml



Manual Integration Results

RT: 24.05
Height: 365
Amount: 5.797582
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

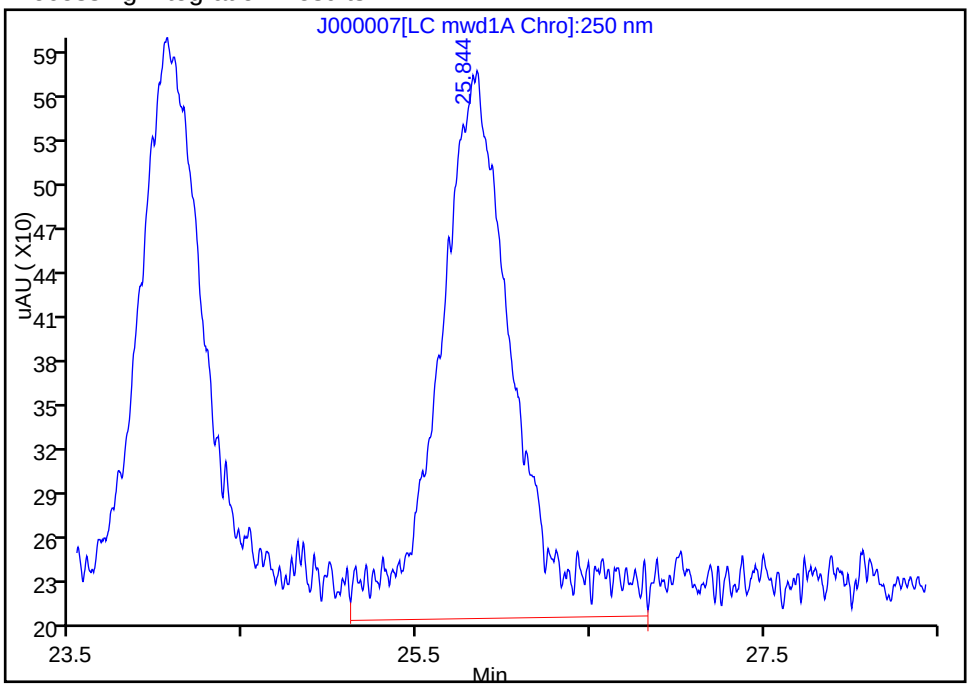
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000007.D
Injection Date: 11-Mar-2015 15:47:30 Instrument ID: LC10
Lims ID: IC 1
Client ID:
Operator ID: YPH ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

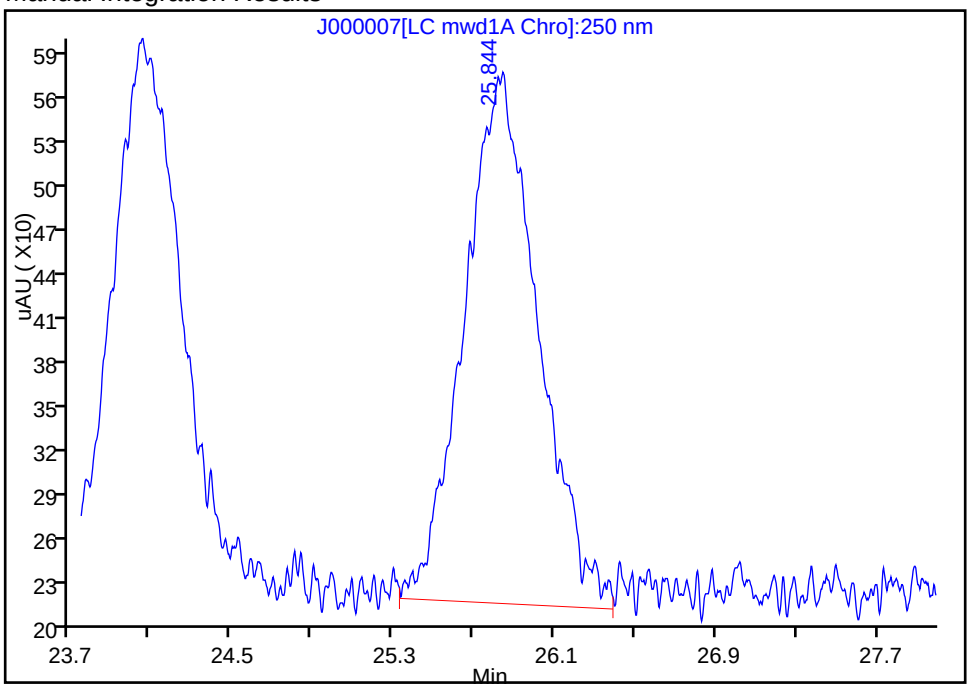
Processing Integration Results

RT: 25.84
Height: 366
Amount: 6.130756
Amount Units: ng/ml



Manual Integration Results

RT: 25.84
Height: 349
Amount: 5.893948
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:49:40
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Mar-2015 16:31:10 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-005
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:23 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:16:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.152	5.149	0.003	1496H	10.0	10.2	
19 RDX							M
1	7.405	7.406	-0.001	1090H	10.0	10.8	M
3 Ethylene glycol dinitrate							
2	8.055	8.056	-0.001	1385H	10.0	11.5	
10 2,4,6-Trinitrophenol							
2	8.612	8.579	0.033	2591H	20.0	19.8	
1	8.612	8.579	0.033	1837H	20.0	20.0	
27 1,3,5-Trinitrobenzene							
1	9.622	9.623	-0.001	2015H	10.0	10.4	
24 1,3-Dinitrobenzene							
1	12.212	12.209	0.003	1957H	10.0	10.5	
9 3,5-Dinitroaniline							
1	12.928	12.929	-0.001	1286H	10.0	10.5	
20 Tetryl							
1	13.462	13.449	0.013	1138H	10.0	10.3	
5 Nitrobenzene							
1	13.925	13.939	-0.014	888H	10.0	10.5	
7 Nitroglycerin							
2	14.748	14.749	-0.001	856H	10.0	11.2	
25 2,4,6-Trinitrotoluene							
1	15.452	15.443	0.009	1163H	10.0	10.2	
26 4-Amino-2,6-dinitrotoluene							
1	16.092	16.093	-0.001	948H	10.0	10.4	
$ 30 3,4-Dinitrotoluene							M
1	16.525	16.539	-0.014	712H	10.0	10.6	
2	16.532	16.539	-0.007	1546H	10.0	11.5	M
6 2-Amino-4,6-dinitrotoluene							
1	16.945	16.949	-0.004	1064H	10.0	10.4	
12 2,6-Dinitrotoluene							
1	18.525	18.526	-0.001	723H	10.0	10.0	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.068	19.093	-0.025	1193H	10.0	10.1	
16 o-Nitrotoluene							M
1	22.438	22.463	-0.025	548H	10.0	10.5	M
15 p-Nitrotoluene							M
1	24.068	24.083	-0.015	647H	10.0	10.3	M
8 m-Nitrotoluene							M
1	25.842	25.843	-0.001	612H	10.0	10.3	M
21 PETN							M
2	28.298	28.309	-0.011	480H	10.0	10.8	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L2_00015 Amount Added: 1.00 Units: mL

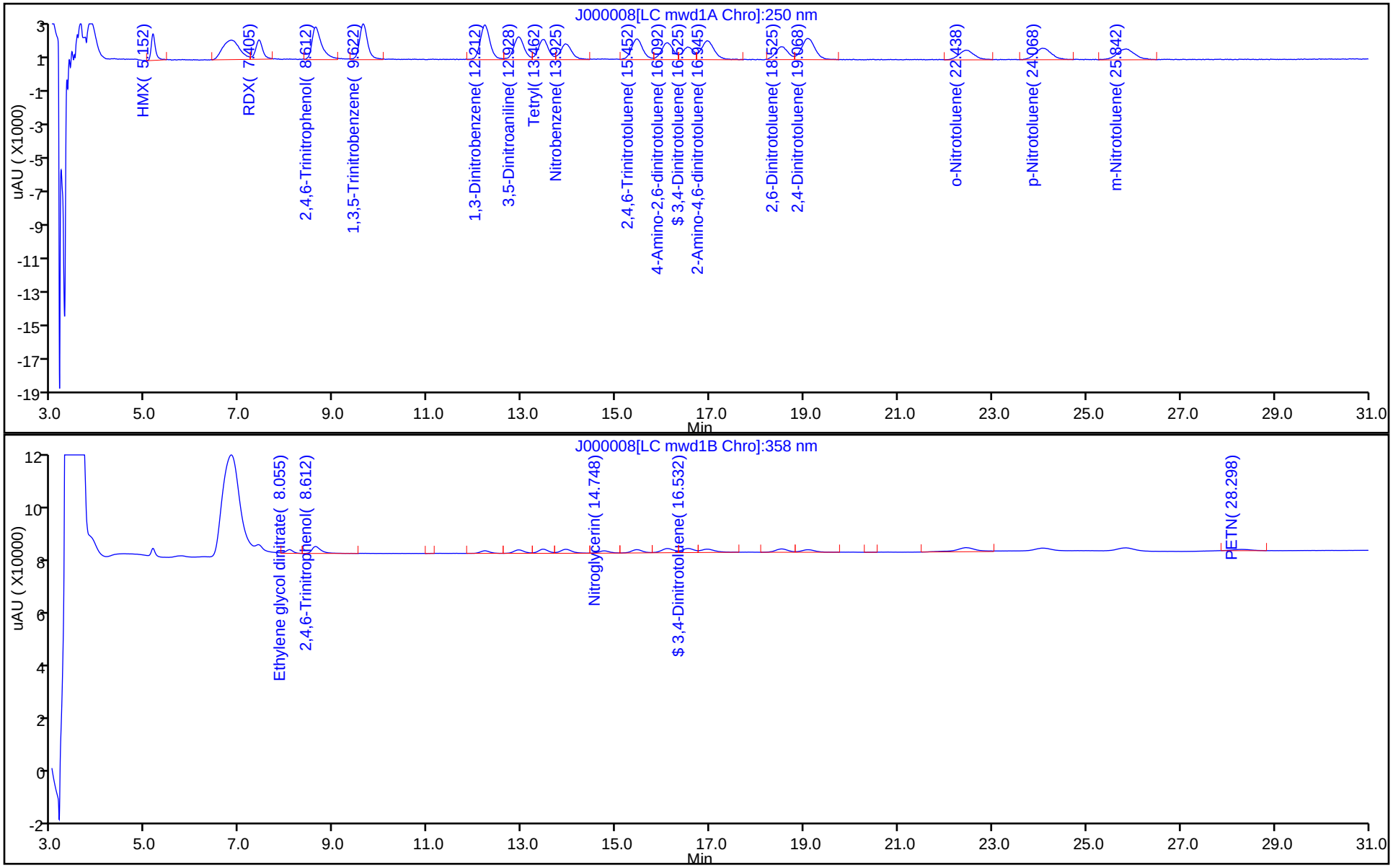
Report Date: 12-Mar-2015 11:12:24 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D

Injection Date:	11-Mar-2015 16:31:10	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

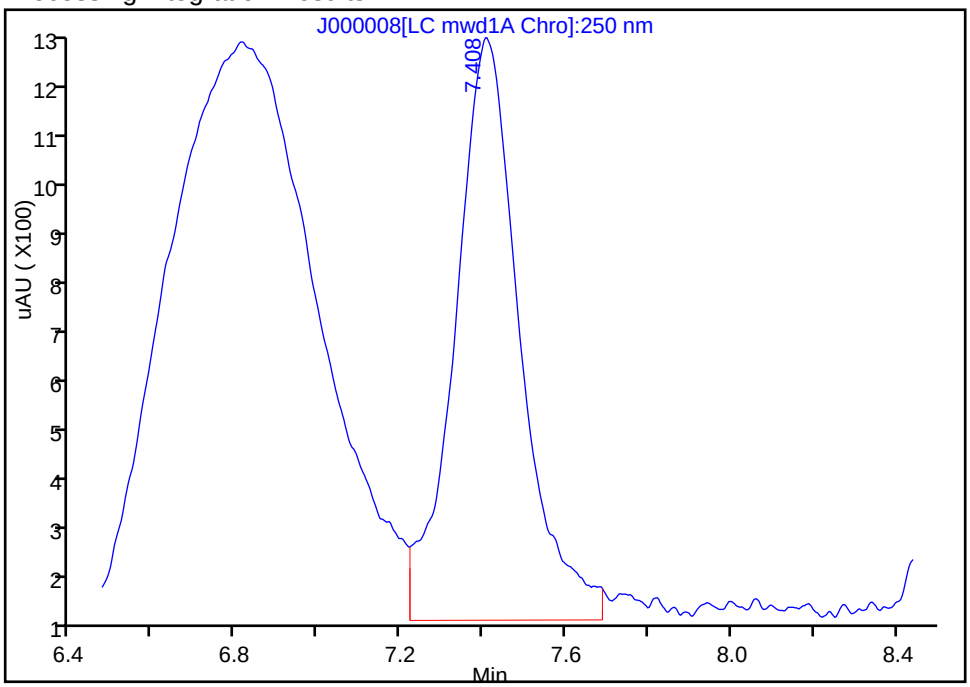
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D				
Injection Date:	11-Mar-2015 16:31:10	Instrument ID:	LC10		
Lims ID:	IC 2				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

19 RDX, CAS: 121-82-4

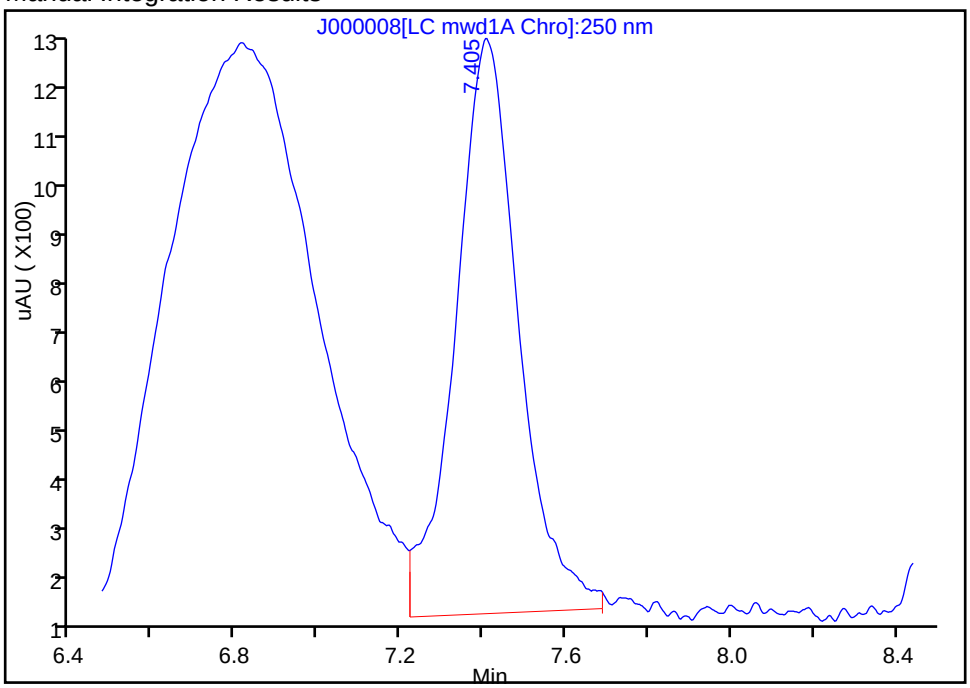
Processing Integration Results

RT: 7.41
Height: 1110
Amount: 10.898930
Amount Units: ng/ml



Manual Integration Results

RT: 7.40
Height: 1090
Amount: 10.750961
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

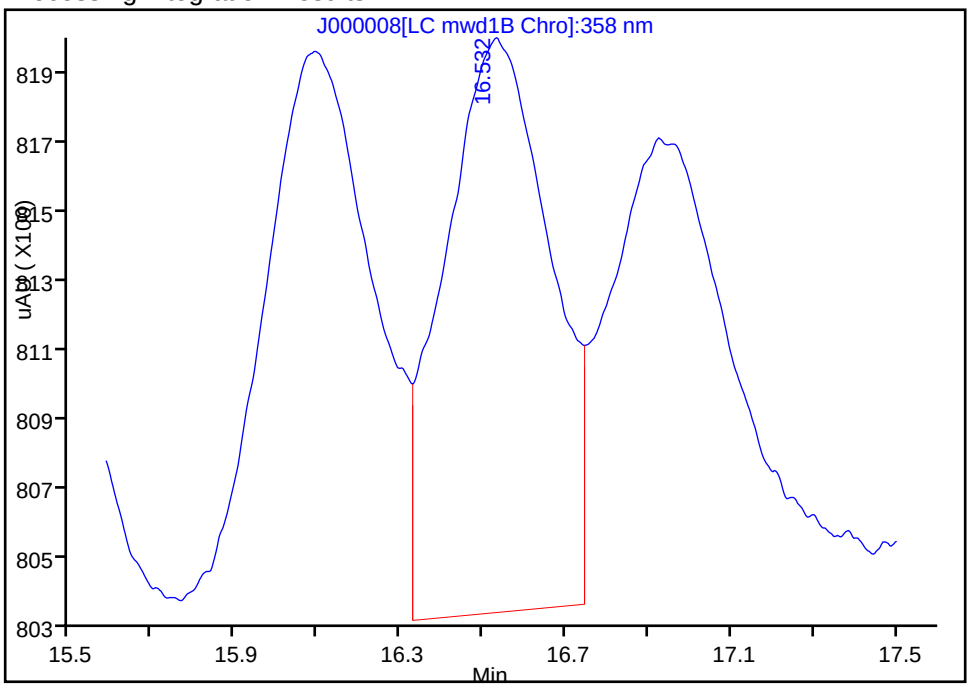
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

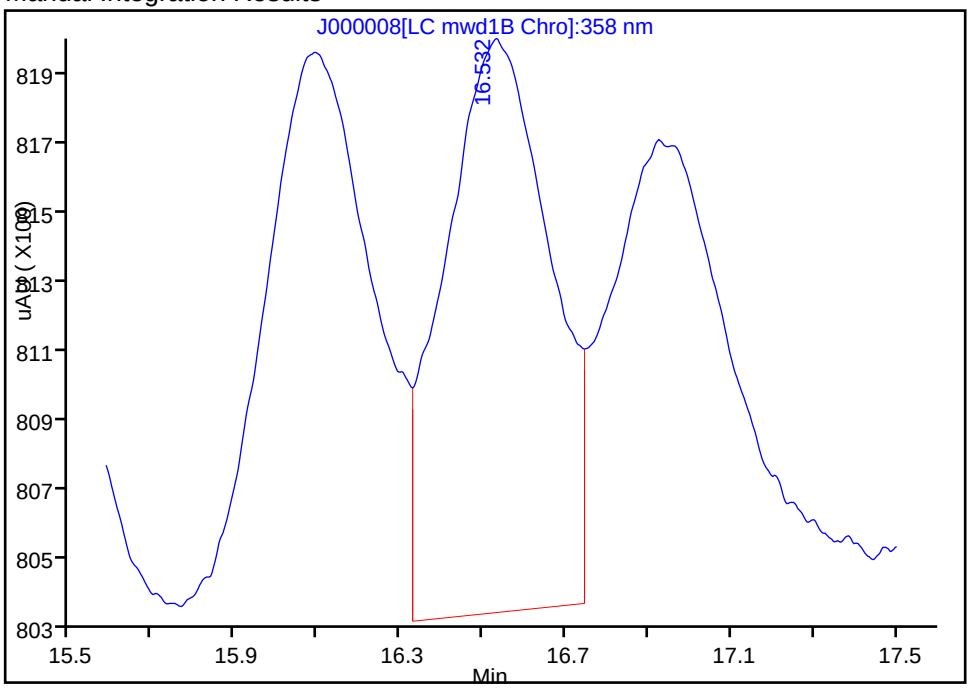
Processing Integration Results

RT: 16.53
Height: 1562
Amount: 11.549691
Amount Units: ng/ml



Manual Integration Results

RT: 16.53
Height: 1546
Amount: 11.514089
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:28:12
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

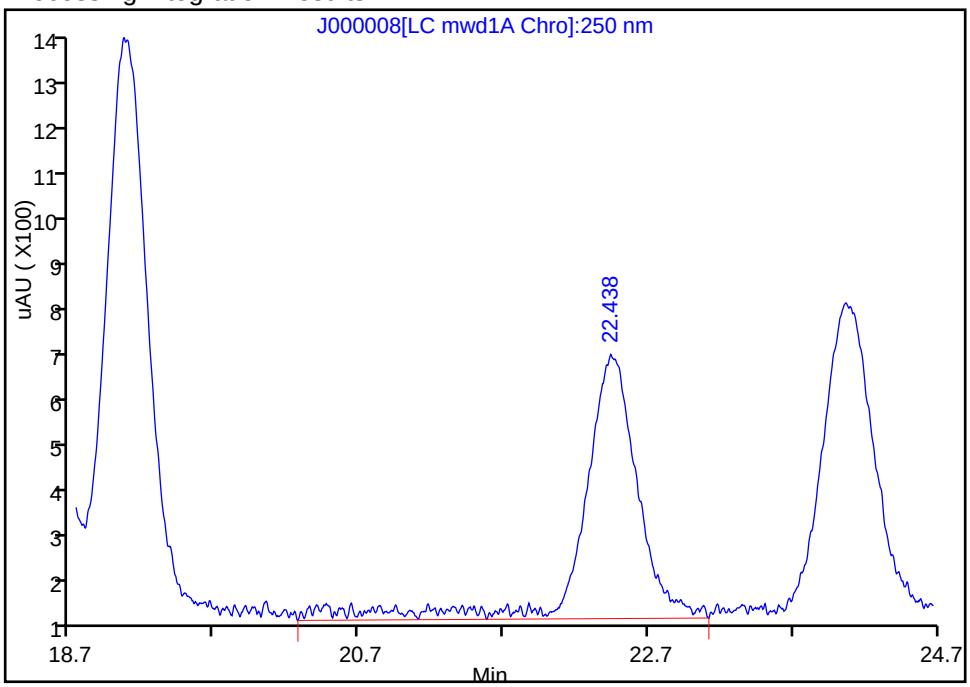
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

16 o-Nitrotoluene, CAS: 88-72-2

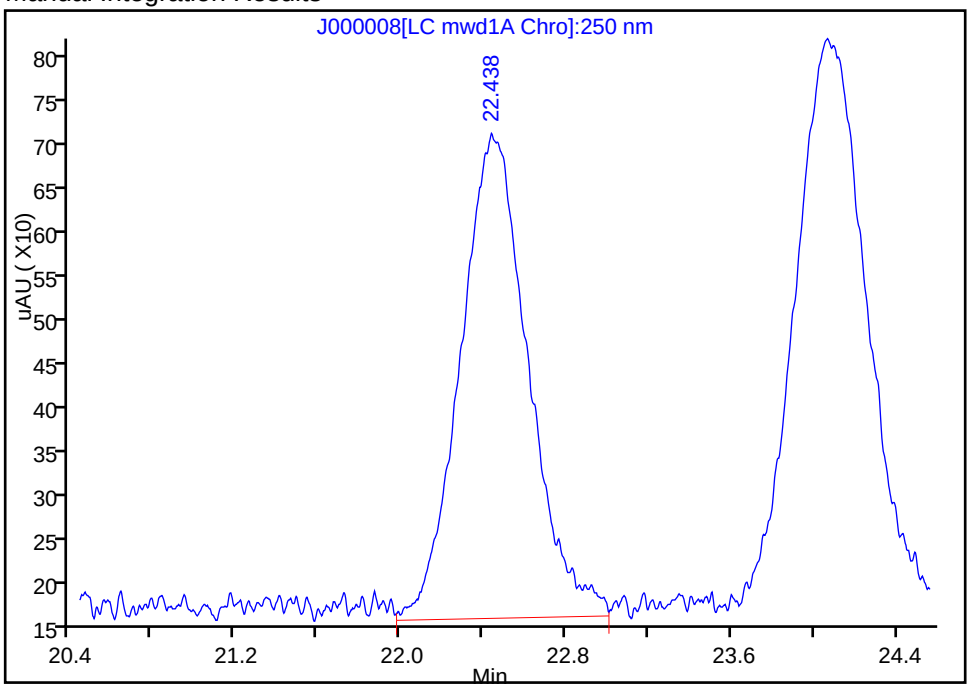
Processing Integration Results

RT: 22.44
Height: 550
Amount: 10.445182
Amount Units: ng/ml



Manual Integration Results

RT: 22.44
Height: 548
Amount: 10.456704
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

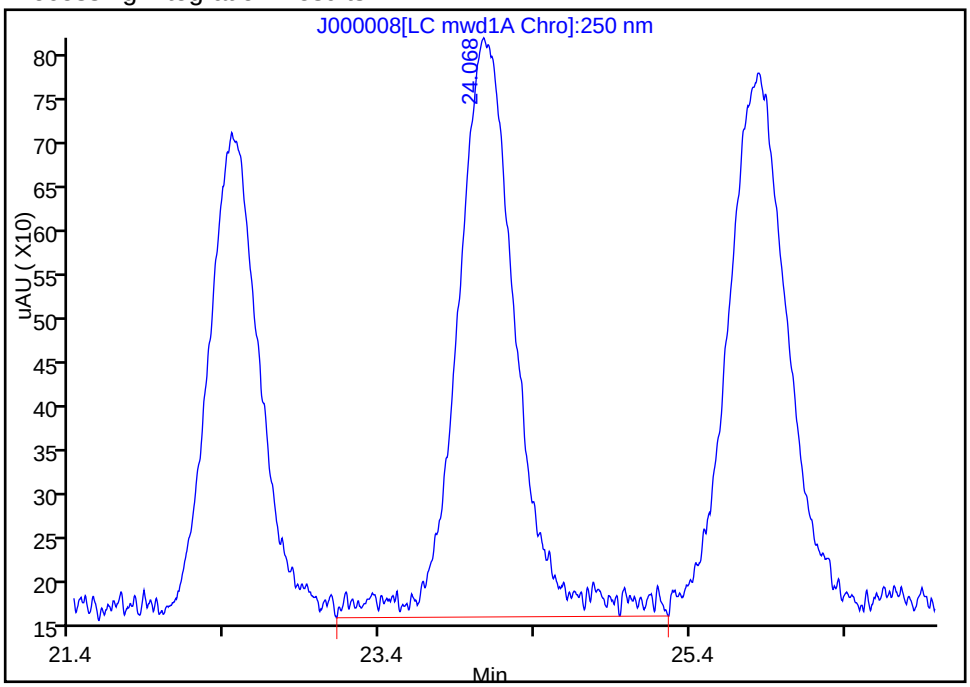
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D				
Injection Date:	11-Mar-2015 16:31:10	Instrument ID:	LC10		
Lims ID:	IC 2				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

15 p-Nitrotoluene, CAS: 99-99-0

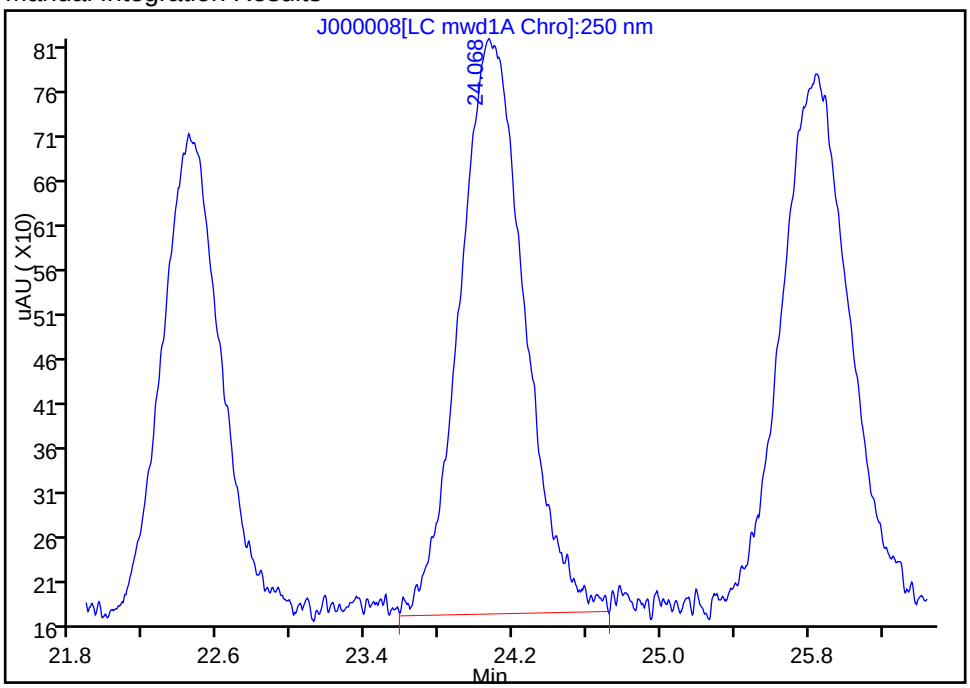
Processing Integration Results

RT: 24.07
Height: 655
Amount: 9.919489
Amount Units: ng/ml



Manual Integration Results

RT: 24.07
Height: 647
Amount: 10.276809
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

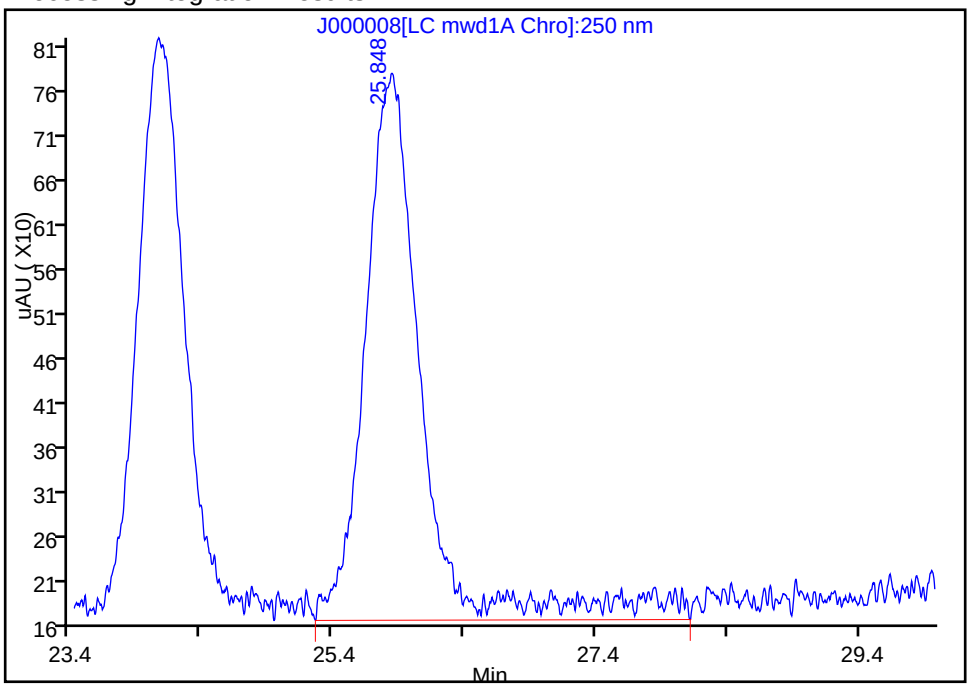
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

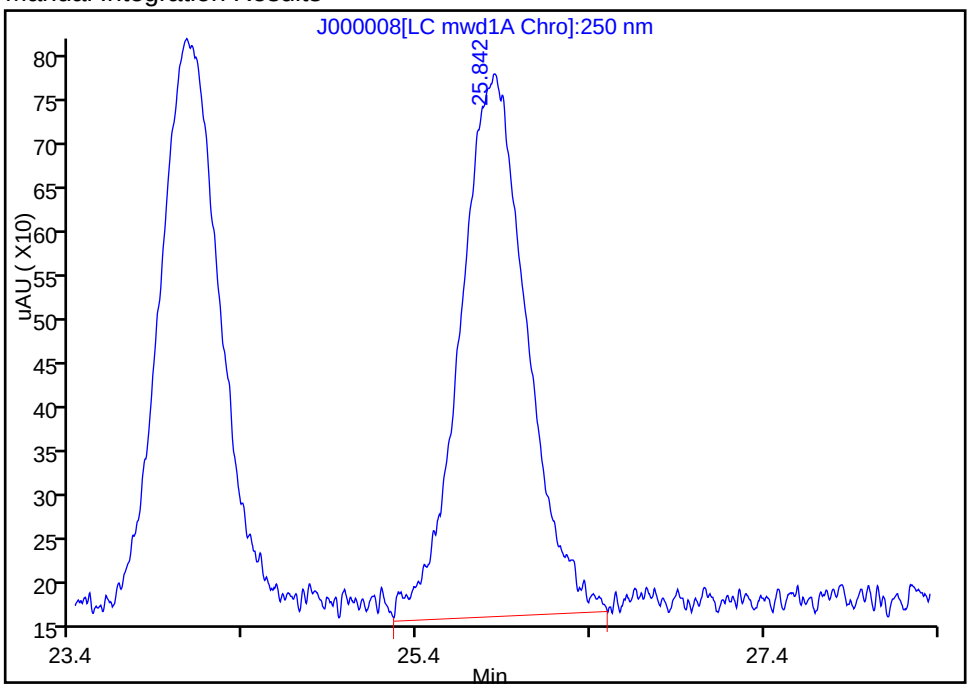
Processing Integration Results

RT: 25.85
Height: 613
Amount: 10.336820
Amount Units: ng/ml



Manual Integration Results

RT: 25.84
Height: 612
Amount: 10.335518
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:31:25
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

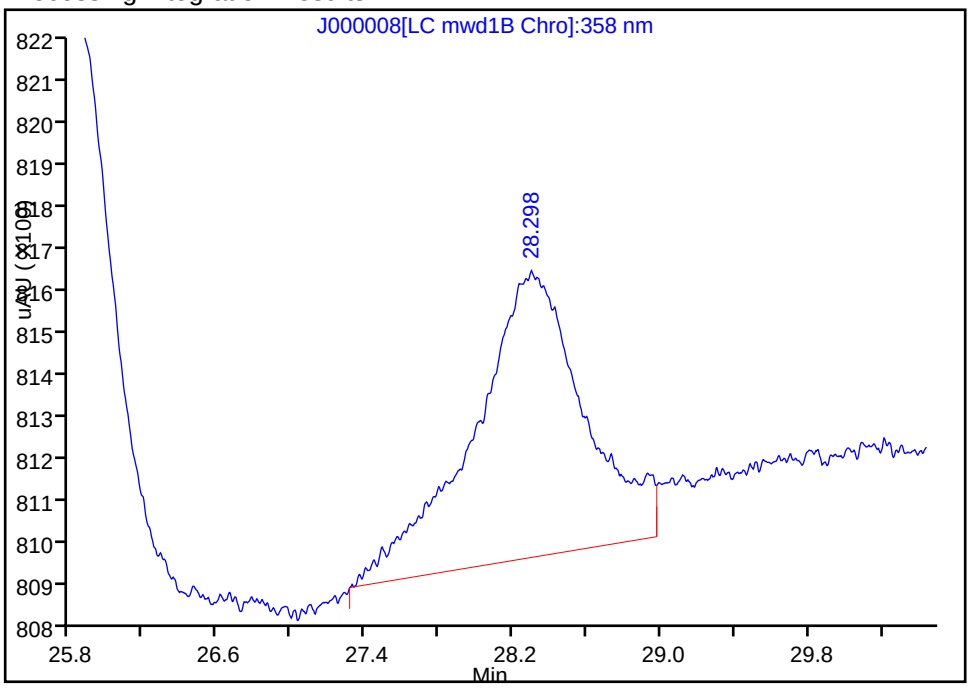
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000008.D
Injection Date: 11-Mar-2015 16:31:10 Instrument ID: LC10
Lims ID: IC 2
Client ID:
Operator ID: YPH ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

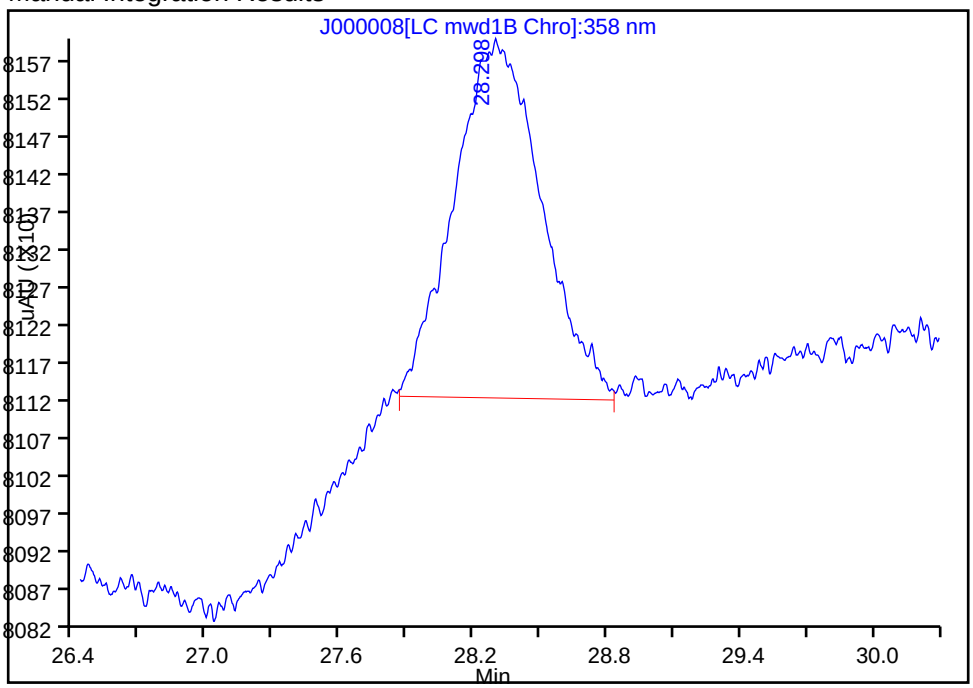
Processing Integration Results

RT: 28.30
Height: 638
Amount: 11.845997
Amount Units: ng/ml



Manual Integration Results

RT: 28.30
Height: 480
Amount: 10.800837
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:18:45
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Mar-2015 17:14:50 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-006
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:26 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:16:08

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.149	0.005	2866H	20.0	19.5	
19 RDX							M
1	7.404	7.406	-0.002	1987H	20.0	19.6	M
3 Ethylene glycol dinitrate							
2	8.051	8.056	-0.005	2529H	20.0	21.0	
10 2,4,6-Trinitrophenol							
2	8.591	8.579	0.012	6589H	50.0	50.4	
1	8.591	8.579	0.012	4565H	50.0	49.7	
27 1,3,5-Trinitrobenzene							
1	9.621	9.623	-0.002	3825H	20.0	19.7	
24 1,3-Dinitrobenzene							
1	12.204	12.209	-0.005	3663H	20.0	19.6	
9 3,5-Dinitroaniline							
1	12.924	12.929	-0.005	2416H	20.0	19.6	
20 Tetryl							
1	13.447	13.449	-0.002	2173H	20.0	19.6	
5 Nitrobenzene							
1	13.937	13.939	-0.002	1660H	20.0	19.7	
7 Nitroglycerin							
2	14.744	14.749	-0.005	1602H	20.0	20.9	
25 2,4,6-Trinitrotoluene							
1	15.441	15.443	-0.002	2215H	20.0	19.5	
26 4-Amino-2,6-dinitrotoluene							
1	16.084	16.093	-0.009	1804H	20.0	19.7	
$ 30 3,4-Dinitrotoluene							M
1	16.531	16.539	-0.008	1323H	20.0	19.7	
2	16.527	16.539	-0.012	2613H	20.0	19.5	M
6 2-Amino-4,6-dinitrotoluene							
1	16.941	16.949	-0.008	2002H	20.0	19.6	
12 2,6-Dinitrotoluene							
1	18.537	18.526	0.011	1418H	20.0	19.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.077	19.093	-0.016	2328H	20.0	19.7	
16 o-Nitrotoluene							M
1	22.431	22.463	-0.032	1011H	20.0	19.3	M
15 p-Nitrotoluene							M
1	24.074	24.083	-0.009	1219H	20.0	19.4	M
8 m-Nitrotoluene							M
1	25.834	25.843	-0.009	1146H	20.0	19.4	M
21 PETN							M
2	28.334	28.309	0.025	896H	20.0	20.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L3_00016 Amount Added: 1.00 Units: mL

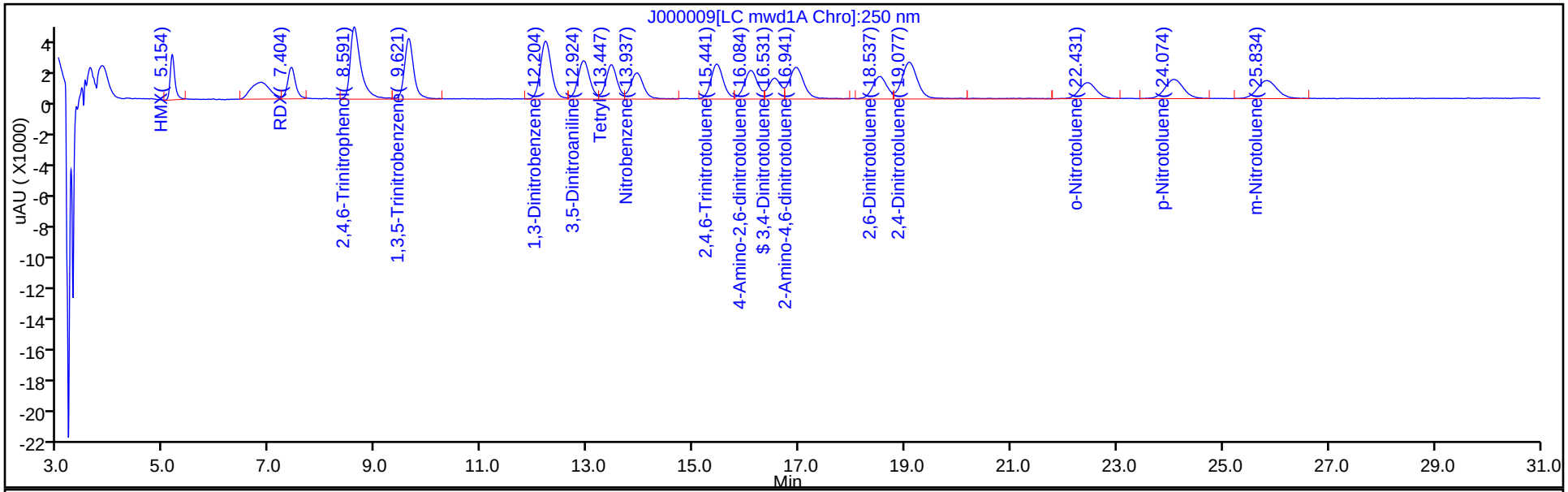
Report Date: 12-Mar-2015 11:12:27 Chrom Revision: 2.2 06-Mar-2015 13:13:48

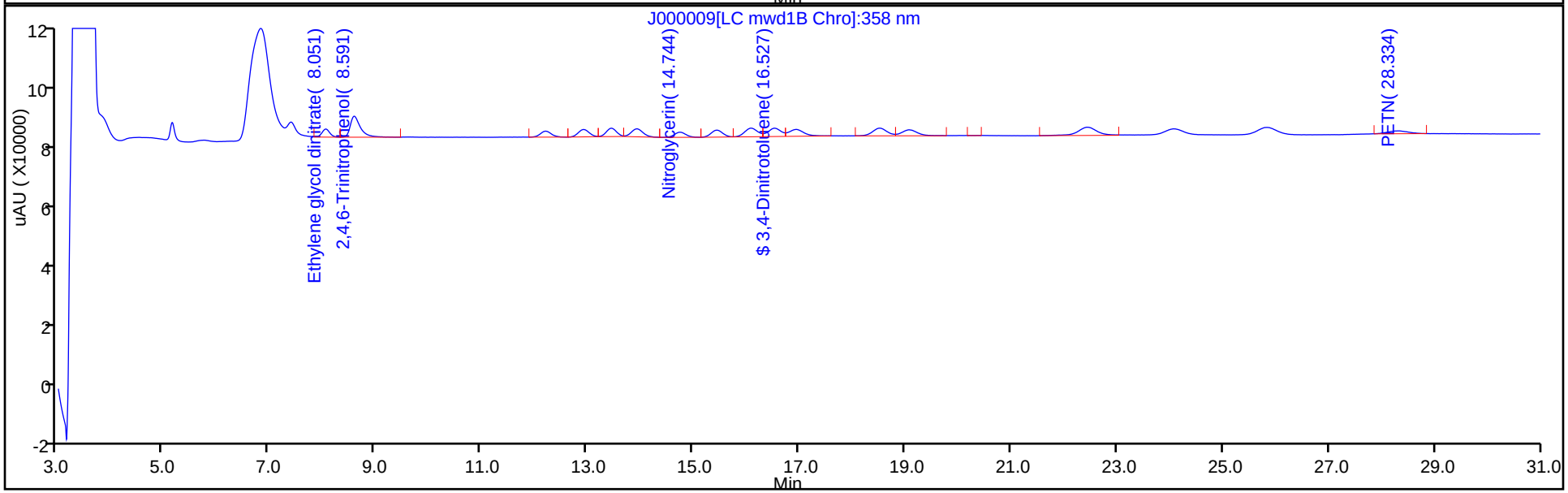
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D

Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

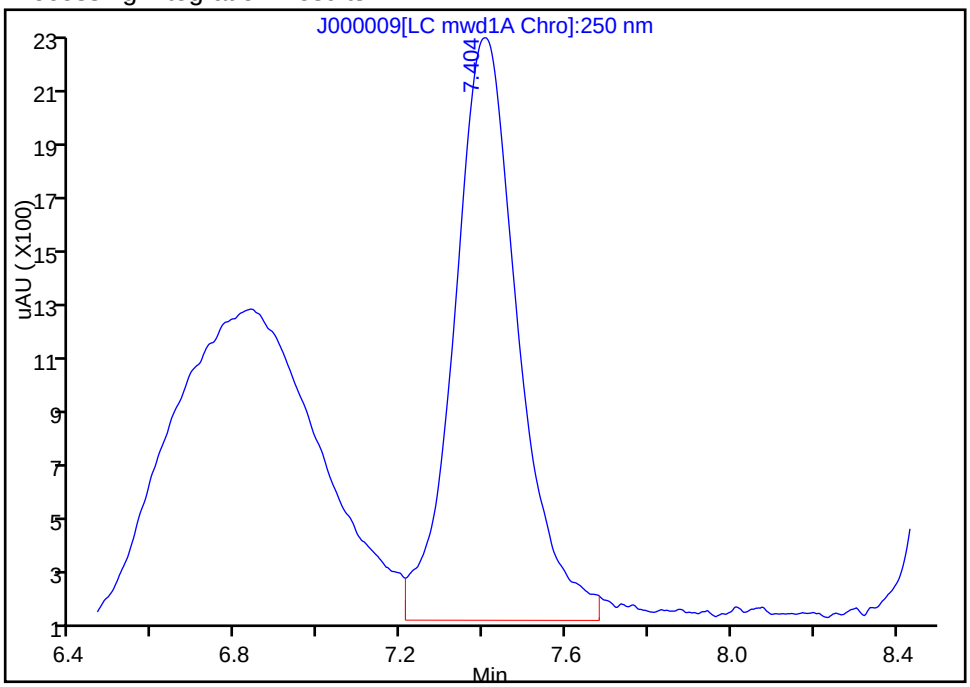
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D				
Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10		
Lims ID:	IC 3				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

19 RDX, CAS: 121-82-4

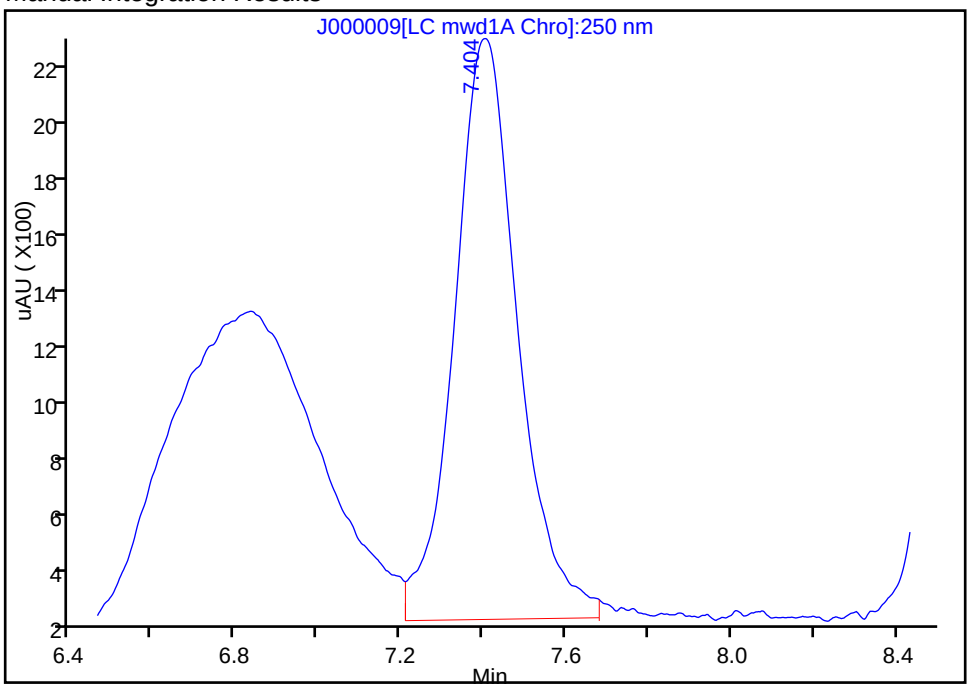
Processing Integration Results

RT: 7.40
Height: 2003
Amount: 19.722498
Amount Units: ng/ml



Manual Integration Results

RT: 7.40
Height: 1987
Amount: 19.598311
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:38:32
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

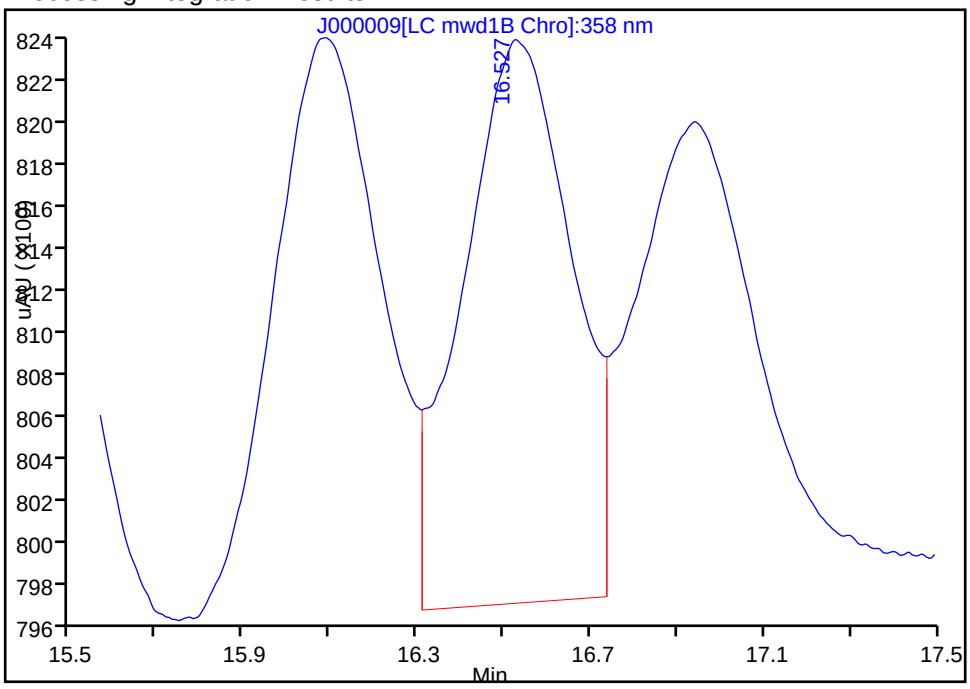
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

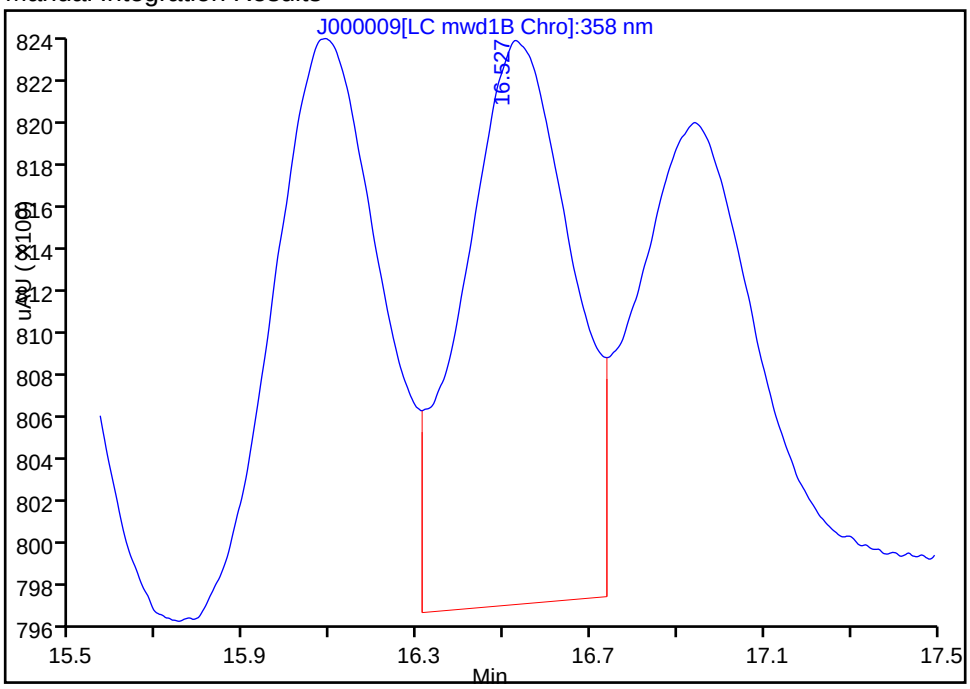
Processing Integration Results

RT: 16.53
Height: 2611
Amount: 19.308213
Amount Units: ng/ml



Manual Integration Results

RT: 16.53
Height: 2613
Amount: 19.460747
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:27:50
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

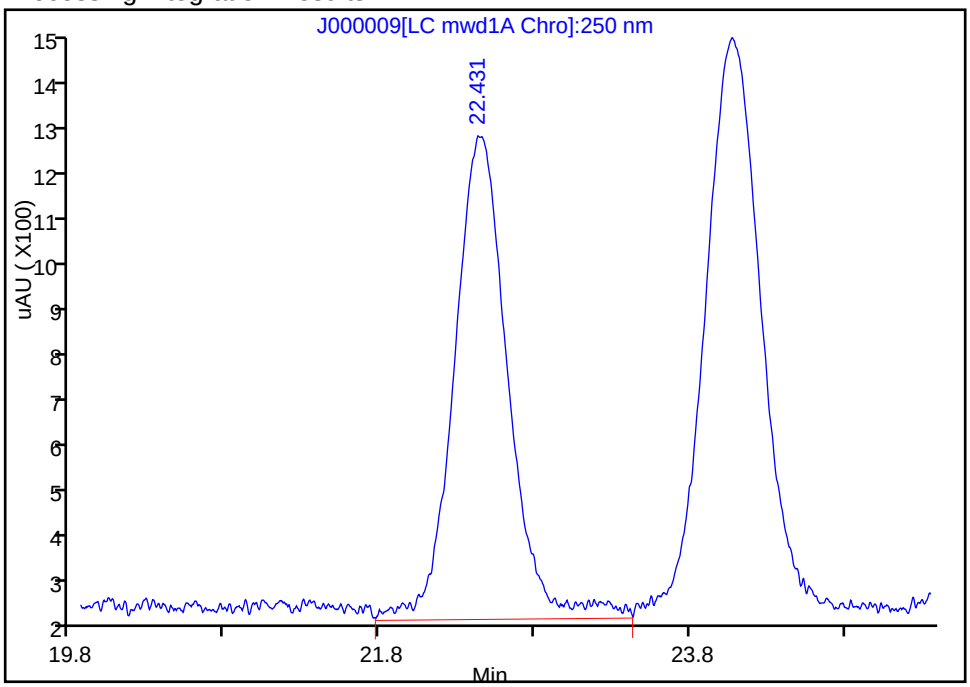
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D				
Injection Date:	11-Mar-2015 17:14:50	Instrument ID:	LC10		
Lims ID:	IC 3				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

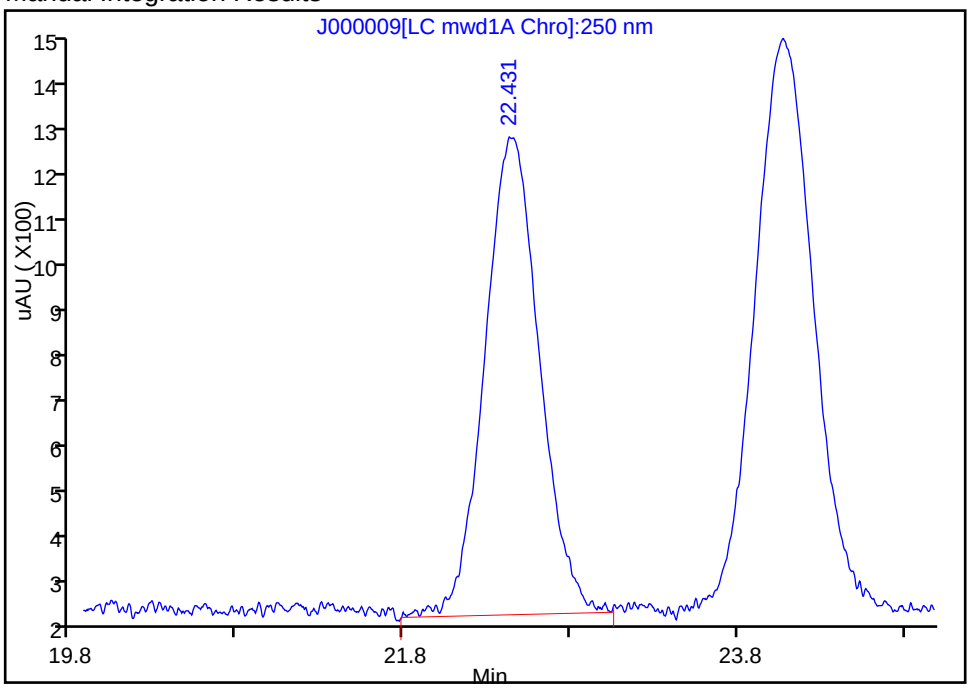
Processing Integration Results

RT: 22.43
Height: 1027
Amount: 19.514592
Amount Units: ng/ml



Manual Integration Results

RT: 22.43
Height: 1011
Amount: 19.291474
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:39:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

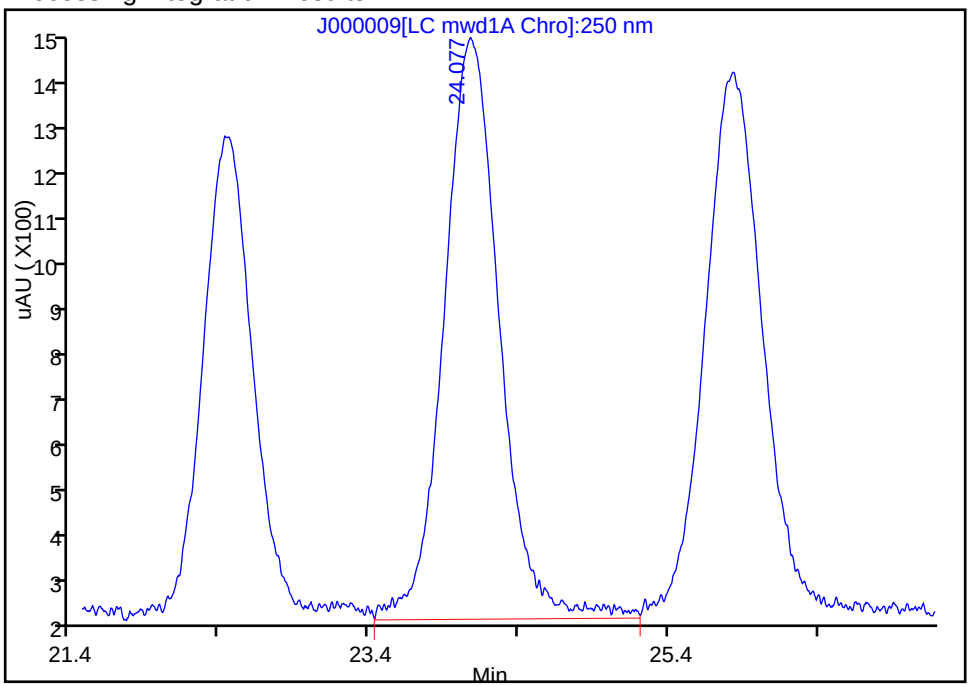
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

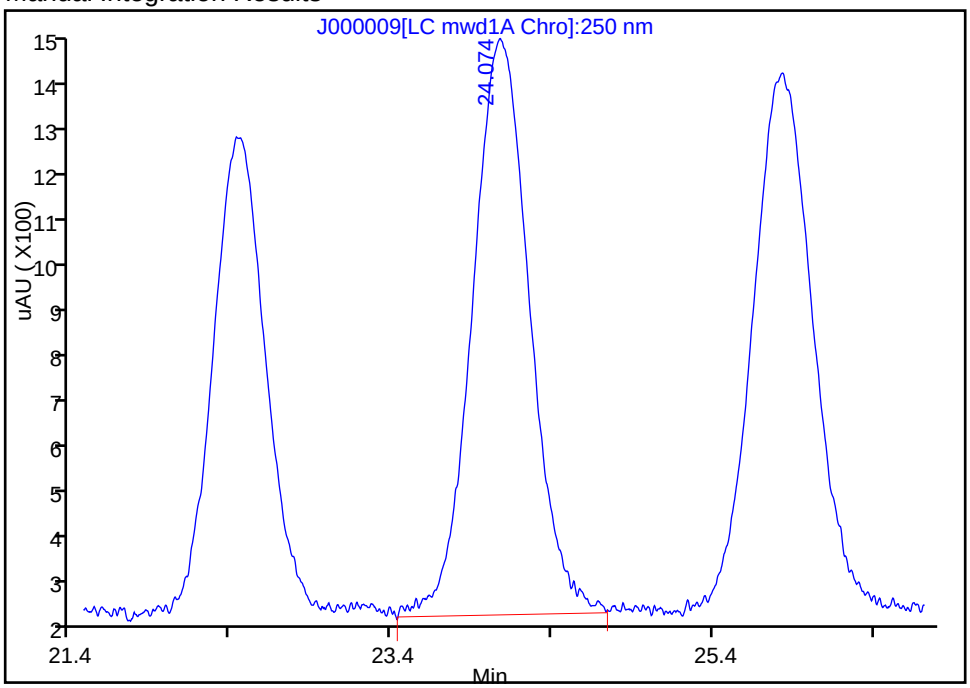
Processing Integration Results

RT: 24.08
Height: 1230
Amount: 19.583324
Amount Units: ng/ml



Manual Integration Results

RT: 24.07
Height: 1219
Amount: 19.362334
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:39:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

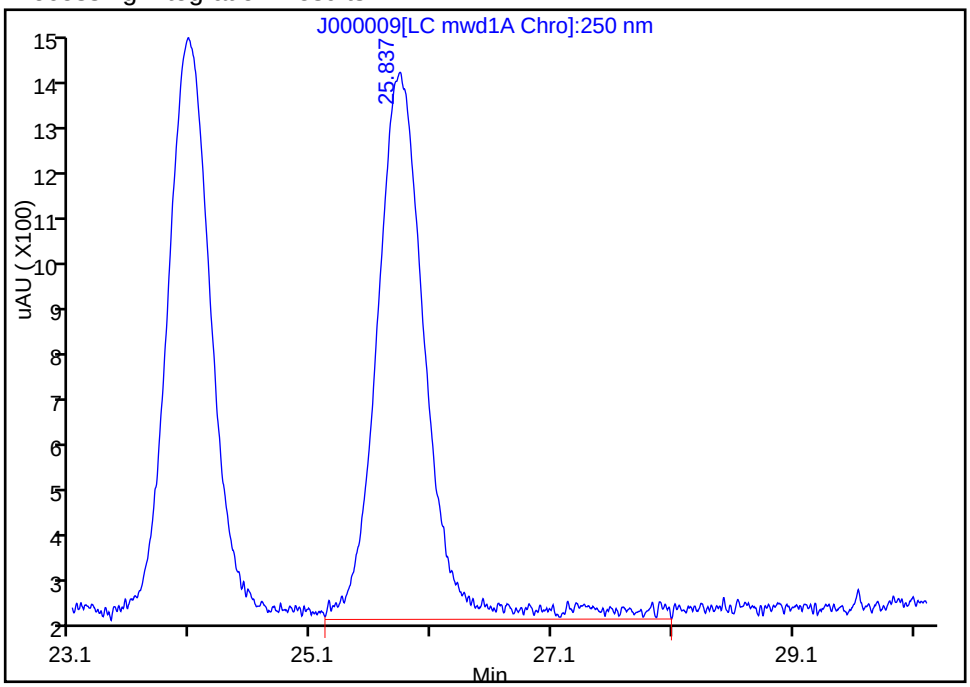
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

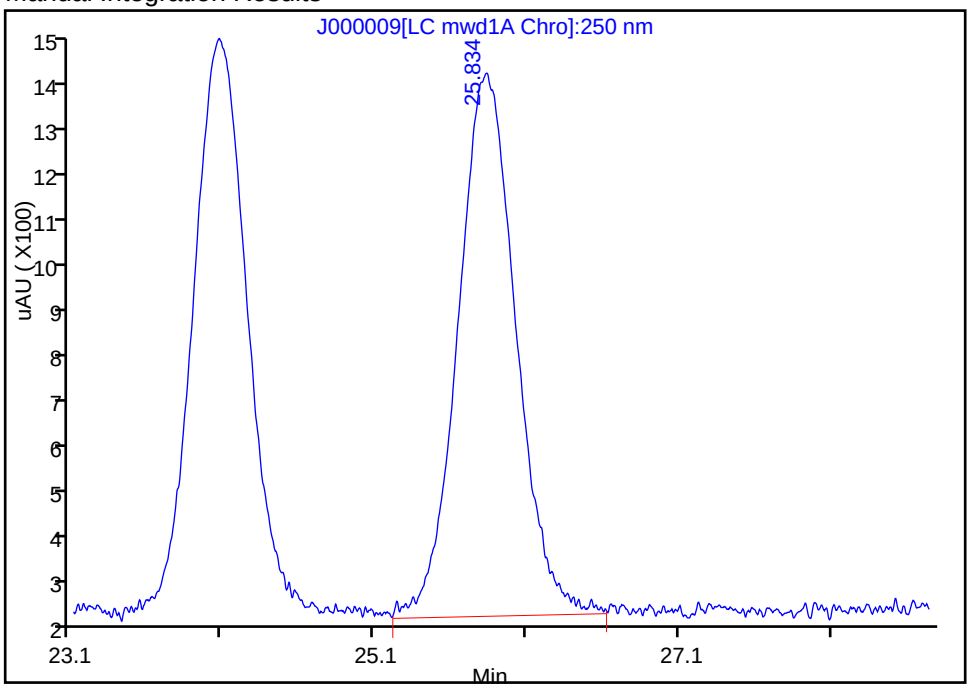
Processing Integration Results

RT: 25.84
Height: 1154
Amount: 19.464216
Amount Units: ng/ml



Manual Integration Results

RT: 25.83
Height: 1146
Amount: 19.353765
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:39:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

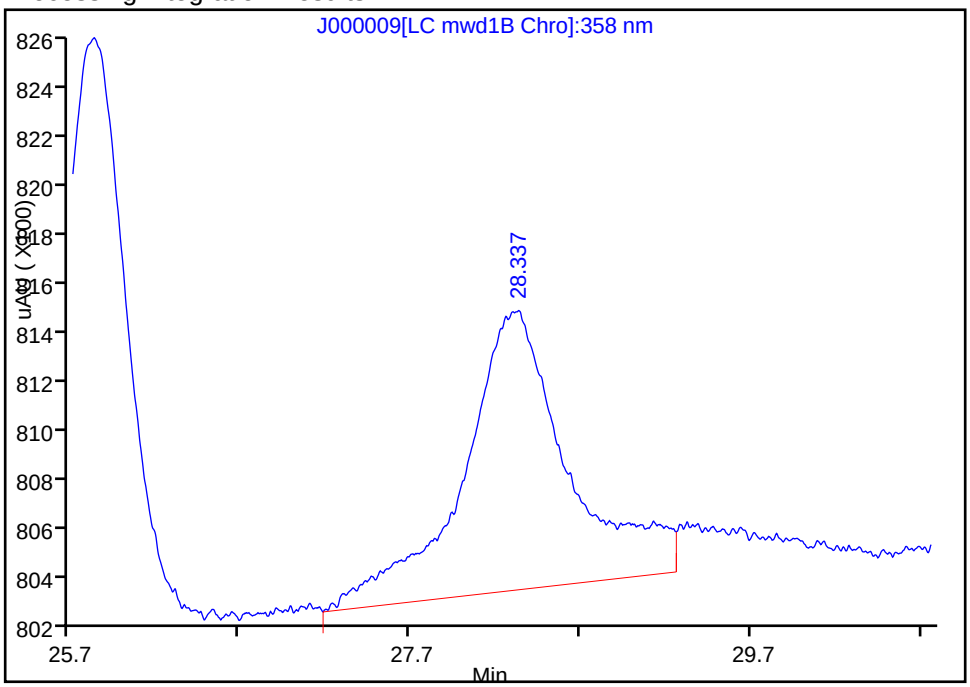
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000009.D
Injection Date: 11-Mar-2015 17:14:50 Instrument ID: LC10
Lims ID: IC 3
Client ID:
Operator ID: YPH ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

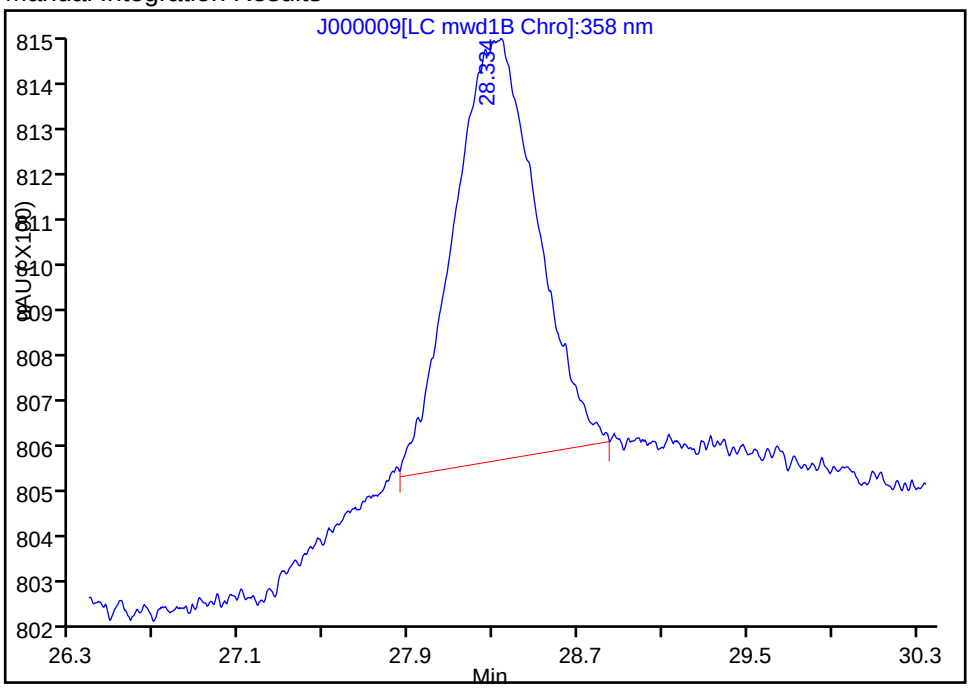
Processing Integration Results

RT: 28.34
Height: 1117
Amount: 19.839941
Amount Units: ng/ml



Manual Integration Results

RT: 28.33
Height: 896
Amount: 20.161563
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:17:06
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Mar-2015 17:58:29 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-007
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:29 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:05

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.149	5.149	0.000	7177H	50.0	48.8	
19 RDX							
1	7.406	7.406	0.000	4986H	50.0	49.2	
3 Ethylene glycol dinitrate							
2	8.056	8.056	0.000	6146H	50.0	50.9	
10 2,4,6-Trinitrophenol							
2	8.579	8.579	0.000	13617H	100.0	104.2	
1	8.579	8.579	0.000	9376H	100.0	102.0	
27 1,3,5-Trinitrobenzene							
1	9.623	9.623	0.000	9519H	50.0	48.9	
24 1,3-Dinitrobenzene							
1	12.209	12.209	0.000	9128H	50.0	48.9	
9 3,5-Dinitroaniline							
1	12.929	12.929	0.000	6028H	50.0	49.0	
20 Tetryl							
1	13.449	13.449	0.000	5358H	50.0	48.3	
5 Nitrobenzene							
1	13.939	13.939	0.000	4080H	50.0	48.3	
7 Nitroglycerin							
2	14.749	14.749	0.000	3741H	50.0	48.8	
25 2,4,6-Trinitrotoluene							
1	15.443	15.443	0.000	5479H	50.0	48.2	
26 4-Amino-2,6-dinitrotoluene							
1	16.093	16.093	0.000	4415H	50.0	48.2	
$ 30 3,4-Dinitrotoluene							M
1	16.539	16.539	0.000	3171H	50.0	47.3	
2	16.539	16.539	0.000	6157H	50.0	45.9	M
6 2-Amino-4,6-dinitrotoluene							
1	16.949	16.949	0.000	4942H	50.0	48.4	
12 2,6-Dinitrotoluene							
1	18.526	18.526	0.000	3473H	50.0	48.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.093	19.093	0.000	5738H	50.0	48.5	
16 o-Nitrotoluene							M
1	22.463	22.463	0.000	2479H	50.0	47.3	M
15 p-Nitrotoluene							M
1	24.083	24.083	0.000	3006H	50.0	47.7	M
8 m-Nitrotoluene							M
1	25.843	25.843	0.000	2819H	50.0	47.6	M
21 PETN							M
2	28.309	28.309	0.000	2162H	50.0	48.6	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L4_00024 Amount Added: 1.00 Units: mL

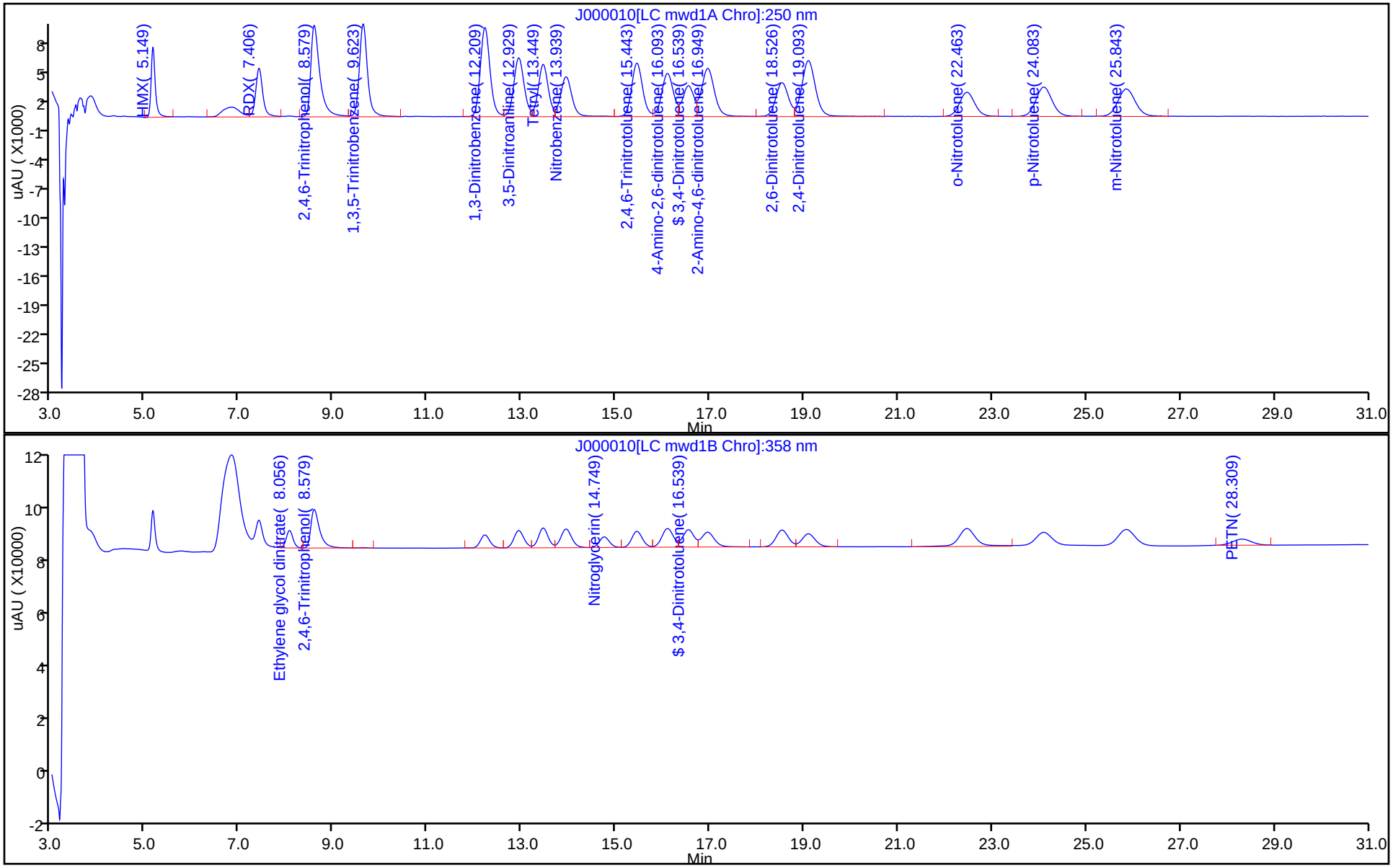
Report Date: 12-Mar-2015 11:12:29 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D

Injection Date:	11-Mar-2015 17:58:29	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

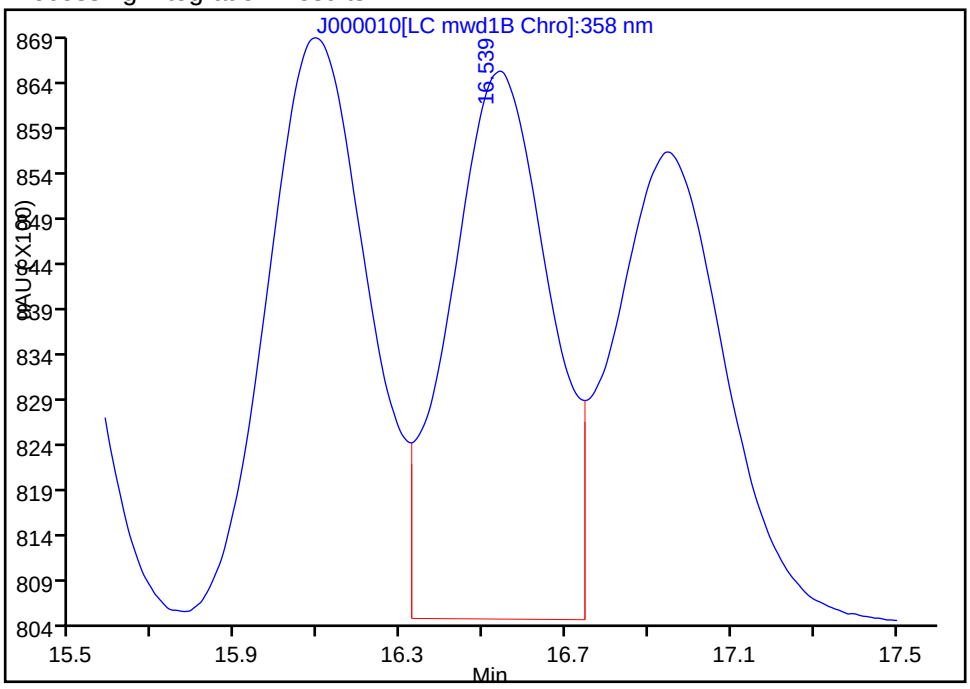
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Injection Date: 11-Mar-2015 17:58:29 Instrument ID: LC10
Lims ID: IC 4
Client ID:
Operator ID: YPH ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

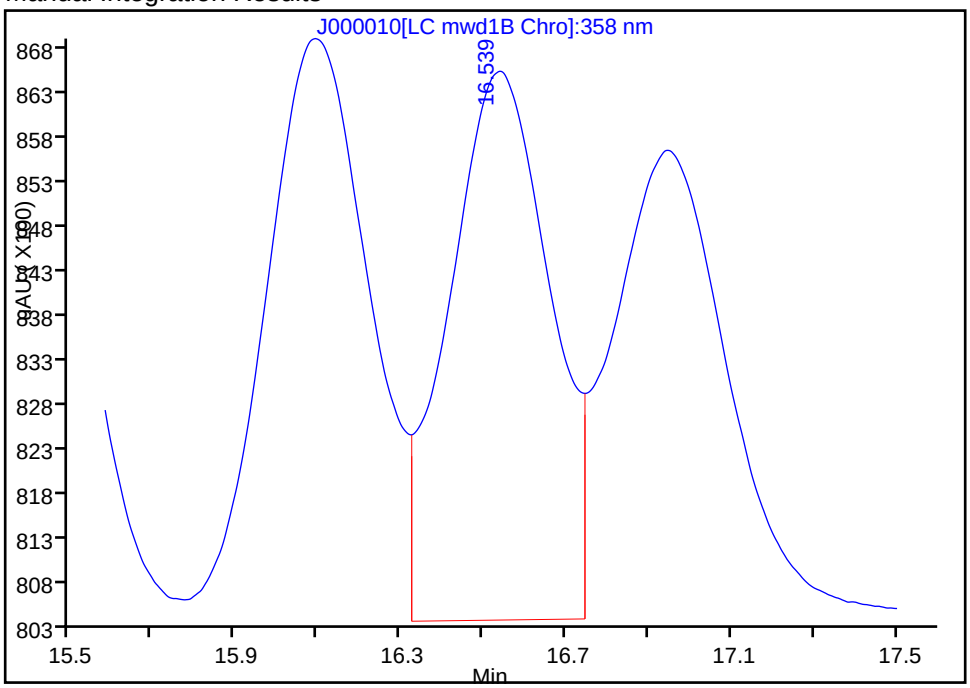
Processing Integration Results

RT: 16.54
Height: 6013
Amount: 44.601531
Amount Units: ng/ml



Manual Integration Results

RT: 16.54
Height: 6157
Amount: 45.855268
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:27:21
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

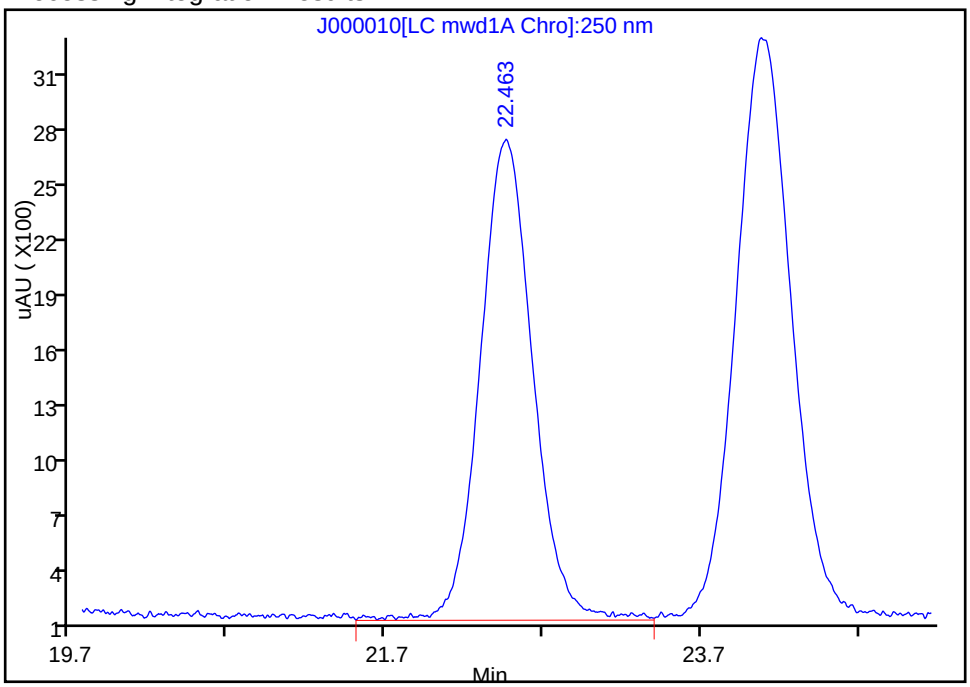
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D				
Injection Date:	11-Mar-2015 17:58:29	Instrument ID:	LC10		
Lims ID:	IC 4				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

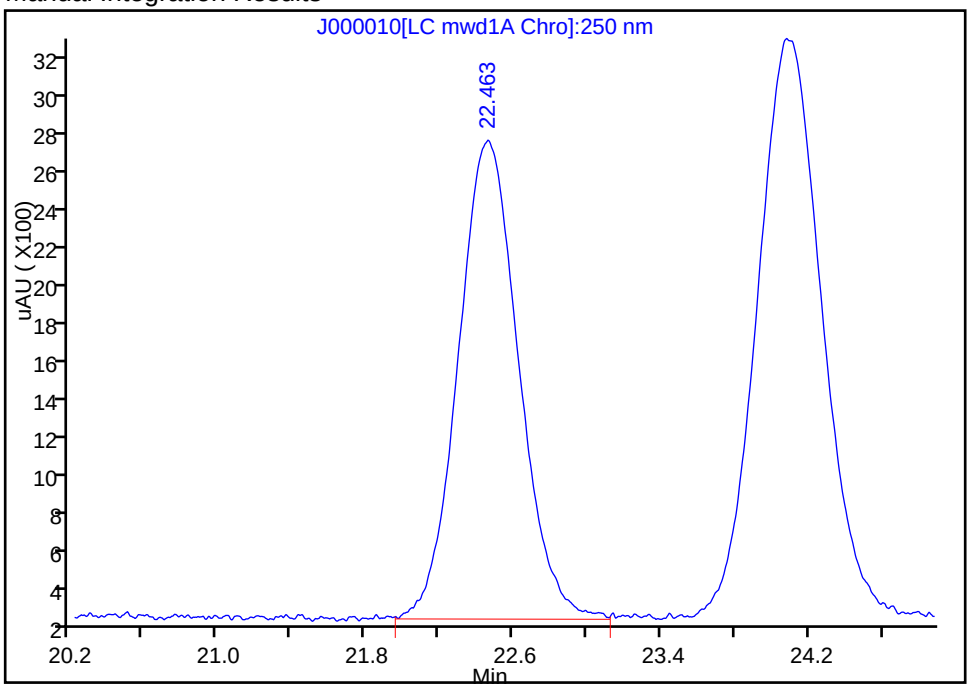
Processing Integration Results

RT: 22.46
Height: 2491
Amount: 47.435873
Amount Units: ng/ml



Manual Integration Results

RT: 22.46
Height: 2479
Amount: 47.303228
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:40:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

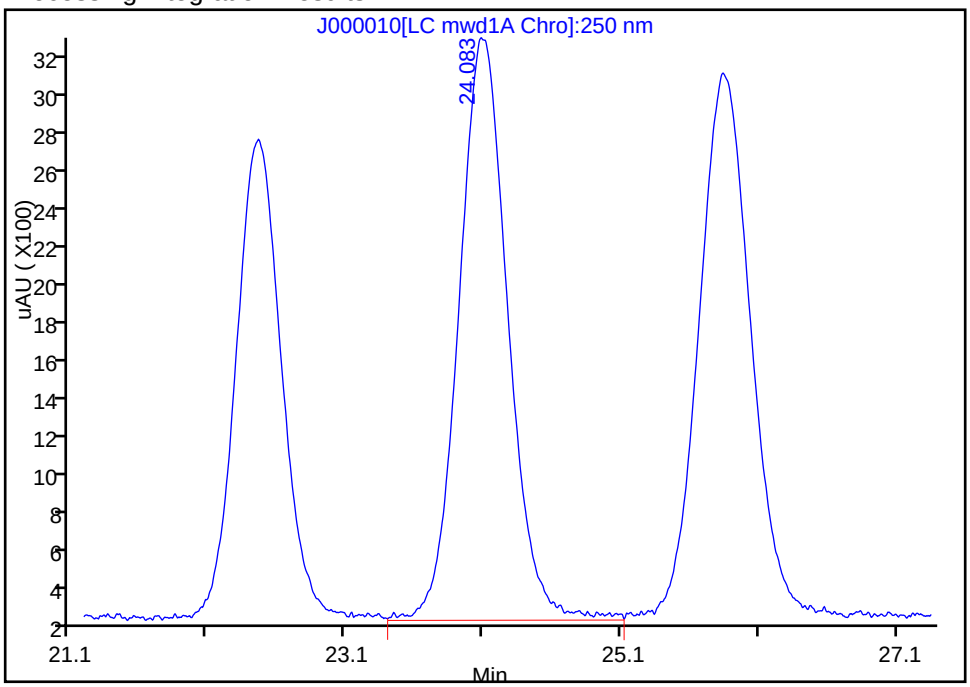
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D				
Injection Date:	11-Mar-2015 17:58:29	Instrument ID:	LC10		
Lims ID:	IC 4				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

15 p-Nitrotoluene, CAS: 99-99-0

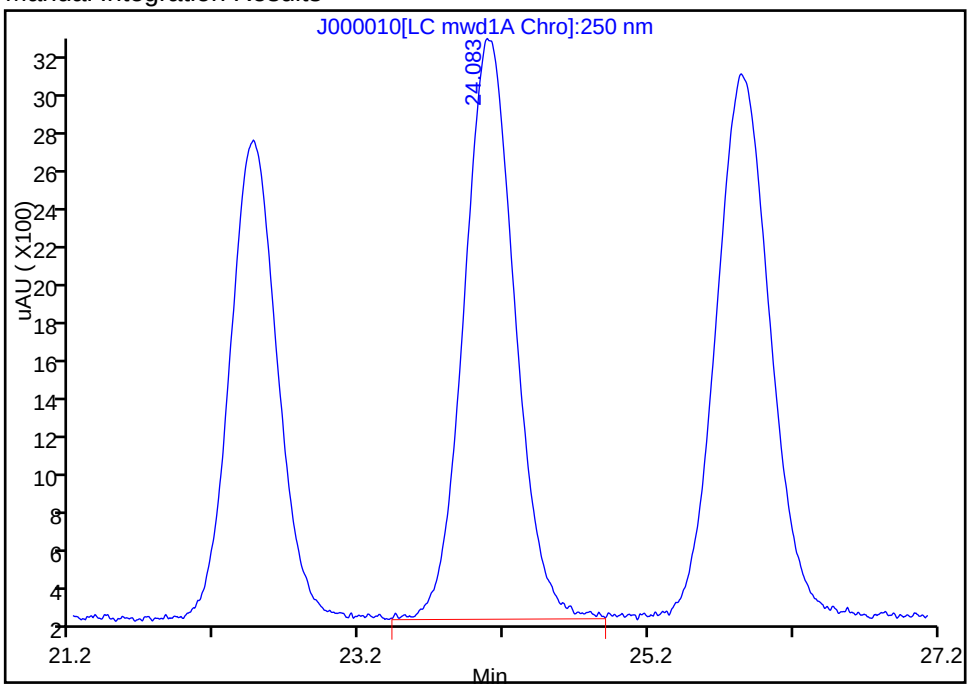
Processing Integration Results

RT: 24.08
Height: 3016
Amount: 49.582412
Amount Units: ng/ml



Manual Integration Results

RT: 24.08
Height: 3006
Amount: 47.746658
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:40:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

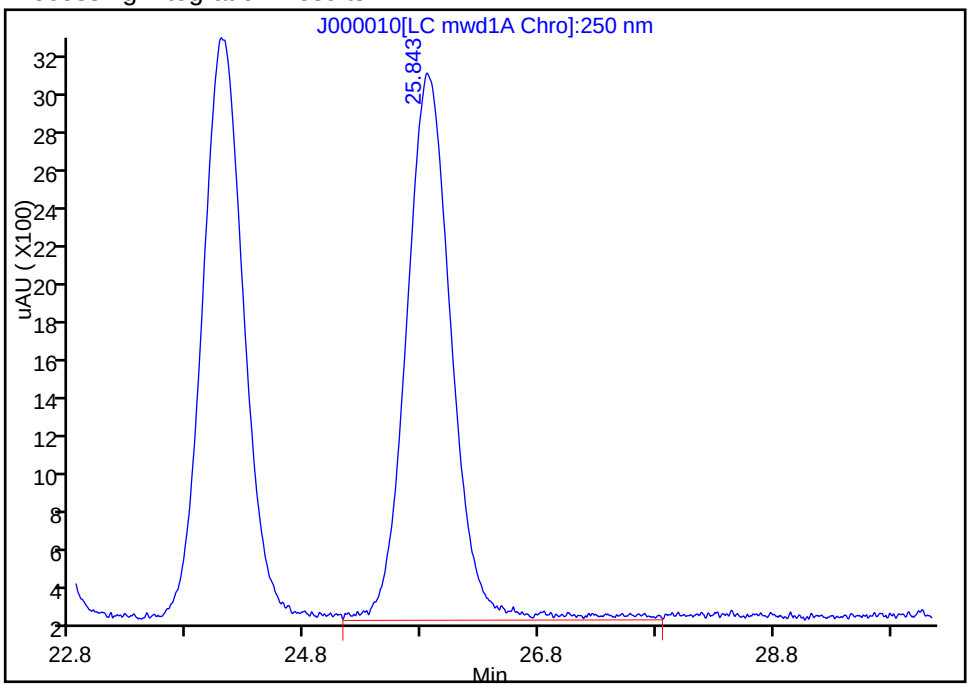
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Injection Date: 11-Mar-2015 17:58:29 Instrument ID: LC10
Lims ID: IC 4
Client ID:
Operator ID: YPH ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

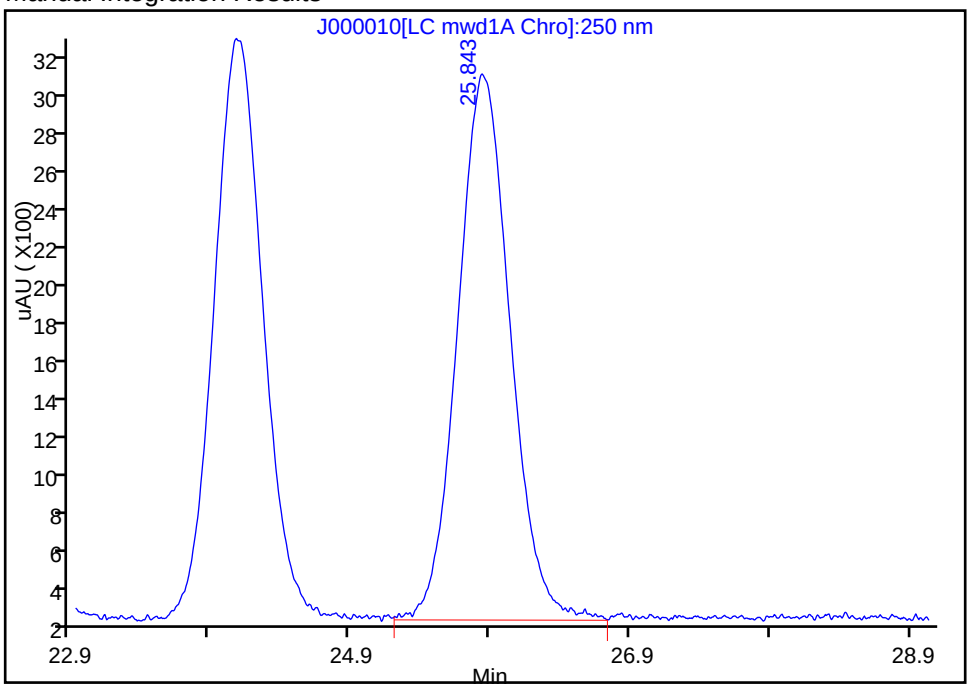
Processing Integration Results

RT: 25.84
Height: 2831
Amount: 47.795802
Amount Units: ng/ml



Manual Integration Results

RT: 25.84
Height: 2819
Amount: 47.607559
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:40:45
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

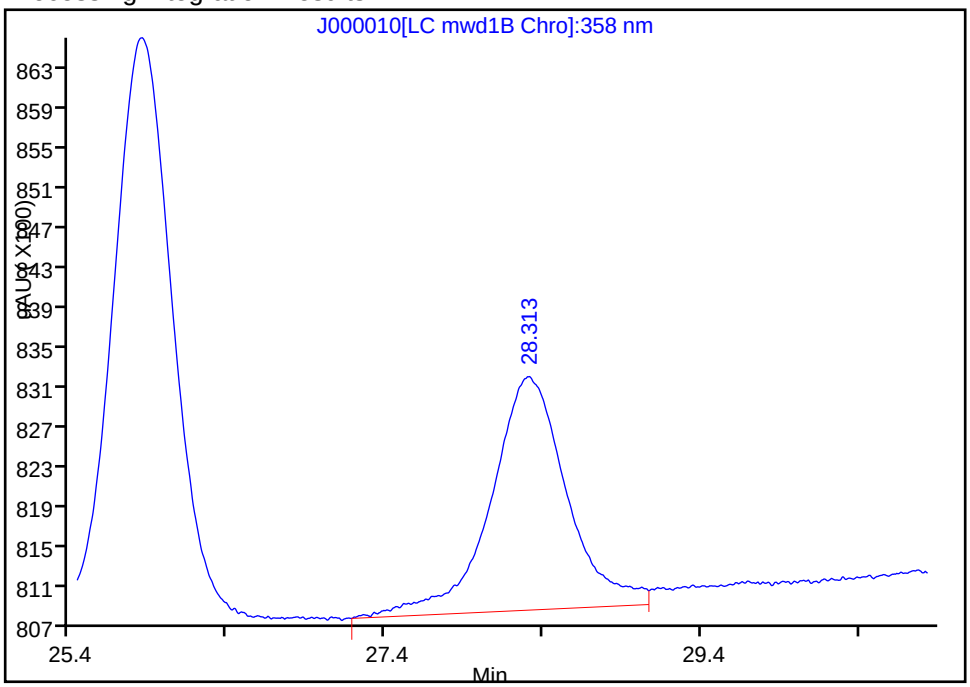
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000010.D
Injection Date: 11-Mar-2015 17:58:29 Instrument ID: LC10
Lims ID: IC 4
Client ID:
Operator ID: YPH ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

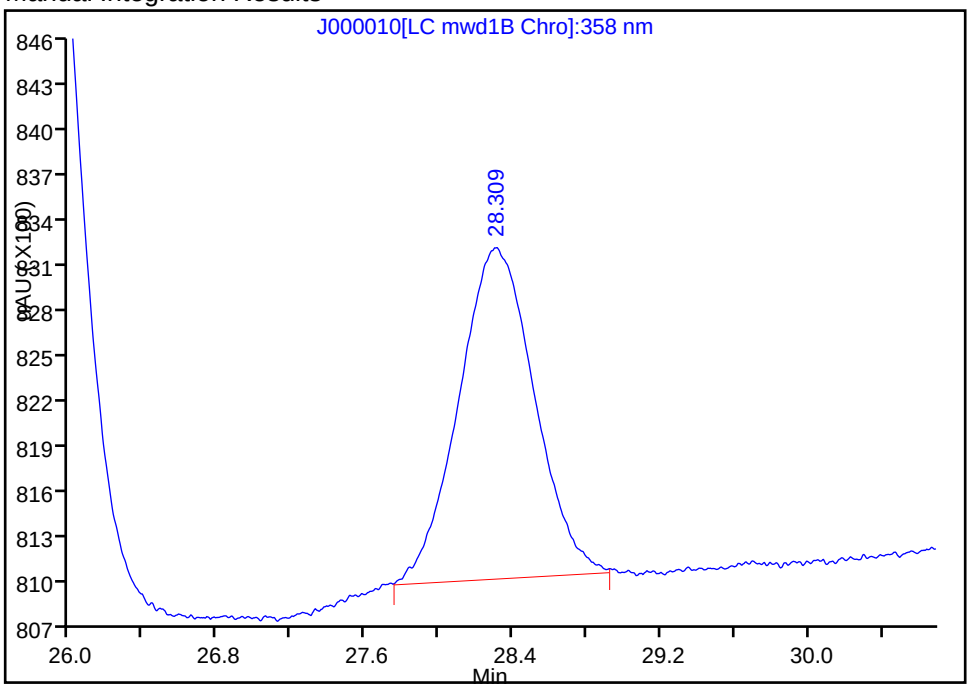
Processing Integration Results

RT: 28.31
Height: 2334
Amount: 42.651950
Amount Units: ng/ml



Manual Integration Results

RT: 28.31
Height: 2162
Amount: 48.648770
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:17:23
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Lims ID: IC 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Mar-2015 18:42:11 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-008
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:31 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.149	5.149	0.000	14318H	100.0	97.3	
19 RDX							
1	7.405	7.406	-0.001	9720H	100.0	95.9	
3 Ethylene glycol dinitrate							
2	8.055	8.056	-0.001	12364H	100.0	102.5	
10 2,4,6-Trinitrophenol							
2	8.569	8.579	-0.010	27276H	200.0	208.7	
1	8.569	8.579	-0.010	18729H	200.0	203.8	
27 1,3,5-Trinitrobenzene							
1	9.622	9.623	-0.001	18907H	100.0	97.2	
24 1,3-Dinitrobenzene							
1	12.209	12.209	0.000	18138H	100.0	97.1	
9 3,5-Dinitroaniline							
1	12.925	12.929	-0.004	11960H	100.0	97.2	
20 Tetryl							
1	13.445	13.449	-0.004	10725H	100.0	96.6	
5 Nitrobenzene							
1	13.932	13.939	-0.007	8141H	100.0	96.4	
7 Nitroglycerin							
2	14.742	14.749	-0.007	7715H	100.0	100.7	
25 2,4,6-Trinitrotoluene							
1	15.435	15.443	-0.008	10970H	100.0	96.5	
26 4-Amino-2,6-dinitrotoluene							
1	16.082	16.093	-0.011	8819H	100.0	96.4	
$ 30 3,4-Dinitrotoluene							M
1	16.529	16.539	-0.010	6436H	100.0	96.0	
2	16.525	16.539	-0.014	12335H	100.0	91.9	M
6 2-Amino-4,6-dinitrotoluene							
1	16.935	16.949	-0.014	9860H	100.0	96.5	
12 2,6-Dinitrotoluene							
1	18.512	18.526	-0.014	6931H	100.0	96.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.079	19.093	-0.014	11442H	100.0	96.7	
16 o-Nitrotoluene							M
1	22.452	22.463	-0.011	4999H	100.0	95.4	M
15 p-Nitrotoluene							M
1	24.089	24.083	0.006	6031H	100.0	95.8	M
8 m-Nitrotoluene							M
1	25.845	25.843	0.002	5605H	100.0	94.7	M
21 PETN							M
2	28.302	28.309	-0.007	4475H	100.0	100.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L5_00033 Amount Added: 1.00 Units: mL

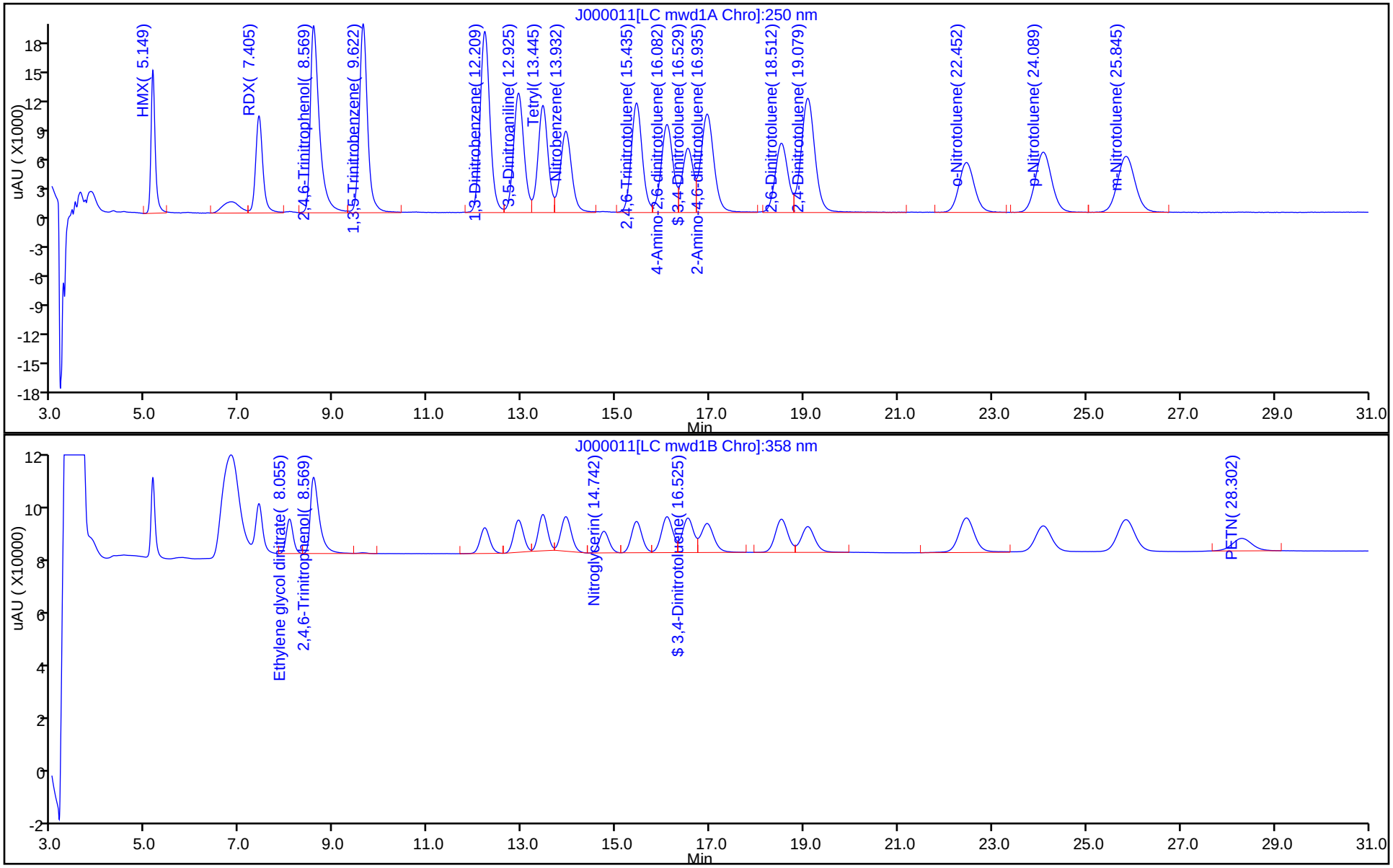
Report Date: 12-Mar-2015 11:12:31 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D

Injection Date:	11-Mar-2015 18:42:11	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 5			Worklist Smp#:	8
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

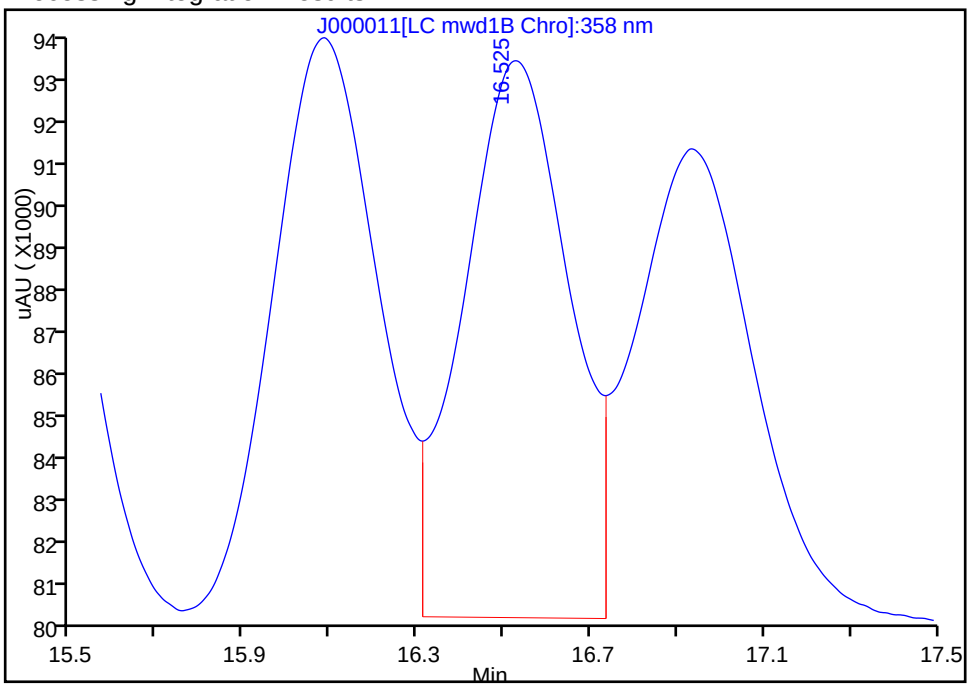
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

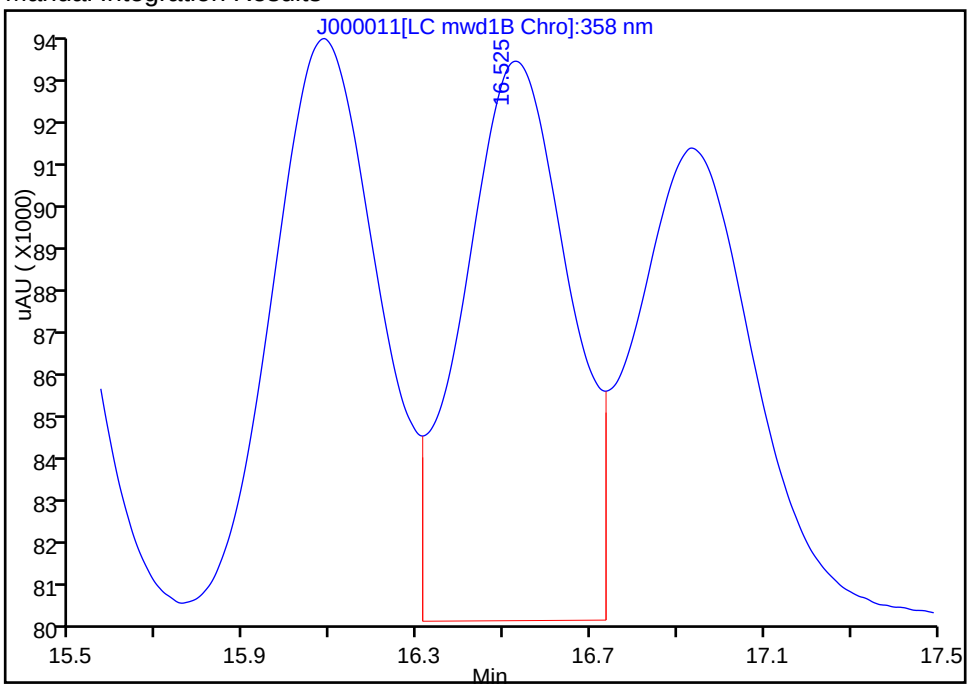
Processing Integration Results

RT: 16.53
Height: 12099
Amount: 89.969533
Amount Units: ng/ml



Manual Integration Results

RT: 16.53
Height: 12335
Amount: 91.866938
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:26:35
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

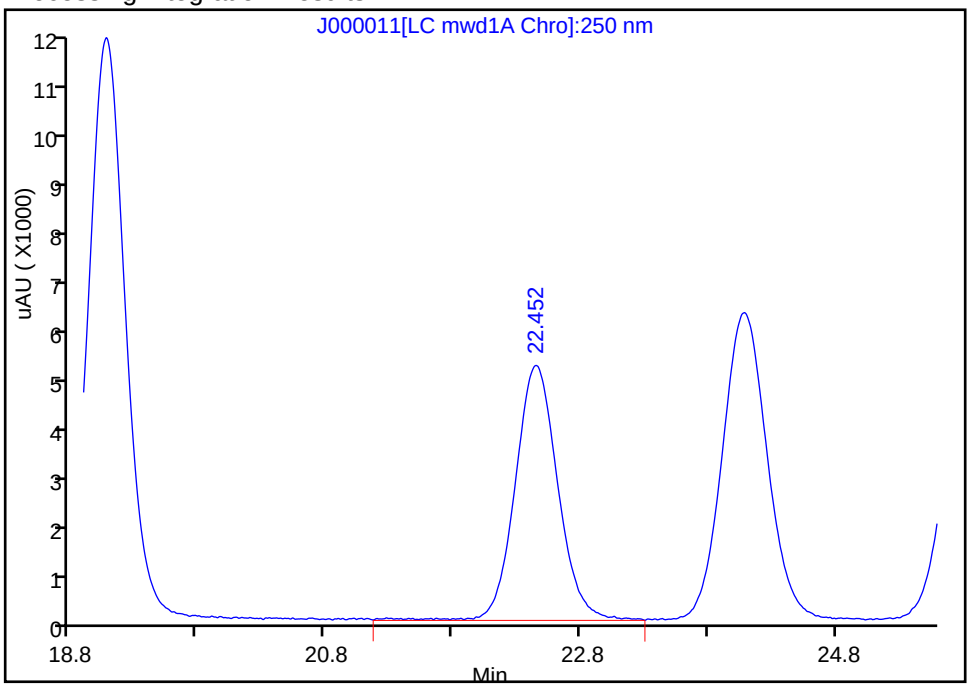
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D				
Injection Date:	11-Mar-2015 18:42:11	Instrument ID:	LC10		
Lims ID:	IC 5				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

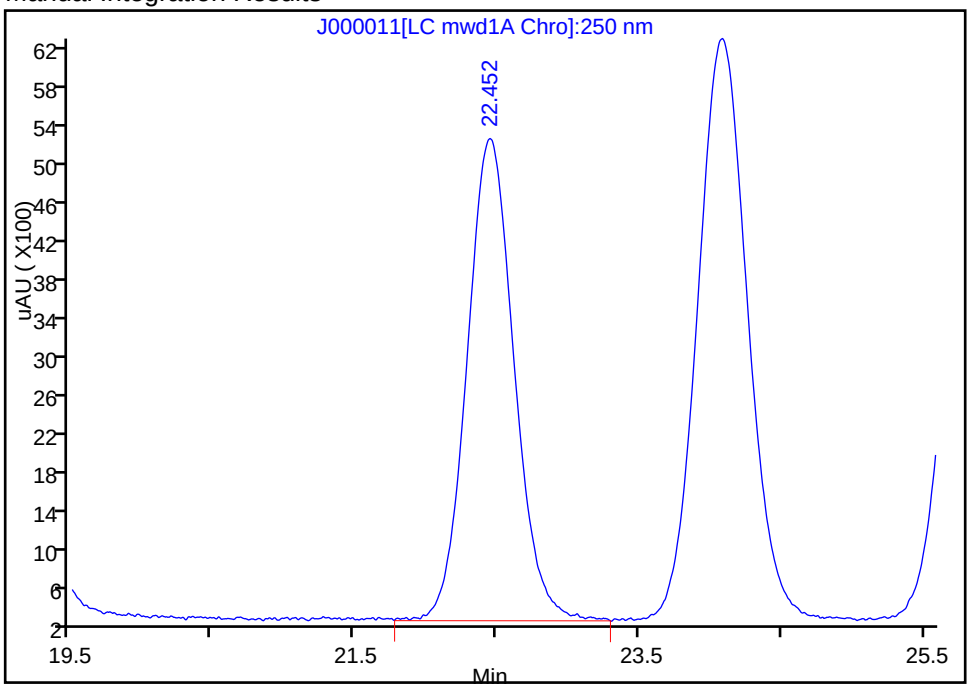
Processing Integration Results

RT: 22.45
Height: 5007
Amount: 95.410112
Amount Units: ng/ml



Manual Integration Results

RT: 22.45
Height: 4999
Amount: 95.388801
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:41:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

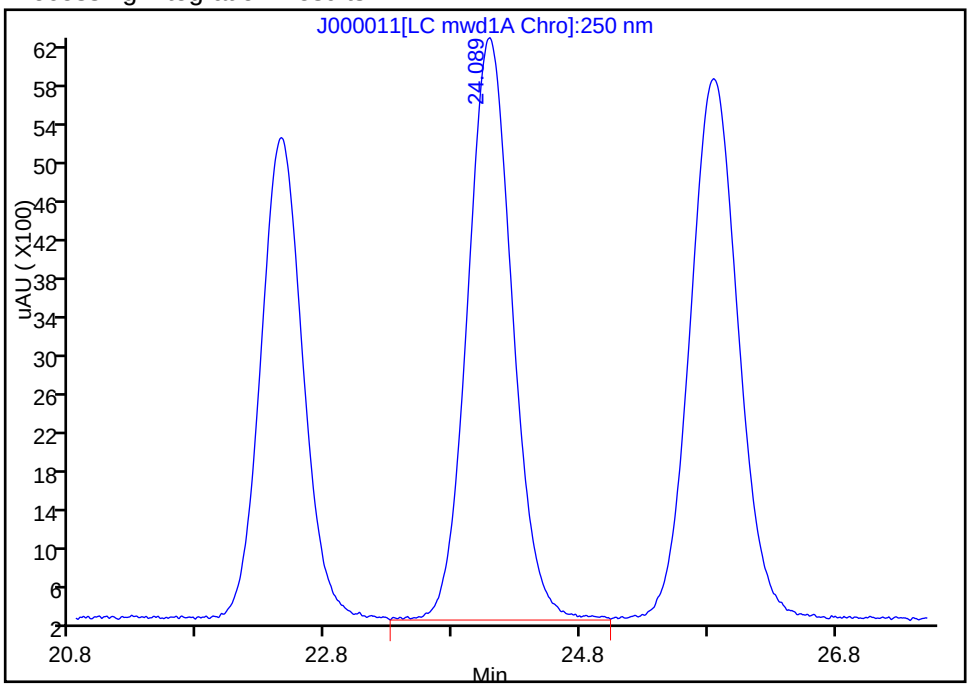
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D				
Injection Date:	11-Mar-2015 18:42:11	Instrument ID:	LC10		
Lims ID:	IC 5				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

15 p-Nitrotoluene, CAS: 99-99-0

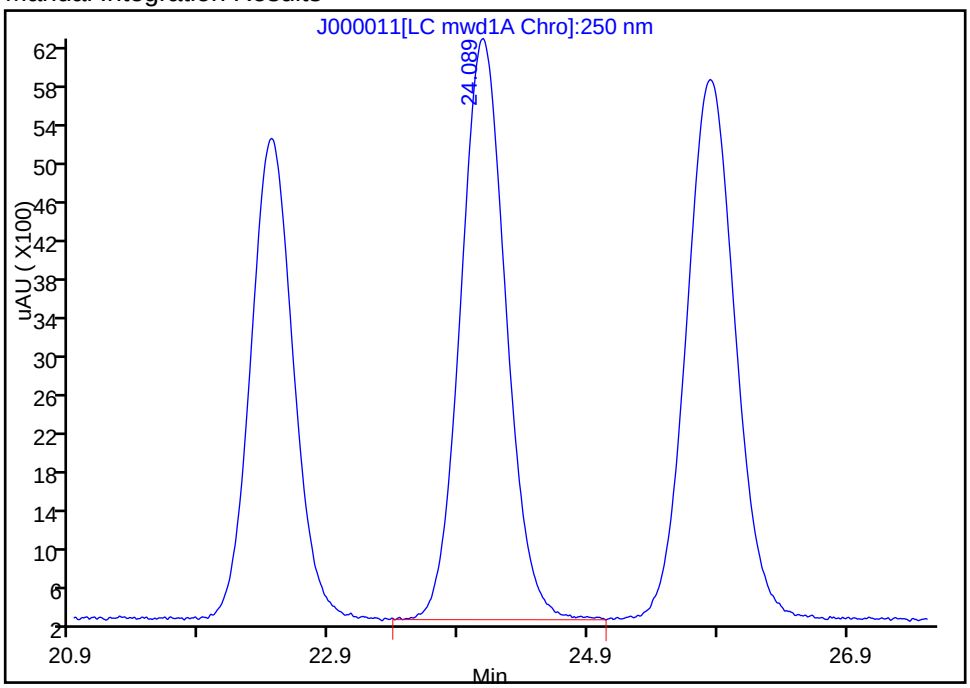
Processing Integration Results

RT: 24.09
Height: 6043
Amount: 100.4476
Amount Units: ng/ml



Manual Integration Results

RT: 24.09
Height: 6031
Amount: 95.795108
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:41:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

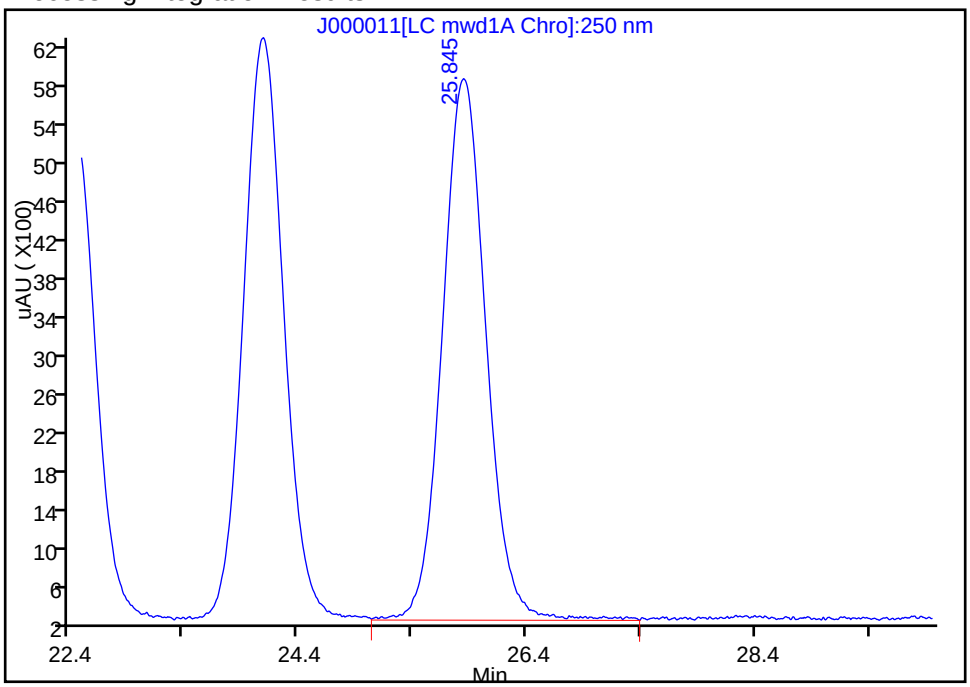
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

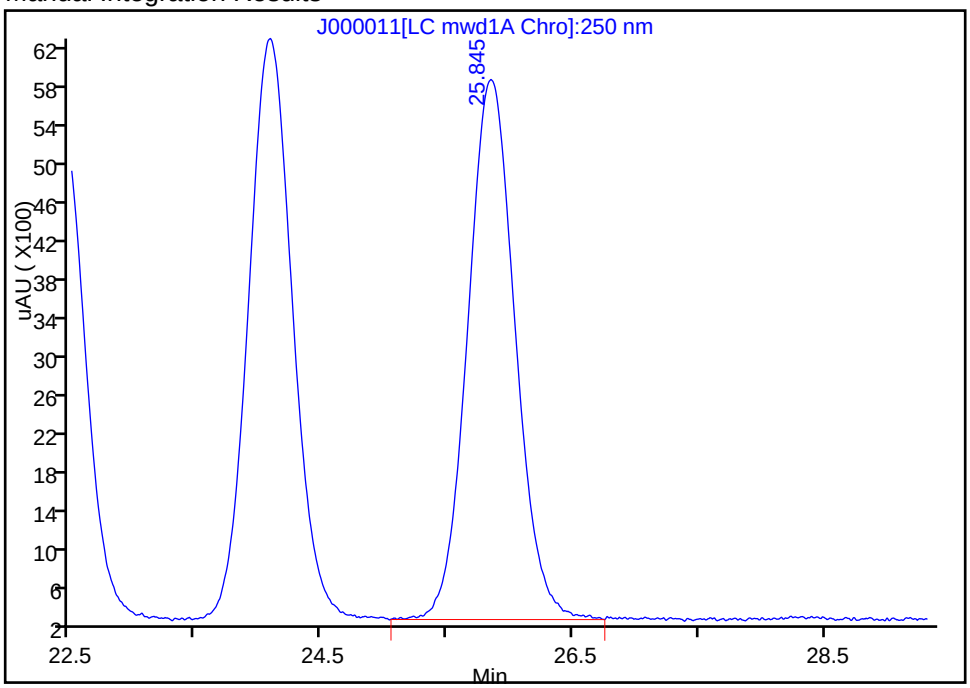
Processing Integration Results

RT: 25.85
Height: 5620
Amount: 94.937473
Amount Units: ng/ml



Manual Integration Results

RT: 25.85
Height: 5605
Amount: 94.657811
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:41:35
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

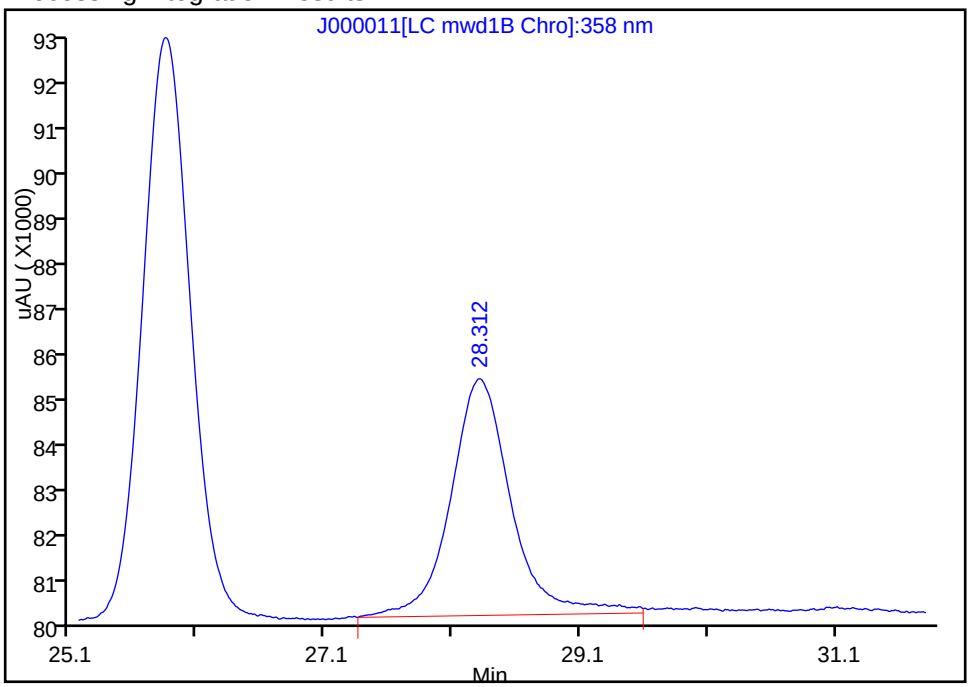
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000011.D
Injection Date: 11-Mar-2015 18:42:11 Instrument ID: LC10
Lims ID: IC 5
Client ID:
Operator ID: YPH ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

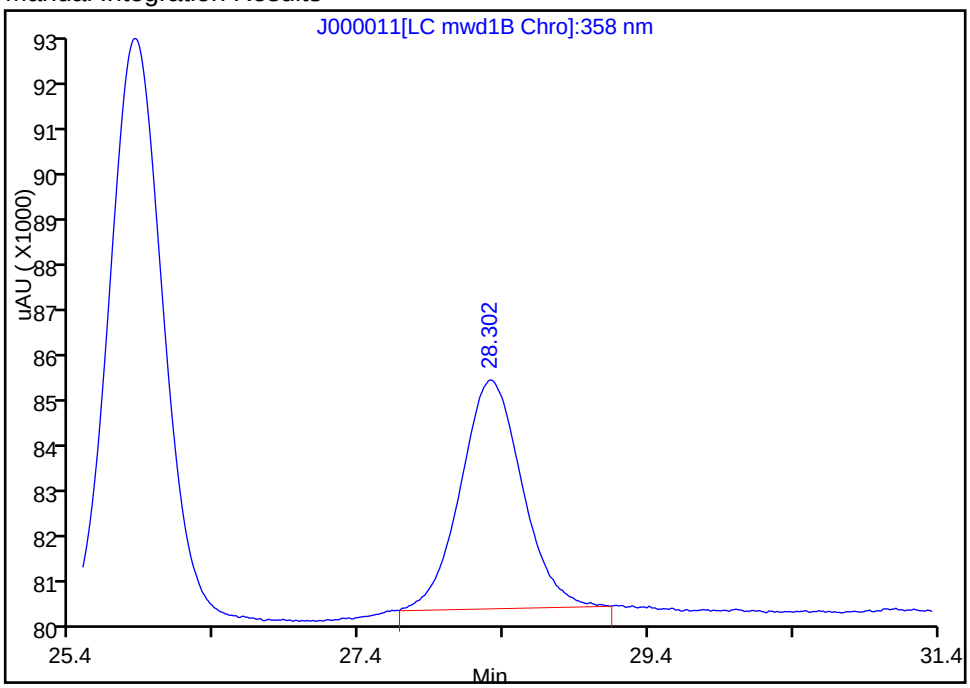
Processing Integration Results

RT: 28.31
Height: 4636
Amount: 85.486837
Amount Units: ng/ml



Manual Integration Results

RT: 28.30
Height: 4475
Amount: 100.6953
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:17:41
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Mar-2015 19:25:50 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-009
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:33 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:26

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.146	5.149	-0.003	30083H	200.0	204.5	
19 RDX							
1	7.396	7.406	-0.010	19940H	200.0	196.7	
3 Ethylene glycol dinitrate							
2	8.046	8.056	-0.010	24901H	200.0	206.4	
10 2,4,6-Trinitrophenol							
2	8.516	8.579	-0.063	66509H	500.0	508.9	
1	8.516	8.579	-0.063	45711H	500.0	497.5	
27 1,3,5-Trinitrobenzene							
1	9.613	9.623	-0.010	39487H	200.0	203.1	
24 1,3-Dinitrobenzene							
1	12.199	12.209	-0.010	37596H	200.0	201.2	
9 3,5-Dinitroaniline							
1	12.919	12.929	-0.010	24823H	200.0	201.8	
20 Tetryl							
1	13.449	13.449	0.000	22719H	200.0	204.7	
5 Nitrobenzene							
1	13.926	13.939	-0.013	16923H	200.0	200.3	
7 Nitroglycerin							
2	14.746	14.749	-0.003	15758H	200.0	205.6	
25 2,4,6-Trinitrotoluene							
1	15.443	15.443	0.000	23139H	200.0	203.6	
26 4-Amino-2,6-dinitrotoluene							
1	16.089	16.093	-0.004	18462H	200.0	201.7	
$ 30 3,4-Dinitrotoluene							M
1	16.536	16.539	-0.003	13272H	200.0	198.0	
2	16.536	16.539	-0.003	25174H	200.0	187.5	M
6 2-Amino-4,6-dinitrotoluene							
1	16.943	16.949	-0.006	20645H	200.0	202.1	
12 2,6-Dinitrotoluene							
1	18.526	18.526	0.000	14572H	200.0	202.6	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.086	19.093	-0.007	24077H	200.0	203.6	
16 o-Nitrotoluene							M
1	22.459	22.463	-0.004	10552H	200.0	201.3	M
15 p-Nitrotoluene							M
1	24.093	24.083	0.010	12795H	200.0	203.2	M
8 m-Nitrotoluene							M
1	25.853	25.843	0.010	11941H	200.0	201.7	M
21 PETN							M
2	28.326	28.309	0.017	9185H	200.0	206.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L6_00027 Amount Added: 1.00 Units: mL

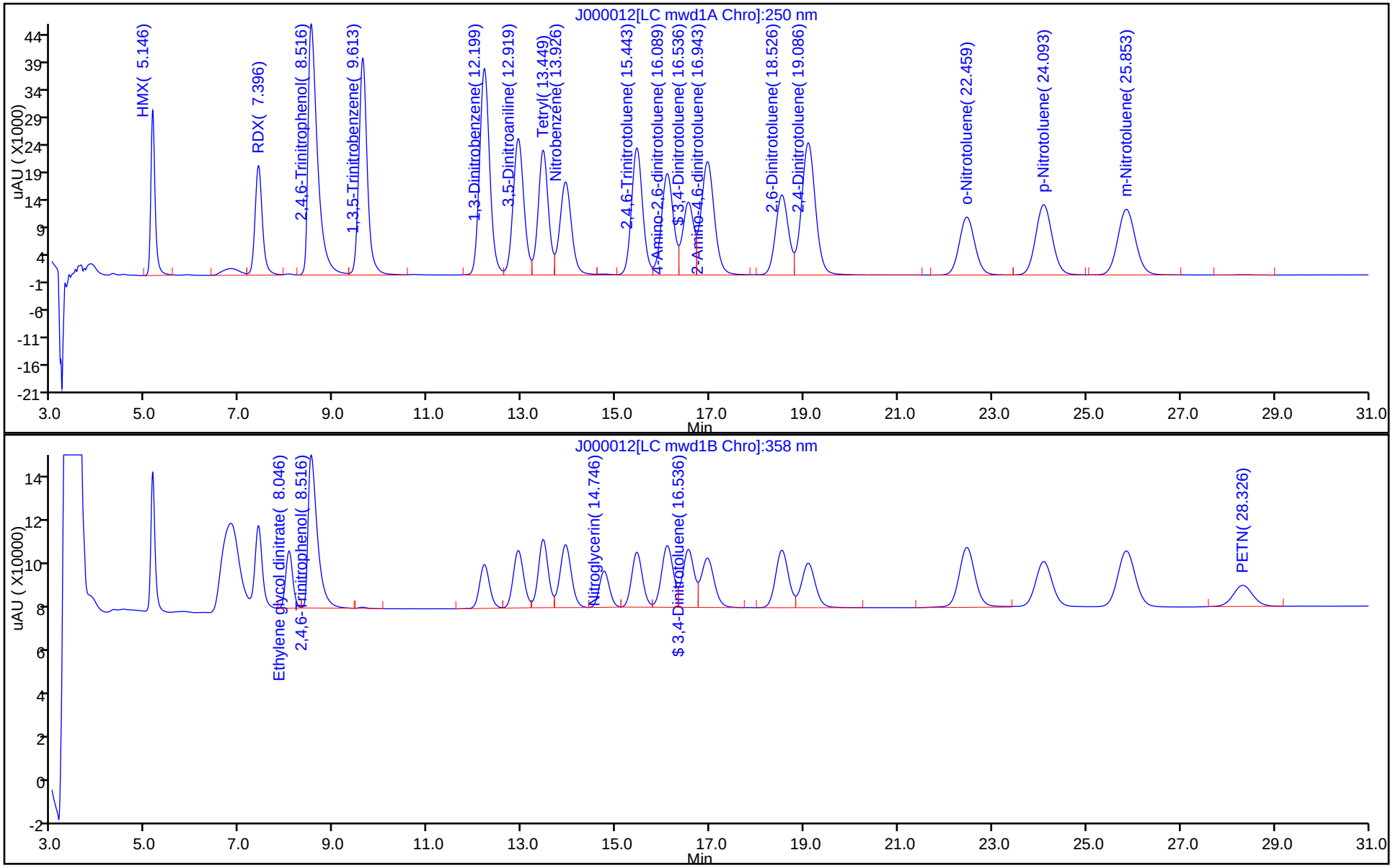
Report Date: 12-Mar-2015 11:12:34 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D

Injection Date:	11-Mar-2015 19:25:50	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

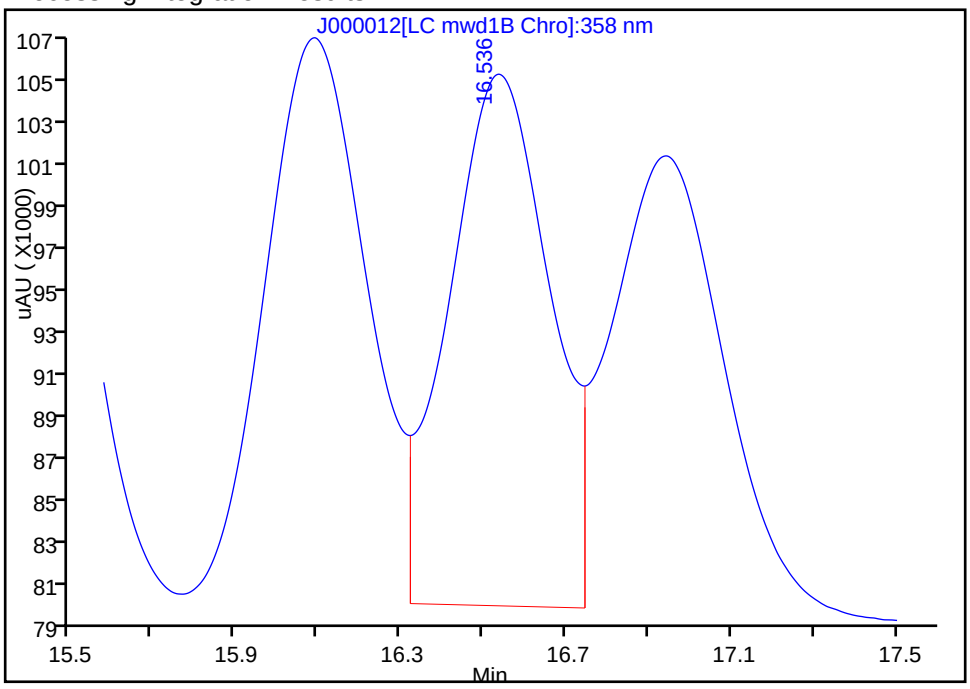
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

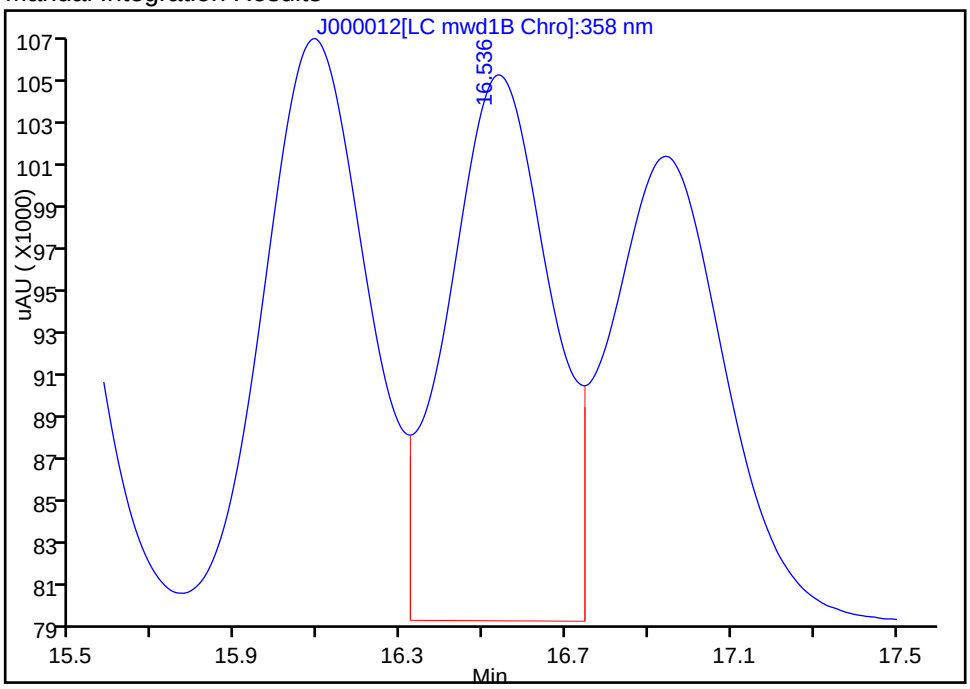
Processing Integration Results

RT: 16.54
Height: 24439
Amount: 183.3036
Amount Units: ng/ml



Manual Integration Results

RT: 16.54
Height: 25174
Amount: 187.4875
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:25:31
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

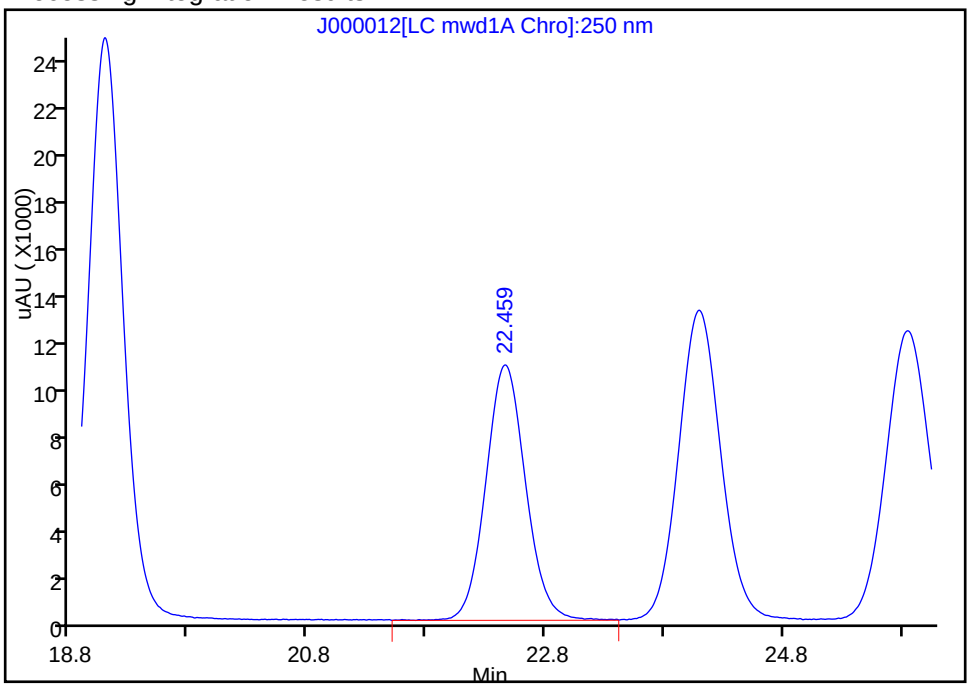
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D				
Injection Date:	11-Mar-2015 19:25:50	Instrument ID:	LC10		
Lims ID:	IC 6				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

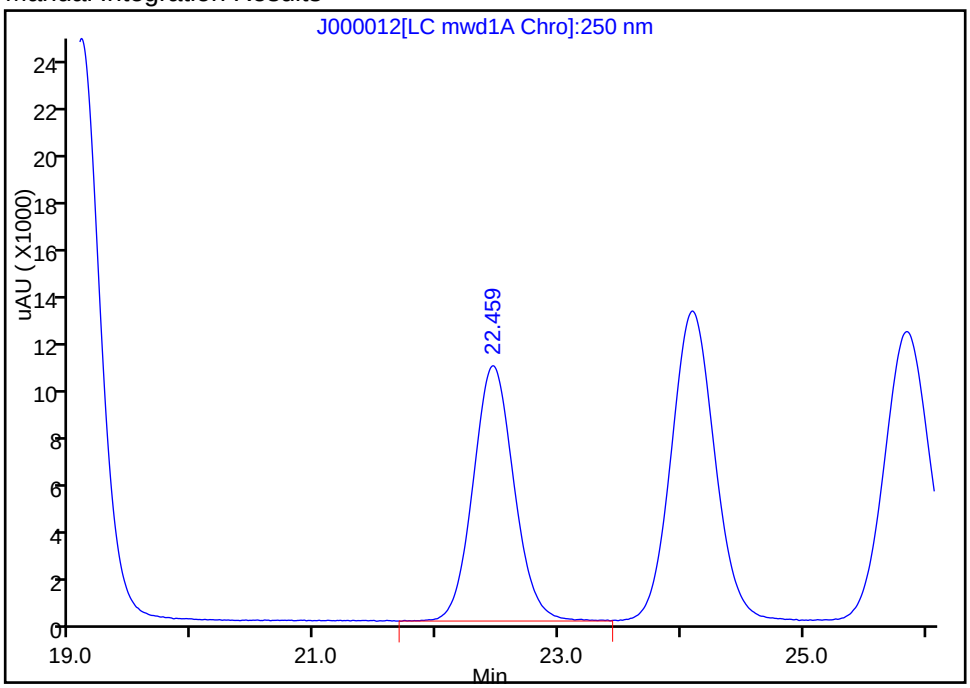
Processing Integration Results

RT: 22.46
Height: 10557
Amount: 201.2111
Amount Units: ng/ml



Manual Integration Results

RT: 22.46
Height: 10552
Amount: 201.3488
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:42:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

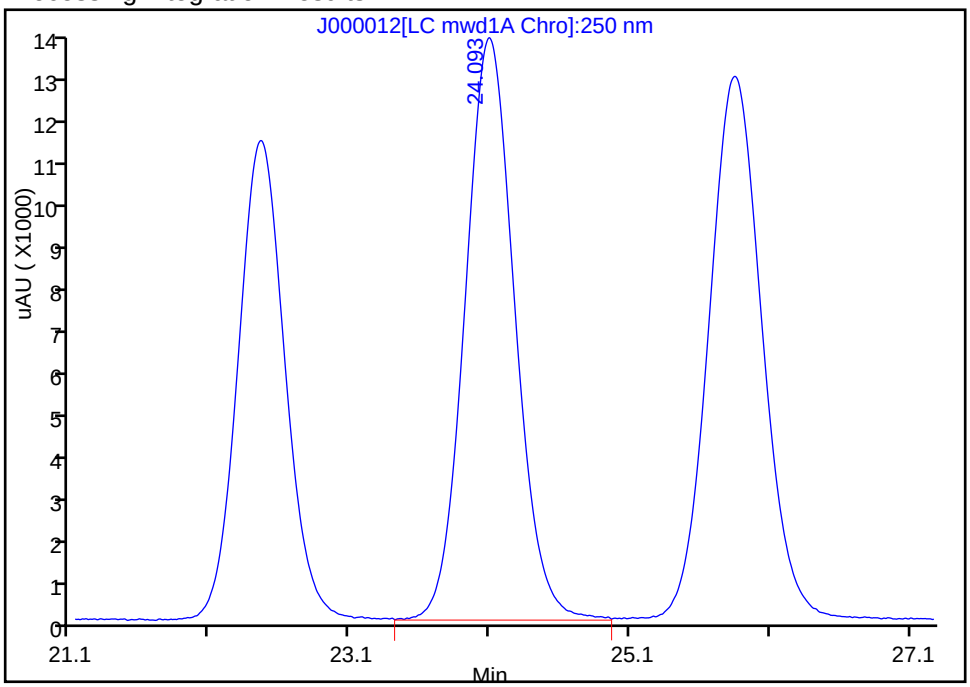
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

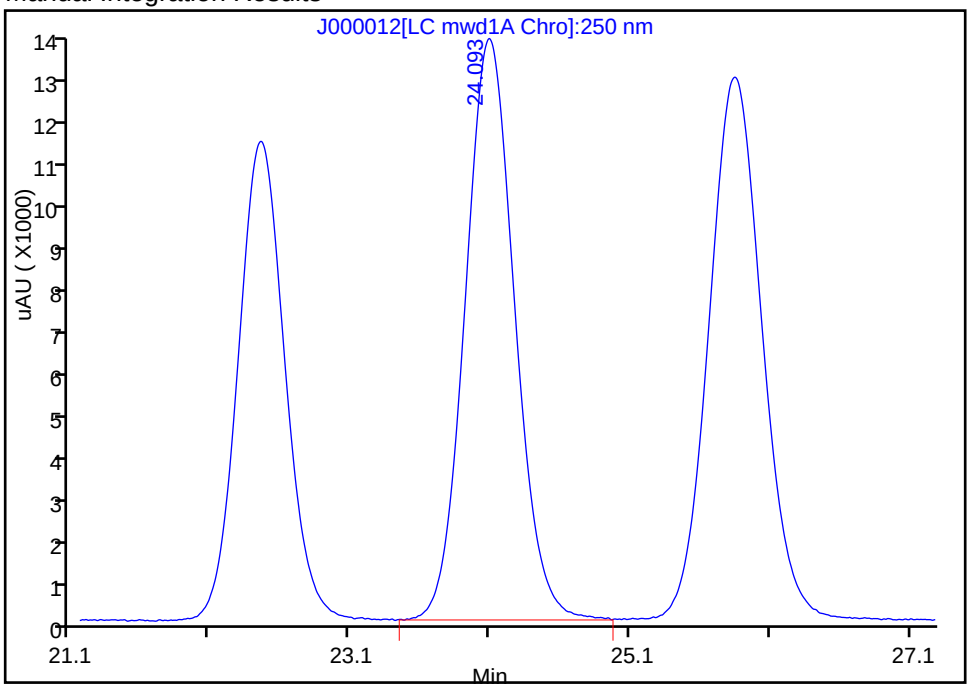
Processing Integration Results

RT: 24.09
Height: 12816
Amount: 214.2850
Amount Units: ng/ml



Manual Integration Results

RT: 24.09
Height: 12795
Amount: 203.2330
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:42:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

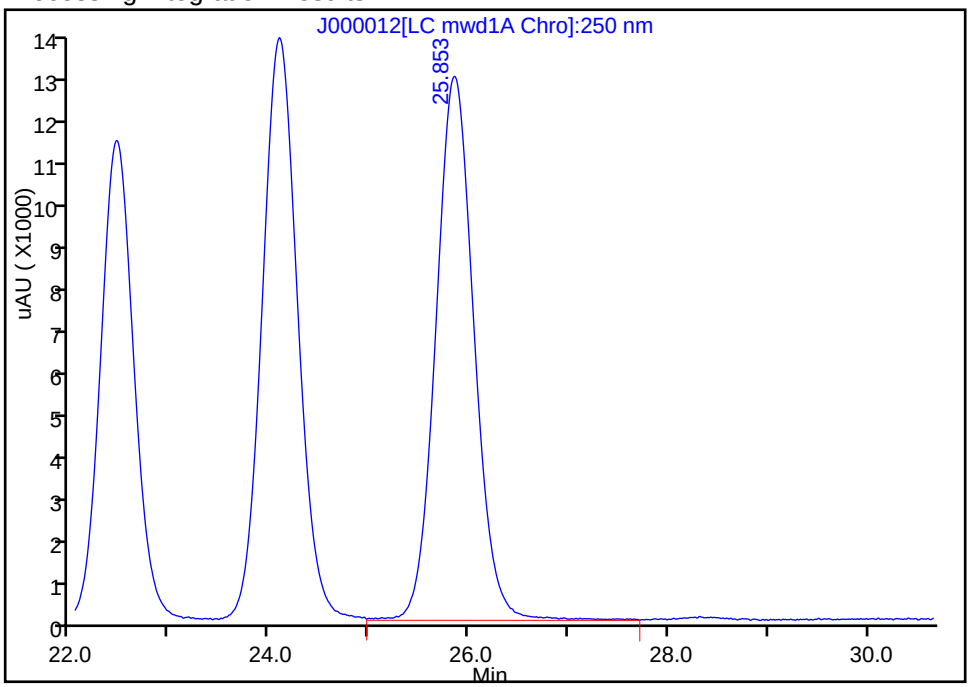
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D				
Injection Date:	11-Mar-2015 19:25:50	Instrument ID:	LC10		
Lims ID:	IC 6				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

8 m-Nitrotoluene, CAS: 99-08-1

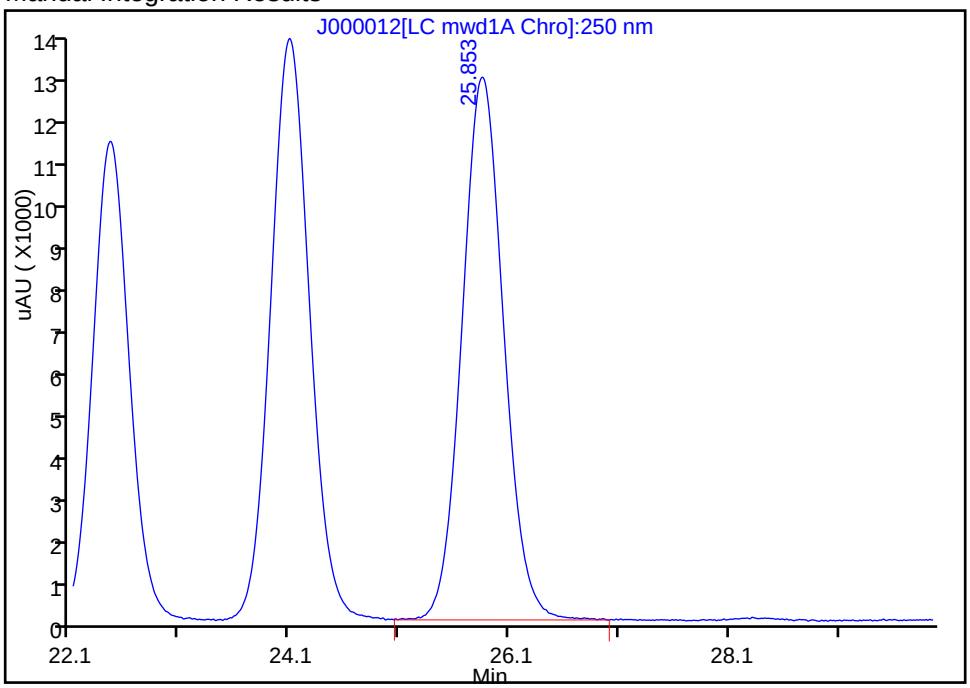
Processing Integration Results

RT: 25.85
Height: 11968
Amount: 202.2461
Amount Units: ng/ml



Manual Integration Results

RT: 25.85
Height: 11941
Amount: 201.6608
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:42:22
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

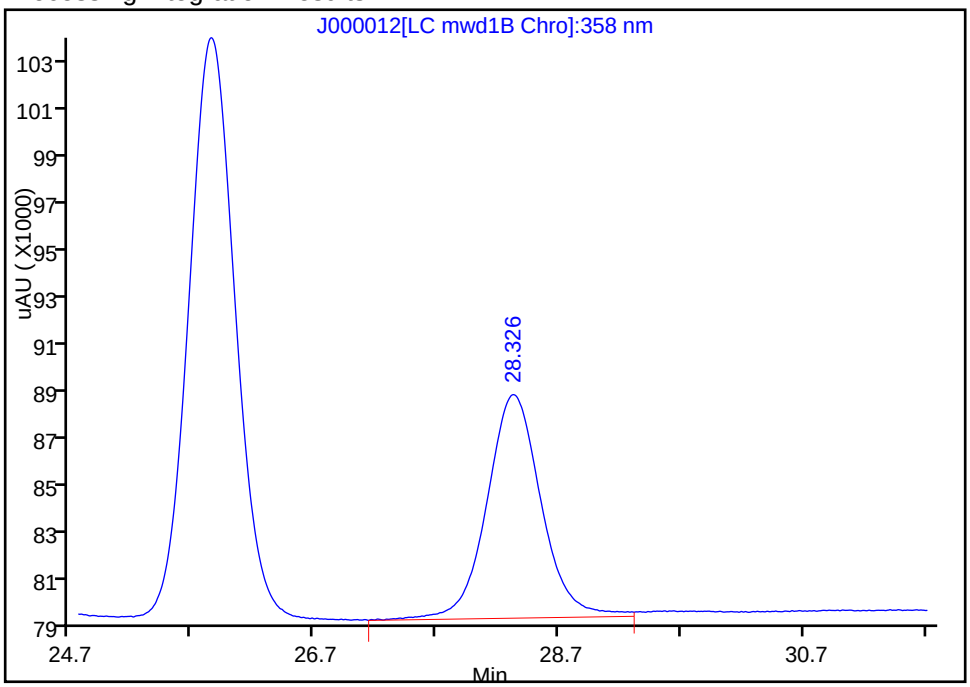
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000012.D
Injection Date: 11-Mar-2015 19:25:50 Instrument ID: LC10
Lims ID: IC 6
Client ID:
Operator ID: YPH ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

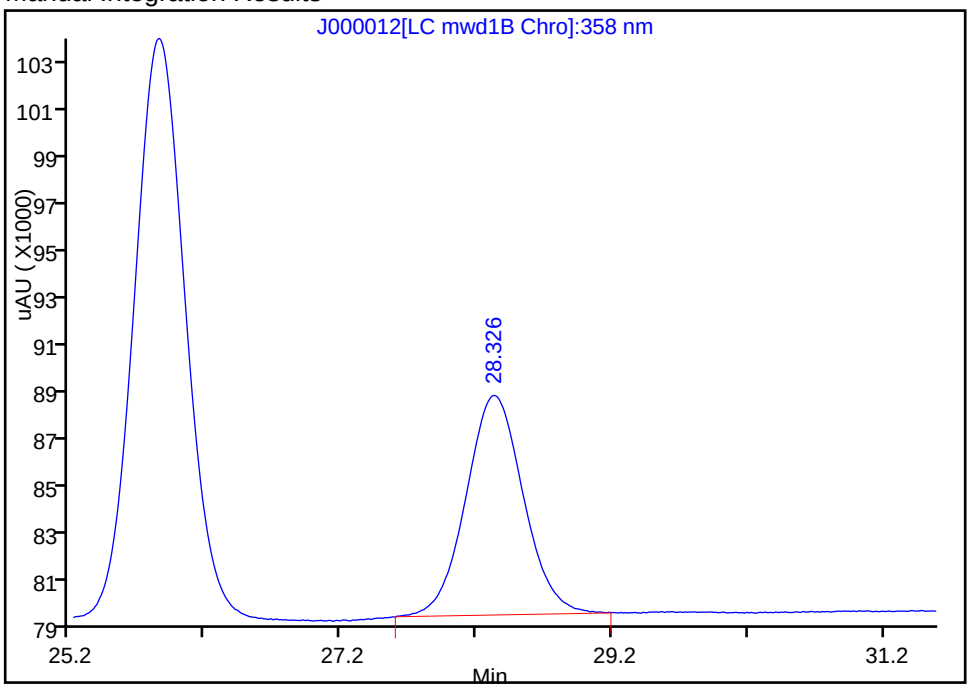
Processing Integration Results

RT: 28.33
Height: 9352
Amount: 173.1834
Amount Units: ng/ml



Manual Integration Results

RT: 28.33
Height: 9185
Amount: 206.6785
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:18:03
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Mar-2015 20:09:31 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-010
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:12:35 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:32

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.137	5.149	-0.012	66359H	500.0	451.1	
19 RDX							M
1	7.377	7.406	-0.029	41667H	500.0	411.0	M
3 Ethylene glycol dinitrate							
2	8.030	8.056	-0.026	52920H	500.0	438.5	
10 2,4,6-Trinitrophenol							
2	8.460	8.579	-0.119	117189H	1000.0	896.8	
1	8.460	8.579	-0.119	81577H	1000.0	887.9	
27 1,3,5-Trinitrobenzene							
1	9.597	9.623	-0.026	86016H	500.0	442.3	
24 1,3-Dinitrobenzene							
1	12.180	12.209	-0.029	81195H	500.0	434.6	
9 3,5-Dinitroaniline							
1	12.900	12.929	-0.029	53588H	500.0	435.6	
20 Tetryl							
1	13.434	13.449	-0.015	51470H	500.0	463.7	
5 Nitrobenzene							
1	13.904	13.939	-0.035	36745H	500.0	435.0	
7 Nitroglycerin							
2	14.727	14.749	-0.022	36154H	500.0	471.8	
25 2,4,6-Trinitrotoluene							
1	15.424	15.443	-0.019	52174H	500.0	459.1	
26 4-Amino-2,6-dinitrotoluene							
1	16.064	16.093	-0.029	40901H	500.0	446.9	
$ 30 3,4-Dinitrotoluene							M
1	16.517	16.539	-0.022	30678H	500.0	457.6	
2	16.517	16.539	-0.022	57741H	500.0	430.0	M
6 2-Amino-4,6-dinitrotoluene							
1	16.914	16.949	-0.035	45793H	500.0	448.4	
12 2,6-Dinitrotoluene							
1	18.497	18.526	-0.029	32681H	500.0	454.3	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.057	19.093	-0.036	53961H	500.0	456.2	
16 o-Nitrotoluene							
1	22.424	22.463	-0.039	23683H	500.0	451.9	
15 p-Nitrotoluene							
1	24.057	24.083	-0.026	28823H	500.0	457.8	
8 m-Nitrotoluene							
1	25.817	25.843	-0.026	27029H	500.0	456.5	
21 PETN							M
2	28.304	28.309	-0.005	21745H	500.0	489.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330L7_00018 Amount Added: 1.00 Units: mL

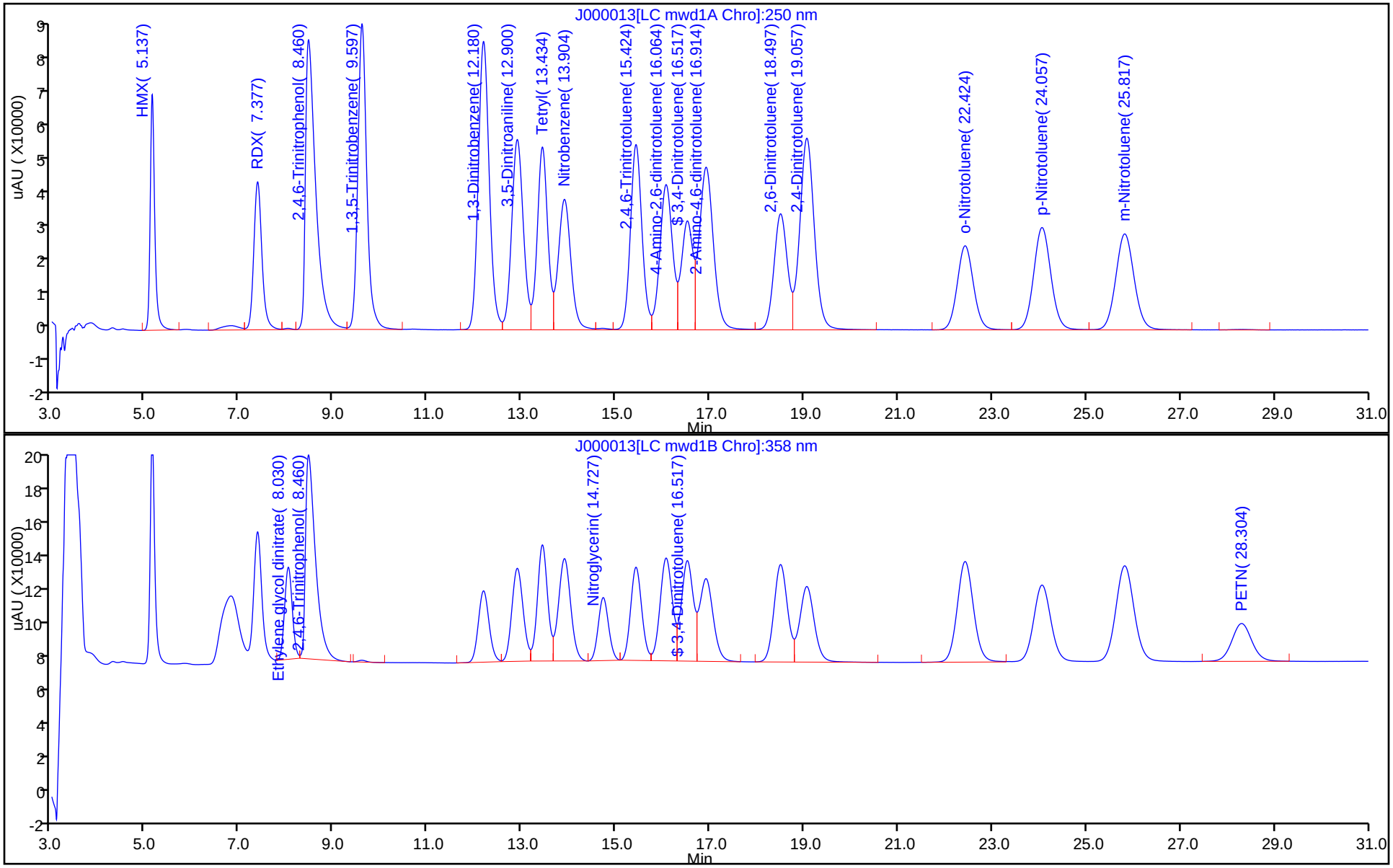
Report Date: 12-Mar-2015 11:12:36 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Injection Date:	11-Mar-2015 20:09:31	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

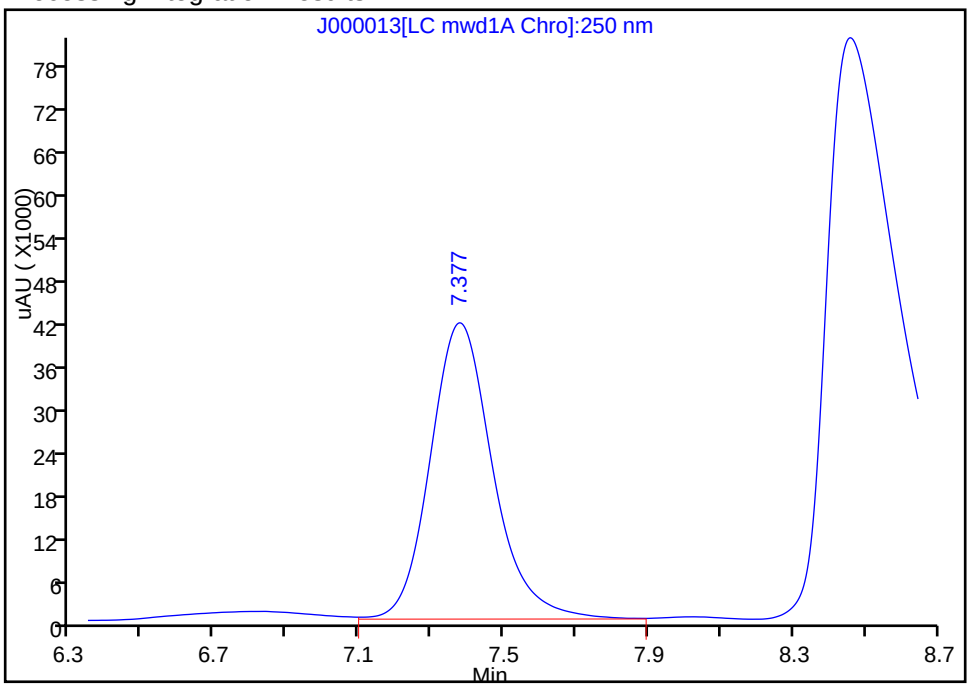
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D				
Injection Date:	11-Mar-2015 20:09:31	Instrument ID:	LC10		
Lims ID:	IC 7				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

19 RDX, CAS: 121-82-4

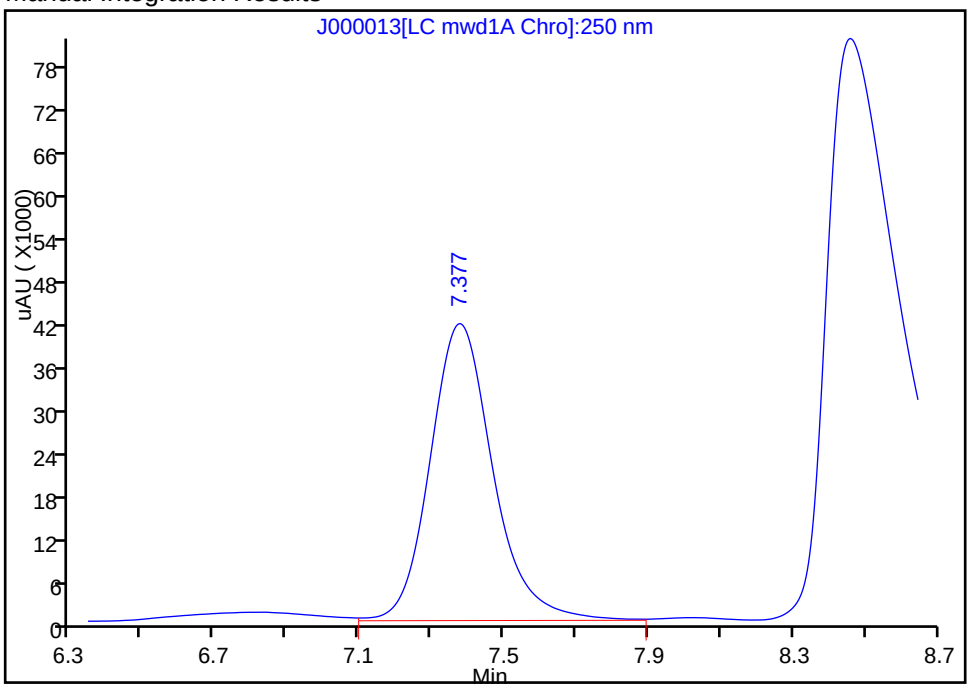
Processing Integration Results

RT: 7.38
Height: 41572
Amount: 409.7990
Amount Units: ng/ml



Manual Integration Results

RT: 7.38
Height: 41667
Amount: 410.9727
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:47:57
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

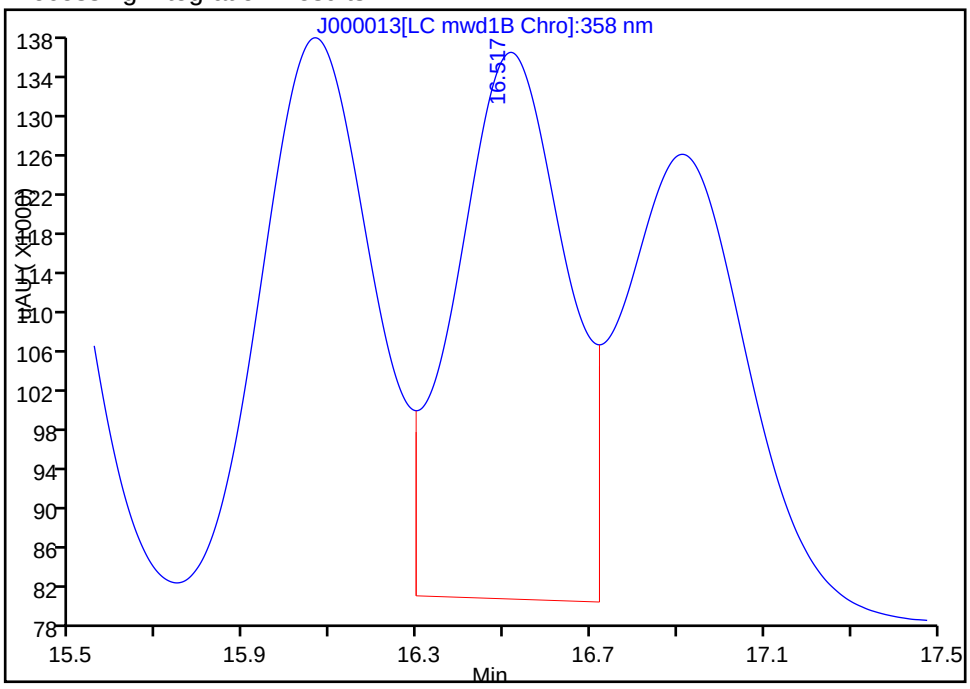
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D
Injection Date: 11-Mar-2015 20:09:31 Instrument ID: LC10
Lims ID: IC 7
Client ID:
Operator ID: YPH ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

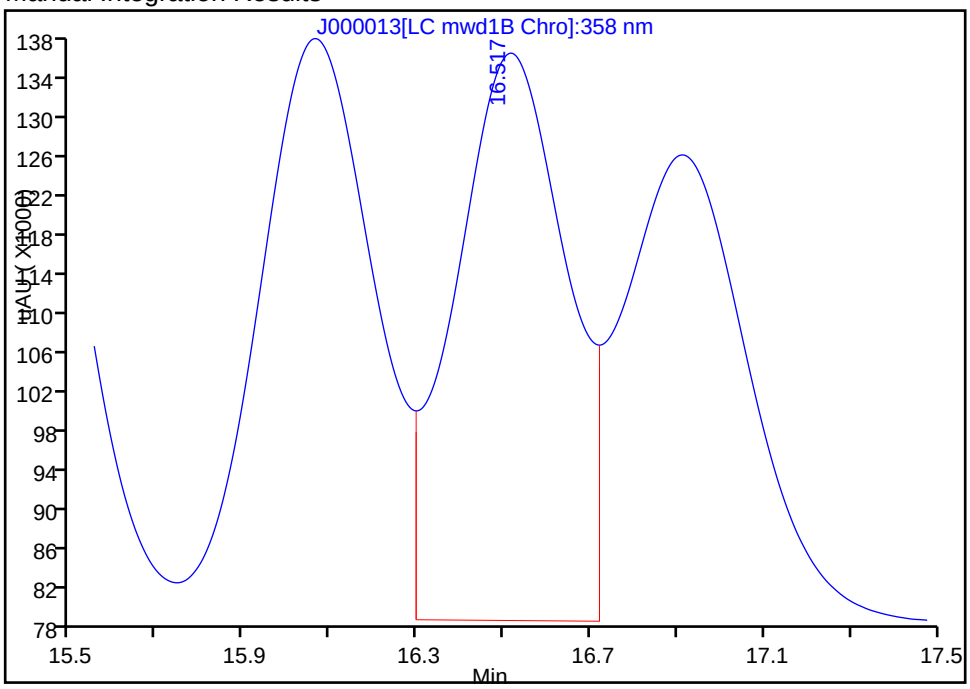
Processing Integration Results

RT: 16.52
Height: 55541
Amount: 414.9487
Amount Units: ng/ml



Manual Integration Results

RT: 16.52
Height: 57741
Amount: 430.0356
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:25:52
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

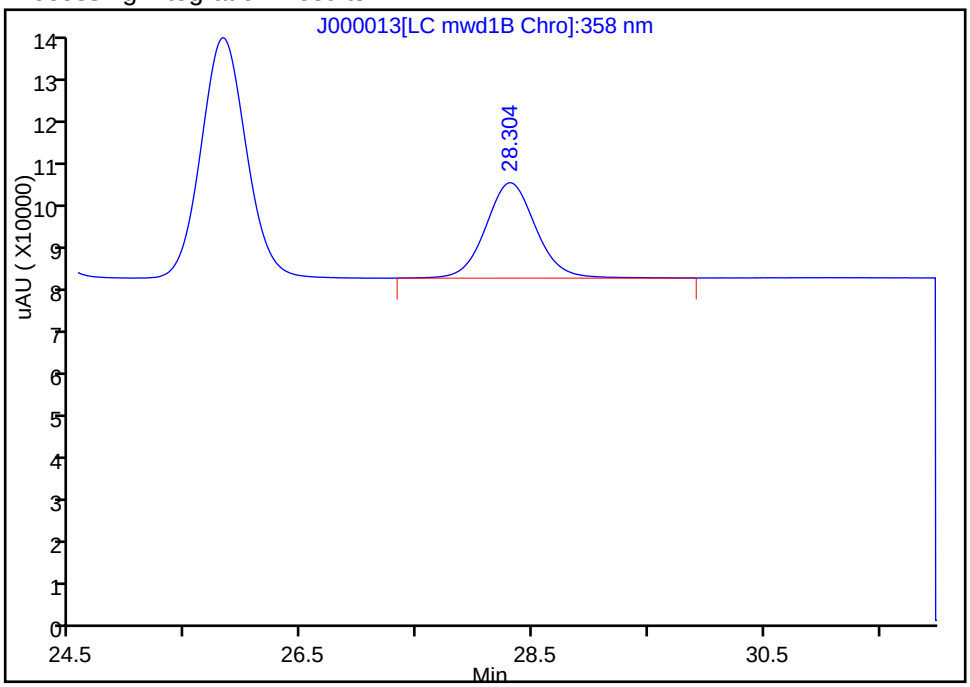
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D
Injection Date: 11-Mar-2015 20:09:31 Instrument ID: LC10
Lims ID: IC 7
Client ID:
Operator ID: YPH ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

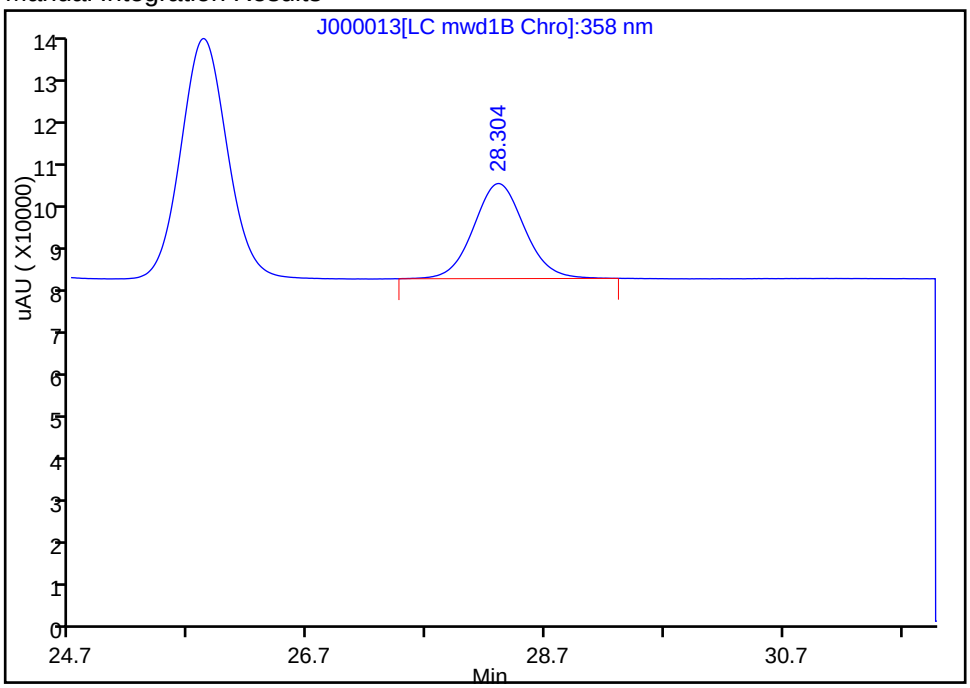
Processing Integration Results

RT: 28.30
Height: 21827
Amount: 405.0943
Amount Units: ng/ml



Manual Integration Results

RT: 28.30
Height: 21745
Amount: 489.3004
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:18:18
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 320-67883/12 Calibration Date: 03/11/2015 21:36

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000015.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	153.2		208	200	4.2	20.0
RDX	Ave	101.4	101.4		200	200	0.0	20.0
Ethylene glycol dinitrate	Ave	120.7	117.5		195	200	-2.6	20.0
Picric acid	Ave	130.7	122.9		470	500	-6.0	20.0
1,3,5-Trinitrobenzene	Ave	194.5	192.2		198	200	-1.1	20.0
1,3-Dinitrobenzene	Ave	186.8	188.0		201	200	0.6	20.0
3,5-Dinitroaniline	Ave	123.0	114.9		187	200	-6.6	20.0
Tetryl	Ave	111.0	116.3		210	200	4.8	20.0
Nitrobenzene	Ave	84.47	85.70		203	200	1.4	20.0
Nitroglycerin	Ave	76.63	75.99		198	200	-0.8	20.0
2,4,6-Trinitrotoluene	Ave	113.7	119.5		210	200	5.1	20.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	91.47		200	200	-0.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	101.8		199	200	-0.4	20.0
2,6-Dinitrotoluene	Ave	71.94	73.30		204	200	1.9	20.0
2,4-Dinitrotoluene	Ave	118.3	119.3		202	200	0.9	20.0
2-Nitrotoluene	Ave	52.41	51.47		196	200	-1.8	20.0
4-Nitrotoluene	Ave	62.96	61.65		196	200	-2.1	20.0
3-Nitrotoluene	Ave	59.21	61.46		208	200	3.8	20.0
PETN	Ave	44.44	43.56		196	200	-2.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICV 320-67883/12 Calibration Date: 03/11/2015 21:36

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000015.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.15	4.90	5.40
RDX	7.40	7.16	7.66
Ethylene glycol dinitrate	8.05	7.81	8.31
Picric acid	8.52	8.33	8.83
1,3,5-Trinitrobenzene	9.62	9.37	9.87
1,3-Dinitrobenzene	12.20	11.96	12.46
3,5-Dinitroaniline	12.92	12.68	13.18
Tetryl	13.44	13.20	13.70
Nitrobenzene	13.92	13.69	14.19
Nitroglycerin	14.74	14.50	15.00
2,4,6-Trinitrotoluene	15.44	15.19	15.69
4-Amino-2,6-dinitrotoluene	16.08	15.84	16.34
2-Amino-4,6-dinitrotoluene	16.94	16.70	17.20
2,6-Dinitrotoluene	18.52	18.28	18.78
2,4-Dinitrotoluene	19.08	18.84	19.34
2-Nitrotoluene	22.45	22.21	22.71
4-Nitrotoluene	24.08	23.83	24.33
3-Nitrotoluene	25.84	25.59	26.09
PETN	28.31	28.06	28.56

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000015.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 11-Mar-2015 21:36:48 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-012
Operator ID: YPH Instrument ID: LC10
Sublist:

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:03:41 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:46

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.148	5.149	-0.001	30648H	200.0	208.3	
19 RDX							
1	7.398	7.406	-0.008	20278H	200.0	200.0	
3 Ethylene glycol dinitrate							
2	8.048	8.056	-0.008	23507H	200.0	194.8	
10 2,4,6-Trinitrophenol							
2	8.522	8.579	-0.057	61435H	500.0	470.1	
1	8.522	8.579	-0.057	42152H	500.0	458.8	
27 1,3,5-Trinitrobenzene							
1	9.615	9.623	-0.008	38448H	200.0	197.7	
24 1,3-Dinitrobenzene							
1	12.202	12.209	-0.007	37590H	200.0	201.2	
9 3,5-Dinitroaniline							
1	12.922	12.929	-0.007	22978H	200.0	186.8	
20 Tetryl							
1	13.442	13.449	-0.007	23257H	200.0	209.5	
5 Nitrobenzene							
1	13.922	13.939	-0.017	17139H	200.0	202.9	
7 Nitroglycerin							
2	14.739	14.749	-0.010	15198H	200.0	198.3	
25 2,4,6-Trinitrotoluene							
1	15.435	15.443	-0.008	23898H	200.0	210.3	
26 4-Amino-2,6-dinitrotoluene							
1	16.082	16.093	-0.011	18293H	200.0	199.9	
6 2-Amino-4,6-dinitrotoluene							
1	16.942	16.949	-0.007	20352H	200.0	199.3	
12 2,6-Dinitrotoluene							
1	18.519	18.526	-0.007	14659H	200.0	203.8	
23 2,4-Dinitrotoluene							
1	19.079	19.093	-0.014	23862H	200.0	201.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
16 o-Nitrotoluene							
1	22.449	22.463	-0.014	10293H	200.0	196.4	
15 p-Nitrotoluene							
1	24.079	24.083	-0.004	12330H	200.0	195.8	
8 m-Nitrotoluene							
1	25.842	25.843	-0.001	12292H	200.0	207.6	
21 PETN							M
2	28.309	28.309	0.000	8711H	200.0	196.0	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330IC_00028 Amount Added: 1.00 Units: mL

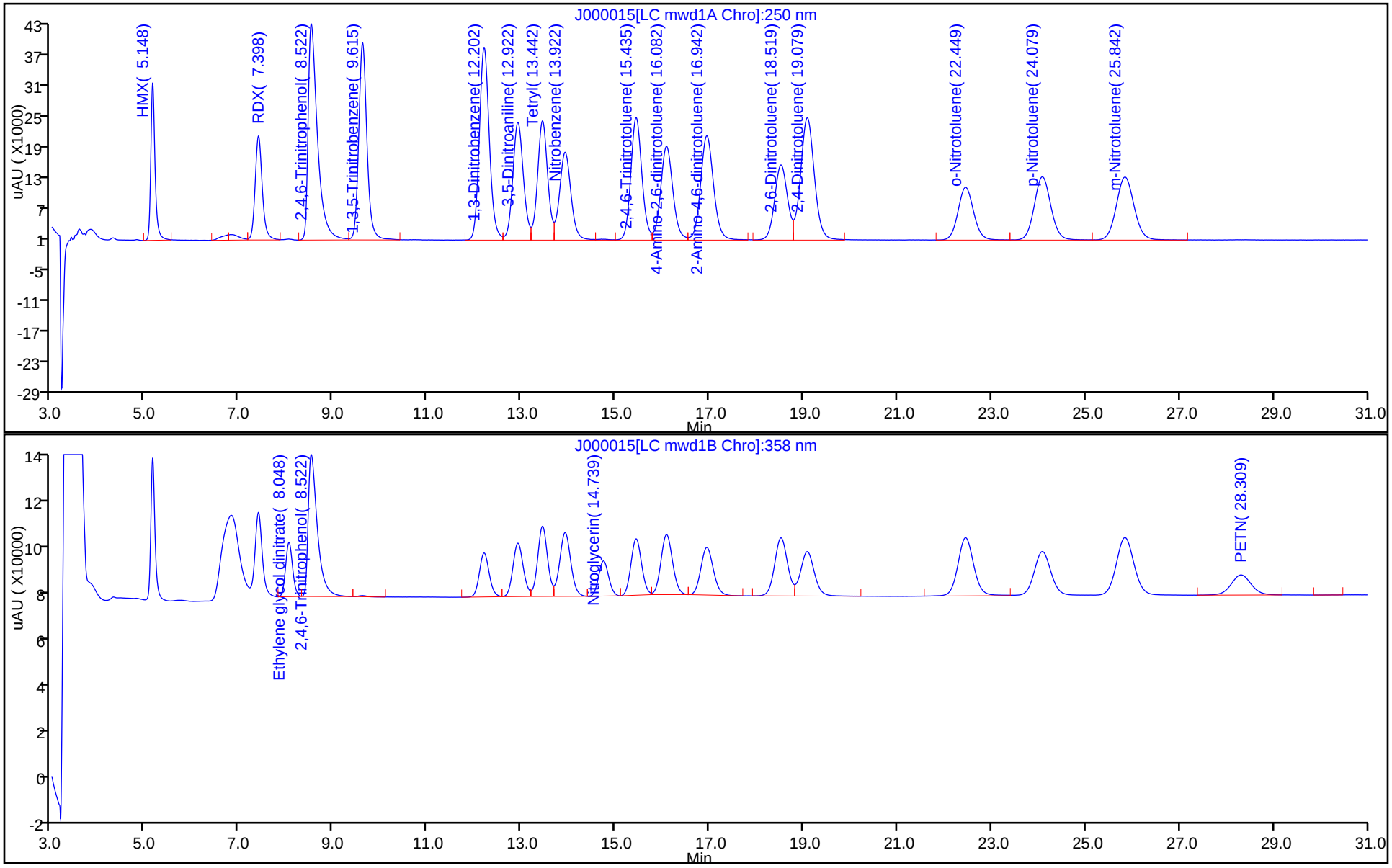
Report Date: 12-Mar-2015 11:04:14 Chrom Revision: 2.2 06-Mar-2015 13:13:48

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000015.D

Injection Date:	11-Mar-2015 21:36:48	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



Manual Integration/User Assign Peak Report

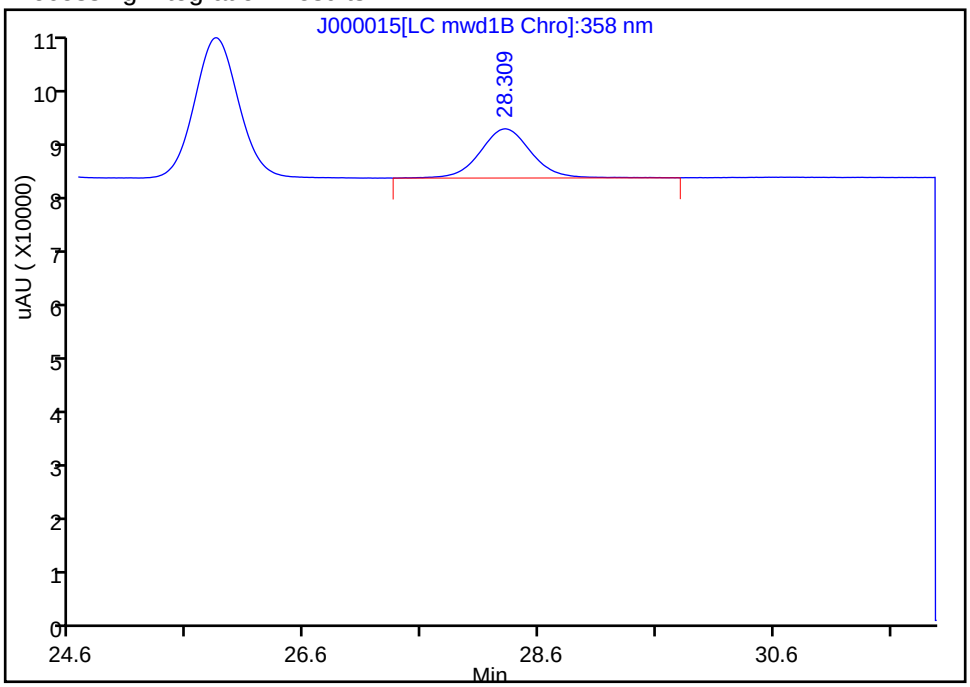
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000015.D
Injection Date: 11-Mar-2015 21:36:48 Instrument ID: LC10
Lims ID: ICV
Client ID:
Operator ID: YPH ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

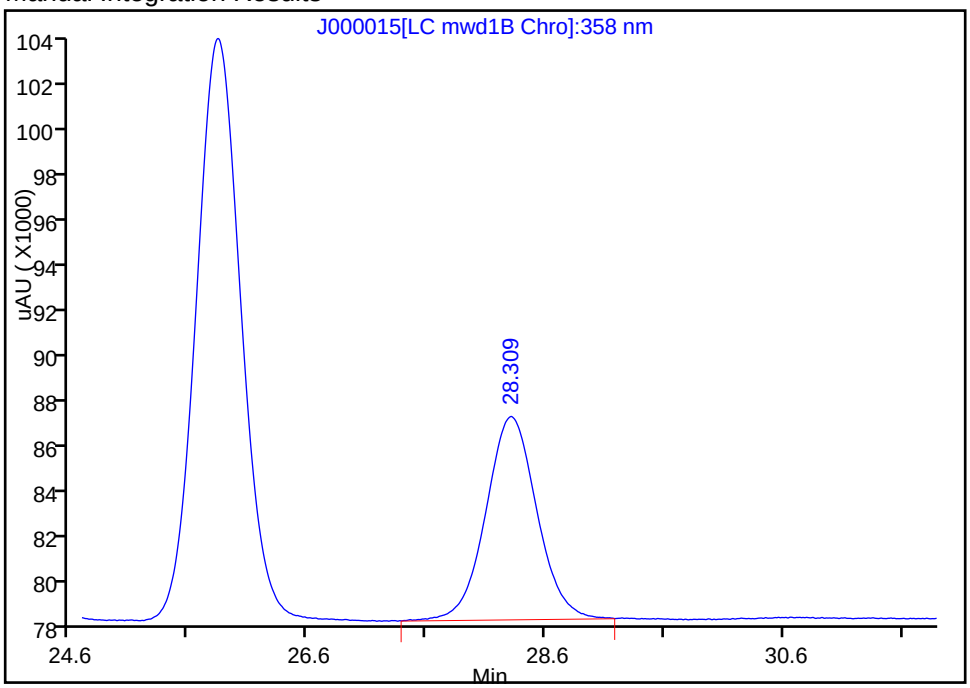
Processing Integration Results

RT: 28.31
Height: 8747
Amount: 194.2303
Amount Units: ng/ml



Manual Integration Results

RT: 28.31
Height: 8711
Amount: 196.0127
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:43:30
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 320-67883/13 Calibration Date: 03/11/2015 22:20

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000016.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	147.0		5.00	5.00	-0.0	
RDX	Ave	101.4	117.2		5.78	5.00	15.6	
Ethylene glycol dinitrate	Ave	120.7	123.9		20.5	20.0	2.6	
Picric acid	Ave	130.7	135.5		20.7	20.0	3.7	
1,3,5-Trinitrobenzene	Ave	194.5	208.2		5.35	5.00	7.1	
1,3-Dinitrobenzene	Ave	186.8	201.2		5.38	5.00	7.7	
3,5-Dinitroaniline	Ave	123.0	130.8		5.32	5.00	6.3	
Tetryl	Ave	111.0	126.0		5.68	5.00	13.5	
Nitrobenzene	Ave	84.47	92.20		5.46	5.00	9.1	
Nitroglycerin	Ave	76.63	81.50		21.3	20.0	6.4	
2,4,6-Trinitrotoluene	Ave	113.7	123.4		5.43	5.00	8.6	
4-Amino-2,6-dinitrotoluene	Ave	91.51	90.60		4.95	5.00	-1.0	
2-Amino-4,6-dinitrotoluene	Ave	102.1	105.2		5.15	5.00	3.0	
2,6-Dinitrotoluene	Ave	71.94	77.80		5.41	5.00	8.1	
2,4-Dinitrotoluene	Ave	118.3	131.2		5.55	5.00	10.9	
2-Nitrotoluene	Ave	52.41	56.80		5.42	5.00	8.4	
4-Nitrotoluene	Ave	62.96	67.40		5.35	5.00	7.1	
3-Nitrotoluene	Ave	59.21	65.20		5.51	5.00	10.1	
PETN	Ave	44.44	45.05		20.3	20.0	1.4	
3,4-Dinitrotoluene	Ave	67.04	70.20		5.24	5.00	4.7	

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: LODV 320-67883/13 Calibration Date: 03/11/2015 22:20

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: J000016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.15	4.90	5.40
RDX	7.40	7.16	7.66
Ethylene glycol dinitrate	8.05	7.81	8.31
Picric acid	8.63	8.33	8.83
1,3,5-Trinitrobenzene	9.62	9.37	9.87
1,3-Dinitrobenzene	12.21	11.96	12.46
3,5-Dinitroaniline	12.92	12.68	13.18
Tetryl	13.47	13.20	13.70
Nitrobenzene	13.94	13.69	14.19
Nitroglycerin	14.76	14.50	15.00
2,4,6-Trinitrotoluene	15.44	15.19	15.69
4-Amino-2,6-dinitrotoluene	16.11	15.84	16.34
2-Amino-4,6-dinitrotoluene	16.95	16.70	17.20
2,6-Dinitrotoluene	18.51	18.28	18.78
2,4-Dinitrotoluene	19.10	18.84	19.34
2-Nitrotoluene	22.47	22.21	22.71
4-Nitrotoluene	24.08	23.83	24.33
3-Nitrotoluene	25.88	25.59	26.09
PETN	28.37	28.06	28.56
3,4-Dinitrotoluene	16.55	16.29	16.79

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Lims ID: LODV
Client ID:
Sample Type: LODV
Inject. Date: 11-Mar-2015 22:20:25 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0020096-013
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150311-20096.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 12-Mar-2015 11:04:20 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK019

First Level Reviewer: phant Date: 12-Mar-2015 06:15:58

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.154	5.149	0.005	735H	5.00	5.00	
19 RDX							
1	7.404	7.406	-0.002	586H	5.00	5.78	
3 Ethylene glycol dinitrate							
2	8.054	8.056	-0.002	2477H	20.0	20.5	
10 2,4,6-Trinitrophenol							
2	8.627	8.579	0.048	2710H	20.0	20.7	
1	8.624	8.579	0.045	1904H	20.0	20.7	
27 1,3,5-Trinitrobenzene							
1	9.624	9.623	0.001	1041H	5.00	5.35	
24 1,3-Dinitrobenzene							M
1	12.211	12.209	0.002	1006H	5.00	5.38	M
9 3,5-Dinitroaniline							M
1	12.921	12.929	-0.008	654H	5.00	5.32	M
20 Tetryl							M
1	13.468	13.449	0.019	630H	5.00	5.68	M
5 Nitrobenzene							M
1	13.944	13.939	0.005	461H	5.00	5.46	M
7 Nitroglycerin							
2	14.764	14.749	0.015	1630H	20.0	21.3	
25 2,4,6-Trinitrotoluene							M
1	15.444	15.443	0.001	617H	5.00	5.43	M
26 4-Amino-2,6-dinitrotoluene							M
1	16.108	16.093	0.015	453H	5.00	4.95	M
$ 30 3,4-Dinitrotoluene							M
1	16.554	16.539	0.015	351H	5.00	5.24	M
2	16.558	16.539	0.019	726H	5.00	5.41	
6 2-Amino-4,6-dinitrotoluene							M
1	16.951	16.949	0.002	526H	5.00	5.15	M
12 2,6-Dinitrotoluene							M
1	18.511	18.526	-0.015	389H	5.00	5.41	M

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							M
1	19.098	19.093	0.005	656H	5.00	5.55	M
16 o-Nitrotoluene							M
1	22.468	22.463	0.005	284H	5.00	5.42	M
15 p-Nitrotoluene							M
1	24.081	24.083	-0.002	337H	5.00	5.35	M
8 m-Nitrotoluene							M
1	25.878	25.843	0.035	326H	5.00	5.51	M
21 PETN							M
2	28.368	28.309	0.059	901H	20.0	20.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330ICL_00019 Amount Added: 1.00 Units: mL

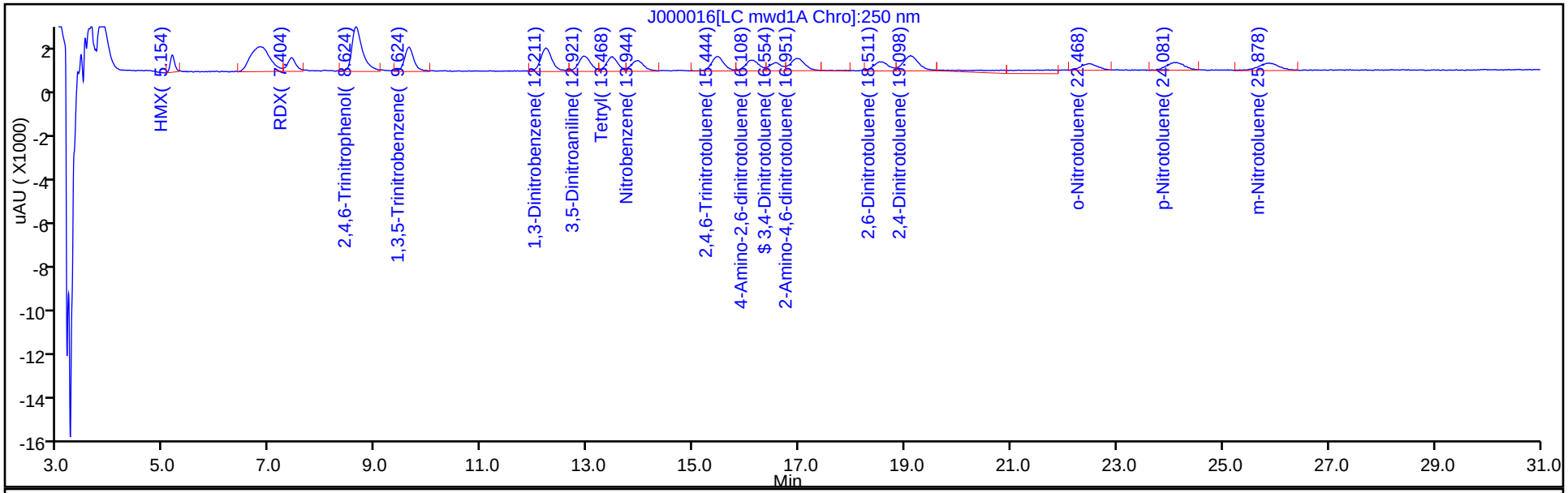
Report Date: 12-Mar-2015 11:04:22 Chrom Revision: 2.2 06-Mar-2015 13:13:48

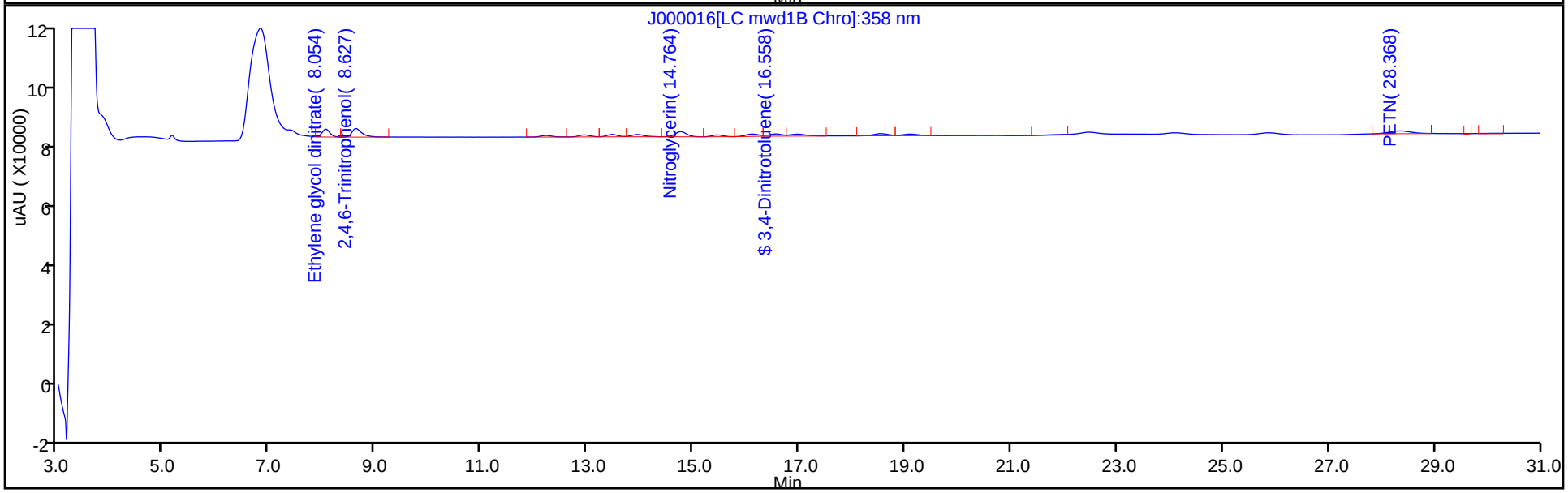
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D

Injection Date:	11-Mar-2015 22:20:25	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	LODV			Worklist Smp#:	13
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

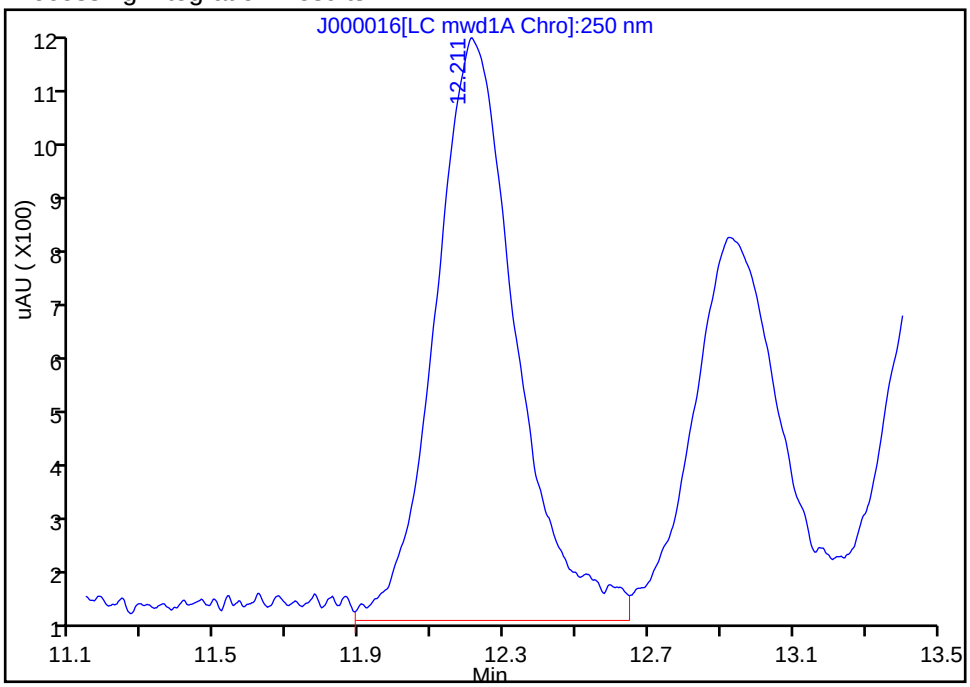
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

24 1,3-Dinitrobenzene, CAS: 99-65-0

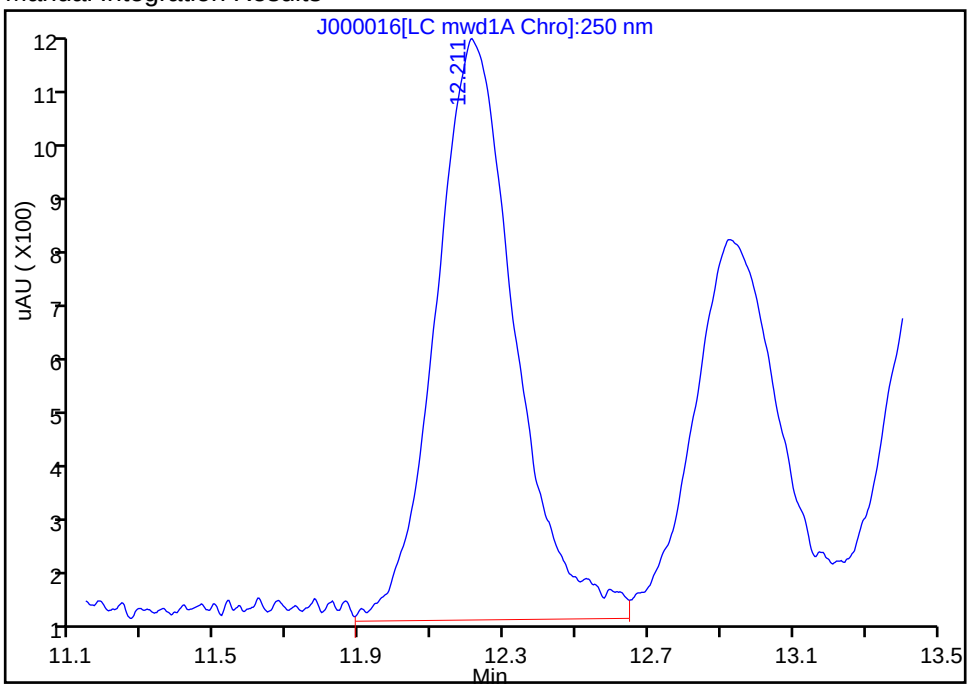
Processing Integration Results

RT: 12.21
Height: 1015
Amount: 5.432954
Amount Units: ng/ml



Manual Integration Results

RT: 12.21
Height: 1006
Amount: 5.384780
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

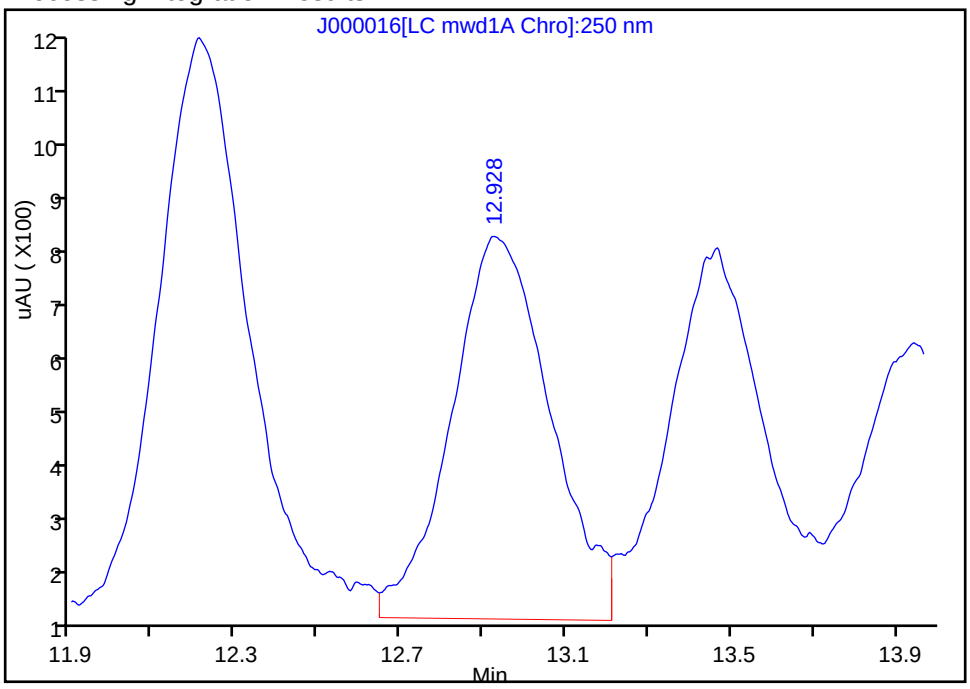
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

9 3,5-Dinitroaniline, CAS: 618-87-1

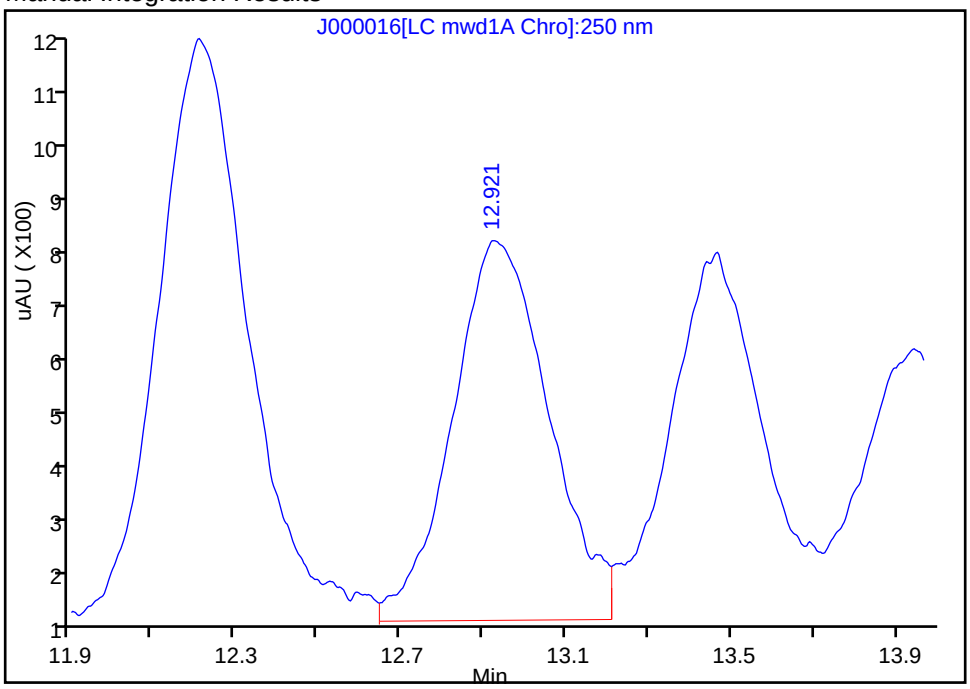
Processing Integration Results

RT: 12.93
Height: 670
Amount: 5.446832
Amount Units: ng/ml



Manual Integration Results

RT: 12.92
Height: 654
Amount: 5.316758
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

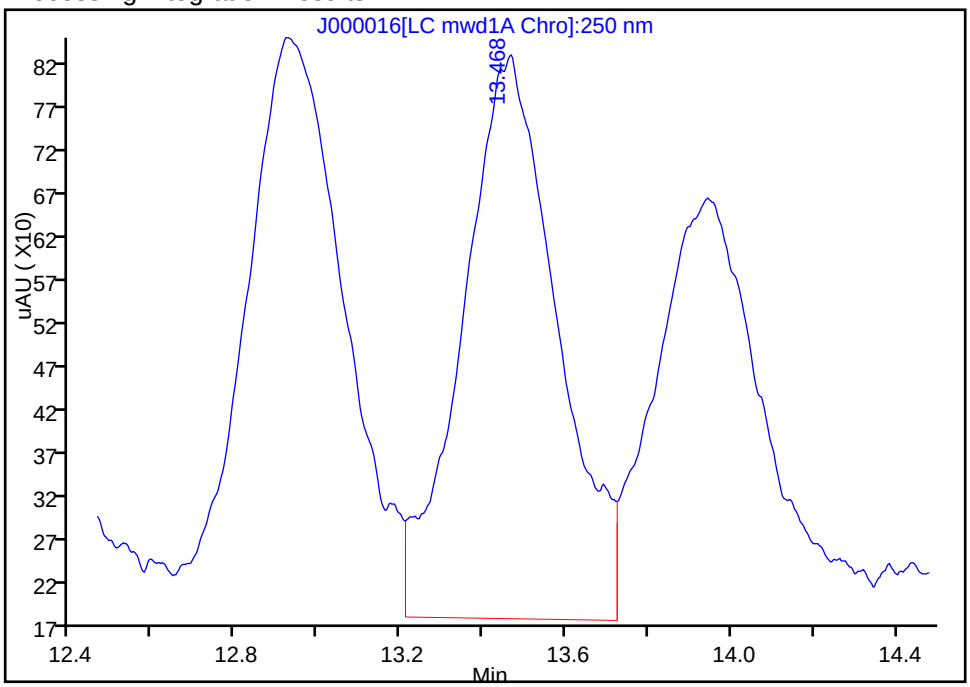
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

20 Tetryl, CAS: 479-45-8

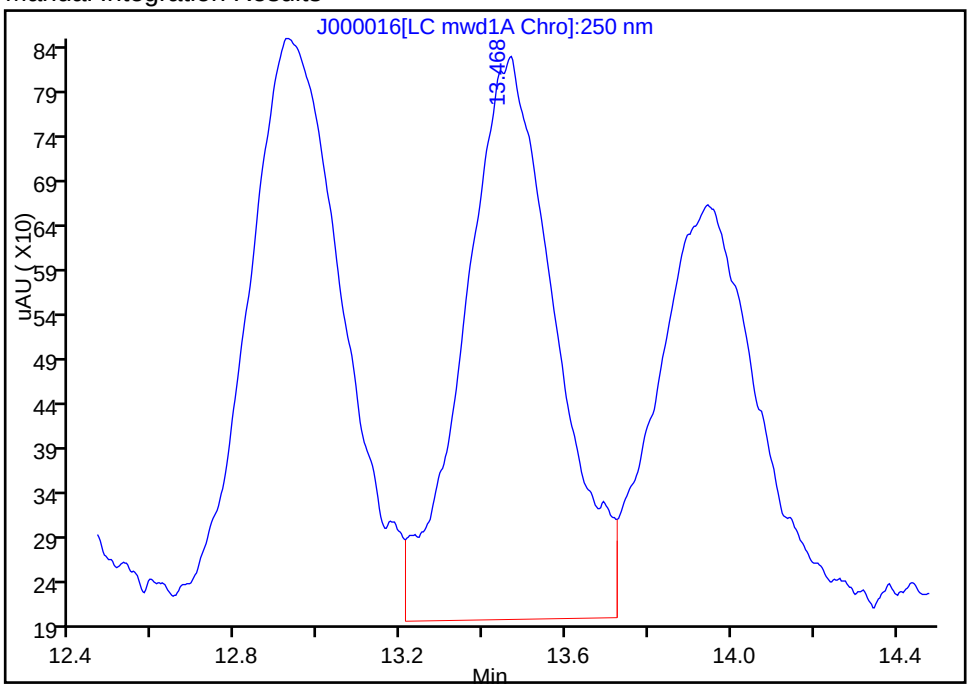
Processing Integration Results

RT: 13.47
Height: 654
Amount: 5.891930
Amount Units: ng/ml



Manual Integration Results

RT: 13.47
Height: 630
Amount: 5.675712
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

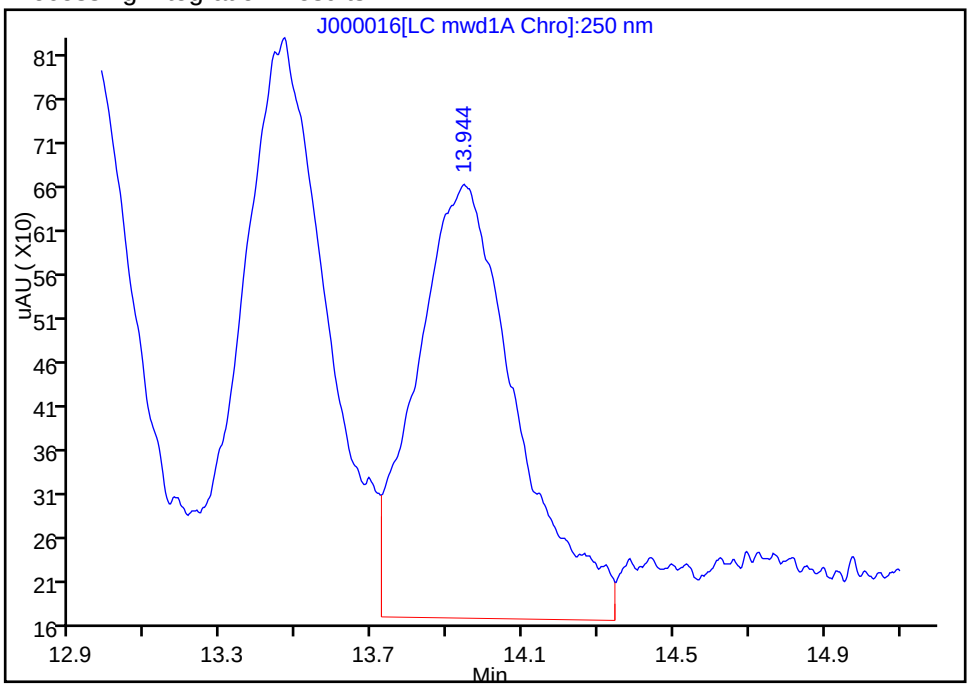
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

5 Nitrobenzene, CAS: 98-95-3

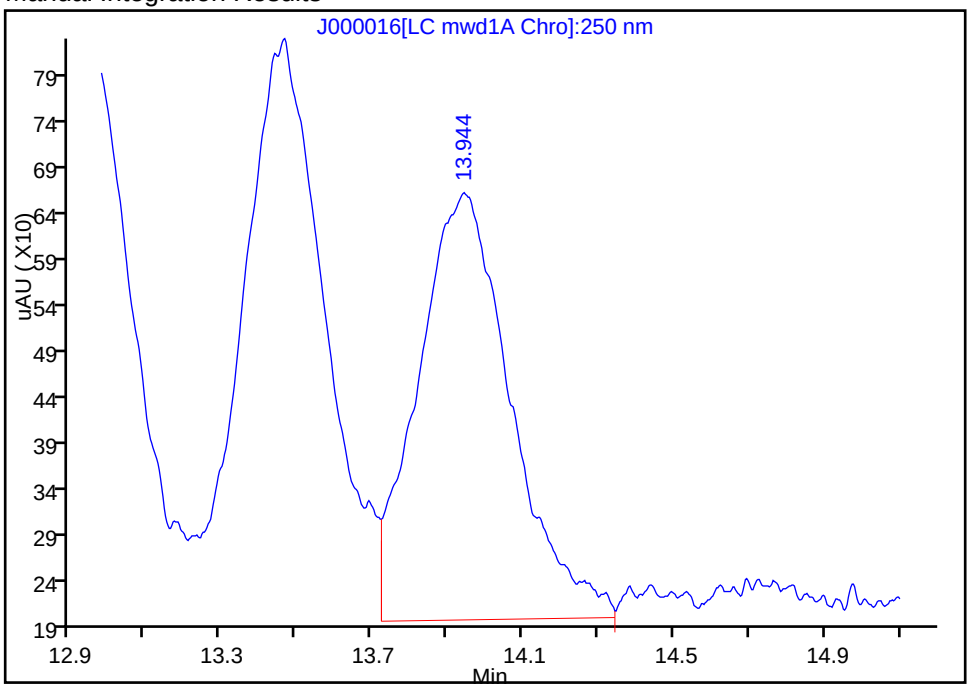
Processing Integration Results

RT: 13.94
Height: 492
Amount: 5.824307
Amount Units: ng/ml



Manual Integration Results

RT: 13.94
Height: 461
Amount: 5.457328
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

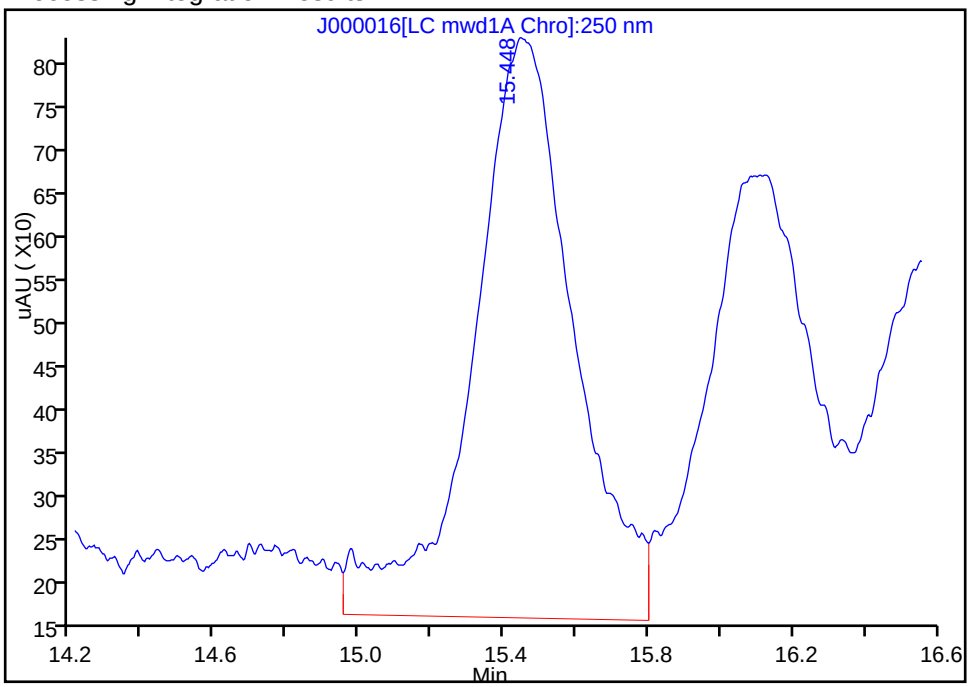
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D				
Injection Date:	11-Mar-2015 22:20:25	Instrument ID:	LC10		
Lims ID:	LODV				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	12	Worklist Smp#:	13
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

25 2,4,6-Trinitrotoluene, CAS: 118-96-7

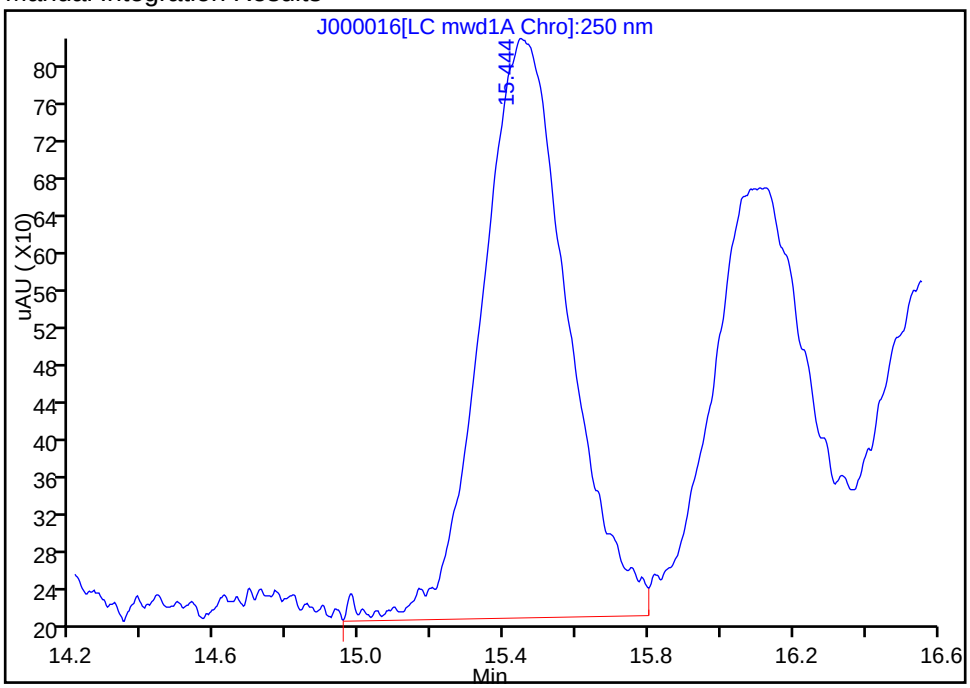
Processing Integration Results

RT: 15.45
Height: 672
Amount: 5.912720
Amount Units: ng/ml



Manual Integration Results

RT: 15.44
Height: 617
Amount: 5.428792
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

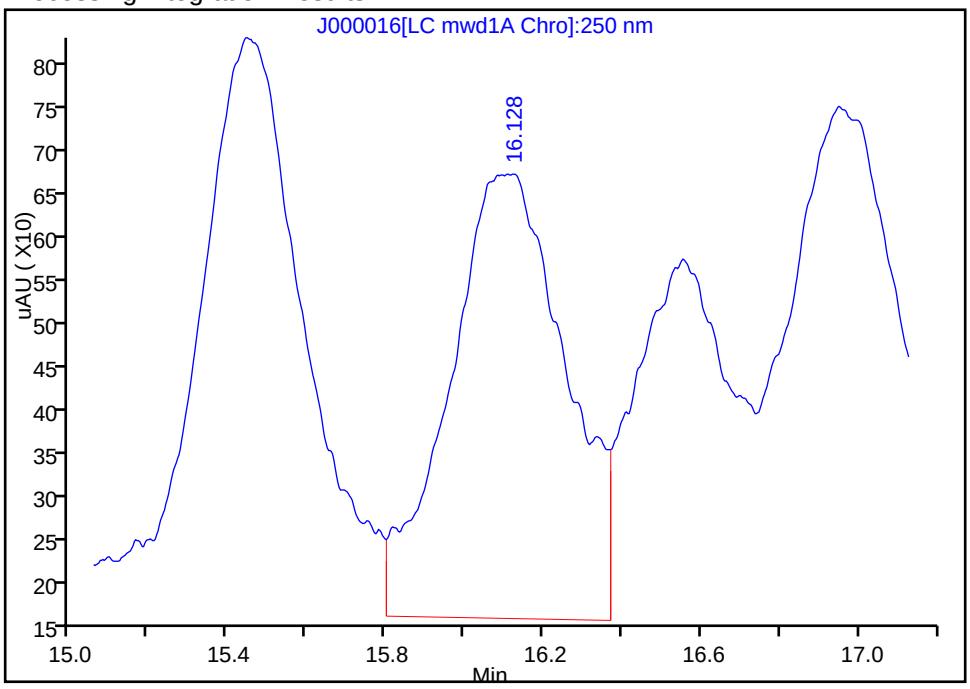
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

26 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

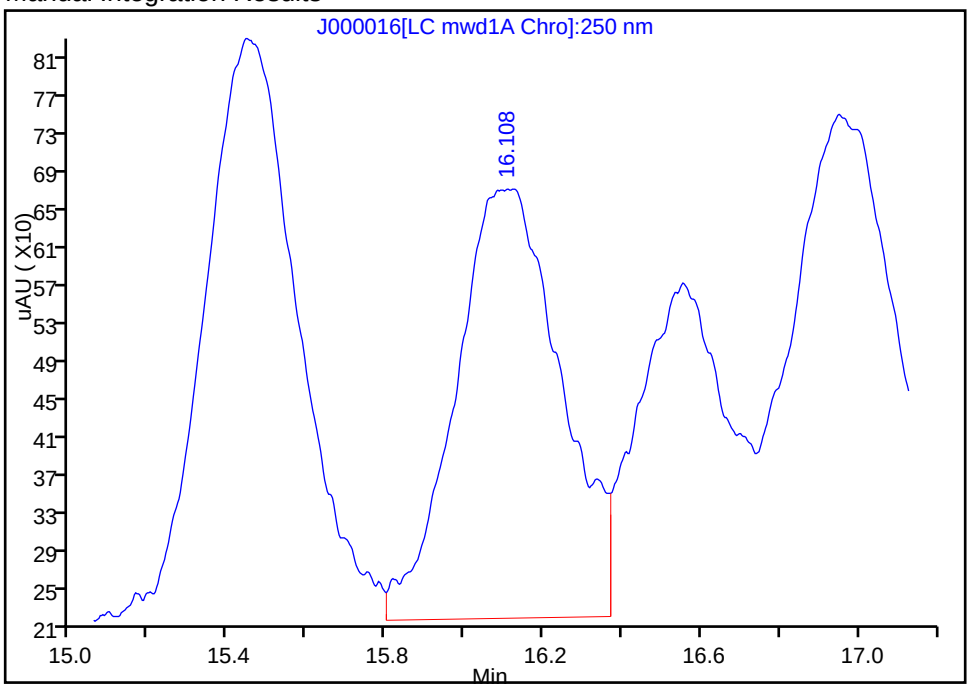
Processing Integration Results

RT: 16.13
Height: 518
Amount: 5.660301
Amount Units: ng/ml



Manual Integration Results

RT: 16.11
Height: 453
Amount: 4.950031
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

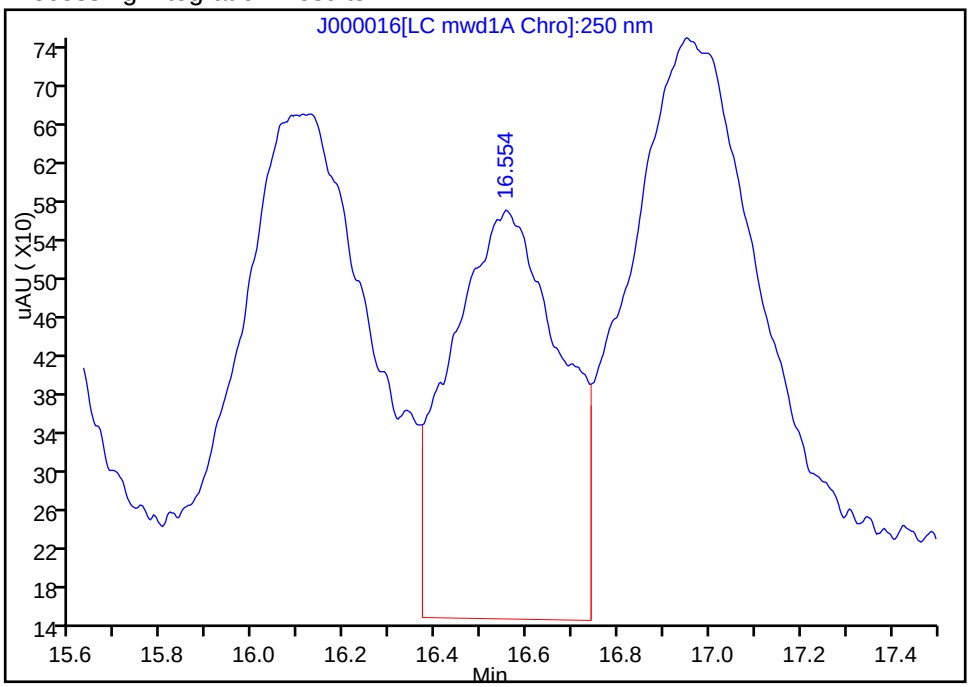
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

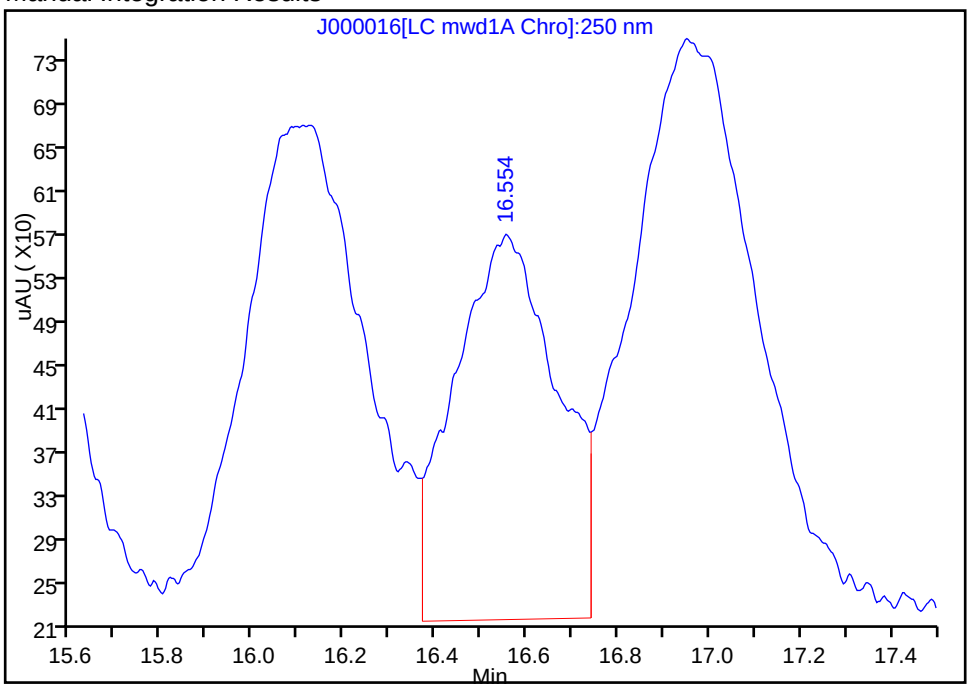
Processing Integration Results

RT: 16.55
Height: 423
Amount: 6.310123
Amount Units: ng/ml



Manual Integration Results

RT: 16.55
Height: 351
Amount: 5.236060
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

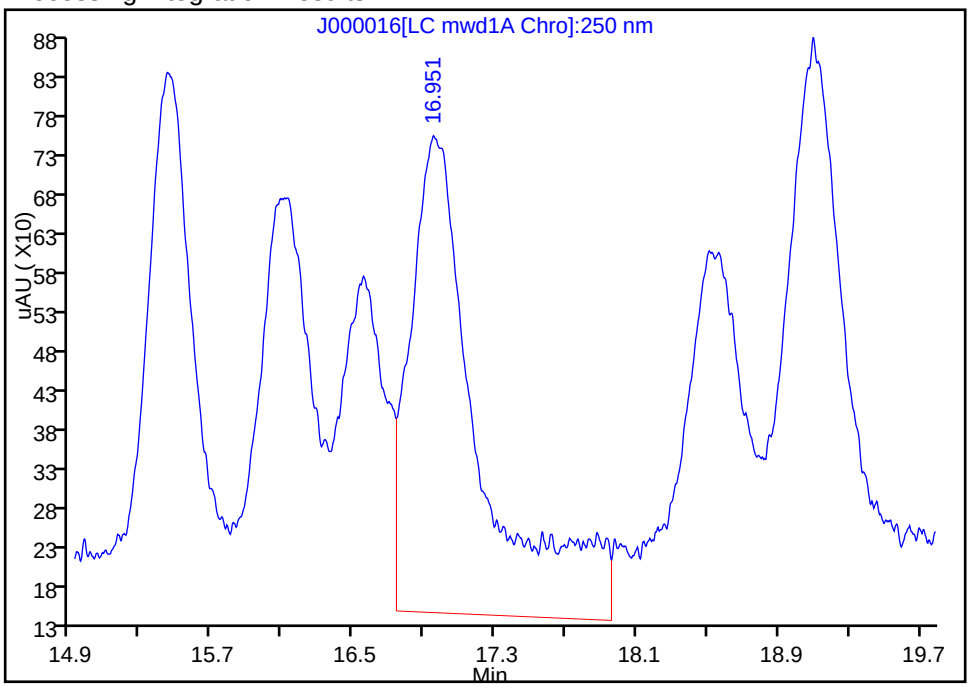
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

6 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

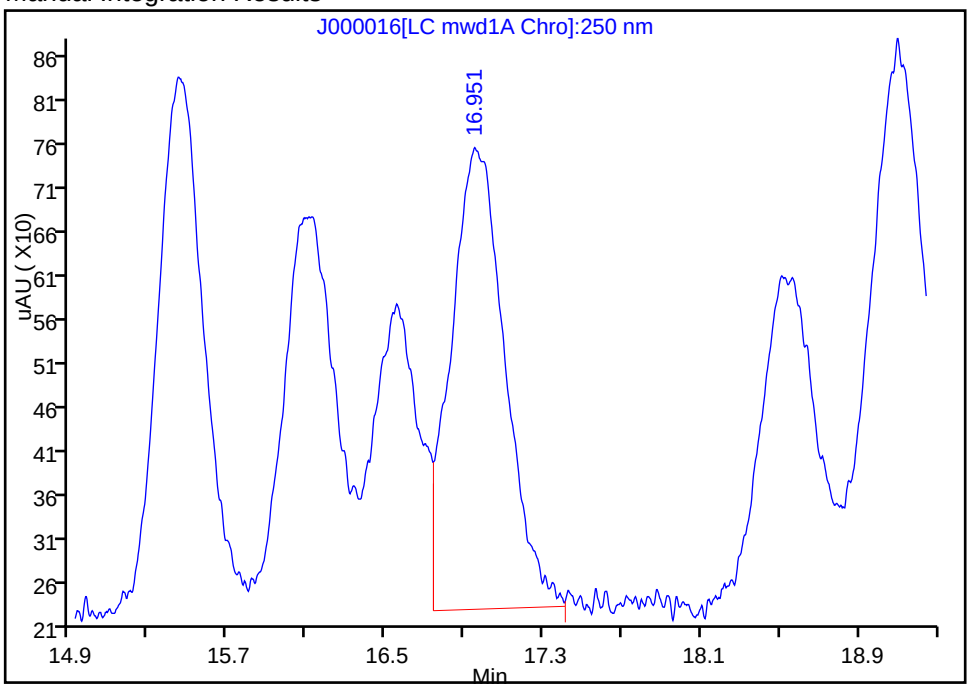
Processing Integration Results

RT: 16.95
Height: 605
Amount: 5.923483
Amount Units: ng/ml



Manual Integration Results

RT: 16.95
Height: 526
Amount: 5.150003
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

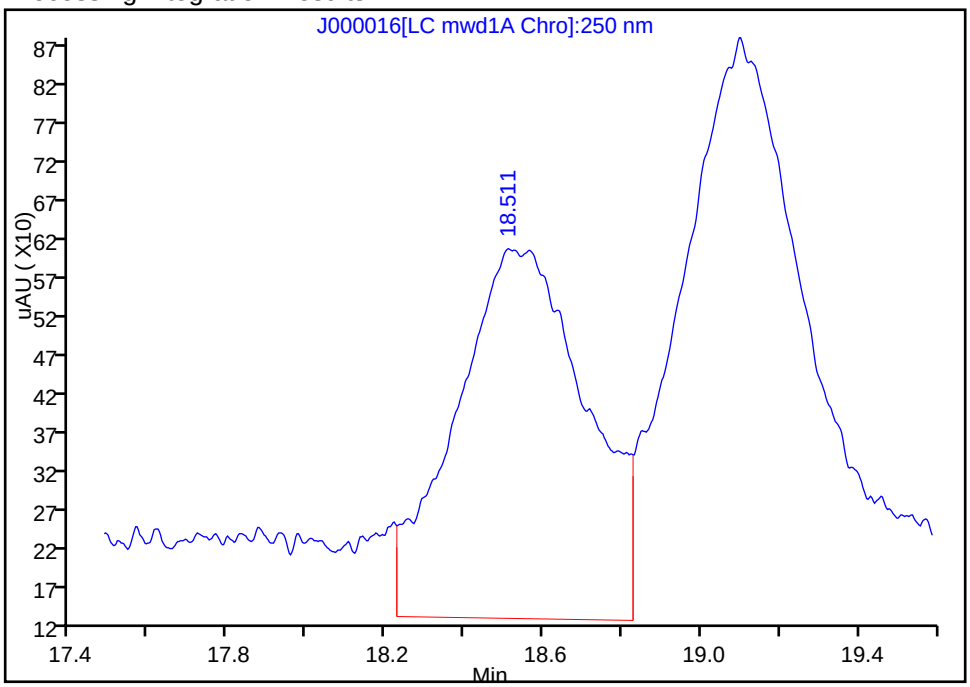
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

12 2,6-Dinitrotoluene, CAS: 606-20-2

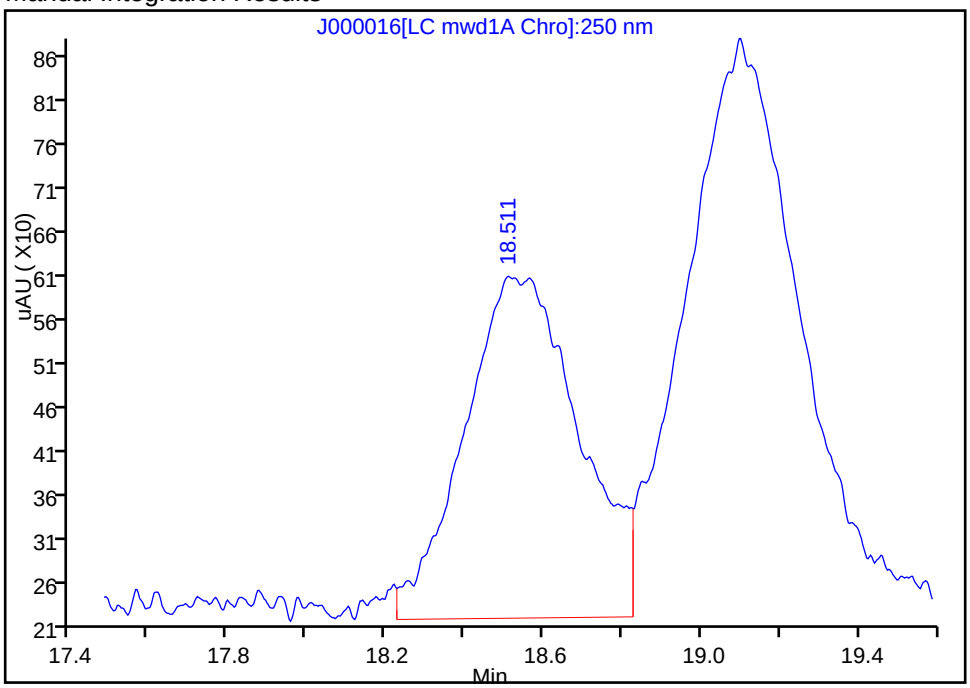
Processing Integration Results

RT: 18.51
Height: 474
Amount: 6.583438
Amount Units: ng/ml



Manual Integration Results

RT: 18.51
Height: 389
Amount: 5.407155
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

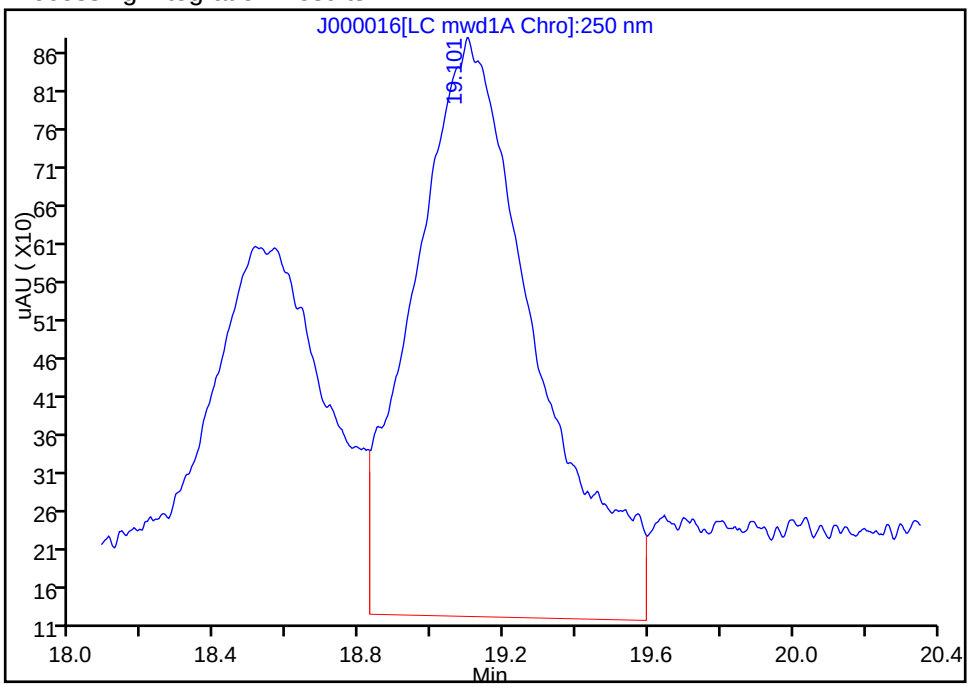
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

23 2,4-Dinitrotoluene, CAS: 121-14-2

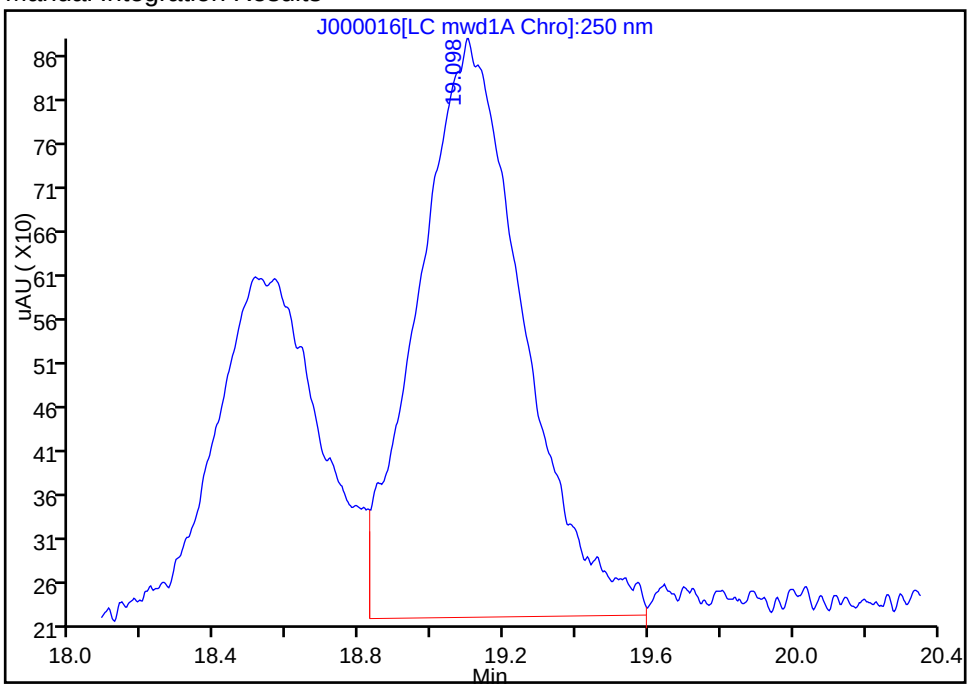
Processing Integration Results

RT: 19.10
Height: 749
Amount: 6.329167
Amount Units: ng/ml



Manual Integration Results

RT: 19.10
Height: 656
Amount: 5.545981
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

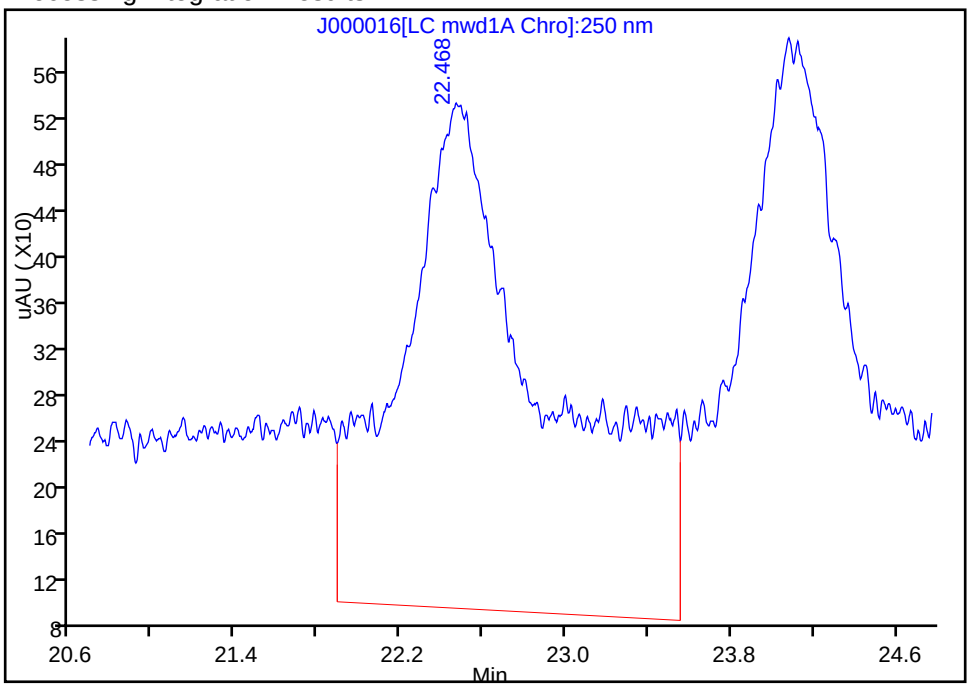
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D				
Injection Date:	11-Mar-2015 22:20:25	Instrument ID:	LC10		
Lims ID:	LODV				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	12	Worklist Smp#:	13
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

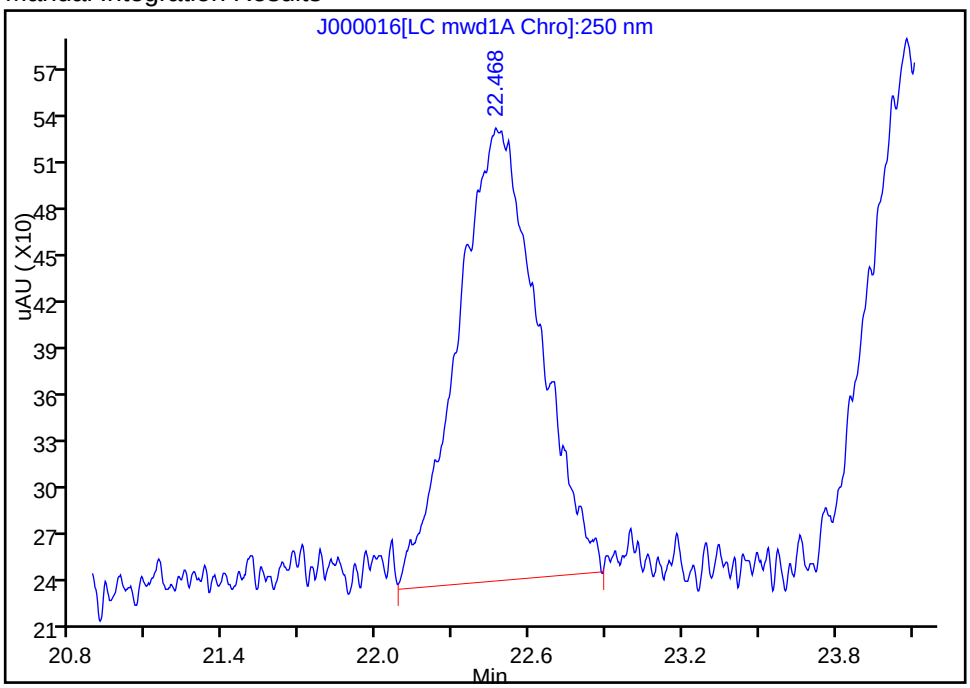
Processing Integration Results

RT: 22.47
Height: 434
Amount: 8.272384
Amount Units: ng/ml



Manual Integration Results

RT: 22.47
Height: 284
Amount: 5.419168
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

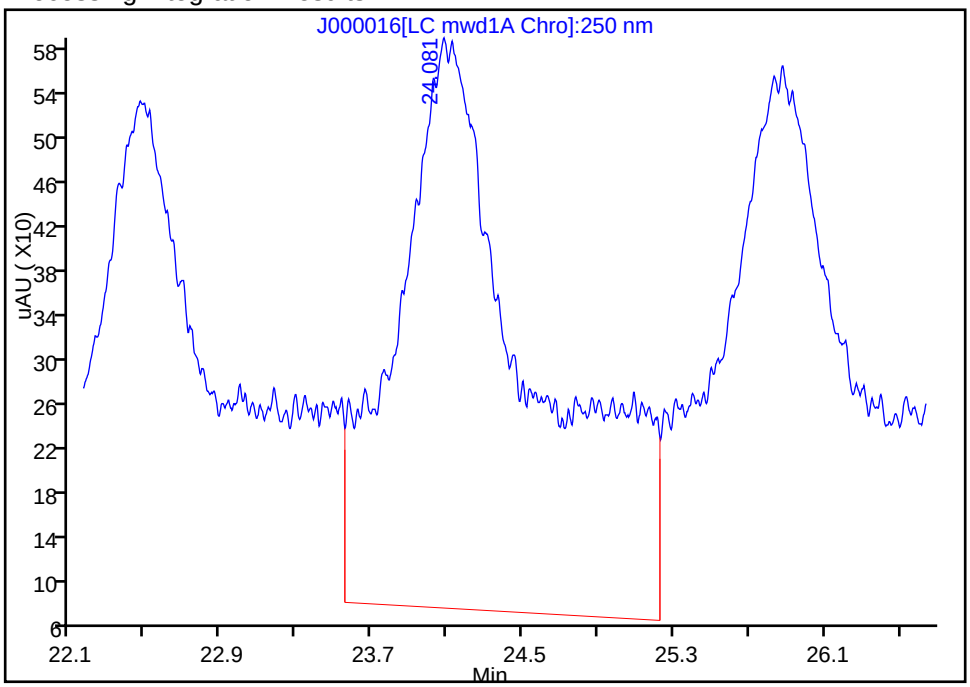
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

15 p-Nitrotoluene, CAS: 99-99-0

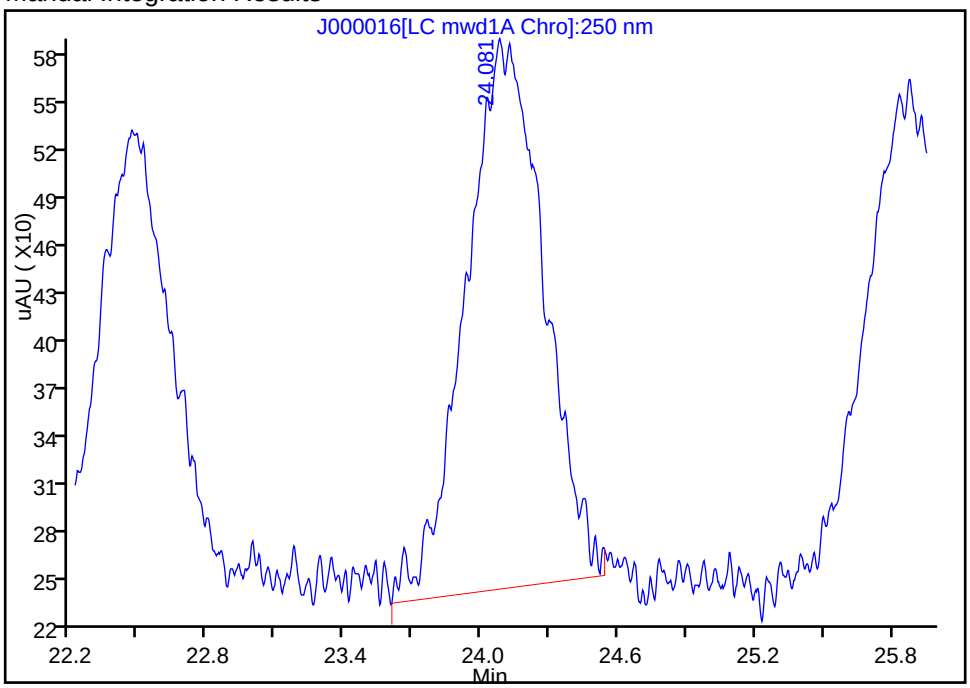
Processing Integration Results

RT: 24.08
Height: 506
Amount: 7.460973
Amount Units: ng/ml



Manual Integration Results

RT: 24.08
Height: 337
Amount: 5.352836
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

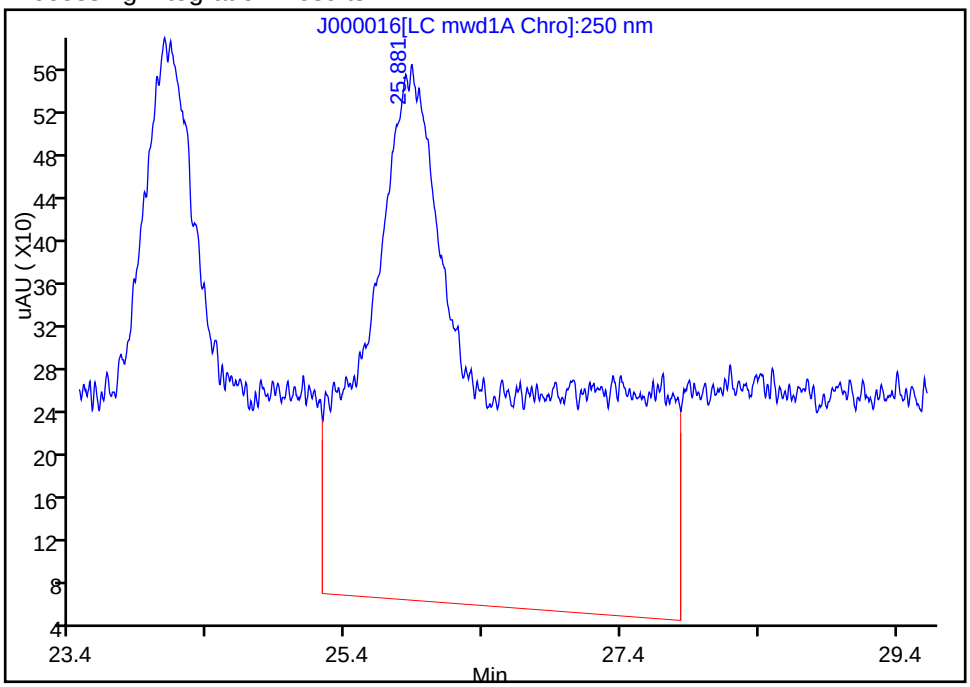
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

8 m-Nitrotoluene, CAS: 99-08-1

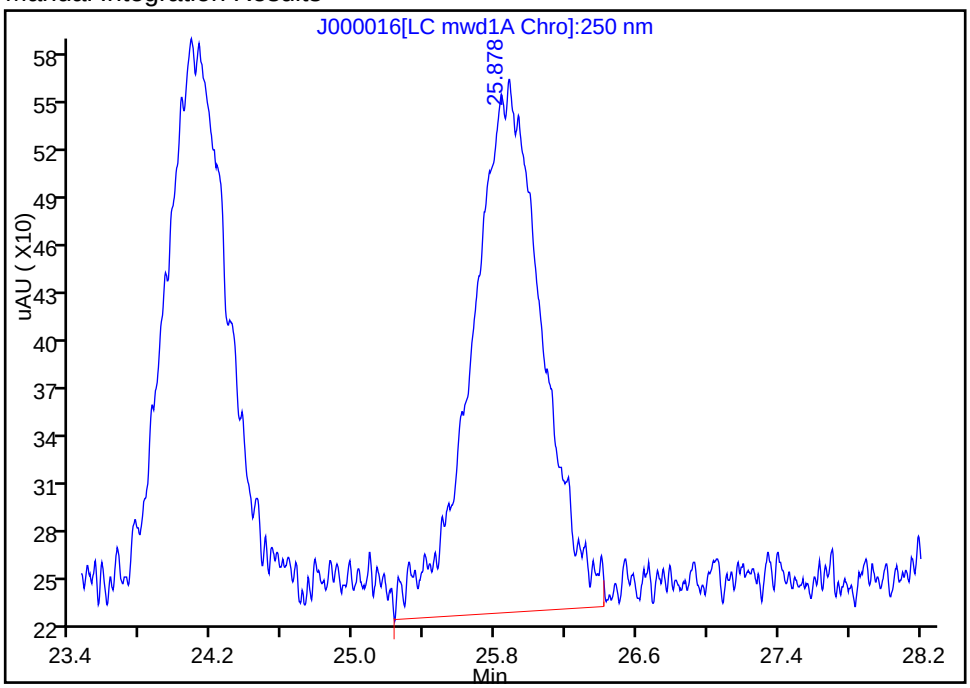
Processing Integration Results

RT: 25.88
Height: 498
Amount: 8.418399
Amount Units: ng/ml



Manual Integration Results

RT: 25.88
Height: 326
Amount: 5.505521
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

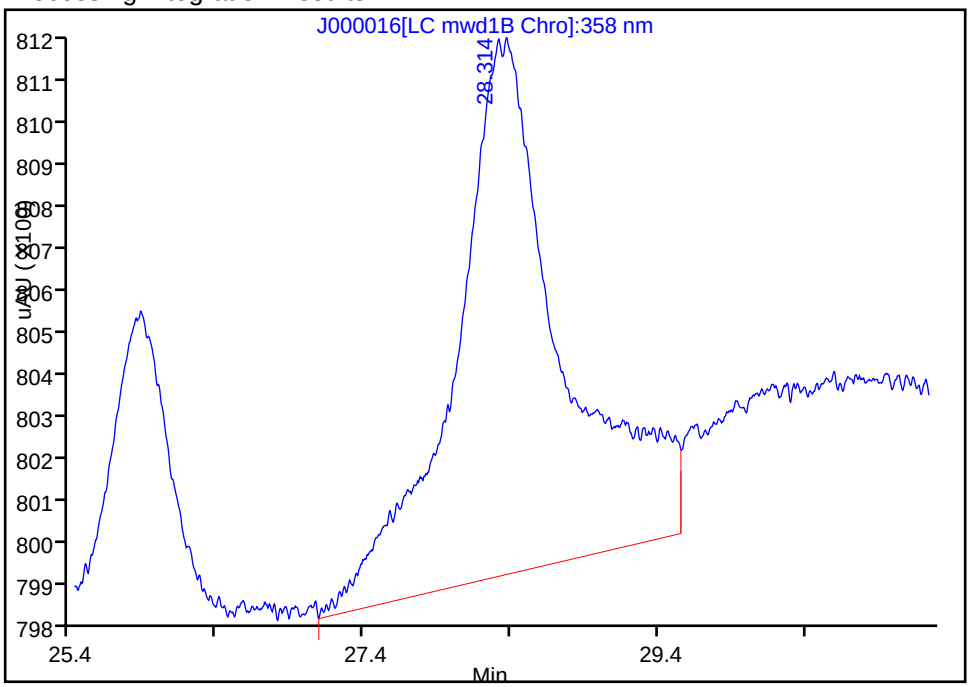
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000016.D
Injection Date: 11-Mar-2015 22:20:25 Instrument ID: LC10
Lims ID: LODV
Client ID:
Operator ID: YPH ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Detector LC mwd1B, 358 nm

21 PETN, CAS: 78-11-5

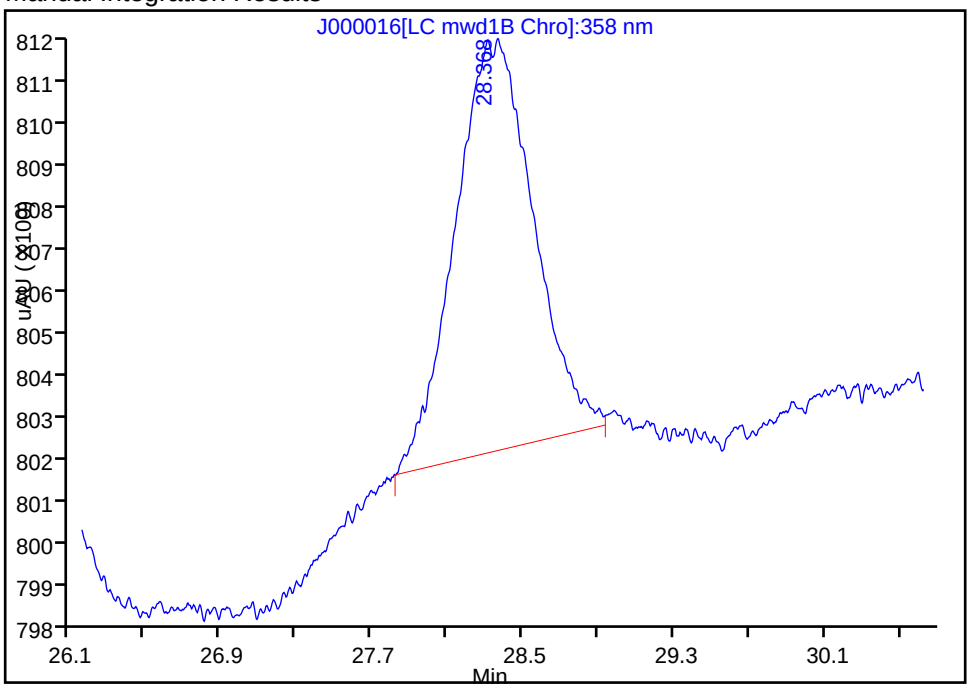
Processing Integration Results

RT: 28.31
Height: 1175
Amount: 26.091301
Amount Units: ng/ml



Manual Integration Results

RT: 28.37
Height: 901
Amount: 20.274071
Amount Units: ng/ml



Reviewer: phant, 12-Mar-2015 06:46:27
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71988/3 Calibration Date: 04/23/2015 16:49

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000003.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	128.2		4.36	5.00	-12.9	30.0
RDX	Ave	101.4	96.60		4.76	5.00	-4.7	30.0
Ethylene glycol dinitrate	Ave	120.7	113.4		18.8	20.0	-6.1	30.0
Picric acid	Ave	130.7	115.3		17.6	20.0	-11.8	30.0
1,3,5-Trinitrobenzene	Ave	194.5	172.4		4.43	5.00	-11.3	30.0
1,3-Dinitrobenzene	Ave	186.8	171.0		4.58	5.00	-8.5	30.0
3,5-Dinitroaniline	Ave	123.0	113.2		4.60	5.00	-8.0	30.0
Tetryl	Ave	111.0	109.4		4.93	5.00	-1.4	30.0
Nitrobenzene	Ave	84.47	86.20		5.10	5.00	2.0	30.0
Nitroglycerin	Ave	76.63	73.30		19.1	20.0	-4.4	30.0
2,4,6-Trinitrotoluene	Ave	113.7	104.6		4.60	5.00	-8.0	30.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	81.20		4.44	5.00	-11.3	30.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	94.40		4.62	5.00	-7.6	30.0
2,6-Dinitrotoluene	Ave	71.94	65.60		4.56	5.00	-8.8	30.0
2,4-Dinitrotoluene	Ave	118.3	105.0		4.44	5.00	-11.2	30.0
2-Nitrotoluene	Ave	52.41	48.40		4.62	5.00	-7.6	30.0
4-Nitrotoluene	Ave	62.96	57.00		4.53	5.00	-9.5	30.0
3-Nitrotoluene	Ave	59.21	56.20		4.75	5.00	-5.1	30.0
PETN	Ave	44.44	46.40		20.9	20.0	4.4	30.0
3,4-Dinitrotoluene	Ave	67.04	69.60		5.19	5.00	3.8	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71988/3 Calibration Date: 04/23/2015 16:49

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000003.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.19	4.94	5.44
RDX	7.46	7.21	7.71
Ethylene glycol dinitrate	8.10	7.85	8.35
Picric acid	8.68	8.43	8.93
1,3,5-Trinitrobenzene	9.68	9.43	9.93
1,3-Dinitrobenzene	12.29	12.04	12.54
3,5-Dinitroaniline	13.02	12.77	13.27
Tetryl	13.54	13.29	13.79
Nitrobenzene	14.03	13.78	14.28
Nitroglycerin	14.84	14.59	15.09
2,4,6-Trinitrotoluene	15.53	15.28	15.78
4-Amino-2,6-dinitrotoluene	16.23	15.98	16.48
2-Amino-4,6-dinitrotoluene	17.11	16.86	17.36
2,6-Dinitrotoluene	18.62	18.37	18.87
2,4-Dinitrotoluene	19.23	18.98	19.48
2-Nitrotoluene	22.58	22.33	22.83
4-Nitrotoluene	24.21	23.96	24.46
3-Nitrotoluene	26.01	25.76	26.26
PETN	28.49	28.24	28.74
3,4-Dinitrotoluene	16.66	16.41	16.91

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 23-Apr-2015 16:49:40 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-003
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 23-Apr-2015 17:37:55 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK026

First Level Reviewer: huangyun Date: 23-Apr-2015 17:37:55

	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
	11 HMX							
	1	5.188	5.188	0.000	641H	5.00	4.36	
	19 RDX							
	1	7.458	7.458	0.000	483H	5.00	4.76	
	3 Ethylene glycol dinitrate							
	2	8.101	8.101	0.000	2267H	20.0	18.8	
	10 2,4,6-Trinitrophenol							
	2	8.678	8.678	0.000	2305H	20.0	17.6	
	1	8.678	8.678	0.000	1599H	20.0	17.4	
	27 1,3,5-Trinitrobenzene							
	1	9.675	9.675	0.000	862H	5.00	4.43	
	24 1,3-Dinitrobenzene							
	1	12.292	12.292	0.000	855H	5.00	4.58	
	9 3,5-Dinitroaniline							
	1	13.022	13.022	0.000	566H	5.00	4.60	
	20 Tetryl							
	1	13.542	13.542	0.000	547H	5.00	4.93	
	5 Nitrobenzene							
	1	14.032	14.032	0.000	431H	5.00	5.10	
	7 Nitroglycerin							
	2	14.835	14.835	0.000	1466H	20.0	19.1	
	25 2,4,6-Trinitrotoluene							M
	1	15.532	15.532	0.000	523H	5.00	4.60	M
	26 4-Amino-2,6-dinitrotoluene							M
	1	16.225	16.225	0.000	406H	5.00	4.44	M
$	30 3,4-Dinitrotoluene							M
	1	16.658	16.658	0.000	348H	5.00	5.19	M
	2	16.238	16.238	0.000	742H	5.00	5.53	
	6 2-Amino-4,6-dinitrotoluene							M
	1	17.112	17.112	0.000	472H	5.00	4.62	M
	12 2,6-Dinitrotoluene							M
	1	18.622	18.622	0.000	328H	5.00	4.56	M

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							M
1	19.225	19.225	0.000	525H	5.00	4.44	M
16 o-Nitrotoluene							M
1	22.582	22.582	0.000	242H	5.00	4.62	M
15 p-Nitrotoluene							M
1	24.212	24.212	0.000	285H	5.00	4.53	M
8 m-Nitrotoluene							M
1	26.008	26.008	0.000	281H	5.00	4.75	M
21 PETN							
2	28.488	28.488	0.000	928H	20.0	20.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HP8330ICL_00025 Amount Added: 1.00 Units: mL

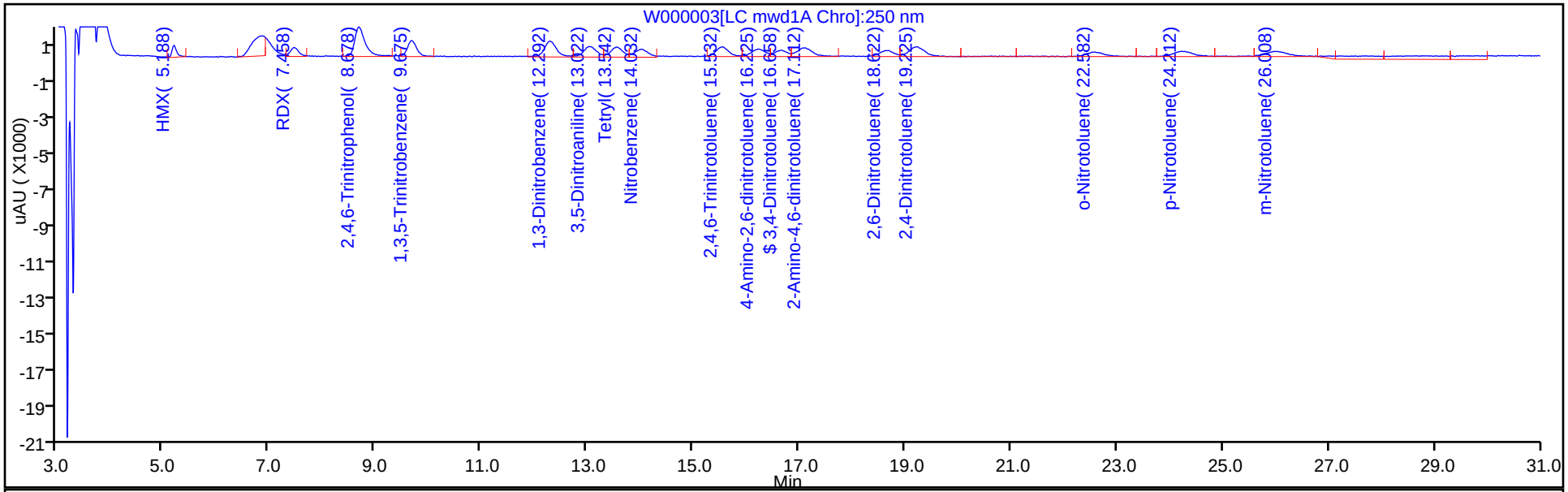
Report Date: 23-Apr-2015 17:37:55 Chrom Revision: 2.2 09-Apr-2015 10:05:40

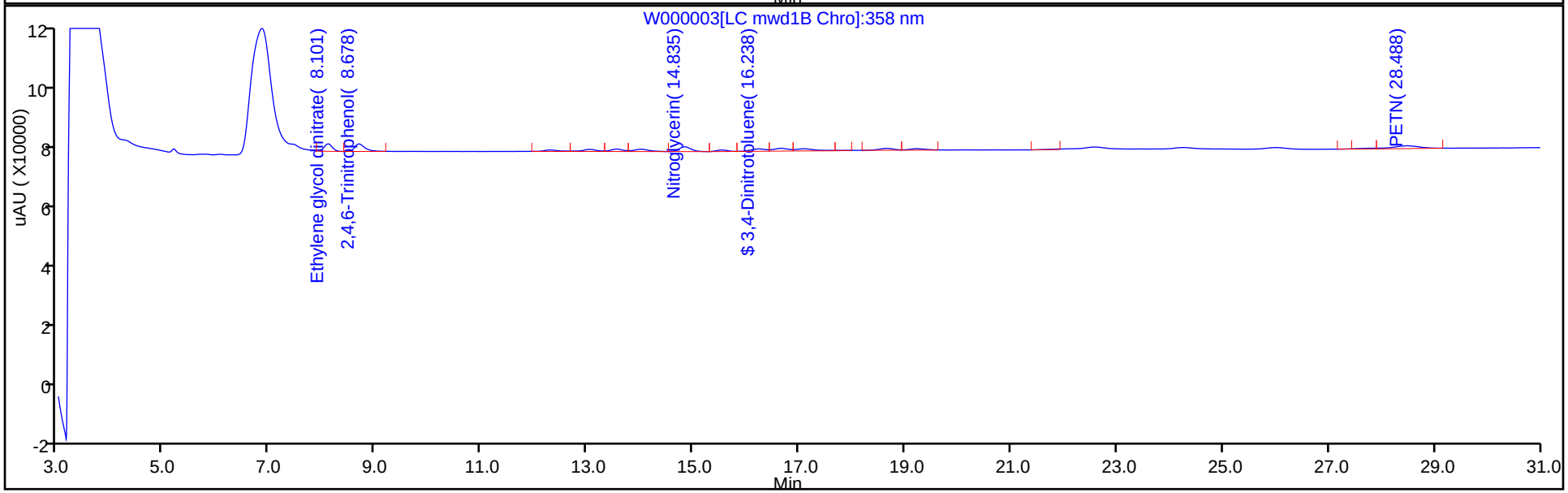
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D

Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	3
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

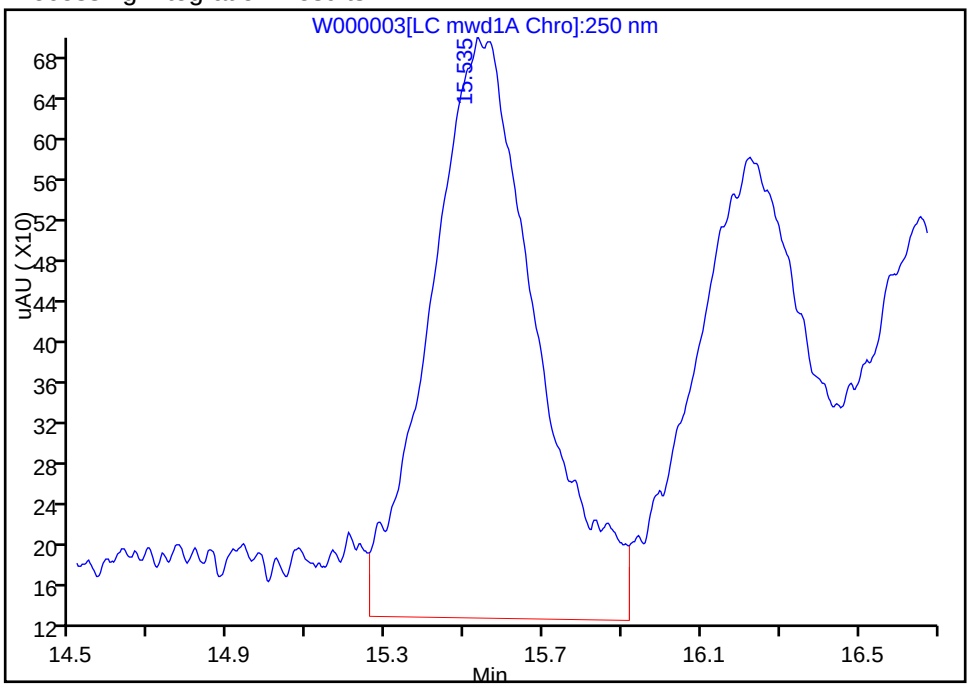
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D
Injection Date: 23-Apr-2015 16:49:40 Instrument ID: LC10
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

25 2,4,6-Trinitrotoluene, CAS: 118-96-7

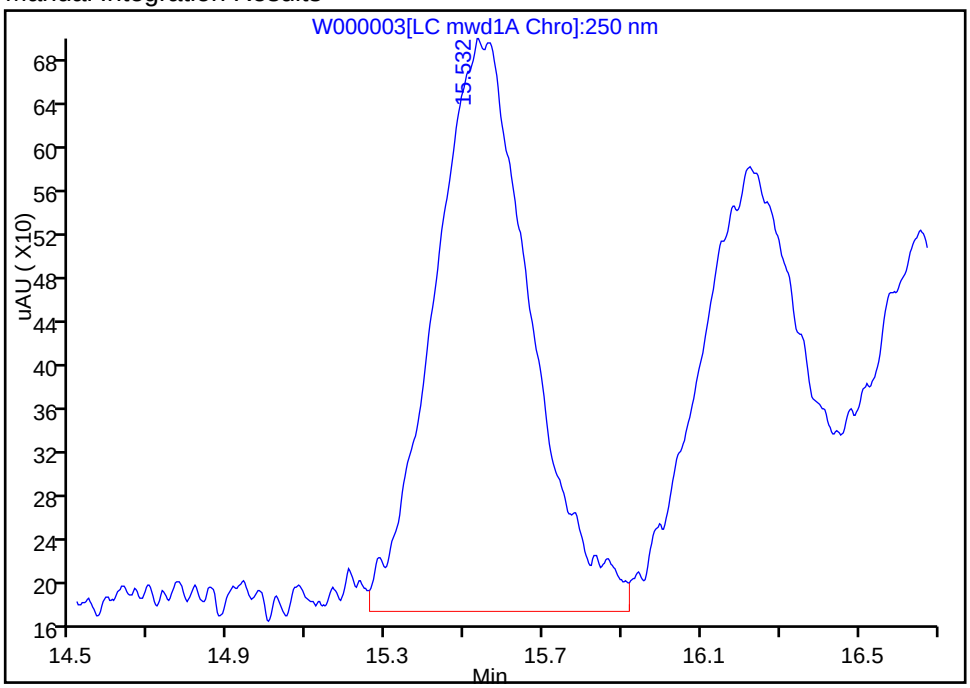
Processing Integration Results

RT: 15.53
Height: 568
Amount: 4.997656
Amount Units: ng/ml



Manual Integration Results

RT: 15.53
Height: 523
Amount: 4.601715
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

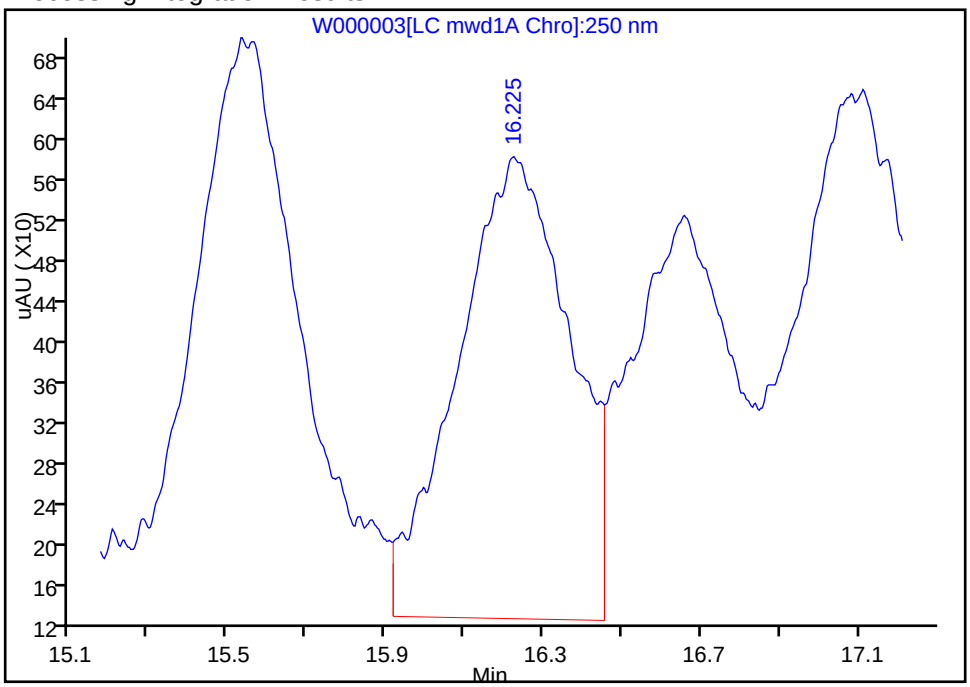
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D				
Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

26 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

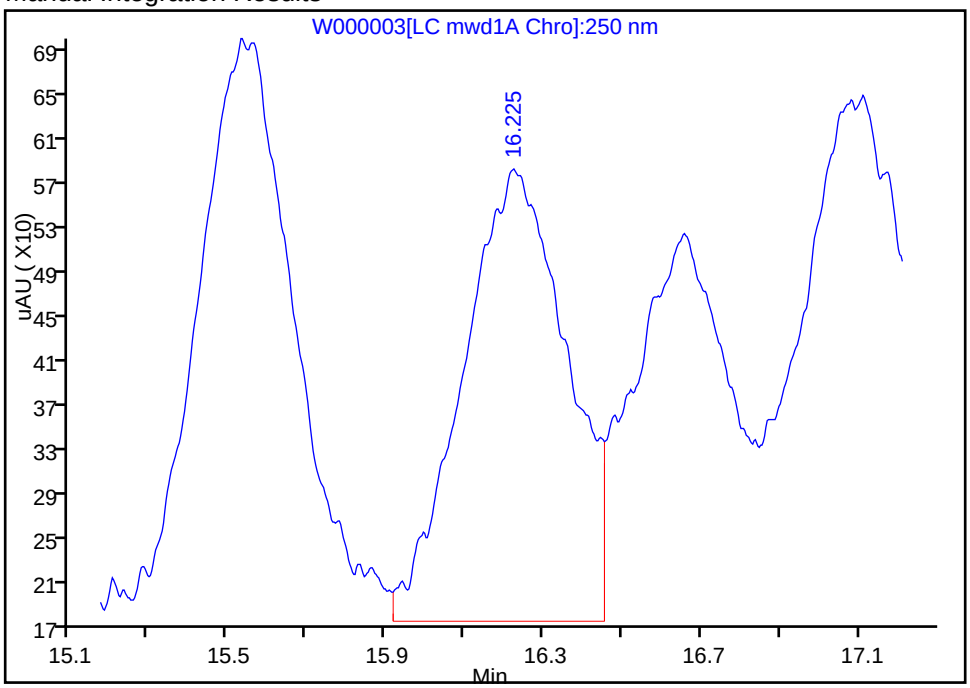
Processing Integration Results

RT: 16.22
Height: 456
Amount: 4.982813
Amount Units: ng/ml



Manual Integration Results

RT: 16.22
Height: 406
Amount: 4.436452
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

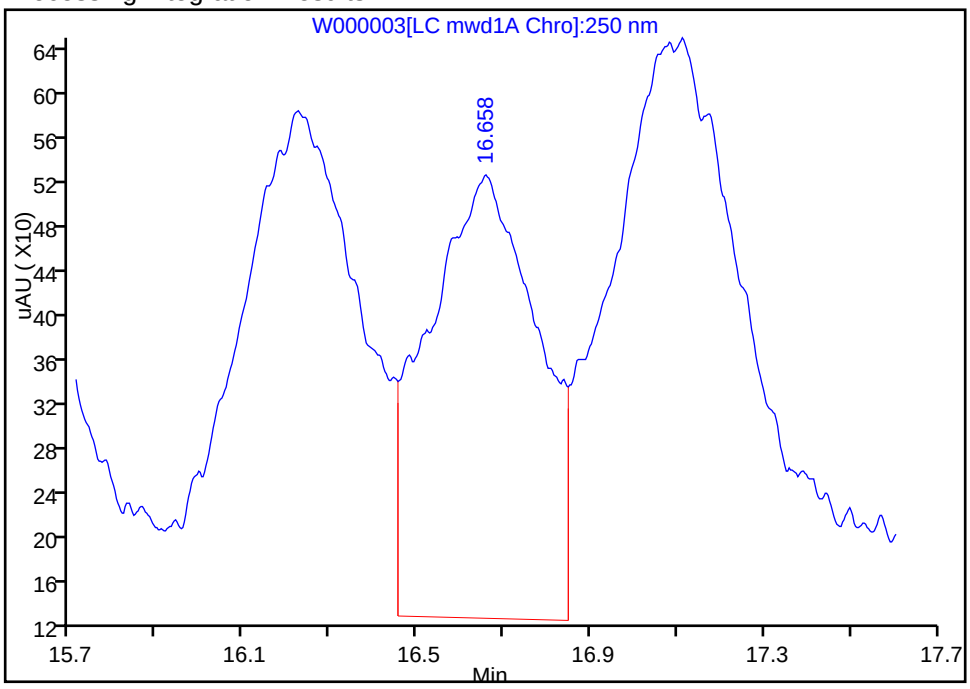
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D
Injection Date: 23-Apr-2015 16:49:40 Instrument ID: LC10
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

$ 30 3,4-Dinitrotoluene, CAS: 610-39-9

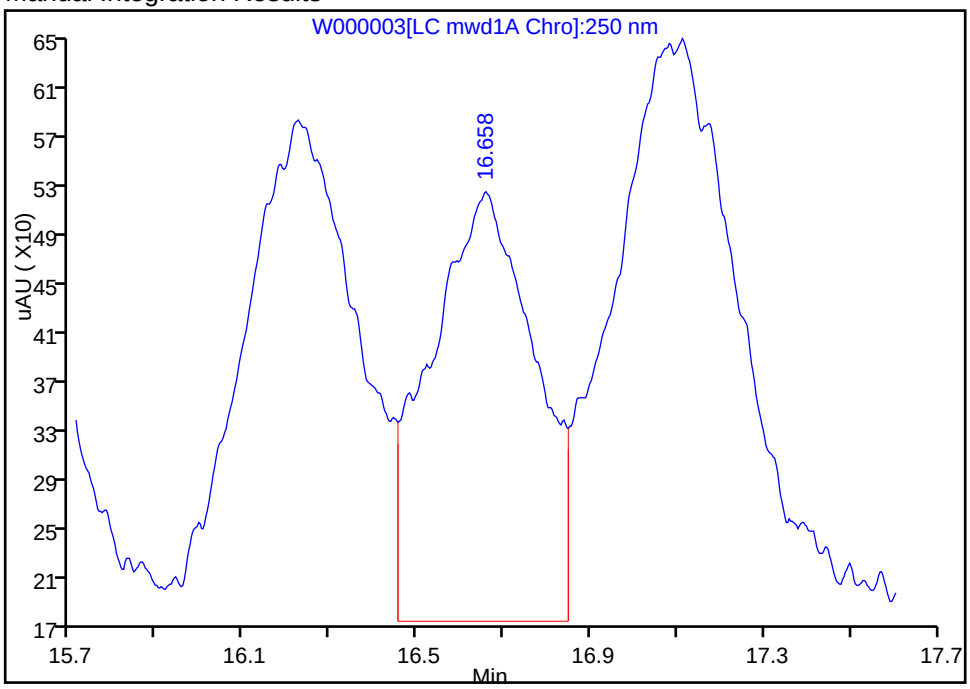
Processing Integration Results

RT: 16.66
Height: 402
Amount: 5.996855
Amount Units: ng/ml



Manual Integration Results

RT: 16.66
Height: 348
Amount: 5.191307
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

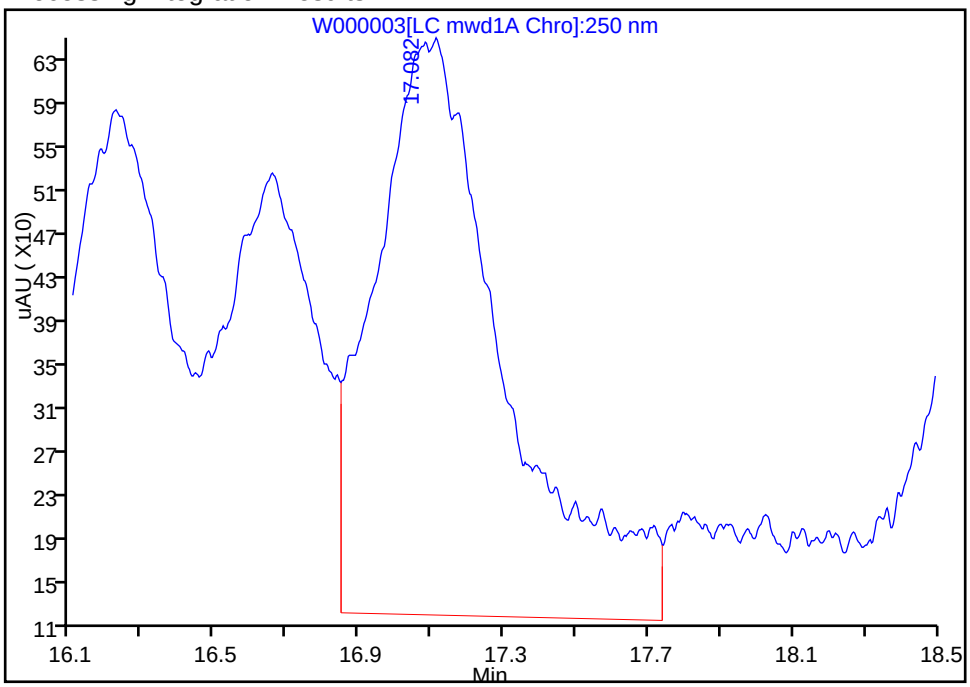
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D
Injection Date: 23-Apr-2015 16:49:40 Instrument ID: LC10
Lims ID: CCVL
Client ID:
Operator ID: YPH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Method: 8330_LC10 Limit Group: LC 8330B ICAL
Column: Synergi Hydro-RP C18 (4.60 mm) Detector LC mwd1A, 250 nm

6 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

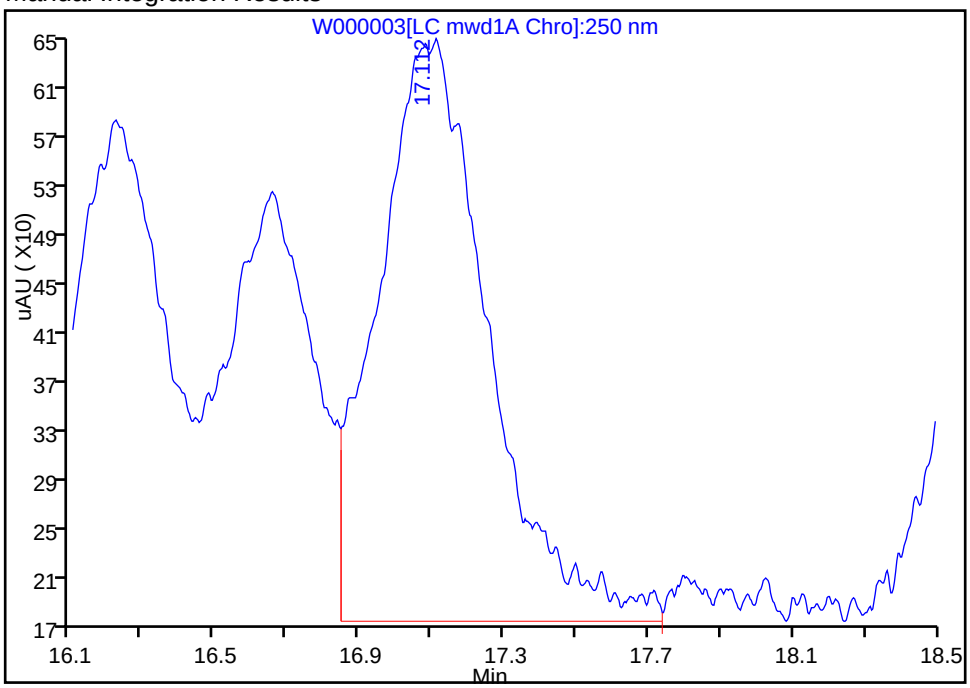
Processing Integration Results

RT: 17.08
Height: 525
Amount: 5.140212
Amount Units: ng/ml



Manual Integration Results

RT: 17.11
Height: 472
Amount: 4.621296
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

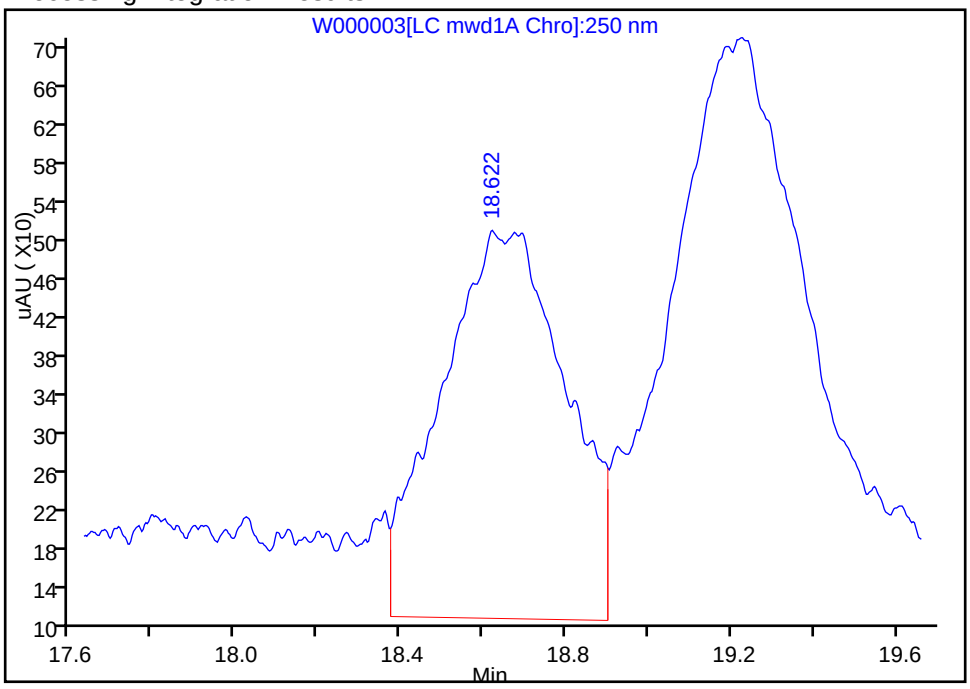
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D				
Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

12 2,6-Dinitrotoluene, CAS: 606-20-2

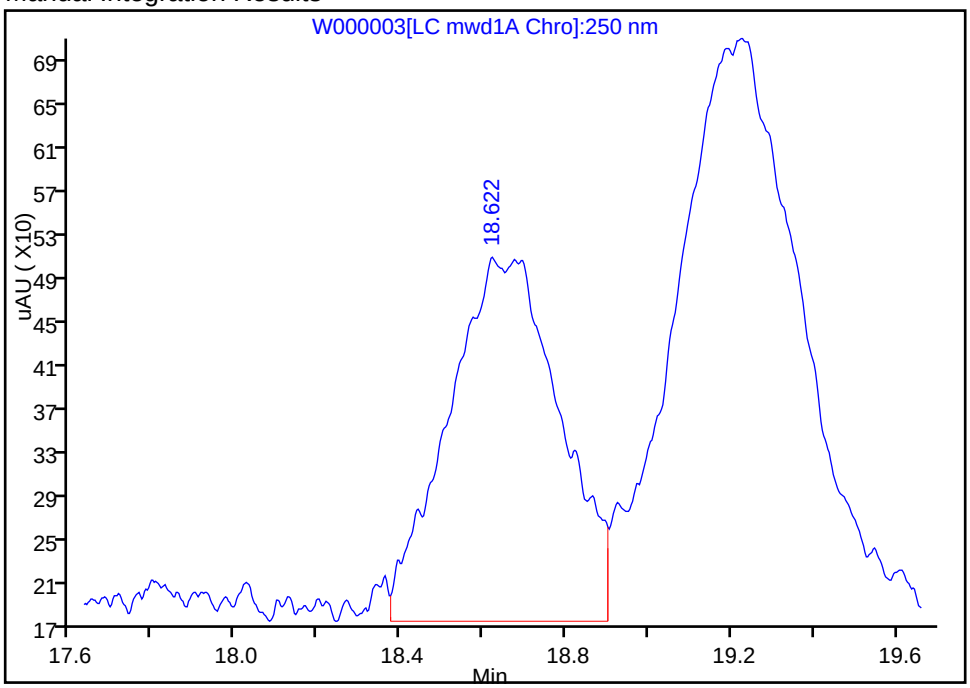
Processing Integration Results

RT: 18.62
Height: 397
Amount: 5.518356
Amount Units: ng/ml



Manual Integration Results

RT: 18.62
Height: 328
Amount: 4.559246
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

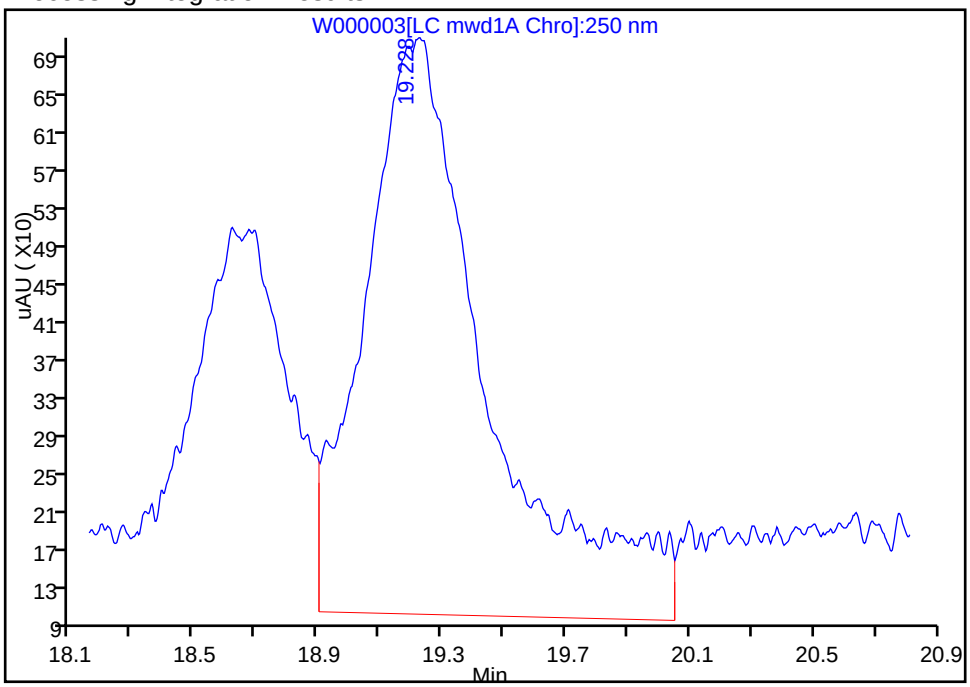
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D				
Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

23 2,4-Dinitrotoluene, CAS: 121-14-2

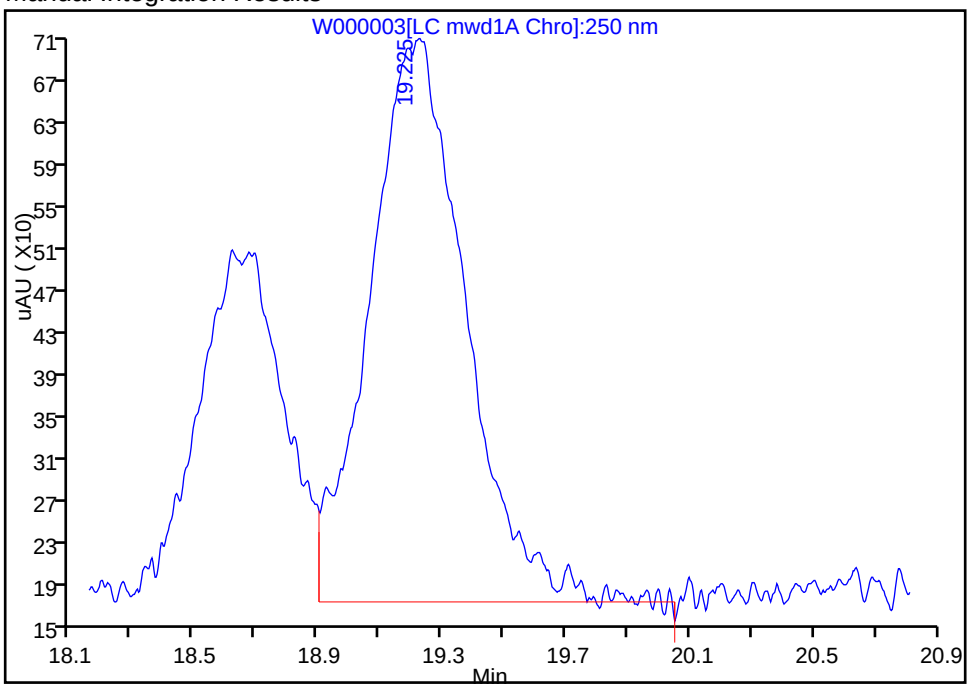
Processing Integration Results

RT: 19.23
Height: 599
Amount: 5.064089
Amount Units: ng/ml



Manual Integration Results

RT: 19.22
Height: 525
Amount: 4.438475
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

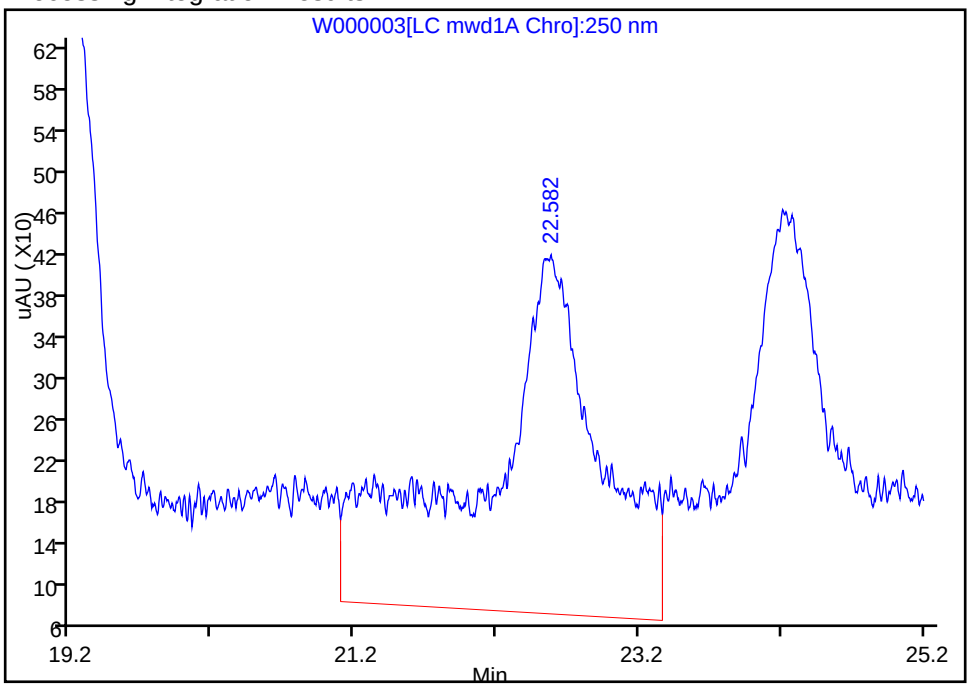
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D				
Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

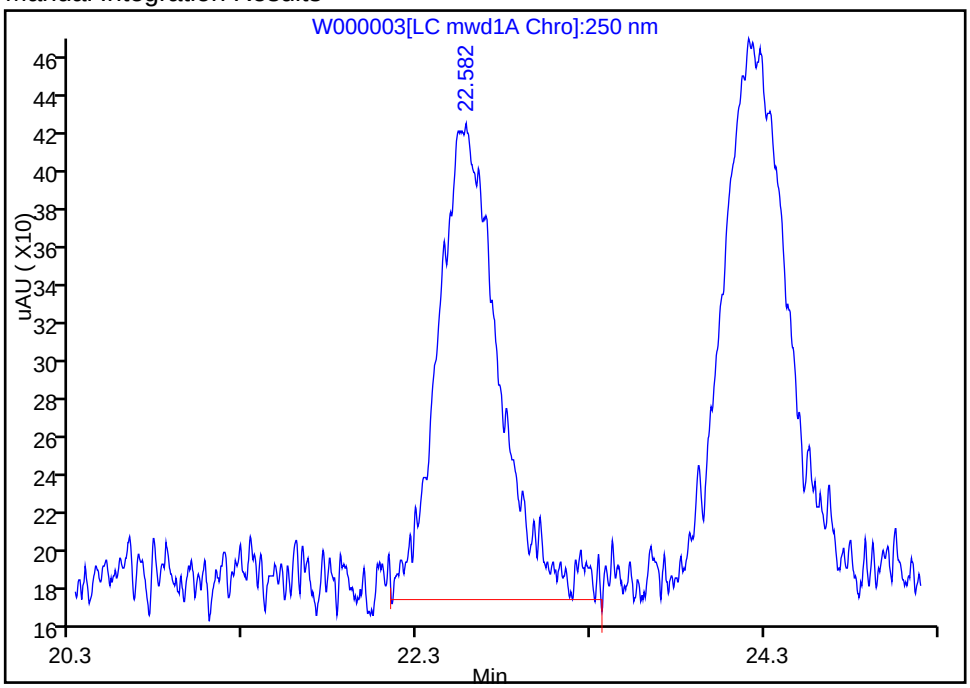
Processing Integration Results

RT: 22.58
Height: 343
Amount: 6.544981
Amount Units: ng/ml



Manual Integration Results

RT: 22.58
Height: 242
Amount: 4.617742
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

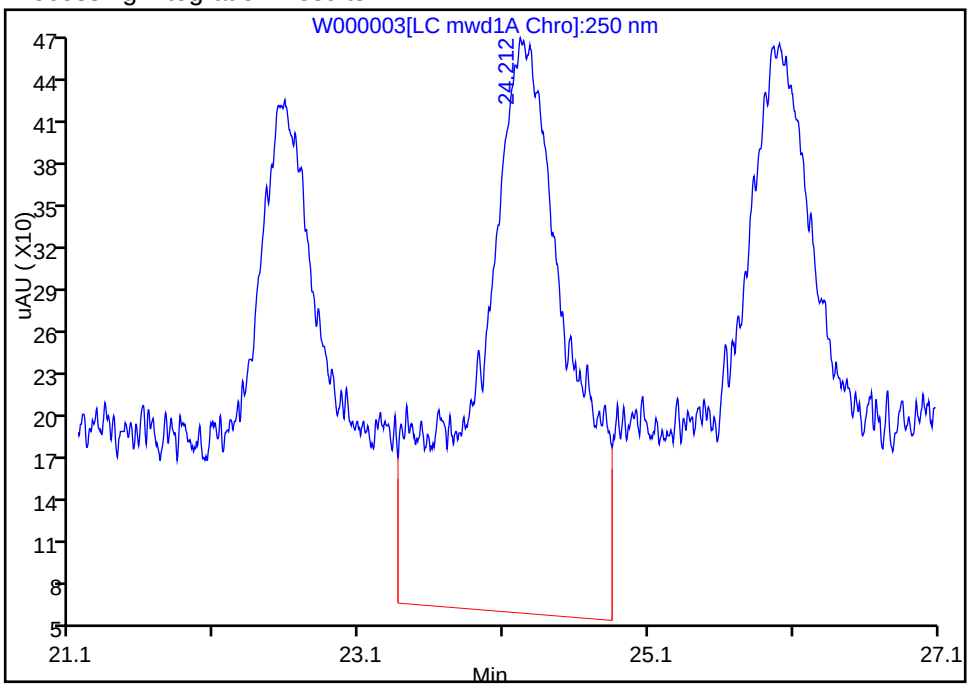
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D				
Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

15 p-Nitrotoluene, CAS: 99-99-0

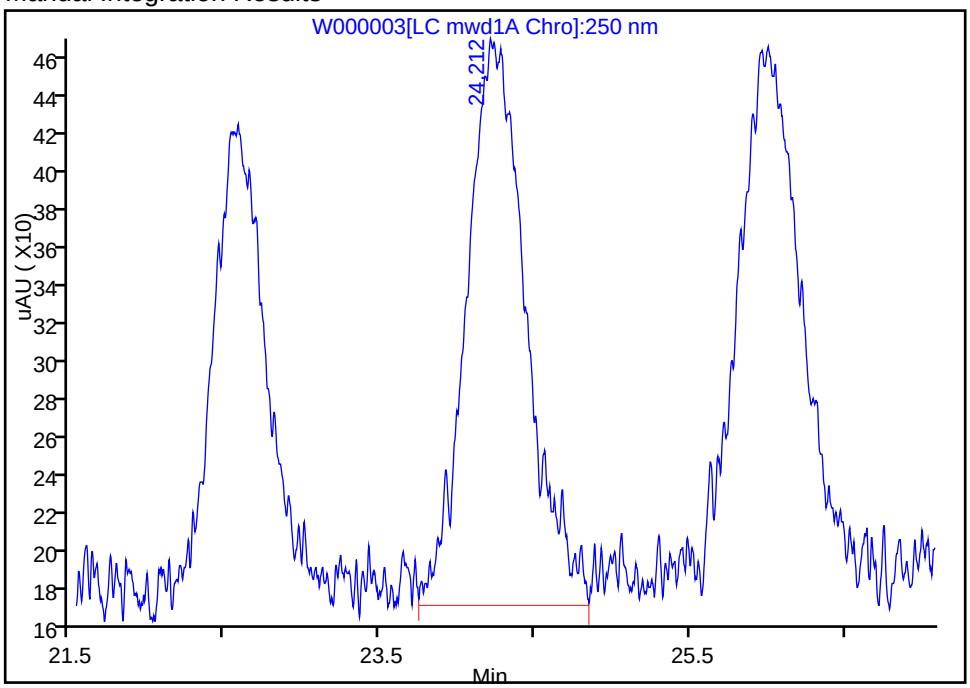
Processing Integration Results

RT: 24.21
Height: 399
Amount: 6.337630
Amount Units: ng/ml



Manual Integration Results

RT: 24.21
Height: 285
Amount: 4.526879
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

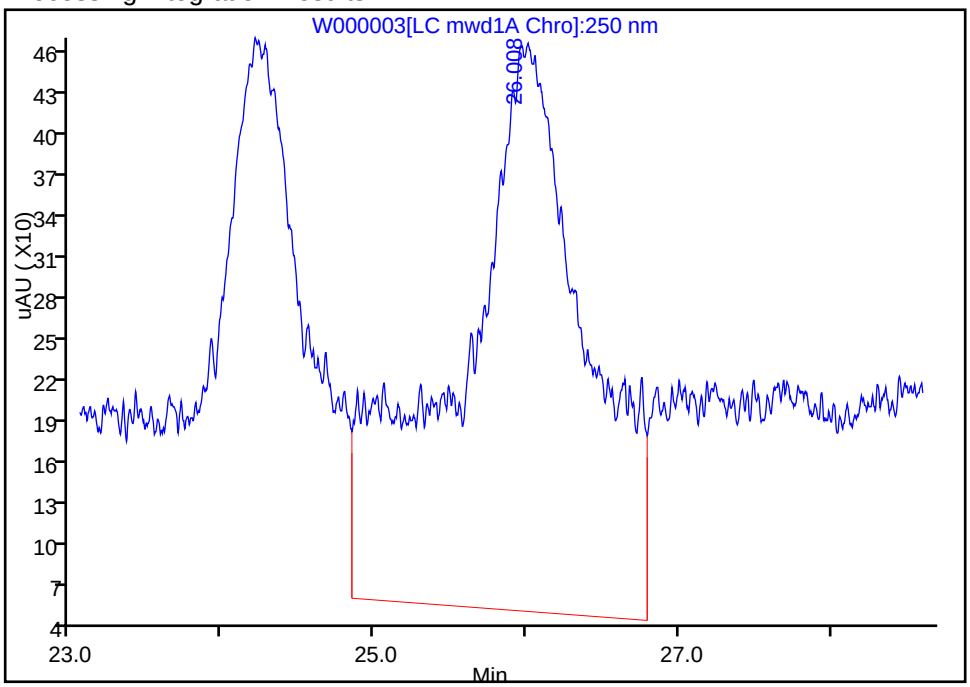
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000003.D				
Injection Date:	23-Apr-2015 16:49:40	Instrument ID:	LC10		
Lims ID:	CCVL				
Client ID:					
Operator ID:	YPH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

8 m-Nitrotoluene, CAS: 99-08-1

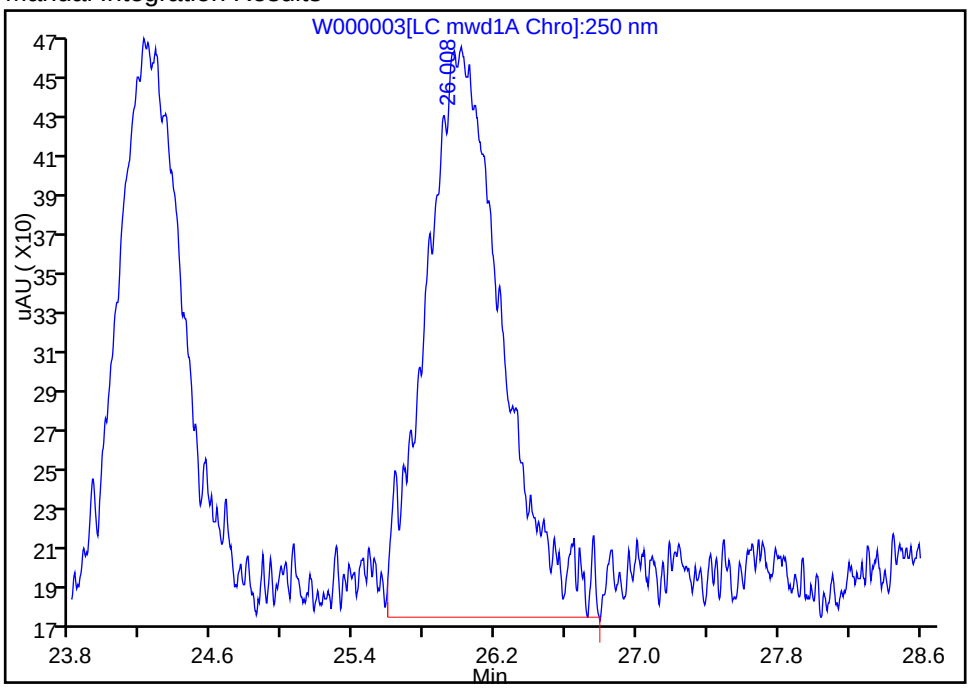
Processing Integration Results

RT: 26.01
Height: 410
Amount: 6.924122
Amount Units: ng/ml



Manual Integration Results

RT: 26.01
Height: 281
Amount: 4.745557
Amount Units: ng/ml



Reviewer: huangyun, 23-Apr-2015 17:37:55
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71988/4 Calibration Date: 04/23/2015 17:33

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000004.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	125.1		85.0	100	-15.0	20.0
RDX	Ave	101.4	83.94		82.8	100	-17.2	20.0
Ethylene glycol dinitrate	Ave	120.7	106.0		87.8	100	-12.2	20.0
Picric acid	Ave	130.7	126.1		193	200	-3.5	20.0
1,3,5-Trinitrobenzene	Ave	194.5	166.5		85.6	100	-14.4	20.0
1,3-Dinitrobenzene	Ave	186.8	160.3		85.8	100	-14.2	20.0
3,5-Dinitroaniline	Ave	123.0	104.3		84.8	100	-15.2	20.0
Tetryl	Ave	111.0	98.81		89.0	100	-11.0	20.0
Nitrobenzene	Ave	84.47	73.63		87.2	100	-12.8	20.0
Nitroglycerin	Ave	76.63	69.34		90.5	100	-9.5	20.0
2,4,6-Trinitrotoluene	Ave	113.7	101.1		89.0	100	-11.0	20.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	76.85		84.0	100	-16.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	87.64		85.8	100	-14.2	20.0
2,6-Dinitrotoluene	Ave	71.94	62.39		86.7	100	-13.3	20.0
2,4-Dinitrotoluene	Ave	118.3	102.8		86.9	100	-13.1	20.0
2-Nitrotoluene	Ave	52.41	45.92		87.6	100	-12.4	20.0
4-Nitrotoluene	Ave	62.96	55.25		87.8	100	-12.2	20.0
3-Nitrotoluene	Ave	59.21	51.84		87.5	100	-12.5	20.0
PETN	Ave	44.44	37.09		83.5	100	-16.5	20.0
3,4-Dinitrotoluene	Ave	67.04	56.80		84.7	100	-15.3	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71988/4 Calibration Date: 04/23/2015 17:33

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000004.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.45	7.20	7.70
Ethylene glycol dinitrate	8.09	7.84	8.34
Picric acid	8.63	8.38	8.88
1,3,5-Trinitrobenzene	9.67	9.42	9.92
1,3-Dinitrobenzene	12.28	12.03	12.53
3,5-Dinitroaniline	13.03	12.78	13.28
Tetryl	13.54	13.29	13.79
Nitrobenzene	14.00	13.75	14.25
Nitroglycerin	14.82	14.57	15.07
2,4,6-Trinitrotoluene	15.53	15.28	15.78
4-Amino-2,6-dinitrotoluene	16.22	15.97	16.47
2-Amino-4,6-dinitrotoluene	17.09	16.84	17.34
2,6-Dinitrotoluene	18.64	18.39	18.89
2,4-Dinitrotoluene	19.21	18.96	19.46
2-Nitrotoluene	22.58	22.33	22.83
4-Nitrotoluene	24.22	23.97	24.47
3-Nitrotoluene	25.99	25.74	26.24
PETN	28.45	28.20	28.70
3,4-Dinitrotoluene	16.65	16.40	16.90

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000004.D
Lims ID: CCV 05
Client ID:
Sample Type: CCVRT
Inject. Date: 23-Apr-2015 17:33:15 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-004
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 09:51:49 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 09:51:49

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.181	5.181	0.000	12506H	100.0	85.0	
19 RDX							
1	7.454	7.454	0.000	8394H	100.0	82.8	
3 Ethylene glycol dinitrate							
2	8.091	8.091	0.000	10597H	100.0	87.8	
10 2,4,6-Trinitrophenol							
2	8.631	8.631	0.000	25221H	200.0	193.0	
1	8.631	8.631	0.000	17207H	200.0	187.3	
27 1,3,5-Trinitrobenzene							
1	9.671	9.671	0.000	16647H	100.0	85.6	
24 1,3-Dinitrobenzene							
1	12.281	12.281	0.000	16032H	100.0	85.8	
9 3,5-Dinitroaniline							
1	13.031	13.031	0.000	10432H	100.0	84.8	
20 Tetryl							
1	13.541	13.541	0.000	9881H	100.0	89.0	
5 Nitrobenzene							
1	14.004	14.004	0.000	7363H	100.0	87.2	
7 Nitroglycerin							
2	14.824	14.824	0.000	6934H	100.0	90.5	
25 2,4,6-Trinitrotoluene							
1	15.534	15.534	0.000	10114H	100.0	89.0	
26 4-Amino-2,6-dinitrotoluene							
1	16.224	16.224	0.000	7685H	100.0	84.0	
$ 30 3,4-Dinitrotoluene							
1	16.651	16.651	0.000	5680H	100.0	84.7	
2	16.224	16.224	0.000	10911H	100.0	81.3	
6 2-Amino-4,6-dinitrotoluene							
1	17.091	17.091	0.000	8764H	100.0	85.8	
12 2,6-Dinitrotoluene							
1	18.644	18.644	0.000	6239H	100.0	86.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.211	19.211	0.000	10284H	100.0	86.9	
16 o-Nitrotoluene							
1	22.578	22.578	0.000	4592H	100.0	87.6	
15 p-Nitrotoluene							
1	24.224	24.224	0.000	5525H	100.0	87.8	
8 m-Nitrotoluene							
1	25.988	25.988	0.000	5184H	100.0	87.5	
21 PETN							
2	28.448	28.448	0.000	3709H	100.0	83.5	

Reagents:

hp8330l5_00035 Amount Added: 1.00 Units: mL

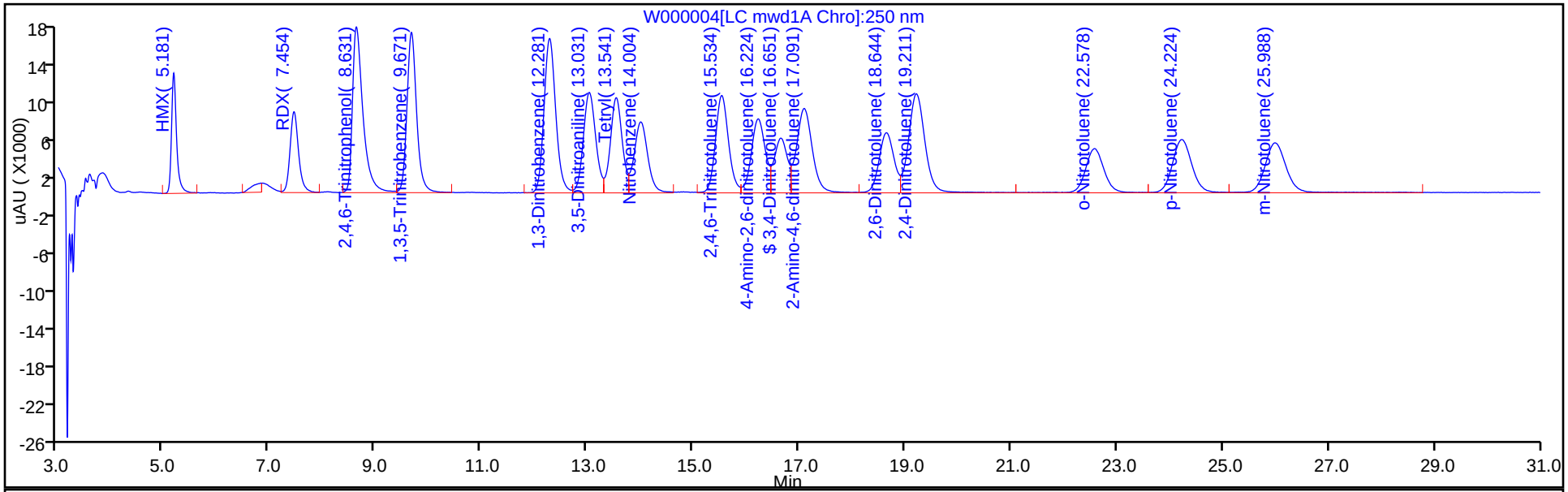
Report Date: 24-Apr-2015 09:51:51 Chrom Revision: 2.2 09-Apr-2015 10:05:40

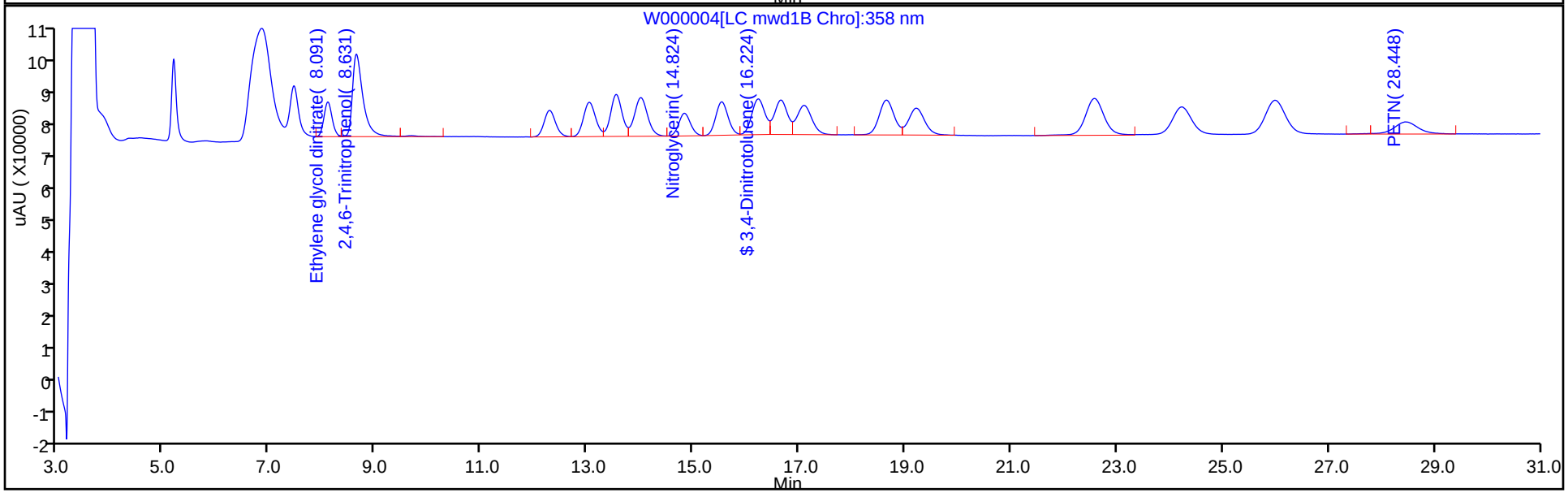
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000004.D

Injection Date:	23-Apr-2015 17:33:15	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCV 05			Worklist Smp#:	4
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71988/23 Calibration Date: 04/24/2015 03:00

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000017.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	125.8		42.8	50.0	-14.5	20.0
RDX	Ave	101.4	85.68		42.3	50.0	-15.5	20.0
Ethylene glycol dinitrate	Ave	120.7	107.9		44.7	50.0	-10.6	20.0
Picric acid	Ave	130.7	129.4		99.0	100	-1.0	20.0
1,3,5-Trinitrobenzene	Ave	194.5	168.2		43.2	50.0	-13.5	20.0
1,3-Dinitrobenzene	Ave	186.8	162.1		43.4	50.0	-13.2	20.0
3,5-Dinitroaniline	Ave	123.0	105.1		42.7	50.0	-14.6	20.0
Tetryl	Ave	111.0	99.10		44.6	50.0	-10.7	20.0
Nitrobenzene	Ave	84.47	74.64		44.2	50.0	-11.6	20.0
Nitroglycerin	Ave	76.63	67.44		44.0	50.0	-12.0	20.0
2,4,6-Trinitrotoluene	Ave	113.7	101.6		44.7	50.0	-10.6	20.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	77.12		42.1	50.0	-15.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	88.08		43.1	50.0	-13.8	20.0
2,6-Dinitrotoluene	Ave	71.94	62.52		43.5	50.0	-13.1	20.0
2,4-Dinitrotoluene	Ave	118.3	103.2		43.6	50.0	-12.8	20.0
2-Nitrotoluene	Ave	52.41	46.22		44.1	50.0	-11.8	20.0
4-Nitrotoluene	Ave	62.96	55.66		44.2	50.0	-11.6	20.0
3-Nitrotoluene	Ave	59.21	52.40		44.2	50.0	-11.5	20.0
PETN	Ave	44.44	38.10		42.9	50.0	-14.3	20.0
3,4-Dinitrotoluene	Ave	67.04	57.52		42.9	50.0	-14.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCV 320-71988/23 Calibration Date: 04/24/2015 03:00

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000017.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.45	7.20	7.70
Ethylene glycol dinitrate	8.09	7.84	8.34
Picric acid	8.65	8.40	8.90
1,3,5-Trinitrobenzene	9.67	9.42	9.92
1,3-Dinitrobenzene	12.28	12.03	12.53
3,5-Dinitroaniline	13.03	12.78	13.28
Tetryl	13.54	13.29	13.79
Nitrobenzene	14.00	13.75	14.25
Nitroglycerin	14.82	14.57	15.07
2,4,6-Trinitrotoluene	15.53	15.28	15.78
4-Amino-2,6-dinitrotoluene	16.21	15.96	16.46
2-Amino-4,6-dinitrotoluene	17.09	16.84	17.34
2,6-Dinitrotoluene	18.63	18.38	18.88
2,4-Dinitrotoluene	19.20	18.95	19.45
2-Nitrotoluene	22.57	22.32	22.82
4-Nitrotoluene	24.21	23.96	24.46
3-Nitrotoluene	25.99	25.74	26.24
PETN	28.46	28.21	28.71
3,4-Dinitrotoluene	16.65	16.40	16.90

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000017.D
Lims ID: CCV 04
Client ID:
Sample Type: CCV
Inject. Date: 24-Apr-2015 03:00:03 ALS Bottle#: 4 Worklist Smp#: 23
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-023
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 09:52:46 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 09:52:46

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.183	5.183	0.000	6292H	50.0	42.8	
19 RDX							
1	7.453	7.453	0.000	4284H	50.0	42.3	
3 Ethylene glycol dinitrate							
2	8.089	8.089	0.000	5395H	50.0	44.7	
10 2,4,6-Trinitrophenol							
2	8.649	8.649	0.000	12942H	100.0	99.0	
1	8.649	8.649	0.000	8821H	100.0	96.0	
27 1,3,5-Trinitrobenzene							
1	9.669	9.669	0.000	8410H	50.0	43.2	
24 1,3-Dinitrobenzene							
1	12.280	12.280	0.000	8105H	50.0	43.4	
9 3,5-Dinitroaniline							
1	13.030	13.030	0.000	5253H	50.0	42.7	
20 Tetryl							
1	13.540	13.540	0.000	4955H	50.0	44.6	
5 Nitrobenzene							
1	14.000	14.000	0.000	3732H	50.0	44.2	
7 Nitroglycerin							
2	14.823	14.823	0.000	3372H	50.0	44.0	
25 2,4,6-Trinitrotoluene							
1	15.526	15.526	0.000	5079H	50.0	44.7	
26 4-Amino-2,6-dinitrotoluene							
1	16.213	16.213	0.000	3856H	50.0	42.1	
$ 30 3,4-Dinitrotoluene							
1	16.646	16.646	0.000	2876H	50.0	42.9	
2	16.213	16.213	0.000	5644H	50.0	42.0	
6 2-Amino-4,6-dinitrotoluene							
1	17.090	17.090	0.000	4404H	50.0	43.1	
12 2,6-Dinitrotoluene							
1	18.633	18.633	0.000	3126H	50.0	43.5	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.203	19.203	0.000	5159H	50.0	43.6	
16 o-Nitrotoluene							
1	22.573	22.573	0.000	2311H	50.0	44.1	
15 p-Nitrotoluene							
1	24.210	24.210	0.000	2783H	50.0	44.2	
8 m-Nitrotoluene							
1	25.986	25.986	0.000	2620H	50.0	44.2	
21 PETN							
2	28.463	28.463	0.000	1905H	50.0	42.9	

Reagents:

hp8330l4_00026 Amount Added: 1.00 Units: mL

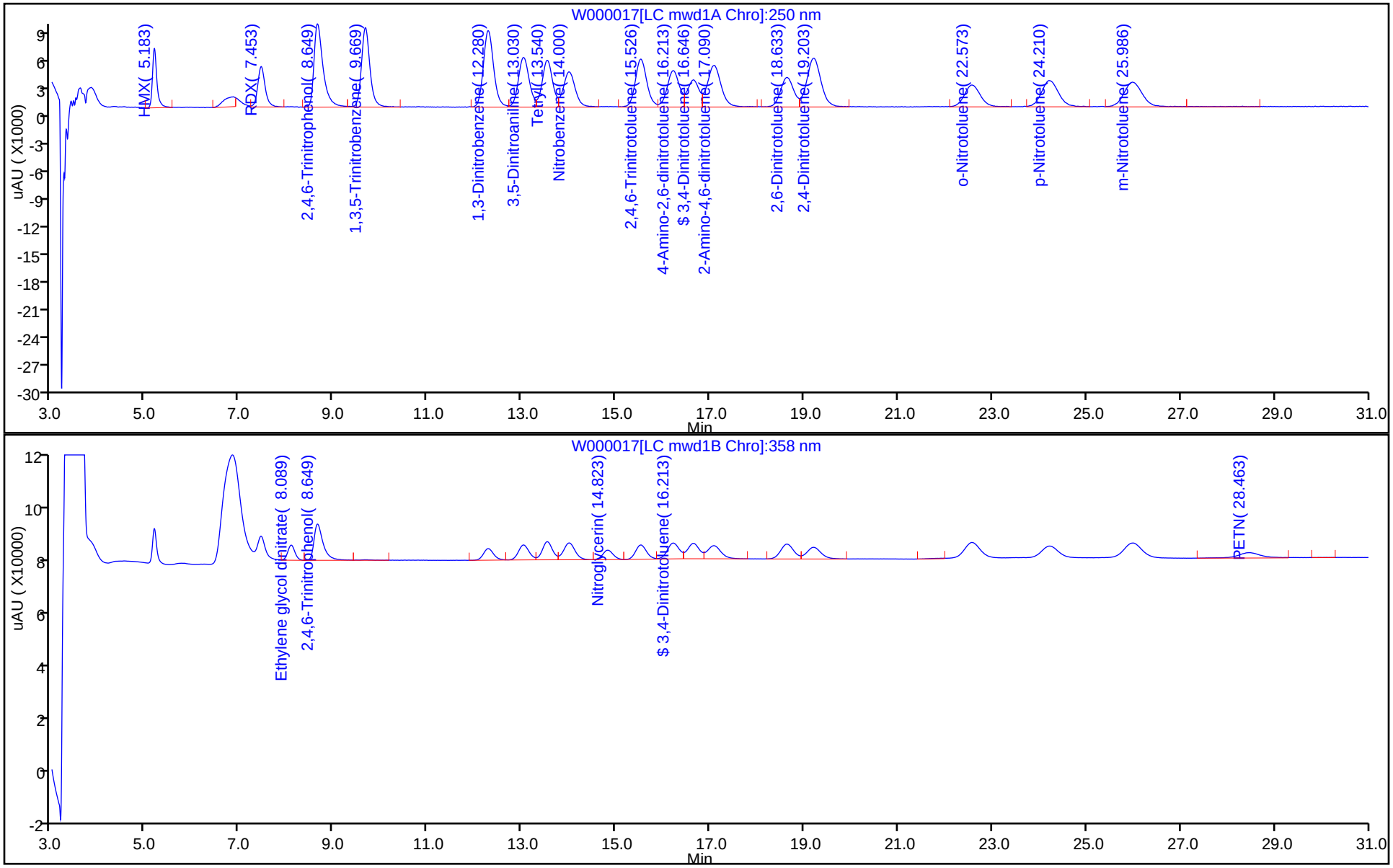
Report Date: 24-Apr-2015 09:52:46 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000017.D

Injection Date:	24-Apr-2015 03:00:03	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCV 04			Worklist Smp#:	23
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71988/24 Calibration Date: 04/24/2015 03:43

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000018.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	147.1	131.4		4.47	5.00	-10.7	30.0
RDX	Ave	101.4	102.0		5.03	5.00	0.6	30.0
Ethylene glycol dinitrate	Ave	120.7	113.9		18.9	20.0	-5.6	30.0
Picric acid	Ave	130.7	118.8		18.2	20.0	-9.1	30.0
1,3,5-Trinitrobenzene	Ave	194.5	170.8		4.39	5.00	-12.2	30.0
1,3-Dinitrobenzene	Ave	186.8	167.8		4.49	5.00	-10.2	30.0
3,5-Dinitroaniline	Ave	123.0	110.4		4.49	5.00	-10.2	30.0
Tetryl	Ave	111.0	108.0		4.86	5.00	-2.7	30.0
Nitrobenzene	Ave	84.47	80.00		4.74	5.00	-5.3	30.0
Nitroglycerin	Ave	76.63	76.00		19.8	20.0	-0.8	30.0
2,4,6-Trinitrotoluene	Ave	113.7	110.8		4.87	5.00	-2.5	30.0
4-Amino-2,6-dinitrotoluene	Ave	91.51	83.80		4.58	5.00	-8.4	30.0
2-Amino-4,6-dinitrotoluene	Ave	102.1	93.40		4.57	5.00	-8.6	30.0
2,6-Dinitrotoluene	Ave	71.94	67.80		4.71	5.00	-5.8	30.0
2,4-Dinitrotoluene	Ave	118.3	110.0		4.65	5.00	-7.0	30.0
2-Nitrotoluene	Ave	52.41	52.00		4.96	5.00	-0.8	30.0
4-Nitrotoluene	Ave	62.96	65.20		5.18	5.00	3.6	30.0
3-Nitrotoluene	Ave	59.21	60.00		5.07	5.00	1.3	30.0
PETN	Ave	44.44	49.65		22.3	20.0	11.7	30.0
3,4-Dinitrotoluene	Ave	67.04	64.80		4.83	5.00	-3.3	30.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: CCVL 320-71988/24 Calibration Date: 04/24/2015 03:43

Instrument ID: LC10 Calib Start Date: 03/11/2015 15:47

GC Column: Synergi C18 ID: 4.60(mm) Calib End Date: 03/11/2015 20:09

Lab File ID: W000018.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	5.18	4.93	5.43
RDX	7.46	7.21	7.71
Ethylene glycol dinitrate	8.09	7.84	8.34
Picric acid	8.69	8.44	8.94
1,3,5-Trinitrobenzene	9.67	9.42	9.92
1,3-Dinitrobenzene	12.28	12.03	12.53
3,5-Dinitroaniline	13.04	12.79	13.29
Tetryl	13.54	13.29	13.79
Nitrobenzene	14.01	13.76	14.26
Nitroglycerin	14.81	14.56	15.06
2,4,6-Trinitrotoluene	15.52	15.27	15.77
4-Amino-2,6-dinitrotoluene	16.20	15.95	16.45
2-Amino-4,6-dinitrotoluene	17.05	16.80	17.30
2,6-Dinitrotoluene	18.61	18.36	18.86
2,4-Dinitrotoluene	19.16	18.91	19.41
2-Nitrotoluene	22.60	22.35	22.85
4-Nitrotoluene	24.20	23.95	24.45
3-Nitrotoluene	25.96	25.71	26.21
PETN	28.47	28.22	28.72
3,4-Dinitrotoluene	16.61	16.36	16.86

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000018.D
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 24-Apr-2015 03:43:39 ALS Bottle#: 2 Worklist Smp#: 24
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-024
Operator ID: YPH Instrument ID: LC10
Sublist: chrom-8330_LC10*sub1

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 11:46:02 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 11:46:02

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.180	5.180	0.000	657H	5.00	4.47	
19 RDX							
1	7.457	7.457	0.000	510H	5.00	5.03	
3 Ethylene glycol dinitrate							
2	8.093	8.093	0.000	2278H	20.0	18.9	
10 2,4,6-Trinitrophenol							
2	8.693	8.693	0.000	2375H	20.0	18.2	
1	8.680	8.680	0.000	1633H	20.0	17.8	
27 1,3,5-Trinitrobenzene							
1	9.667	9.667	0.000	854H	5.00	4.39	
24 1,3-Dinitrobenzene							
1	12.277	12.277	0.000	839H	5.00	4.49	
9 3,5-Dinitroaniline							
1	13.040	13.040	0.000	552H	5.00	4.49	
20 Tetryl							
1	13.540	13.540	0.000	540H	5.00	4.86	
5 Nitrobenzene							
1	14.010	14.010	0.000	400H	5.00	4.74	
7 Nitroglycerin							
2	14.810	14.810	0.000	1520H	20.0	19.8	
25 2,4,6-Trinitrotoluene							
1	15.520	15.520	0.000	554H	5.00	4.87	
26 4-Amino-2,6-dinitrotoluene							
1	16.204	16.204	0.000	419H	5.00	4.58	
$ 30 3,4-Dinitrotoluene							
1	16.614	16.614	0.000	324H	5.00	4.83	
2	16.247	16.247	0.000	690H	5.00	5.14	
6 2-Amino-4,6-dinitrotoluene							
1	17.054	17.054	0.000	467H	5.00	4.57	
12 2,6-Dinitrotoluene							
1	18.607	18.607	0.000	339H	5.00	4.71	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
23 2,4-Dinitrotoluene							
1	19.164	19.164	0.000	550H	5.00	4.65	
16 o-Nitrotoluene							
1	22.604	22.604	0.000	260H	5.00	4.96	
15 p-Nitrotoluene							
1	24.197	24.197	0.000	326H	5.00	5.18	
8 m-Nitrotoluene							
1	25.960	25.960	0.000	300H	5.00	5.07	
21 PETN							
2	28.470	28.470	0.000	993H	20.0	22.3	

Reagents:

HP8330ICL_00025 Amount Added: 1.00 Units: mL

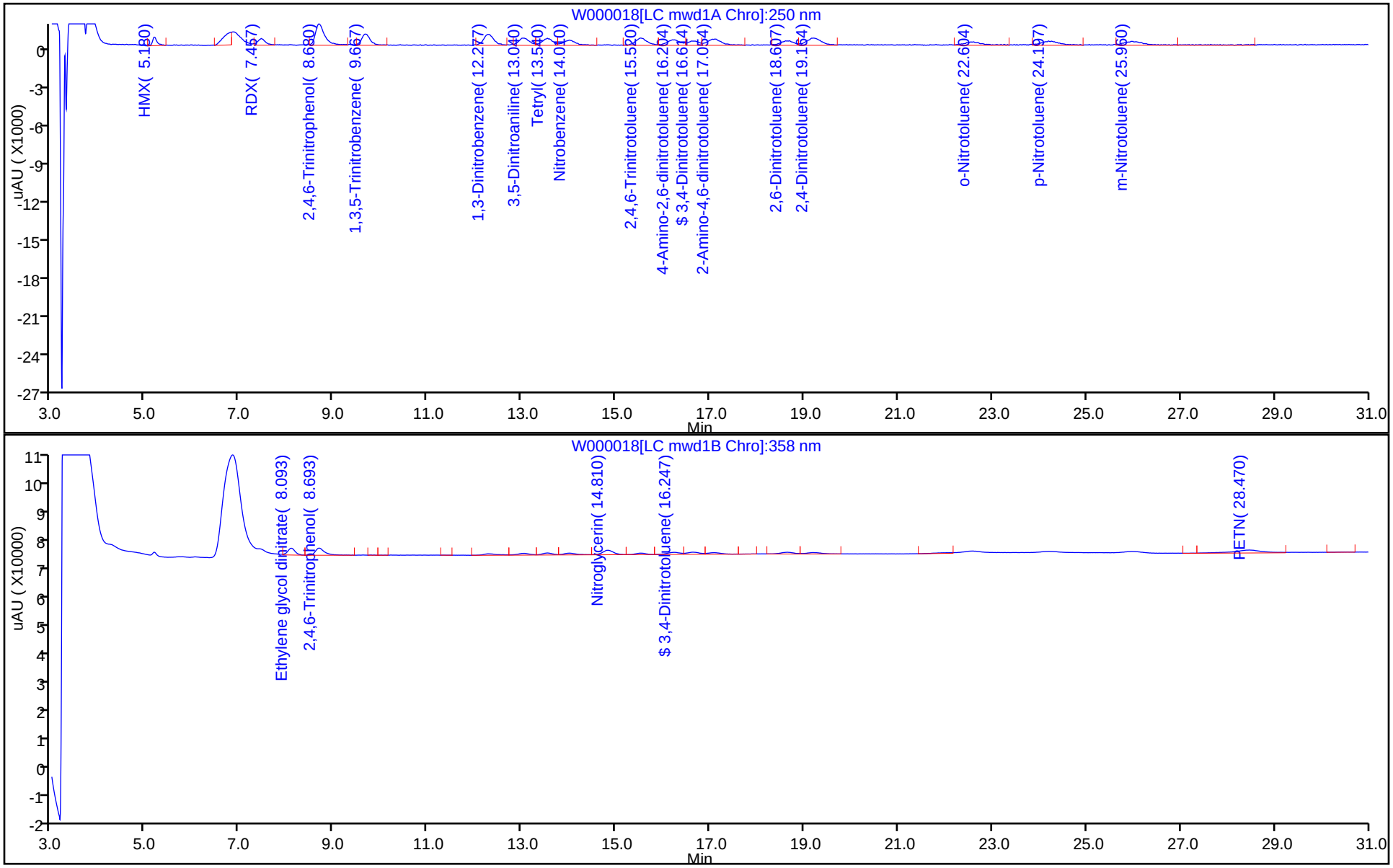
Report Date: 24-Apr-2015 11:46:02 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000018.D

Injection Date:	24-Apr-2015 03:43:39	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	CCVL			Worklist Smp#:	24
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: MB 320-71481/1-A

Matrix: Solid | Lab File ID: W000005.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 8330B | Date Extracted: 04/18/2015 14:00

Sample wt/vol: 10.00(g) | Date Analyzed: 04/23/2015 18:16

Con. Extract Vol.: 80.00(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 71988 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.050	U	0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.050	U	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.050	U	0.25	0.050	0.0073
2691-41-0	HMX	0.050	U	0.25	0.050	0.012
98-95-3	Nitrobenzene	0.050	U	0.25	0.050	0.018
55-63-0	Nitroglycerin	0.25	U	0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.050	U	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.050	U	0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.050	U	0.25	0.050	0.018
78-11-5	PETN	0.25	U	0.50	0.25	0.025
121-82-4	RDX	0.050	U	0.25	0.050	0.012
479-45-8	Tetryl	0.050	U	0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	90		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000005.D
Lims ID: MB 320-71481/1-A
Client ID:
Sample Type: MB
Inject. Date: 23-Apr-2015 18:16:51 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-005
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 16:50:23 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 16:50:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
$ 30 3,4-Dinitrotoluene							
1	16.659	16.651	0.008	3768H	62.5	56.2	
2	16.224	16.224	0.000	0H	62.5	0	

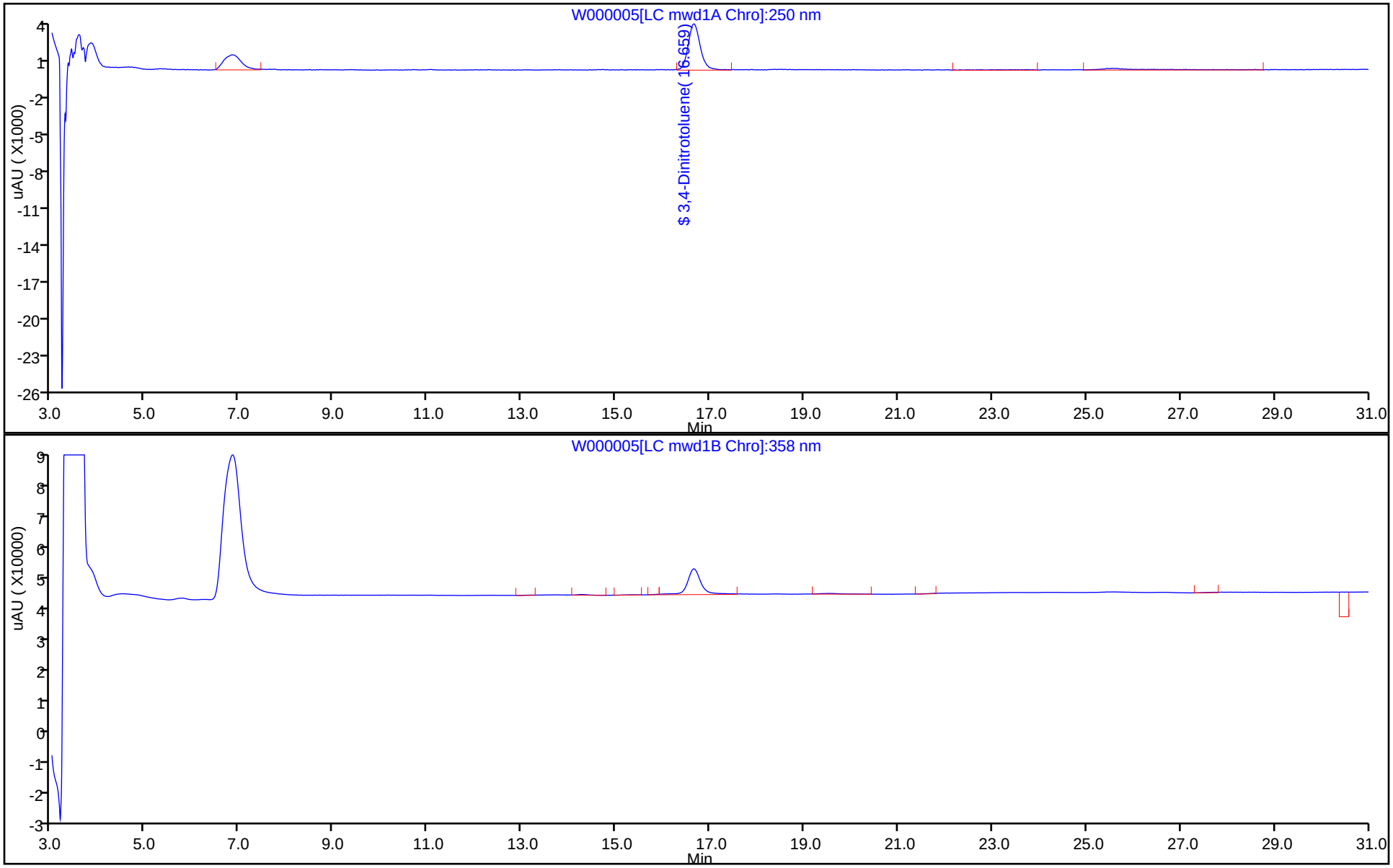
Report Date: 24-Apr-2015 16:50:23 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000005.D

Injection Date:	23-Apr-2015 18:16:51	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	MB 320-71481/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: | Lab Sample ID: LCS 320-71481/2-A

Matrix: Solid | Lab File ID: W000006.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 8330B | Date Extracted: 04/18/2015 14:00

Sample wt/vol: 10.00(g) | Date Analyzed: 04/23/2015 19:00

Con. Extract Vol.: 80.00(mL) | Dilution Factor: 1

Injection Volume: 500(uL) | GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 71988 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.465		0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.460		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.471		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.470		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.469		0.25	0.050	0.0073
2691-41-0	HMX	0.463		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.475		0.25	0.050	0.018
55-63-0	Nitroglycerin	1.00		0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.471		0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.470		0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.471		0.25	0.050	0.018
78-11-5	PETN	0.975		0.50	0.25	0.025
121-82-4	RDX	0.463		0.25	0.050	0.012
479-45-8	Tetryl	0.472		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.468		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.470		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	92		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000006.D
Lims ID: LCS 320-71481/2-A
Client ID:
Sample Type: LCS
Inject. Date: 23-Apr-2015 19:00:28 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-006
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 16:50:23 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 16:50:53

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.188	5.181	0.007	8509H	62.5	57.8	
19 RDX							
1	7.461	7.454	0.007	5862H	62.5	57.8	
27 1,3,5-Trinitrobenzene							
1	9.681	9.671	0.010	11386H	62.5	58.5	
24 1,3-Dinitrobenzene							
1	12.298	12.281	0.017	10991H	62.5	58.8	
9 3,5-Dinitroaniline							
1	13.048	13.031	0.017	7143H	62.5	58.1	
20 Tetryl							
1	13.554	13.541	0.013	6544H	62.5	59.0	
5 Nitrobenzene							
1	14.018	14.004	0.014	5017H	62.5	59.4	
7 Nitroglycerin							
2	14.838	14.824	0.014	9596H	125.0	125.2	
25 2,4,6-Trinitrotoluene							
1	15.541	15.534	0.007	6676H	62.5	58.7	
26 4-Amino-2,6-dinitrotoluene							
1	16.231	16.224	0.007	5264H	62.5	57.5	
$ 30 3,4-Dinitrotoluene							
1	16.658	16.651	0.007	3873H	62.5	57.8	
2	16.231	16.224	0.007	7525H	62.5	56.0	
6 2-Amino-4,6-dinitrotoluene							
1	17.101	17.091	0.010	5939H	62.5	58.1	
12 2,6-Dinitrotoluene							
1	18.651	18.644	0.007	4222H	62.5	58.7	
23 2,4-Dinitrotoluene							
1	19.221	19.211	0.010	6950H	62.5	58.8	
16 o-Nitrotoluene							
1	22.584	22.578	0.006	3083H	62.5	58.8	
15 p-Nitrotoluene							
1	24.241	24.224	0.017	3704H	62.5	58.8	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
8 m-Nitrotoluene							
1	25.994	25.988	0.006	3481H	62.5	58.8	
21 PETN							
2	28.461	28.448	0.013	5418H	125.0	121.9	

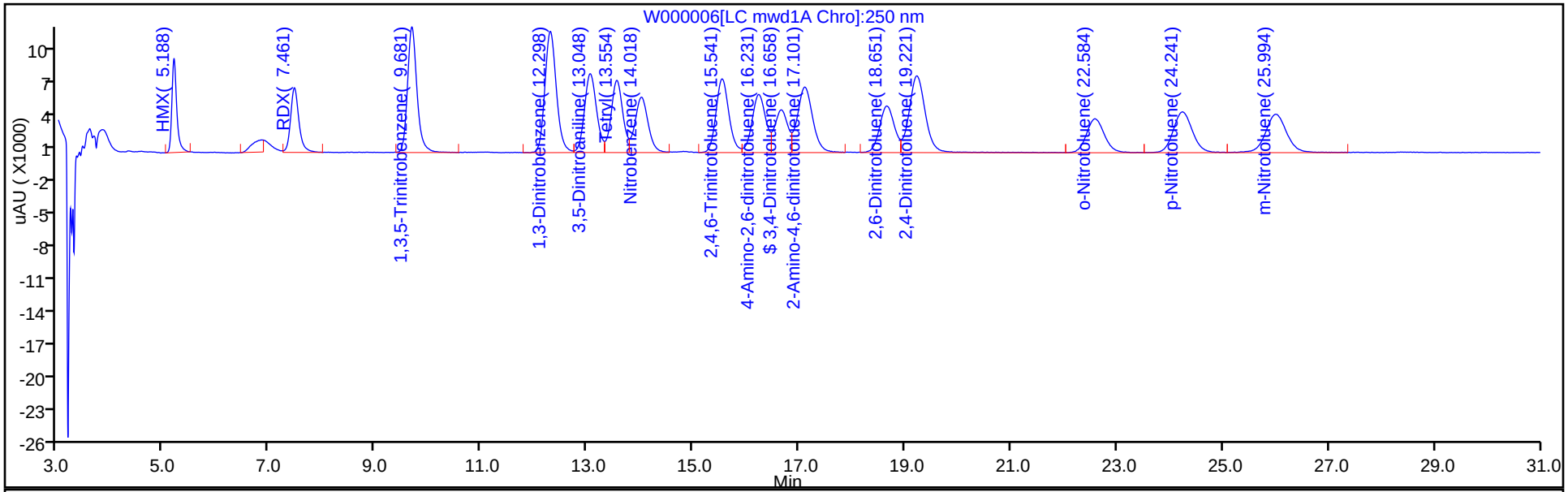
Report Date: 24-Apr-2015 16:50:53 Chrom Revision: 2.2 09-Apr-2015 10:05:40

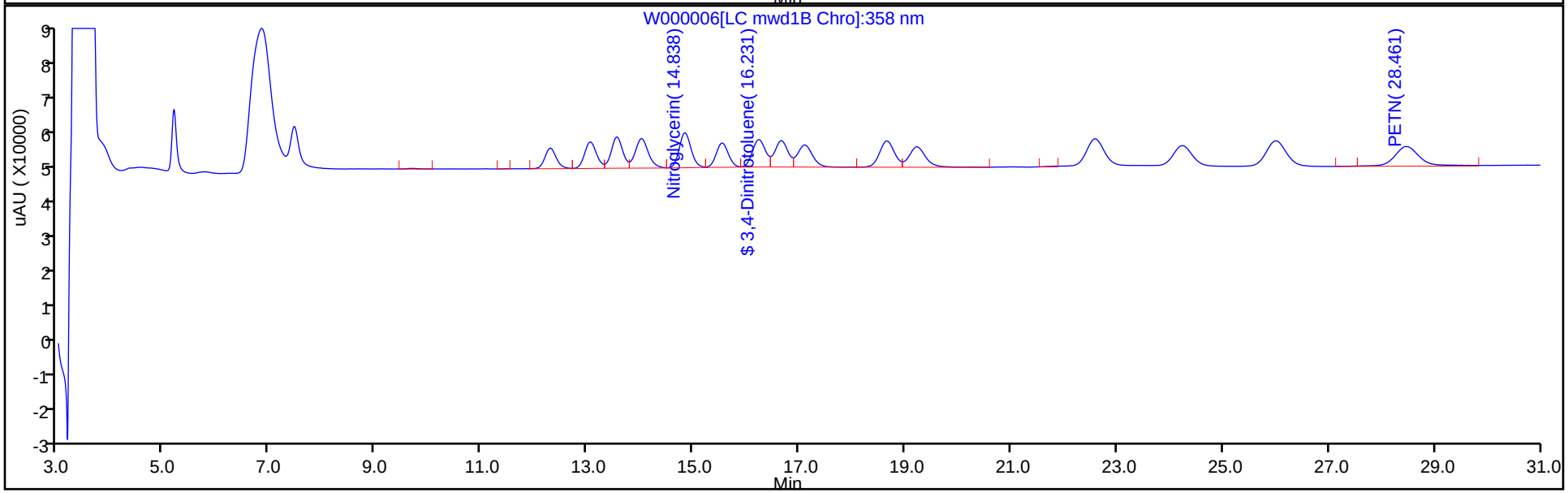
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000006.D

Injection Date:	23-Apr-2015 19:00:28	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	LCS 320-71481/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MS

Matrix: Solid Lab File ID: W000008.D

Analysis Method: 8330B Date Collected: 04/06/2015 16:30

Extraction Method: 8330B Date Extracted: 04/18/2015 14:00

Sample wt/vol: 10.00(g) Date Analyzed: 04/23/2015 20:27

Con. Extract Vol.: 80.00(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 71988 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.459		0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.435		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.467		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.466	M	0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.475	M	0.25	0.050	0.0073
2691-41-0	HMX	0.455		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.475		0.25	0.050	0.018
55-63-0	Nitroglycerin	0.992		0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.464	M	0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.494		0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.487		0.25	0.050	0.018
78-11-5	PETN	0.985		0.50	0.25	0.025
121-82-4	RDX	0.441		0.25	0.050	0.012
479-45-8	Tetryl	0.463		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.470		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.471		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	93		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000008.D
Lims ID: 240-49071-E-2-B MS
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MS
Inject. Date: 23-Apr-2015 20:27:38 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-008
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 16:59:11 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 16:59:11

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.186	5.181	0.005	8375H	62.5	56.9	
19 RDX							
1	7.463	7.454	0.009	5587H	62.5	55.1	
27 1,3,5-Trinitrobenzene							
1	9.679	9.671	0.008	11435H	62.5	58.8	
24 1,3-Dinitrobenzene							
1	12.293	12.281	0.012	10910H	62.5	58.4	
20 Tetryl							
1	13.543	13.541	0.002	6431H	62.5	57.9	
5 Nitrobenzene							
1	14.013	14.004	0.009	5019H	62.5	59.4	
7 Nitroglycerin							
2	14.829	14.824	0.005	9502H	125.0	124.0	
25 2,4,6-Trinitrotoluene							
1	15.536	15.534	0.002	6696H	62.5	58.9	
26 4-Amino-2,6-dinitrotoluene							
1	16.223	16.224	-0.001	4981H	62.5	54.4	
$ 30 3,4-Dinitrotoluene							
1	16.653	16.651	0.002	3876H	62.5	57.8	
2	16.219	16.224	-0.005	7082H	62.5	52.7	
6 2-Amino-4,6-dinitrotoluene							
1	17.083	17.091	-0.008	5857H	62.5	57.3	
12 2,6-Dinitrotoluene							M
1	18.639	18.644	-0.005	4270H	62.5	59.4	M
23 2,4-Dinitrotoluene							M
1	19.206	19.211	-0.005	6889H	62.5	58.2	M
16 o-Nitrotoluene							M
1	22.569	22.578	-0.009	3040H	62.5	58.0	M
15 p-Nitrotoluene							
1	24.229	24.224	0.005	3833H	62.5	60.9	
8 m-Nitrotoluene							
1	25.979	25.988	-0.009	3654H	62.5	61.7	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
21 PETN							
2	28.446	28.448	-0.002	5470H	125.0	123.1	

QC Flag Legend

Review Flags

M - Manually Integrated

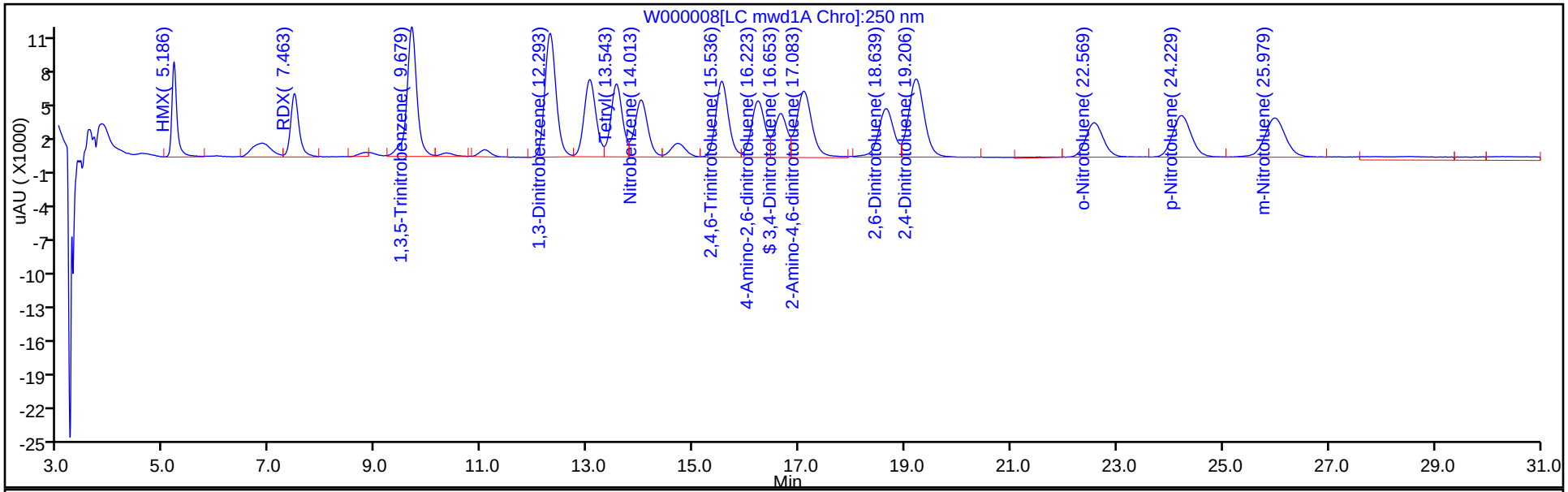
Report Date: 24-Apr-2015 16:59:11 Chrom Revision: 2.2 09-Apr-2015 10:05:40

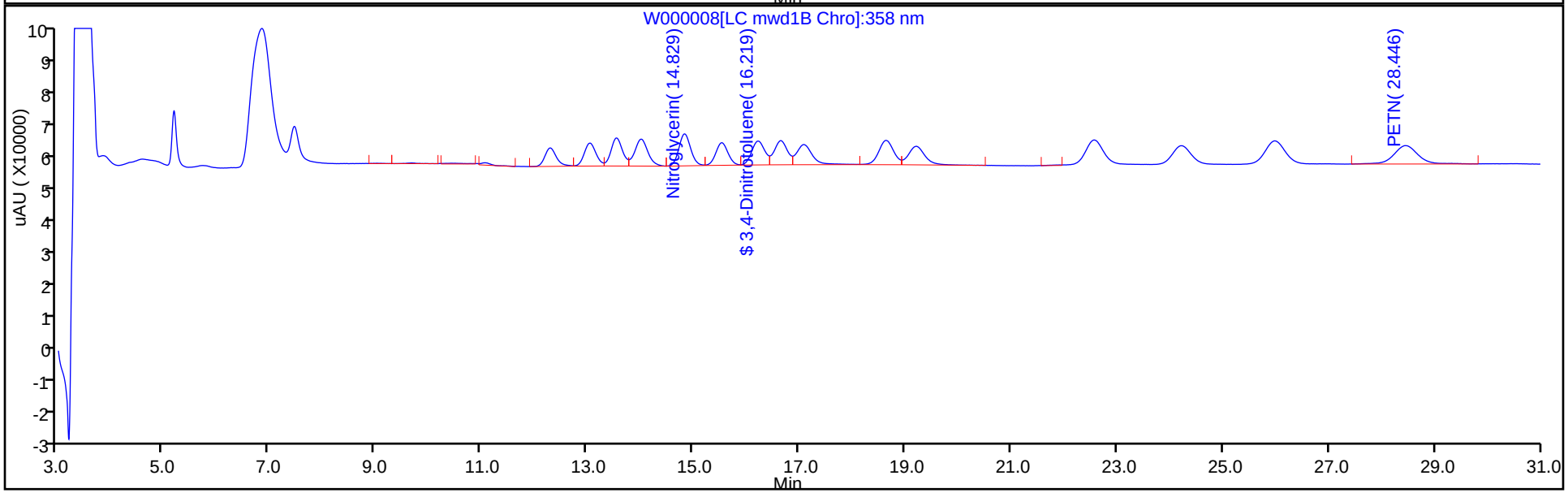
TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000008.D

Injection Date:	23-Apr-2015 20:27:38	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	240-49071-E-2-B MS			Worklist Smp#:	8
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)





Manual Integration/User Assign Peak Report

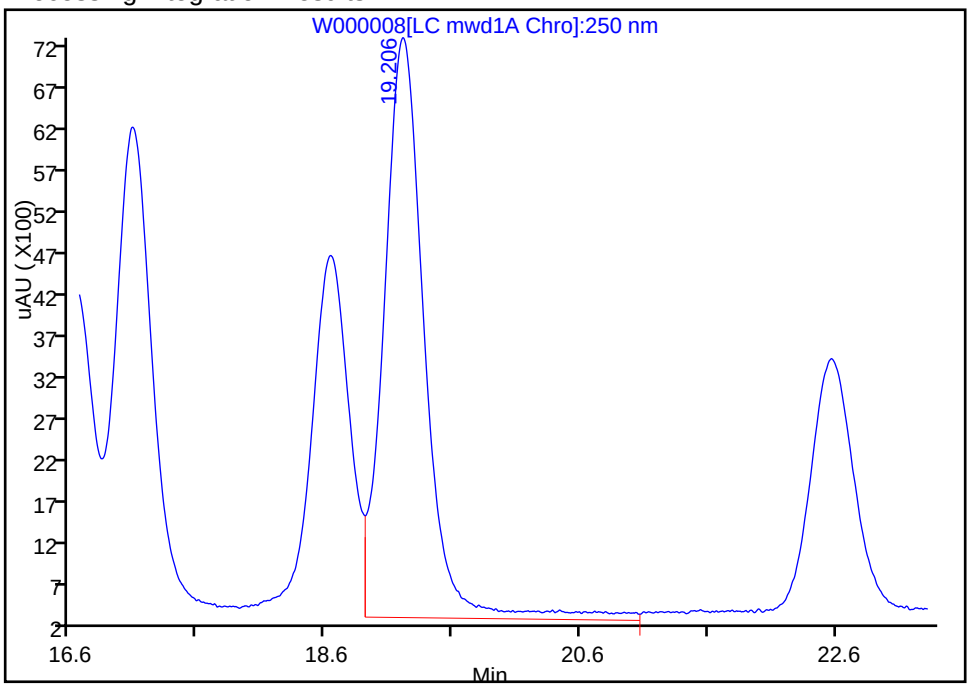
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000008.D				
Injection Date:	23-Apr-2015 20:27:38	Instrument ID:	LC10		
Lims ID:	240-49071-E-2-B MS				
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	YPH	ALS Bottle#:	16	Worklist Smp#:	8
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

23 2,4-Dinitrotoluene, CAS: 121-14-2

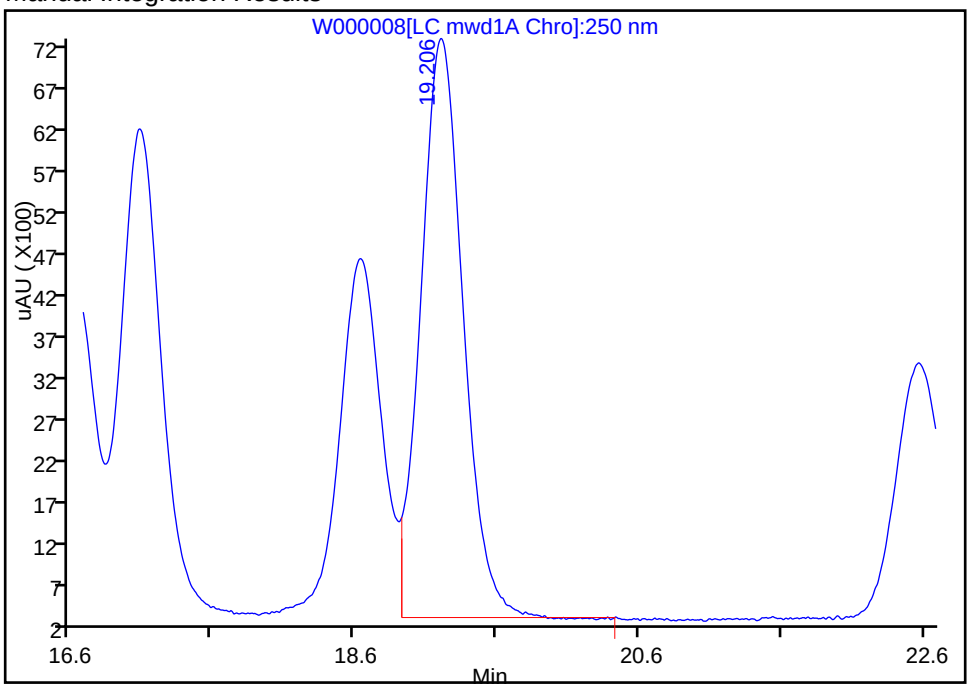
Processing Integration Results

RT: 19.21
Height: 6973
Amount: 58.951409
Amount Units: ng/ml



Manual Integration Results

RT: 19.21
Height: 6889
Amount: 58.241253
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 16:59:11
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

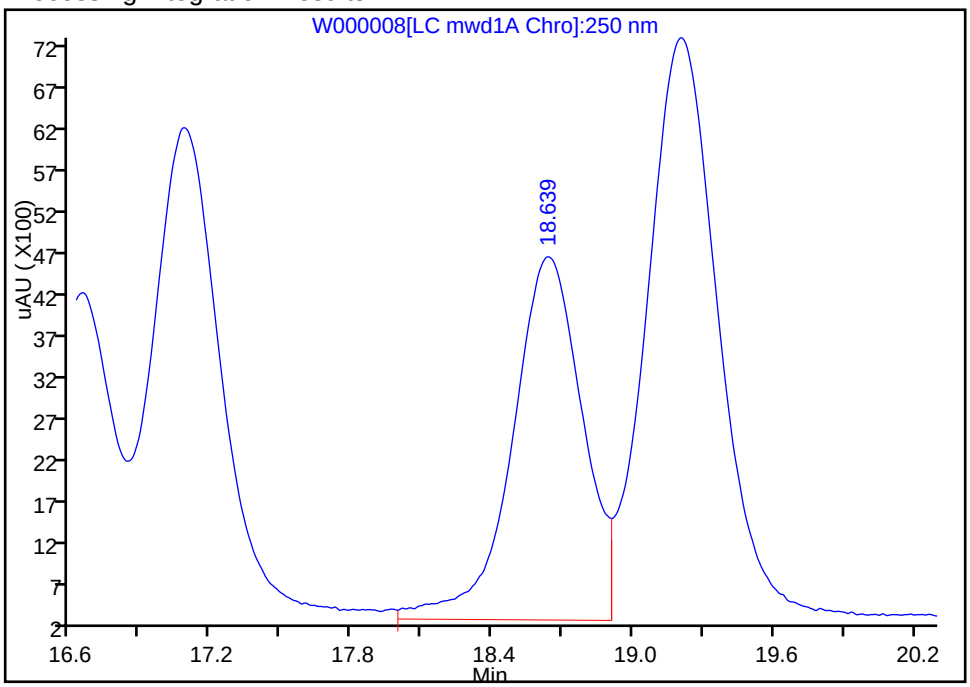
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000008.D				
Injection Date:	23-Apr-2015 20:27:38	Instrument ID:	LC10		
Lims ID:	240-49071-E-2-B MS				
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	YPH	ALS Bottle#:	16	Worklist Smp#:	8
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

12 2,6-Dinitrotoluene, CAS: 606-20-2

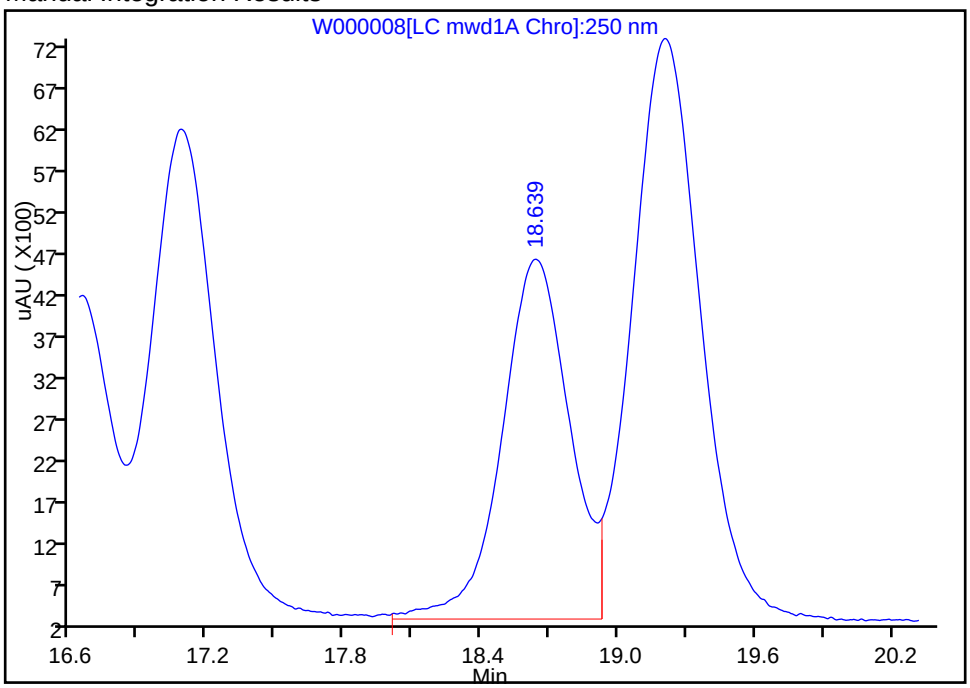
Processing Integration Results

RT: 18.64
Height: 4343
Amount: 60.368314
Amount Units: ng/ml



Manual Integration Results

RT: 18.64
Height: 4270
Amount: 59.353604
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 16:59:11
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

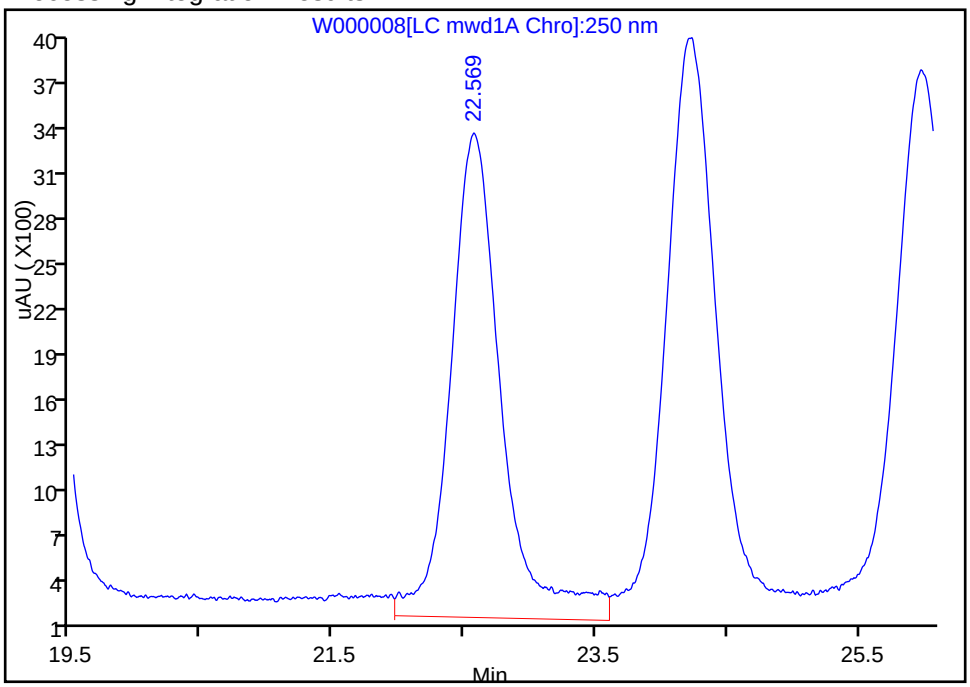
TestAmerica Sacramento

Data File:	\\SACChrom\ChromData\LC10\20150423-21275.b\W000008.D				
Injection Date:	23-Apr-2015 20:27:38	Instrument ID:	LC10		
Lims ID:	240-49071-E-2-B MS				
Client ID:	079SS-0342M-0001,0002-SO				
Operator ID:	YPH	ALS Bottle#:	16	Worklist Smp#:	8
Injection Vol:	500.0 ul	Dil. Factor:	1.0000		
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		
Column:	Synergi Hydro-RP C18 (4.60 mm)	Detector	LC mwd1A, 250 nm		

16 o-Nitrotoluene, CAS: 88-72-2

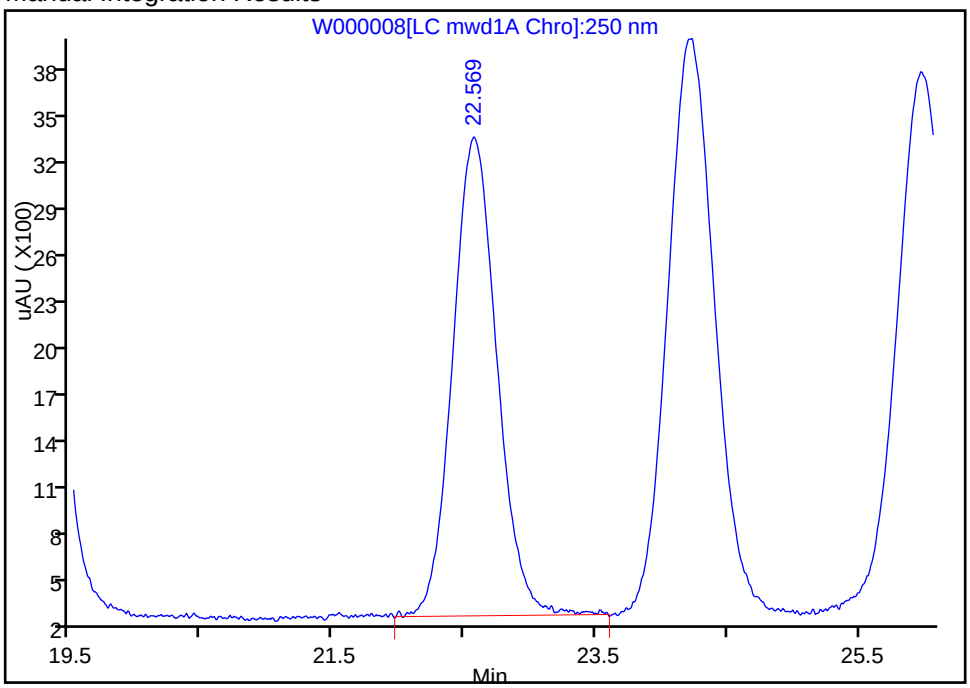
Processing Integration Results

RT: 22.57
Height: 3177
Amount: 60.622168
Amount Units: ng/ml



Manual Integration Results

RT: 22.57
Height: 3040
Amount: 58.007992
Amount Units: ng/ml



Reviewer: huangyun, 24-Apr-2015 16:59:11
Audit Action: Assigned New Baseline
Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Client Sample ID: 079SS-0342M-0001,0002-SO Lab Sample ID: 240-49071-2 MSD

Matrix: Solid Lab File ID: W000009.D

Analysis Method: 8330B Date Collected: 04/06/2015 16:30

Extraction Method: 8330B Date Extracted: 04/18/2015 14:00

Sample wt/vol: 9.97(g) Date Analyzed: 04/23/2015 21:11

Con. Extract Vol.: 80.00(mL) Dilution Factor: 1

Injection Volume: 500(uL) GC Column: Synergi C18 ID: 4.6(mm)

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

Analysis Batch No.: 71988 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	2-Amino-4,6-dinitrotoluene	0.454		0.25	0.050	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.429		0.25	0.050	0.010
99-65-0	1,3-Dinitrobenzene	0.471		0.25	0.050	0.0042
121-14-2	2,4-Dinitrotoluene	0.469		0.25	0.050	0.0053
606-20-2	2,6-Dinitrotoluene	0.472		0.25	0.050	0.0073
2691-41-0	HMX	0.459		0.25	0.050	0.012
98-95-3	Nitrobenzene	0.472		0.25	0.050	0.018
55-63-0	Nitroglycerin	1.01		0.50	0.25	0.015
88-72-2	2-Nitrotoluene	0.472		0.25	0.050	0.013
99-08-1	3-Nitrotoluene	0.473		0.25	0.050	0.016
99-99-0	4-Nitrotoluene	0.471		0.25	0.050	0.018
78-11-5	PETN	0.996		0.50	0.25	0.025
121-82-4	RDX	0.442		0.25	0.050	0.012
479-45-8	Tetryl	0.465		0.25	0.050	0.010
99-35-4	1,3,5-Trinitrobenzene	0.473		0.25	0.050	0.010
118-96-7	2,4,6-Trinitrotoluene	0.469		0.25	0.050	0.019

CAS NO.	SURROGATE	%REC	Q	LIMITS
610-39-9	3,4-Dinitrotoluene	90		78-118

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000009.D
Lims ID: 240-49071-E-2-C MSD
Client ID: 079SS-0342M-0001,0002-SO
Sample Type: MSD
Inject. Date: 23-Apr-2015 21:11:15 ALS Bottle#: 17 Worklist Smp#: 9
Injection Vol: 500.0 ul Dil. Factor: 1.0000
Sample Info: 320-0021275-009
Operator ID: YPH Instrument ID: LC10

Method: \\SACChrom\ChromData\LC10\20150423-21275.b\8330_LC10.m
Limit Group: LC 8330B ICAL
Last Update: 24-Apr-2015 16:52:29 Calib Date: 11-Mar-2015 20:09:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\SACChrom\ChromData\LC10\20150311-20096.b\J000013.D

Column 1 : Synergi Hydro-RP C18 (4.60 mm) Det: LC mwd1A, 250 nm
Process Host: XAWRK021

First Level Reviewer: huangyun Date: 24-Apr-2015 16:57:19

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
11 HMX							
1	5.184	5.181	0.003	8424H	62.5	57.3	
19 RDX							
1	7.458	7.454	0.004	5586H	62.5	55.1	
27 1,3,5-Trinitrobenzene							
1	9.671	9.671	0.000	11469H	62.5	59.0	
24 1,3-Dinitrobenzene							
1	12.285	12.281	0.004	10964H	62.5	58.7	
20 Tetryl							
1	13.541	13.541	0.000	6429H	62.5	57.9	
5 Nitrobenzene							
1	14.008	14.004	0.004	4964H	62.5	58.8	
7 Nitroglycerin							
2	14.828	14.824	0.004	9670H	125.0	126.2	
25 2,4,6-Trinitrotoluene							
1	15.531	15.534	-0.003	6650H	62.5	58.5	
26 4-Amino-2,6-dinitrotoluene							
1	16.215	16.224	-0.009	4891H	62.5	53.4	
$ 30 3,4-Dinitrotoluene							
1	16.641	16.651	-0.010	3788H	62.5	56.5	
2	16.218	16.224	-0.006	7176H	62.5	53.4	
6 2-Amino-4,6-dinitrotoluene							
1	17.081	17.091	-0.010	5781H	62.5	56.6	
12 2,6-Dinitrotoluene							
1	18.628	18.644	-0.016	4231H	62.5	58.8	
23 2,4-Dinitrotoluene							
1	19.201	19.211	-0.010	6914H	62.5	58.5	
16 o-Nitrotoluene							
1	22.568	22.578	-0.010	3080H	62.5	58.8	
15 p-Nitrotoluene							
1	24.211	24.224	-0.013	3695H	62.5	58.7	
8 m-Nitrotoluene							
1	25.975	25.988	-0.013	3487H	62.5	58.9	

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
21 PETN							
2	28.441	28.448	-0.007	5516H	125.0	124.1	

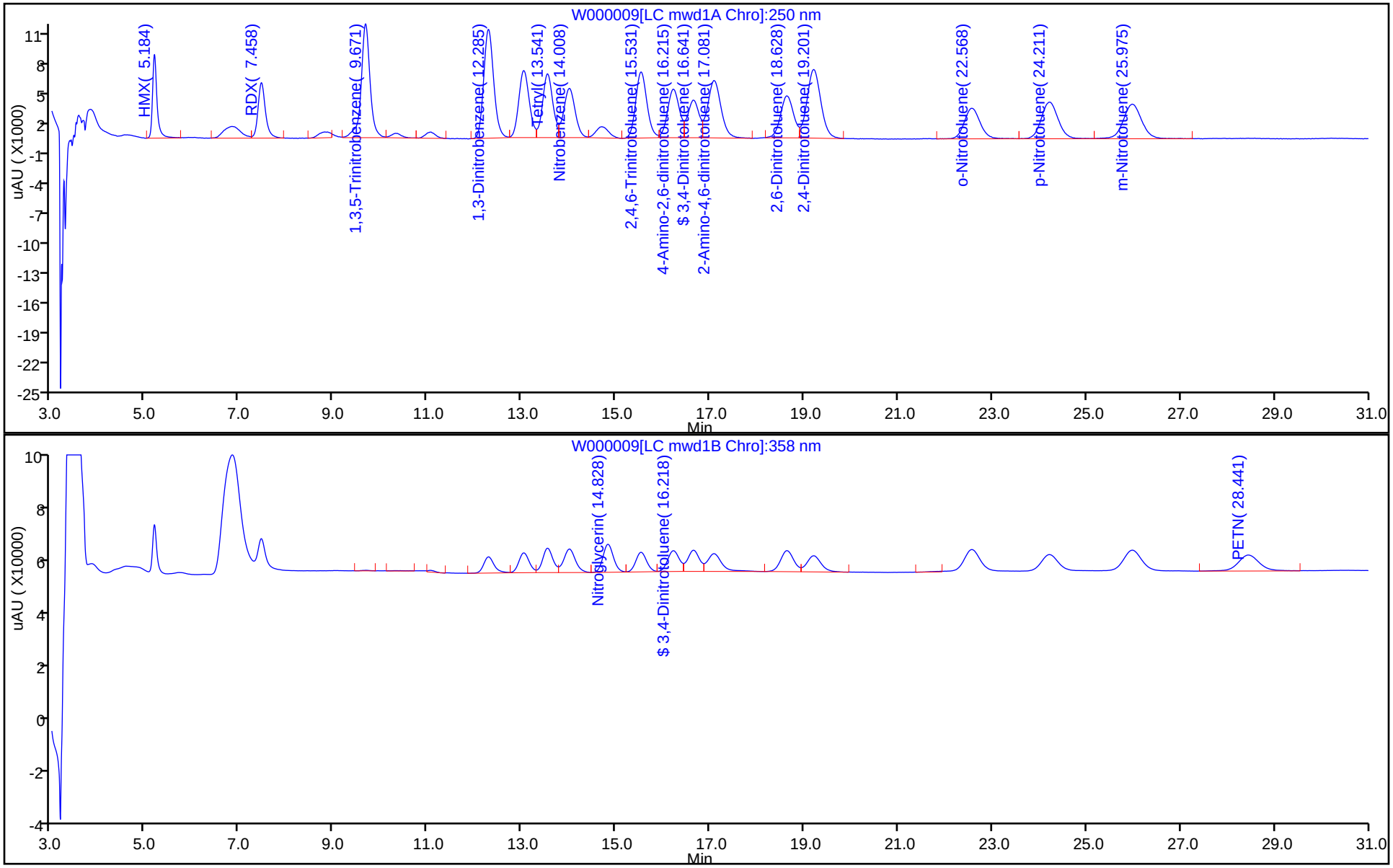
Report Date: 24-Apr-2015 16:57:19 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Sacramento

Data File: \\SACChrom\ChromData\LC10\20150423-21275.b\W000009.D

Injection Date:	23-Apr-2015 21:11:15	Instrument ID:	LC10	Operator ID:	YPH
Lims ID:	240-49071-E-2-C MSD			Worklist Smp#:	9
Client ID:	079SS-0342M-0001,0002-SO				
Injection Vol:	500.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_LC10	Limit Group:	LC 8330B ICAL		

Column: Synergi Hydro-RP C18 (4.60 mm)



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: LC10 Start Date: 03/11/2015 15:03

Analysis Batch Number: 67883 End Date: 03/11/2015 22:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/11/2015 15:03	1		Synergi C18 4.6(mm)
IC 320-67883/4		03/11/2015 15:47	1	J000007.D	Synergi C18 4.6(mm)
IC 320-67883/5		03/11/2015 16:31	1	J000008.D	Synergi C18 4.6(mm)
IC 320-67883/6		03/11/2015 17:14	1	J000009.D	Synergi C18 4.6(mm)
IC 320-67883/7		03/11/2015 17:58	1	J000010.D	Synergi C18 4.6(mm)
IC 320-67883/8		03/11/2015 18:42	1	J000011.D	Synergi C18 4.6(mm)
IC 320-67883/9		03/11/2015 19:25	1	J000012.D	Synergi C18 4.6(mm)
IC 320-67883/10		03/11/2015 20:09	1	J000013.D	Synergi C18 4.6(mm)
ZZZZZ		03/11/2015 20:53	1		Synergi C18 4.6(mm)
ICV 320-67883/12		03/11/2015 21:36	1	J000015.D	Synergi C18 4.6(mm)
LODV 320-67883/13		03/11/2015 22:20	1	J000016.D	Synergi C18 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: LC10 Start Date: 04/23/2015 16:49

Analysis Batch Number: 71988 End Date: 04/24/2015 03:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-71988/3		04/23/2015 16:49	1	W000003.D	Synergi C18 4.6(mm)
CCV 320-71988/4 CCVRT		04/23/2015 17:33	1	W000004.D	Synergi C18 4.6(mm)
MB 320-71481/1-A		04/23/2015 18:16	1	W000005.D	Synergi C18 4.6(mm)
LCS 320-71481/2-A		04/23/2015 19:00	1	W000006.D	Synergi C18 4.6(mm)
240-49071-2	079SS-0342M-0001,0002 -SO	04/23/2015 19:44	1	W000007.D	Synergi C18 4.6(mm)
240-49071-2 MS	079SS-0342M-0001,0002 -SO MS	04/23/2015 20:27	1	W000008.D	Synergi C18 4.6(mm)
240-49071-2 MSD	079SS-0342M-0001,0002 -SO MSD	04/23/2015 21:11	1	W000009.D	Synergi C18 4.6(mm)
ZZZZZ		04/23/2015 21:54	1		Synergi C18 4.6(mm)
ZZZZZ		04/23/2015 22:38	1		Synergi C18 4.6(mm)
ZZZZZ		04/23/2015 23:22	1		Synergi C18 4.6(mm)
ZZZZZ		04/24/2015 00:05	1		Synergi C18 4.6(mm)
ZZZZZ		04/24/2015 00:49	1		Synergi C18 4.6(mm)
ZZZZZ		04/24/2015 01:32	1		Synergi C18 4.6(mm)
ZZZZZ		04/24/2015 02:16	10		Synergi C18 4.6(mm)
CCV 320-71988/23		04/24/2015 03:00	1	W000017.D	Synergi C18 4.6(mm)
CCVL 320-71988/24		04/24/2015 03:43	1	W000018.D	Synergi C18 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 71481 Batch Start Date: 04/18/15 14:00 Batch Analyst: Reed, Jonathan E

Batch Method: 8330B Batch End Date: 04/20/15 10:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HP34DNTSU 00039	HP8330SP 00051	HPNGPETNSP 00026	
MB 320-71481/1		8330B, 8330B		10.00 g	80.00 mL	100 uL			
LCS 320-71481/2		8330B, 8330B		10.00 g	80.00 mL	100 uL	100 uL	200 uL	
240-49071-E-2	079SS-0342M-0001 ,0002-SO	8330B, 8330B	T	9.97 g	80.00 mL	100 uL			
240-49071-E-2 MS	079SS-0342M-0001 ,0002-SO	8330B, 8330B	T	10.00 g	80.00 mL	100 uL	100 uL	200 uL	
240-49071-E-2 MSD	079SS-0342M-0001 ,0002-SO	8330B, 8330B	T	9.97 g	80.00 mL	100 uL	100 uL	200 uL	

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

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 71481 Batch Start Date: 04/18/15 14:00 Batch Analyst: Reed, Jonathan E

Batch Method: 8330B Batch End Date: 04/20/15 10:15

Batch Notes	
Balance ID	QA-070
Calcium Chloride Reagent ID	1.3g/l C:Chl_00004
Person's name who did the concentration	SNE
Date of Clean up	4/20/15
Analyst performed Clean Up	SNE
Diluting Solvent Lot #	1.3g/l C:Chl_00004
Date Dilution Performed	4/20/14
Analytst performing Dilution	SNE
Filter Lot #	MILLIPORE: R4NA21509
Filter Type	PTFE 0.45um 25mm
Minumum Temperature	11C
Pipette ID	EC15219
Pipette ID for Solvent	08-Z0243
Prep Solvent Volume Used	20.00mL mL
Person's name who witnessed reagent drop	CHERYL HYTREK
Blank Sand Lot #	FISHER: 142675
Solvent Lot #	0.1%HOAC/ACN_00014
Solvent Name	0.1%HOAC/ACN_00014
Sonication Start Time	14:40 4/18/15
Sonication Stop Time	08:40 4/19/15
SOP Number	WS-LC-0009
Maximum Temperature	25C

Basis	Basis Description
T	Total/NA

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

HPLC/LCMS Data Review Checklist

Job Number(s): 240-49071 Work List ID(s): 21275

Extraction Batch: 71481 Analysis Batch(es): 71988

Delivery Rank 4 Due Date: 4/24/2015

A. Calibration/Instrument Run QC	1st Level	2nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# 67883	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• $RF_{average}$ criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓		✓
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).	✓		✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓		✓
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	✓	✓	
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?			✓
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all non-conformances documented/attached? NCM#			✓
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

**Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.*

1st Level (Analyst): YPH Date: 4/27/2015

2nd Level Reviewer: V. Nelson Date: 4/27/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

GC/HPLC ICAL Review Checklist

Instrument ID: LC10 Method: 8330A/B

Work List ID: 20096 Analysis Batch(es): 67883(8330B), 67884(8330A) ~~67885(P) 67886(B-DOD5)~~

Analytes Included in this ICAL: 8330+3,5-DNA, NG, PETN, EGDN

(ICAL 3/11/2015)

ICAL Review	1st Level	2nd Level	N/A
1. Method locked in Chrom.	✓	✓	
2. ICAL is set as most recent method in Chrom.	✓	✓	
3. PEM meets measurements for 8081			✓
4. Alkane Marker included for 8015 TPH and RT windows set correctly			✓
5. Standards used in ICAL are correct	✓	✓	
6. No analytes have saturated peaks	✓	✓	
7. All peaks correctly identified and within retention time windows	✓	✓	
8. Manual integrations reviewed and appropriate	✓	✓	
9. All analytes meet %RSD or linear regression requirements	✓	✓	
10. Any levels dropped are reviewed and appropriate	✓	✓	
11. ICV meets requirements and is run after the ICAL	✓	✓	
12. RFs are calculated correctly. Perform Manual calculation	✓	✓	
13. ICAL meets requirements stated in SOP	✓	✓	
13. Chromatograms are uploaded/reviewed in ?TALs	✓	✓	
14. ICAL is locked in TALs.		✓	

Curve Valid for:	Yes	No	Criteria
Standard SOP	✓		RSD ≤20%, r≥ 0.995 (intercept <1/2RL for 8081,8082, NQ) and (<RL for 8330) and r>0.990 (intercept <RL for 8015), ICV≤15%, PEM ≤15%
DOD QSM V3,V4, V5	✓		RSD ≤20%, r≥ 0.995, ICV≤20%, PEM ≤15%
8330B DoD5	✓		RSD ≤15%, r≥ 0.99, ICV≤20%

1st Level Reviewer: YPH 3/12/2015 Date: 3/12/2015

2nd Level Reviewer: MWolf Date: 3/17/2015

Comments:

TestAmerica Laboratories
Worklist Report

Worklist Name: 04-23-2015 8330 Worklist Number: 21275
Instrument Name: LC10 Chrom Method: 8330_LC10
Injection Volume: 500.0 Units: ul
Analysis Type: Semi VOA
Batch Directory: \\SACChrom\ChromData\LC10\20150423-21275.b
Upload Directory: \\CORPTALSAPP02\320-WS-RawData\Organics\LC\LC10

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021275-001	# 1 Primer		Client		sv	1.000000	mL	1.000000
320-0021275-002	# 2 Primer		Client		sv	1.000000	mL	1.000000
320-0021275-003	# 3 CCVL	HP8330ICL_00025	CCVL		sv	1.000000	mL	1.000000
320-0021275-004	# 4 CCV 05	hp8330I5_00035	CCVRT		sv	1.000000	mL	1.000000
320-0021275-005	# 5 MB 320-71481/1-A		MB		sv	1.000000	mL	1.000000
320-0021275-006	# 6 LCS 320-71481/2-A		LCS		sv	1.000000	mL	1.000000
320-0021275-007	# 7 240-49071-E-2-A		Client		sv	1.000000	mL	1.000000
320-0021275-008	# 8 240-49071-E-2-B MS		MS		sv	1.000000	mL	1.000000
320-0021275-009	# 9 240-49071-E-2-C MSD		MSD		sv	1.000000	mL	1.000000
320-0021275-010	#10 240-49171-C-6-A		Client		sv	1.000000	mL	1.000000
320-0021275-011	#11 240-49171-C-8-A		Client		sv	1.000000	mL	1.000000
320-0021275-012	#12 240-49171-C-10-A		Client		sv	1.000000	mL	1.000000
320-0021275-014	#14 240-49233-C-4-A		Client		sv	1.000000	mL	1.000000
320-0021275-015	#15 240-49233-C-6-A		Client		sv	1.000000	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
320-0021275-016	#16 240-49233-C-8-A		Client		sv	1.000000	mL	1.000000
320-0021275-017	#17 240-49236-G-3-A		Client		sv	1.000000	mL	10.00
320-0021275-023	#23 CCV 04	hp8330l4_00026	CCV		sv	1.000000	mL	1.000000
320-0021275-024	#24 CCVL	HP8330ICL_00025	CCVL		sv	1.000000	mL	1.000000

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481

Method Code: 320-8330B_Sonc_10g-320

Analyst: Reed, Jonathan E

Batch Open: 4/18/2015 2:00:00PM

Batch End: 4/20/2015 10:15:00AM

Sonication Extraction (Explosives)

	Input Sample Lab ID (Analytical Method)	SDG	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~320-71481/1 N/A	N/A	10.00 g	80.00 mL	N/A	N/A	N/A		
2	LCS~320-71481/2 N/A	N/A	10.00 g	80.00 mL	N/A	N/A	N/A		
3	240-49071-E-2 (8330B)	CC 79 Area 8	9.97 g	80.00 mL	4/24/15	12_Days	4		
4	240-49071-E-2~MS (8330B)	CC 79 Area 8	10.00 g	80.00 mL	4/24/15	12_Days	4		
5	240-49071-E-2~MSD (8330B)	CC 79 Area 8	9.97 g	80.00 mL	4/24/15	12_Days	4		
6	240-49171-C-6 (8330B)	N/A	10.03 g	80.00 mL	4/27/15	12_Days	4		
7	240-49171-C-8 (8330B)	N/A	10.00 g	80.00 mL	4/27/15	12_Days	4		
8	240-49171-C-10 (8330B)	N/A	10.01 g	80.00 mL	4/27/15	12_Days	4		
9	240-49233-C-4 (8330B)	N/A	10.05 g	80.00 mL	4/28/15	12_Days	4		
10	240-49233-C-6 (8330B)	N/A	10.08 g	80.00 mL	4/28/15	12_Days	4		
11	240-49233-C-8 (8330B)	N/A	10.04 g	80.00 mL	4/28/15	12_Days	4		

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481

Method Code: 320-8330B_Sonc_10g-320

Analyst: Reed, Jonathan E

Batch Open: 4/18/2015 2:00:00PM

Batch End: 4/20/2015 10:15:00AM

Batch Notes

Acid used for pH adjustment	NA
Base used for pH adjustment	NA
Solvent Name	0.1%HOAC/ACN_00014
Solvent Lot #	0.1%HOAC/ACN_00014
Prep Solvent Volume Used	20.00mL
Person's name who witnessed reagent drop	CHERYL HYTREK
Person's name who did the concentration	SNE
Balance ID	QA-070
Blank Sand Lot #	FISHER: 142675
Pipette ID for Solvent	08-Z0243
Pipette ID	EC15219
Sonication Start Time	14:40 4/18/15
Sonication Stop Time	08:40 4/19/15
Minumum Temperature	11C
Maximum Temperature	25C
Filter Type	PTFE 0.45um 25mm
Filter Lot #	MILLIPORE: R4NA21509
Calcium Chloride Reagent ID	1.3g/l C:Chl_00004
Diluting Solvent Lot #	1.3g/l C:Chl_00004
Date Dilution Performed	4/20/14

Page 2293 of 2751

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481 Analyst: Reed, Jonathan E Batch Open: 4/18/2015 2:00:00PM

Method Code: 320-8330B_Sonc_10g-320 Batch End: 4/20/2015 10:15:00AM

Analytst performing Dilution	SNE
Date Sample was Dried	NA
Date Sample was Ground	NA
Date of Clean up	4/20/15
Analyst performed Clean Up	SNE
SOP Number	WS-LC-0009
Batch Comment	NA

Comments

240-49071-E-2	Method Comments: samples have been dried
240-49071-E-2~MS	Method Comments: samples have been dried
240-49071-E-2~MSD	Method Comments: samples have been dried
240-49171-C-6	Method Comments: samples have been dried
240-49171-C-8	Method Comments: samples have been dried
240-49171-C-10	Method Comments: samples have been dried
240-49233-C-4	Method Comments: samples have been dried
240-49233-C-6	Method Comments: samples have been dried
240-49233-C-8	Method Comments: samples have been dried

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481

Analyst: Reed, Jonathan E

Batch Open: 4/18/2015 2:00:00PM

Method Code: 320-8330B_Sonc_10g-320

Batch End:

Batch Notes

Acid used for pH adjustment	
Base used for pH adjustment	
Solvent Name	0.1% HOAC/ACN - 00014
Solvent Lot #	
Prep Solvent Volume Used	
Person's name who witnessed reagent drop	
Person's name who did the concentration	
Balance ID	
Blank Sand Lot #	142675
Pipette ID for Solvent	
Pipette ID	
Sonication Start Time	14:40 4/18/15
Sonication Stop Time	
Minumum Temperature	11 °C
Maximum Temperature	25 °C
Filter Type	
Filter Lot #	RMNA21509
Calcium Chloride Reagent ID	1.3g/L CaCl - 00009
Diluting Solvent Lot #	
Date Dilution Performed	4/20/15

Page 2295 of 2751

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481

Analyst: Reed, Jonathan E

Batch Open: 4/18/2015 2:00:00PM

Method Code: 320-8330B_Sonc_10g-320

Batch End:

Analytst performing Dilution	SNE
Date Sample was Dried	
Date Sample was Ground	
Date of Clean up	4/20/15
Analyst performed Clean Up	SNE
SOP Number	
Batch Comment	

Comments

240-49071-E-2	Method Comments: samples have been dried
240-49071-E-2~MS	Method Comments: samples have been dried
240-49071-E-2~MSD	Method Comments: samples have been dried
240-49171-C-6	Method Comments: samples have been dried
240-49171-C-8	Method Comments: samples have been dried
240-49171-C-10	Method Comments: samples have been dried
240-49233-C-4	Method Comments: samples have been dried
240-49233-C-6	Method Comments: samples have been dried
240-49233-C-8	Method Comments: samples have been dried

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481

Analyst: Reed, Jonathan E

Batch Open: 4/18/2015 2:00:00PM

Method Code: 320-8330B_Sonc_10g-320

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-71481/1	HP34DNTSU_00039	100.00 uL	80.00 mL	4/18/15	CH 4-18-15
LCS 320-71481/2	HP34DNTSU_00039	100.00 uL	80.00 mL		
LCS 320-71481/2	HP8330SP_00051	100.00 uL	80.00 mL		
LCS 320-71481/2	HPNGPETNSP_00026	200.00 uL	80.00 mL		
240-49071-E-2	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49071-E-2 MS	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49071-E-2 MS	HP8330SP_00051	100.00 uL	80.00 mL		
240-49071-E-2 MS	HPNGPETNSP_00026	200.00 uL	80.00 mL		
240-49071-E-2 MSD	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49071-E-2 MSD	HP8330SP_00051	100.00 uL	80.00 mL		
240-49071-E-2 MSD	HPNGPETNSP_00026	200.00 uL	80.00 mL		
240-49171-C-6	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49171-C-8	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49171-C-10	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49233-C-4	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49233-C-6	HP34DNTSU_00039	100.00 uL	80.00 mL		
240-49233-C-8	HP34DNTSU_00039	100.00 uL	80.00 mL		

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-71481 Analyst: Reed, Jonathan E Batch Open: 4/18/2015 2:00:00PM

Method Code: 320-8330B_Sonc_10g-320 Batch End: 4/20/2015 10:15:00AM

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 71481 Test: 8330B

Earliest Holding Time: 4/20/15 5 days

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	1st Level Reviewer	2nd Level Reviewer
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	NA	NA
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	1st Level Reviewer	2nd Level Reviewer
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: [signature] Date: 4/20/15

2nd Level Reviewer: HJA Date: 4-20-15

Comments: _____

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG No.: CC 79 Area 8

Project: RVAAP - AAP

Client Sample ID	Lab Sample ID
079SS-0342M-0001,0002-SO	240-49071-2
079SS-0343M-0001-SO	240-49071-3
079SS-0344M-0001-SO	240-49071-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0342M-0001,0002-SO
Lab Sample ID: 240-49071-2
Lab Name: TestAmerica Canton
Job No.: 240-49071-1
SDG ID.: CC 79 Area 8
Matrix: Solid
Date Sampled: 04/06/2015 16:30
Reporting Basis: DRY
Date Received: 04/08/2015 07:00
% Solids: 97.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	10000	480	97	15	mg/Kg		D J	50	6020
Antimony	0.14	0.39	0.14	0.014	mg/Kg	J	J D	2	6020
Arsenic	8.1	0.97	0.14	0.025	mg/Kg		D	2	6020
Barium	51	0.97	0.29	0.21	mg/Kg		J D	2	6020
Beryllium	0.40	0.19	0.097	0.011	mg/Kg		D	2	6020
Cadmium	0.18	0.39	0.0097	0.0036	mg/Kg	J	D	2	6020
Calcium	2100	390	97	21	mg/Kg		J D	2	6020
Chromium	14	0.97	0.43	0.058	mg/Kg		D	2	6020
Cobalt	5.7	0.19	0.014	0.0016	mg/Kg		D	2	6020
Copper	9.4	0.77	0.29	0.094	mg/Kg		D	2	6020
Iron	19000	2400	720	77	mg/Kg		D J	50	6020
Lead	15	0.58	0.19	0.043	mg/Kg		D	2	6020
Magnesium	1400	190	24	3.9	mg/Kg		D	2	6020
Manganese	380	0.97	0.39	0.12	mg/Kg		J D	2	6020
Nickel	36	0.97	0.24	0.038	mg/Kg		D	2	6020
Potassium	470	190	9.7	4.7	mg/Kg		D	2	6020
Selenium	0.84	0.97	0.058	0.039	mg/Kg	J	D	2	6020
Silver	0.043	0.19	0.048	0.0014	mg/Kg	J	D	2	6020
Sodium	28	190	39	8.4	mg/Kg	J	D	2	6020
Thallium	0.16	0.39	0.14	0.018	mg/Kg	J	D	2	6020
Vanadium	20	0.97	0.097	0.036	mg/Kg		D	2	6020
Zinc	55	7.7	1.9	0.48	mg/Kg		D	2	6020
Mercury	0.039	0.11	0.037	0.016	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0343M-0001-SO
Lab Sample ID: 240-49071-3
Lab Name: TestAmerica Canton
Job No.: 240-49071-1
SDG ID.: CC 79 Area 8
Matrix: Solid
Date Sampled: 04/06/2015 14:00
Reporting Basis: DRY
Date Received: 04/08/2015 07:00
% Solids: 97.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	8900	450	89	14	mg/Kg		D	50	6020
Antimony	0.11	0.36	0.13	0.013	mg/Kg	J	D	2	6020
Arsenic	9.5	0.89	0.13	0.023	mg/Kg		D	2	6020
Barium	52	0.89	0.27	0.20	mg/Kg		D	2	6020
Beryllium	0.48	0.18	0.089	0.0098	mg/Kg		D	2	6020
Cadmium	0.16	0.36	0.0089	0.0033	mg/Kg	J	D	2	6020
Calcium	4700	360	89	20	mg/Kg		D	2	6020
Chromium	17	0.89	0.40	0.054	mg/Kg		D	2	6020
Cobalt	7.4	0.18	0.013	0.0015	mg/Kg		D	2	6020
Copper	11	0.72	0.27	0.087	mg/Kg		D	2	6020
Iron	21000	2200	670	72	mg/Kg		D	50	6020
Lead	16	0.54	0.18	0.040	mg/Kg		D	2	6020
Magnesium	2500	180	22	3.6	mg/Kg		D	2	6020
Manganese	670	22	8.9	2.7	mg/Kg		D	50	6020
Nickel	19	0.89	0.22	0.035	mg/Kg		D	2	6020
Potassium	640	180	8.9	4.4	mg/Kg		D	2	6020
Selenium	0.75	0.89	0.054	0.036	mg/Kg	J	D	2	6020
Silver	0.030	0.18	0.045	0.0013	mg/Kg	J	D	2	6020
Sodium	31	180	36	7.8	mg/Kg	J	D	2	6020
Thallium	0.15	0.36	0.13	0.017	mg/Kg	J	D	2	6020
Vanadium	17	0.89	0.089	0.033	mg/Kg		D	2	6020
Zinc	52	7.2	1.8	0.45	mg/Kg		D	2	6020
Mercury	0.030	0.12	0.039	0.017	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 079SS-0344M-0001-SO
Lab Sample ID: 240-49071-4
Lab Name: TestAmerica Canton
Job No.: 240-49071-1
SDG ID.: CC 79 Area 8
Matrix: Solid
Date Sampled: 04/06/2015 00:00
Reporting Basis: DRY
Date Received: 04/08/2015 07:00
% Solids: 97.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	9400	420	85	13	mg/Kg		D	50	6020
Antimony	0.11	0.34	0.13	0.012	mg/Kg	J	D	2	6020
Arsenic	9.9	0.85	0.13	0.022	mg/Kg		D	2	6020
Barium	51	0.85	0.25	0.19	mg/Kg		D	2	6020
Beryllium	0.45	0.17	0.085	0.0093	mg/Kg		D	2	6020
Cadmium	0.15	0.34	0.0085	0.0031	mg/Kg	J	D	2	6020
Calcium	5500	340	85	19	mg/Kg		D	2	6020
Chromium	16	0.85	0.38	0.051	mg/Kg		D	2	6020
Cobalt	6.2	0.17	0.013	0.0014	mg/Kg		D	2	6020
Copper	13	0.68	0.25	0.082	mg/Kg		D	2	6020
Iron	22000	2100	640	68	mg/Kg		D	50	6020
Lead	17	0.51	0.17	0.038	mg/Kg		D	2	6020
Magnesium	2300	170	21	3.4	mg/Kg		D	2	6020
Manganese	450	21	8.5	2.5	mg/Kg		D	50	6020
Nickel	18	0.85	0.21	0.033	mg/Kg		D	2	6020
Potassium	670	170	8.5	4.2	mg/Kg		D	2	6020
Selenium	0.75	0.85	0.051	0.034	mg/Kg	J	D	2	6020
Silver	0.030	0.17	0.042	0.0012	mg/Kg	J	D	2	6020
Sodium	29	170	34	7.4	mg/Kg	J	D	2	6020
Thallium	0.14	0.34	0.13	0.016	mg/Kg	J	D	2	6020
Vanadium	16	0.85	0.085	0.031	mg/Kg		D	2	6020
Zinc	53	6.8	1.7	0.42	mg/Kg		D	2	6020
Mercury	0.031	0.12	0.038	0.016	mg/Kg	J		1	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	ICV 240-177115/7 04/20/2015 10:44				CCV 240-177115/118 04/20/2015 18:03				CCV 240-177115/130 04/20/2015 18:48			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	206		200	103	247		250	99	249		250	100
Antimony	38.3		40.0	96	52.9		50.0	106	52.7		50.0	105
Arsenic	39.0		40.0	97	49.6		50.0	99	47.8		50.0	96
Barium	41.3		40.0	103	52.7		50.0	105	52.7		50.0	105
Beryllium	41.0		40.0	102	46.9		50.0	94	46.4		50.0	93
Cadmium	41.7		40.0	104	50.6		50.0	101	49.3		50.0	99
Calcium	20100		20000	100	25000		25000	100	24800		25000	99
Cobalt	40.9		40.0	102	47.7		50.0	95	46.6		50.0	93
Copper	42.0		40.0	105	47.2		50.0	94	46.4		50.0	93
Iron	10400		10000	104	12700		12500	101	12700		12500	102
Lead	40.3		40.0	101	48.3		50.0	97	48.4		50.0	97
Magnesium	20800		20000	104	25200		25000	101	25100		25000	100
Manganese	205		200	103	250		250	100	252		250	101
Potassium	20800		20000	104	25900		25000	104	26000		25000	104
Selenium	42.2		40.0	106	49.4		50.0	99	47.9		50.0	96
Silver	41.8		40.0	104	49.6		50.0	99	48.9		50.0	98
Sodium	20800		20000	104	24800		25000	99	25200		25000	101
Thallium	39.0		40.0	97	46.7		50.0	93	47.1		50.0	94
Vanadium	41.2		40.0	103	50.6		50.0	101	51.1		50.0	102
Zinc	42.4		40.0	106	49.0		50.0	98	47.3		50.0	95
Chromium	41.8		40.0	105	49.9		50.0	100	50.3		50.0	101
Nickel	42.3		40.0	106	47.7		50.0	95	46.5		50.0	93

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	ICV 240-177351/7 04/21/2015 18:08				CCV 240-177351/48 04/21/2015 20:45				CCV 240-177351/60 04/21/2015 21:30			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	201		200	100	244		250	98	238		250	95
Chromium	41.8		40.0	104	53.0		50.0	106	51.8		50.0	104
Iron	10500		10000	105	13400		12500	107	13000		12500	104
Manganese	213		200	106	273		250	109	251		250	100
Nickel	41.1		40.0	103	47.1		50.0	94	47.0		50.0	94
Antimony	37.3		40.0	93	54.1		50.0	108	53.7		50.0	107
Arsenic	38.8		40.0	97	46.6		50.0	93	46.7		50.0	93
Barium	40.4		40.0	101	51.6		50.0	103	51.4		50.0	103
Beryllium	40.2		40.0	100	46.8		50.0	94	46.7		50.0	93
Cadmium	41.1		40.0	103	50.4		50.0	101	49.7		50.0	99
Calcium	20300		20000	102	25300		25000	101	24700		25000	99
Cobalt	39.9		40.0	100	46.8		50.0	94	46.4		50.0	93
Copper	40.9		40.0	102	47.7		50.0	95	47.2		50.0	94
Lead	39.8		40.0	100	48.7		50.0	97	48.9		50.0	98
Magnesium	21200		20000	106	26400		25000	105	25500		25000	102
Potassium	21000		20000	105	25700		25000	103	25300		25000	101
Selenium	40.9		40.0	102	45.8		50.0	92	45.4		50.0	91
Silver	41.1		40.0	103	50.6		50.0	101	49.5		50.0	99
Sodium	20800		20000	104	26500		25000	106	25800		25000	103
Thallium	38.2		40.0	95	51.2		50.0	102	50.3		50.0	101
Vanadium	41.5		40.0	104	52.3		50.0	105	51.5		50.0	103
Zinc	40.8		40.0	102	47.2		50.0	94	46.5		50.0	93

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICV Source: MTMSICVW_00043 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00116

Analyte	CCV 240-177351/72 04/21/2015 22:15				CCV 240-177351/84 04/21/2015 23:00							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	240		250	96	246		250	98				
Chromium	52.0		50.0	104	53.0		50.0	106				
Iron	13100		12500	105	13400		12500	108				
Manganese	262		250	105	263		250	105				
Nickel	48.3		50.0	97	47.7		50.0	95				
Antimony	53.5		50.0	107	53.5		50.0	107				
Arsenic	47.8		50.0	96	46.7		50.0	93				
Barium	51.1		50.0	102	51.2		50.0	102				
Beryllium	49.3		50.0	99	49.2		50.0	98				
Cadmium	49.2		50.0	98	48.9		50.0	98				
Calcium	24600		25000	99	25300		25000	101				
Cobalt	48.0		50.0	96	47.5		50.0	95				
Copper	48.6		50.0	97	48.2		50.0	96				
Lead	48.7		50.0	97	48.7		50.0	97				
Magnesium	25600		25000	102	26400		25000	106				
Potassium	25500		25000	102	25800		25000	103				
Selenium	46.7		50.0	93								
Silver	49.7		50.0	99	49.5		50.0	99				
Sodium	25600		25000	102	26200		25000	105				
Thallium	51.3		50.0	103	51.1		50.0	102				
Vanadium	51.5		50.0	103	52.9		50.0	106				
Zinc	47.4		50.0	95	47.4		50.0	95				

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICV Source: MTHgStd_00016 Concentration Units: ug/L

CCV Source: MTHGCALW_00881

Analyte	ICV 240-176499/7-A 04/16/2015 08:27				CCV 240-176499/10-A 04/16/2015 09:06				CCV 240-176499/10-A 04/16/2015 09:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.77		5.00	95	4.96		5.00	99	5.12		5.00	102

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

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICV Source: MTHgStd_00016 Concentration Units: ug/L

CCV Source: MTHGCALW_00881

Analyte	CCV 240-176499/10-A 04/16/2015 09:55											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.18		5.00	104								

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-177115/10 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	50.6	J	101	70-130
Antimony	2.00	2.06		103	70-130
Arsenic	5.00	4.96	J	99	70-130
Barium	5.00	4.98	J	100	70-130
Beryllium	1.00	0.864	J	86	70-130
Cadmium	1.00	1.04	J	104	70-130
Calcium	1000	1020	J	102	70-130
Chromium	2.00	2.14		107	70-130
Cobalt	1.00	1.05		105	70-130
Copper	2.00	2.03	J	101	70-130
Iron	100	107	J	107	70-130
Lead	1.00	1.05		105	70-130
Magnesium	1000	1080		108	70-130
Manganese	5.00	5.31		106	70-130
Nickel	2.00	2.08	J	104	70-130
Potassium	1000	1050		105	70-130
Selenium	5.00	5.27		105	70-130
Silver	1.00	1.05		105	70-130
Sodium	1000	1080		108	70-130
Thallium	2.00	1.95	J	98	70-130
Vanadium	5.00	5.26		105	70-130
Zinc	20.0	20.2	J	101	70-130

Lab Sample ID: CRI 240-177115/142 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	50.8	J	102	70-130
Antimony	2.00	1.86	J	93	70-130
Arsenic	5.00	4.71	J	94	70-130
Barium	5.00	5.39		108	70-130
Beryllium	1.00	0.916	J	92	70-130
Cadmium	1.00	1.07	J	107	70-130
Calcium	1000	1020	J	102	70-130
Chromium	2.00	3.94		197	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-177115/142 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cobalt	1.00	0.938	J	94	70-130
Copper	2.00	1.68	J	84	70-130
Iron	100	117	J	117	70-130
Lead	1.00	1.06		106	70-130
Magnesium	1000	1040		104	70-130
Manganese	5.00	5.63		113	70-130
Nickel	2.00	2.69	J	134	70-130
Potassium	1000	1050		105	70-130
Selenium	5.00	4.87	J	97	70-130
Silver	1.00	0.990	J	99	70-130
Sodium	1000	1080		108	70-130
Thallium	2.00	1.90	J	95	70-130
Vanadium	5.00	5.41		108	70-130
Zinc	20.0	18.7	J	93	70-130

Lab Sample ID: CRI 240-177351/9 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	38.5	J	77	70-130
Antimony	2.00	2.32		116	70-130
Arsenic	5.00	5.02		100	70-130
Barium	5.00	4.96	J	99	70-130
Beryllium	1.00	0.967	J	97	70-130
Cadmium	1.00	0.990	J	99	70-130
Calcium	1000	1030	J	103	70-130
Chromium	2.00	2.12		106	70-130
Cobalt	1.00	0.981	J	98	70-130
Copper	2.00	2.01	J	100	70-130
Iron	100	107	J	107	70-130
Lead	1.00	1.04		104	70-130
Magnesium	1000	1090		109	70-130
Manganese	5.00	5.26		105	70-130
Nickel	2.00	2.01	J	100	70-130
Potassium	1000	1040		104	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Method: 6020 Instrument ID: I10

Lab Sample ID: CRI 240-177351/9 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00019

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Selenium	5.00	5.16		103	70-130
Silver	1.00	1.04		104	70-130
Sodium	1000	1070		107	70-130
Thallium	2.00	1.89	J	95	70-130
Vanadium	5.00	5.16		103	70-130
Zinc	20.0	20.2	J	101	70-130

Lab Sample ID: CRI 240-177351/91 Concentration Units: ug/L

CRQL Check Standard Source: MTMSCRI6020AW_00021

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	50.0	38.6	J	77	70-130
Antimony	2.00	2.01		100	70-130
Arsenic	5.00	4.85	J	97	70-130
Barium	5.00	5.11		102	70-130
Beryllium	1.00	1.02		102	70-130
Cadmium	1.00	1.02	J	102	70-130
Calcium	1000	1030	J	103	70-130
Chromium	2.00	2.20		110	70-130
Cobalt	1.00	0.987	J	99	70-130
Copper	2.00	1.84	J	92	70-130
Iron	100	112	J	112	70-130
Lead	1.00	1.04		104	70-130
Magnesium	1000	1090		109	70-130
Manganese	5.00	5.25		105	70-130
Nickel	2.00	2.06	J	103	70-130
Potassium	1000	1050		105	70-130
Selenium	5.00	4.83	J	97	70-130
Silver	1.00	1.06		106	70-130
Sodium	1000	1110		111	70-130
Thallium	2.00	1.88	J	94	70-130
Vanadium	5.00	5.24		105	70-130
Zinc	20.0	19.7	J	99	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Method: 7471A Instrument ID: H4

Lab Sample ID: CRA 240-176499/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00881

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.198	J	99	

Lab Sample ID: CRA 240-176499/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00881

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.205		103	

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: ug/L

Analyte	RL	ICB 240-177115/8 04/20/2015 10:48		CCB 240-177115/119 04/20/2015 18:07		CCB 240-177115/131 04/20/2015 18:52			
		Found	C	Found	C	Found	C	Found	C
Aluminum	60	60	U	60	U	9.84	J		
Antimony	2.0	1.14	J	0.166	J	0.50	U		
Arsenic	5.0	1.0	U	1.0	U	1.0	U		
Barium	5.0	4.0	U	4.0	U	4.0	U		
Beryllium	1.0	0.50	U	0.100	J	0.0720	J		
Cadmium	2.0	0.40	U	0.103	J	0.40	U		
Calcium	2000	1000	U	1000	U	1000	U		
Cobalt	1.0	0.20	U	0.20	U	0.20	U		
Copper	4.0	4.0	U	4.0	U	4.0	U		
Iron	150	100	U	100	U	18.1	J		
Lead	1.0	0.50	U	0.50	U	0.50	U		
Magnesium	1000	300	U	300	U	300	U		
Manganese	5.0	3.0	U	3.0	U	3.0	U		
Potassium	1000	50	U	50	U	50	U		
Selenium	5.0	0.50	U	0.321	J	0.50	U		
Silver	1.0	0.25	U	0.25	U	0.25	U		
Sodium	1000	400	U	400	U	400	U		
Thallium	2.0	1.0	U	1.0	U	1.0	U		
Vanadium	5.0	1.5	U	1.5	U	1.5	U		
Zinc	40	20	U	20	U	20	U		
Chromium	2.0	1.5	U	1.5	U	1.5	U		
Nickel	5.0	1.5	U	1.5	U	1.5	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: ug/L

Analyte	RL	ICB 240-177351/8 04/21/2015 18:12		CCB 240-177351/49 04/21/2015 20:48		CCB 240-177351/61 04/21/2015 21:34		CCB 240-177351/73 04/21/2015 22:19	
		Found	C	Found	C	Found	C	Found	C
Aluminum	60	60	U	60	U	60	U	60	U
Chromium	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Iron	150	100	U	100	U	100	U	100	U
Manganese	5.0	3.0	U	3.0	U	3.0	U	3.0	U
Nickel	5.0	1.5	U	1.5	U	1.5	U	1.5	U
Antimony	2.0	1.38	J	0.302	J	0.274	J	0.254	J
Arsenic	5.0	1.0	U	0.216	J	0.188	J	1.0	U
Barium	5.0	4.0	U	4.0	U	4.0	U	4.0	U
Beryllium	1.0	0.50	U	0.0550	J	0.0630	J	0.50	U
Cadmium	2.0	0.40	U	0.40	U	0.40	U	0.40	U
Calcium	2000	1000	U	1000	U	1000	U	1000	U
Cobalt	1.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Magnesium	1000	300	U	300	U	300	U	300	U
Potassium	1000	50	U	50	U	50	U	50	U
Selenium	5.0	0.50	U	0.50	U	0.50	U	0.50	U
Silver	1.0	0.25	U	0.25	U	0.25	U	0.25	U
Sodium	1000	400	U	71.0	J	400	U	400	U
Thallium	2.0	1.0	U	1.0	U	1.0	U	1.0	U
Vanadium	5.0	1.5	U	1.5	U	1.5	U	1.5	U
Zinc	40	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: ug/L

Analyte	RL	CCB 240-177351/85 04/21/2015 23:04							
		Found	C	Found	C	Found	C	Found	C
Aluminum	60	60	U						
Chromium	2.0	1.5	U						
Iron	150	20.1	J						
Manganese	5.0	3.0	U						
Nickel	5.0	1.5	U						
Antimony	2.0	0.223	J						
Arsenic	5.0	1.0	U						
Barium	5.0	4.0	U						
Beryllium	1.0	0.50	U						
Cadmium	2.0	0.40	U						
Calcium	2000	1000	U						
Cobalt	1.0	0.20	U						
Copper	4.0	4.0	U						
Lead	1.0	0.50	U						
Magnesium	1000	300	U						
Potassium	1000	50	U						
Selenium	5.0	0.50	U						
Silver	1.0	0.25	U						
Sodium	1000	400	U						
Thallium	2.0	1.0	U						
Vanadium	5.0	1.5	U						
Zinc	40	20	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: ug/L

Analyte	RL	ICB 240-176499/8-A 04/16/2015 08:29		CCB 240-176499/11-A 04/16/2015 09:08		CCB 240-176499/11-A 04/16/2015 09:33		CCB 240-176499/11-A 04/16/2015 09:57	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: mg/Kg Lab Sample ID: MB 240-176562/1-A ^2

Instrument Code: I10 Batch No.: 177115

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	1.27	J	D	6020_DoD
7440-36-0	Antimony	0.0204	J	D	6020_DoD
7440-38-2	Arsenic	0.0692	J	D	6020_DoD
7440-39-3	Barium	0.229	J	D	6020_DoD
7440-41-7	Beryllium	0.0212	J	D	6020_DoD
7440-43-9	Cadmium	0.0232	J	D	6020_DoD
7440-70-2	Calcium	100	U		6020_DoD
7440-48-4	Cobalt	0.00940	J	D	6020_DoD
7440-50-8	Copper	0.30	U		6020_DoD
7439-89-6	Iron	30	U		6020_DoD
7439-92-1	Lead	0.0474	J	D	6020_DoD
7439-95-4	Magnesium	6.19	J	D	6020_DoD
7439-96-5	Manganese	0.40	U		6020_DoD
7440-09-7	Potassium	8.46	J	D	6020_DoD
7782-49-2	Selenium	0.0650	J	D	6020_DoD
7440-22-4	Silver	0.050	U		6020_DoD
7440-23-5	Sodium	11.5	J	D	6020_DoD
7440-28-0	Thallium	0.15	U		6020_DoD
7440-62-2	Vanadium	0.0582	J	D	6020_DoD
7440-66-6	Zinc	2.0	U		6020_DoD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: mg/Kg Lab Sample ID: MB 240-176562/1-A ^2

Instrument Code: I10 Batch No.: 177351

CAS No.	Analyte	Concentration	C	Q	Method
7440-47-3	Chromium	0.176	J	D	6020_DoD
7440-02-0	Nickel	0.0396	J	D	6020_DoD

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Concentration Units: mg/Kg Lab Sample ID: MB 240-176570/1-A

Instrument Code: H4 Batch No.: 176708

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.033	U		7471_DOD

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICSA 240-177115/11 Instrument ID: I10

Lab File ID: 011ICSA.d ICS Source: MTMSICSAW_00044

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**50000**	**47667**	**95**
Antimony		**0.218**	
Arsenic		**0.0610**	
Barium		**0.0600**	
Beryllium		**0.0120**	
Cadmium		**0.119**	
Calcium	**50000**	**49075**	**98**
Cobalt		**0.0260**	
Copper		**0.336**	
Iron	**50000**	**49433**	**99**
Lead		**0.100**	
Magnesium	**50000**	**49308**	**99**
Manganese		**0.357**	
Potassium	**50000**	**49452**	**99**
Selenium		**0.0850**	
Silver		**0.0080**	
Sodium	**50000**	**48900**	**98**
Thallium		**0.0030**	
Vanadium		**0.0290**	
Zinc		**1.02**	
Boron		*0.906*	
Chromium		*0.665*	
Molybdenum	*1000*	*1075*	*107*
Nickel		*0.115*	
Strontium		*0.336*	
Ti	*1000*	*989*	*99*
Tin		*0.320*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICSAB 240-177115/12 Instrument ID: I10

Lab File ID: 012ICAB.d ICS Source: MTMSICSABW_00043

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**50000**	**47834**	**96**
Antimony	**100**	**106**	**106**
Arsenic	**100**	**105**	**105**
Barium	**100**	**104**	**104**
Beryllium	**100**	**111**	**111**
Cadmium	**100**	**106**	**106**
Calcium	**50000**	**50013**	**100**
Cobalt	**100**	**104**	**104**
Copper	**100**	**104**	**104**
Iron	**50000**	**49899**	**100**
Lead	**100**	**103**	**103**
Magnesium	**50000**	**49743**	**99**
Manganese	**100**	**100**	**100**
Potassium	**50000**	**49468**	**99**
Selenium	**100**	**106**	**106**
Silver	**100**	**103**	**103**
Sodium	**50000**	**49722**	**99**
Thallium	**100**	**102**	**102**
Vanadium	**100**	**101**	**101**
Zinc	**100**	**106**	**106**
Boron	*100*	*116*	*116*
Chromium	*100*	*101*	*101*
Molybdenum	*1100*	*1188*	*108*
Nickel	*100*	*105*	*105*
Strontium	*100*	*105*	*105*
Ti	*1100*	*1097*	*100*
Tin	*100*	*100*	*100*
Tungsten	*100*	*99.0*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICSA 240-177351/10 Instrument ID: I10

Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00044

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**50000**	**48700**	**97**
Chromium		**0.651**	
Iron	**50000**	**49594**	**99**
Manganese		**0.342**	
Nickel		**0.0910**	
Antimony		*0.316*	
Arsenic		*0.0930*	
Barium		*0.0450*	
Beryllium		*0.0110*	
Boron		*1.54*	
Cadmium		*0.0450*	
Calcium	*50000*	*49501*	*99*
Cobalt		*0.0290*	
Copper		*0.194*	
Lead		*0.0990*	
Magnesium	*50000*	*49208*	*98*
Molybdenum	*1000*	*1051*	*105*
Potassium	*50000*	*48809*	*98*
Selenium		*0.146*	
Silver		*0.0150*	
Sodium	*50000*	*48418*	*97*
Strontium		*0.336*	
Thallium		*0.0060*	
Ti	*1000*	*994*	*99*
Tin		*0.373*	
Vanadium		*-0.0450*	
Zinc		*0.581*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Lab Sample ID: ICSAB 240-177351/11 Instrument ID: I10

Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00043

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**50000**	**49729**	**99**
Chromium	**100**	**104**	**104**
Iron	**50000**	**51803**	**104**
Manganese	**100**	**101**	**101**
Nickel	**100**	**99.2**	**99**
Antimony	*100*	*107*	*107*
Arsenic	*100*	*99.1*	*99*
Barium	*100*	*103*	*103*
Beryllium	*100*	*107*	*107*
Boron	*100*	*110*	*110*
Cadmium	*100*	*101*	*101*
Calcium	*50000*	*50086*	*100*
Cobalt	*100*	*99.1*	*99*
Copper	*100*	*98.7*	*99*
Lead	*100*	*103*	*103*
Magnesium	*50000*	*51098*	*102*
Molybdenum	*1100*	*1171*	*106*
Potassium	*50000*	*49761*	*100*
Selenium	*100*	*99.7*	*100*
Silver	*100*	*100*	*100*
Sodium	*50000*	*49793*	*100*
Strontium	*100*	*99.4*	*99*
Thallium	*100*	*101*	*101*
Ti	*1100*	*1124*	*102*
Tin	*100*	*101*	*101*
Tungsten	*100*	*106*	*106*
Vanadium	*100*	*102*	*102*
Zinc	*100*	*98.9*	*99*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SS-0342M-0001,0002-SO MS Lab ID: 240-49071-2 MS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Concentration Units: mg/Kg

% Solids: 97.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	13000		10000		966	280	70-130	D 4	6020
Antimony	2.68		0.14	J	9.66	26	75-125	J D	6020
Arsenic	17.5		8.1		9.66	97	23-131	D	6020
Barium	63.0		51		9.66	127	10-199	4 D	6020
Beryllium	9.67		0.40		9.66	96	58-112	D	6020
Cadmium	9.29		0.18	J	9.66	94	58-110	D	6020
Calcium	1920		2100		966	-15	70-130	J D	6020
Chromium	24.8		14		9.66	109	10-199	D	6020
Cobalt	14.9		5.7		9.66	95	55-110	D	6020
Copper	18.7		9.4		9.66	96	10-199	D	6020
Iron	22100		19000		966	278	70-130	D 4	6020
Lead	25.9		15		9.66	111	10-199	D	6020
Magnesium	2420		1400		966	106	70-130	D	6020
Manganese	435		410		9.66	304	10-199	D 4	6020
Nickel	40.5		36		9.66	46	10-176	D	6020
Potassium	1380		470		966	94	70-130	D	6020
Selenium	8.86		0.84	J	9.66	83	39-116	D	6020
Silver	9.18		0.043	J	9.66	95	75-125	D	6020
Sodium	938		28	J	966	94	70-130	D	6020
Thallium	8.40		0.16	J	9.66	85	82-110	D	6020
Vanadium	30.9		20		9.66	116	39-129	D	6020
Zinc	69.0		55		9.66	143	10-199	4 D	6020
Mercury	0.235		0.039	J	0.186	105	80-120		7471A

SSR = Spiked Sample Result

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

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 079SS-0342M-0001,0002-SO PDS Lab ID: 240-49071-2 PDS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	57400		10000		48300	98	80-120	D	6020
Antimony	21.8		0.14	J	19.3	112	80-120	D	6020
Arsenic	201		8.1		193	100	80-120	D	6020
Barium	288		51		193	123	80-120	D J	6020
Beryllium	211		0.40		193	109	80-120	D	6020
Cadmium	212		0.18	J	193	110	80-120	D	6020
Calcium	3810		2100		1930	90	80-120	D	6020
Chromium	231		14		193	112	80-120	D	6020
Cobalt	203		5.7		193	102	80-120	D	6020
Copper	205		9.4		193	101	80-120	D	6020
Iron	68800		19000		48300	102	80-120	D	6020
Lead	214		15		193	103	80-120	D	6020
Magnesium	3290		1400		1930	98	80-120	D	6020
Manganese	5280		410		4830	101	80-120	D	6020
Nickel	250		36		193	111	80-120	D	6020
Potassium	2470		470		1930	104	80-120	D	6020
Selenium	192		0.84	J	193	99	80-120	D	6020
Silver	20.6		0.043	J	19.3	106	80-120	D	6020
Sodium	2010		28	J	1930	103	80-120	D	6020
Thallium	48.9		0.16	J	48.3	101	80-120	D	6020
Vanadium	222		20		193	105	80-120	D	6020
Zinc	255		55		193	103	80-120	D	6020

SSR = Spiked Sample Result

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

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 079SS-0342M-0001,0002-SO DU Lab ID: 240-49071-2 DU

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

% Solids for Sample: 97.7 % Solids for Duplicate: 97.5

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum	480	10000		10100		2	D	6020
Antimony	0.39	0.14	J	0.171	J	22	D	6020
Arsenic	0.97	8.1		8.43		3	D	6020
Barium	0.97	51		48.6		4	D	6020
Beryllium	0.19	0.40		0.418		4	D	6020
Cadmium	0.39	0.18	J	0.198	J	8	D	6020
Calcium	390	2100		960		73	J D	6020
Chromium	0.97	14		15.5		8	D	6020
Cobalt	0.19	5.7		5.38		6	D	6020
Copper	0.77	9.4		9.46		0.2	D	6020
Iron	2400	19000		19600		1	D	6020
Lead	0.58	15		15.8		4	D	6020
Magnesium	190	1400		1400		0.4	D	6020
Manganese	0.97	380		336		13	D	6020
Nickel	0.97	36		27.8		26	D J	6020
Potassium	190	470		484		3	D	6020
Selenium	0.97	0.84	J	0.886	J	5	D	6020
Silver	0.19	0.043	J	0.0435	J	1	D	6020
Sodium	190	28	J	26.3	J	6	D	6020
Thallium	0.39	0.16	J	0.184	J	16	D	6020
Vanadium	0.97	20		20.4		4	D	6020
Zinc	7.7	55		54.7		1	D	6020
Mercury	0.11	0.039	J	0.0400	J	2		7471A

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-176562/2-A ^2

Lab Name: TestAmerica Canton Job No.: 240-49071-1

Sample Matrix: Solid LCS Source: MTICPMS2_00020

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	1000	998		100	80	120	D	6020
Antimony	10.0	10.4		104	68	113	D	6020
Arsenic	100	90.5		90	73	110	D	6020
Barium	100	105		105	70	110	D	6020
Beryllium	100	103		103	79	110	D	6020
Cadmium	100	95.4		95	74	110	D	6020
Calcium	1000	964		96	80	120	D	6020
Cobalt	100	94.4		94	74	110	D	6020
Copper	100	96.0		96	73	110	D	6020
Iron	1000	1050		105	80	120	D	6020
Lead	100	96.8		97	75	110	D	6020
Magnesium	1000	1030		103	80	120	D	6020
Manganese	100	104		104	80	120	D	6020
Potassium	1000	1070		107	80	120	D	6020
Selenium	100	89.0		89	65	110	D	6020
Silver	10.0	9.96		100	60	114	D	6020
Sodium	1000	1040		104	80	120	D	6020
Thallium	25.0	23.8		95	71	110	D	6020
Vanadium	100	106		106	72	110	D	6020
Zinc	100	90.2		90	72	113	D	6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-176562/2-A ^2

Lab Name: TestAmerica Canton Job No.: 240-49071-1

Sample Matrix: Solid LCS Source: MTICPMSA_00022

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Chromium	100	103		103	70	110	D	6020
Nickel	100	95.3		95	75	110	D	6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-176570/2-A

Lab Name: TestAmerica Canton Job No.: 240-49071-1

Sample Matrix: Solid LCS Source: MTHGCALW_00881

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.836		100	80	120		7471A

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

FORM VIIA - IN

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

Lab ID: 240-49071-2

SDG No: CC 79 Area 8

Lab Name: TestAmerica Canton Job No: 240-49071-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	10000		9580		NC	D	6020
Antimony	0.14	J	0.72	U	NC		6020
Arsenic	8.1		8.06		NC	D	6020
Barium	51		50.4		0.66	D	6020
Beryllium	0.40		0.460	J	NC	D	6020
Cadmium	0.18	J	0.174	J	NC	D	6020
Calcium	2100		2110		NC	D	6020
Chromium	14		14.7		NC	D	6020
Cobalt	5.7		5.68		NC	D	6020
Copper	9.4		9.23		NC	D	6020
Iron	19000		18500		NC	D	6020
Lead	15		15.5		NC	D	6020
Magnesium	1400		1450		NC	D	6020
Manganese	380		406		5.7	D	6020
Nickel	36		36.6		NC	D	6020
Potassium	470		462	J	NC	D	6020
Selenium	0.84	J	1.02	J	NC	D	6020
Silver	0.043	J	0.0406	J	NC	D	6020
Sodium	28	J	190	U	NC		6020
Thallium	0.16	J	0.166	J	NC	D	6020
Vanadium	20		19.7		NC	D	6020
Zinc	55		55.9		NC	D	6020

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: I10

Method: 6020 DL Date: 09/15/2014 17:22

Prep Method: 3050B

ISM Prep Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Aluminum	27.00	20	0.62
Antimony	121.00	0.4	0.014
Arsenic	75.00	1	0.026
Barium	137.00	1	0.22
Beryllium	9.00	0.2	0.011
Cadmium	111.00	0.4	0.0037
Calcium	43.00	400	22
Chromium	52.00	1	0.06
Cobalt	59.00	0.2	0.0017
Copper	65.00	0.8	0.097
Iron	56.00	100	3.2
Lead	208.00	0.6	0.045
Magnesium	25.00	200	4
Manganese	55.00	1	0.12
Nickel	60.00	1	0.039
Potassium	39.00	200	4.9
Selenium	78.00	1	0.04
Silver	107.00	0.2	0.0014
Sodium	23.00	200	8.7
Thallium	205.00	0.4	0.019
Vanadium	51.00	1	0.037
Zinc	66.00	8	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: I10

Method: 6020 XMDL Date: 09/15/2014 17:24

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum	27.00	60	9
Antimony	121.00	2	0.16
Arsenic	75.00	5	0.18
Barium	137.00	5	1.1
Beryllium	9.00	1	0.053
Cadmium	111.00	2	0.061
Calcium	43.00	2000	240
Chromium	52.00	2	0.2
Cobalt	59.00	1	0.021
Copper	65.00	4	0.75
Iron	56.00	150	16
Lead	208.00	1	0.11
Magnesium	25.00	1000	48
Manganese	55.00	5	1.1
Nickel	60.00	5	0.23
Potassium	39.00	1000	30
Selenium	78.00	5	0.25
Silver	107.00	1	0.02
Sodium	23.00	1000	68
Thallium	205.00	2	0.074
Vanadium	51.00	5	0.23
Zinc	66.00	40	7.3

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: H4

Method: 7471A DL Date: 02/16/2010 09:46

Prep Method: 7471A

ISM Prep Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Mercury	253.7	0.1	0.014

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: H4

Method: 7471A XMDL Date: 09/17/2014 14:14

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Date: 10/20/2014 13:19

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Aluminum		200000	6020
Antimony		300	6020
Arsenic		10000	6020
Barium		10000	6020
Beryllium		10000	6020
Cadmium		4000	6020
Calcium		500000	6020
Chromium		10000	6020
Cobalt		10000	6020
Copper		10000	6020
Iron		200000	6020
Lead		4000	6020
Magnesium		500000	6020
Manganese		10000	6020
Nickel		10000	6020
Potassium		500000	6020
Selenium		10000	6020
Silver		300	6020
Sodium		500000	6020
Thallium		5000	6020
Vanadium		10000	6020
Zinc		10000	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: H4 Date: 12/10/2013 15:55

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-176562/1-A ^2	04/15/2015 11:42	176562	1.00		100
LCS 240-176562/2-A ^2	04/15/2015 11:42	176562	1.00		100
240-49071-2	04/15/2015 11:42	176562	1.06		100
240-49071-2 DU	04/15/2015 11:42	176562	1.06		100
240-49071-2 MS	04/15/2015 11:42	176562	1.06		100
240-49071-3	04/15/2015 11:42	176562	1.15		100
240-49071-4	04/15/2015 11:42	176562	1.21		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 240-176570/1-A	04/15/2015 15:00	176570	0.60		100
LCS 240-176570/2-A	04/15/2015 15:00	176570	0.60		100
240-49071-2	04/15/2015 15:00	176570	0.55		100
240-49071-2 DU	04/15/2015 15:00	176570	0.55		100
240-49071-2 MS	04/15/2015 15:00	176570	0.55		100
240-49071-3	04/15/2015 15:00	176570	0.52		100
240-49071-4	04/15/2015 15:00	176570	0.53		100

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																									
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cu	Fe	K	Mg	Mn	Na	Pb	Sb	Se	Tl	V	Zn						
ZZZZZZ			10:21																										
ICIS 240-177115/2			10:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
STD1 240-177115/3 IC	1		10:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
STD2 240-177115/4 IC	1		10:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
STD3 240-177115/5 IC	1		10:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
STD4 240-177115/6 IC	1		10:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
ICV 240-177115/7	1		10:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
ICB 240-177115/8	1		10:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
ZZZZZZ			10:51																										
CRI 240-177115/10	1		10:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
ICSA 240-177115/11	1		10:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
ICSAB 240-177115/12	1		11:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
CCV 240-177115/13			11:08																										
CCB 240-177115/14			11:12																										
ZZZZZZ			11:16																										
ZZZZZZ			11:19																										
CCV 240-177115/17			11:23																										
CCB 240-177115/18			11:27																										
ZZZZZZ			11:31																										
ZZZZZZ			11:35																										
ZZZZZZ			11:39																										
ZZZZZZ			11:42																										
ZZZZZZ			11:46																										
CCV 240-177115/24			11:50																										
CCB 240-177115/25			11:54																										
ZZZZZZ			12:15																										
ZZZZZZ			12:19																										
CCV 240-177115/28			12:23																										
CCB 240-177115/29			12:27																										
ZZZZZZ			12:31																										
ZZZZZZ			12:35																										
ZZZZZZ			12:39																										
ZZZZZZ			12:42																										
ZZZZZZ			12:46																										
ZZZZZZ			12:50																										
ZZZZZZ			12:54																										
ZZZZZZ			12:57																										
ZZZZZZ			13:01																										
CCV 240-177115/39			13:05																										
CCB 240-177115/40			13:09																										
CRI 240-177115/41			13:13																										
ZZZZZZ			13:16																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																											
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cu	Fe	K	Mg	Mn	Na	Pb	Sb	Se	Tl	V	Zn								
ZZZZZZ			13:20																												
ZZZZZZ			13:24																												
ZZZZZZ			13:28																												
ZZZZZZ			13:31																												
ZZZZZZ			13:35																												
ZZZZZZ			13:39																												
ZZZZZZ			13:43																												
ZZZZZZ			13:46																												
CCV 240-177115/51			13:50																												
CCB 240-177115/52			13:54																												
ZZZZZZ			13:58																												
ZZZZZZ			14:01																												
ZZZZZZ			14:05																												
ZZZZZZ			14:09																												
ZZZZZZ			14:12																												
ZZZZZZ			14:16																												
ZZZZZZ			14:20																												
ZZZZZZ			14:24																												
ZZZZZZ			14:27																												
ZZZZZZ			14:31																												
CCV 240-177115/63			14:35																												
CCB 240-177115/64			14:39																												
ZZZZZZ			14:43																												
ZZZZZZ			14:46																												
ZZZZZZ			14:50																												
CCV 240-177115/68			14:54																												
CCB 240-177115/69			14:58																												
CRI 240-177115/70			15:02																												
ZZZZZZ			15:06																												
ZZZZZZ			15:09																												
ZZZZZZ			15:13																												
ZZZZZZ			15:17																												
ZZZZZZ			15:21																												
ZZZZZZ			15:25																												
ZZZZZZ			15:29																												
ZZZZZZ			15:33																												
ZZZZZZ			15:36																												
CCV 240-177115/80			15:40																												
CCB 240-177115/81			15:44																												
ZZZZZZ			15:48																												
ZZZZZZ			15:51																												
ZZZZZZ			15:55																												

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																									
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cu	Fe	K	Mg	Mn	Na	Pb	Sb	Se	Tl	V	Zn						
ZZZZZZ			15:59																										
ZZZZZZ			16:03																										
ZZZZZZ			16:06																										
ZZZZZZ			16:10																										
ZZZZZZ			16:14																										
ZZZZZZ			16:18																										
ZZZZZZ			16:21																										
CCV 240-177115/92			16:25																										
CCB 240-177115/93			16:29																										
ZZZZZZ			16:33																										
ZZZZZZ			16:36																										
ZZZZZZ			16:40																										
ZZZZZZ			16:44																										
ZZZZZZ			16:48																										
ZZZZZZ			16:52																										
ZZZZZZ			16:55																										
ZZZZZZ			16:59																										
ZZZZZZ			17:02																										
ZZZZZZ			17:06																										
CCV 240-177115/104			17:10																										
CCB 240-177115/105			17:14																										
ZZZZZZ			17:18																										
ZZZZZZ			17:21																										
ZZZZZZ			17:25																										
ZZZZZZ			17:29																										
ZZZZZZ			17:32																										
ZZZZZZ			17:36																										
ZZZZZZ			17:40																										
ZZZZZZ			17:44																										
ZZZZZZ			17:47																										
ZZZZZZ			17:51																										
CCV 240-177115/116			17:55																										
CCB 240-177115/117			17:59																										
CCV 240-177115/118	1		18:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
CCB 240-177115/119	1		18:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
CRI 240-177115/120			18:11																										
MB 240-176562/1-A ^2	2	T	18:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
LCS 240-176562/2-A ^2	2	T	18:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						
240-49071-2	2	T	18:22	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X						
240-49071-2 SD	10	T	18:26	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X						
240-49071-2 PDS	2	T	18:30	X		X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X						
240-49071-2 DU	2	T	18:33	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X						

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																											
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cu	Fe	K	Mg	Mn	Na	Pb	Sb	Se	Tl	V	Zn								
240-49071-2 MS	2	T	18:37	X		X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X								
240-49071-3	2	T	18:41	X		X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X								
240-49071-4	2	T	18:45	X		X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X								
CCV 240-177115/130	1		18:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 240-177115/131	1		18:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			18:56																												
ZZZZZZ			19:00																												
ZZZZZZ			19:04																												
ZZZZZZ			19:08																												
ZZZZZZ			19:11																												
ZZZZZZ			19:15																												
ZZZZZZ			19:19																												
ZZZZZZ			19:23																												
CCV 240-177115/140			19:27																												
CCB 240-177115/141			19:30																												
CRI 240-177115/142	1		19:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			19:38																												
ZZZZZZ			19:42																												
ZZZZZZ			19:46																												
ZZZZZZ			19:50																												
ZZZZZZ			19:53																												
ZZZZZZ			19:57																												
ZZZZZZ			20:01																												
ZZZZZZ			20:05																												
ZZZZZZ			20:08																												
CCV 240-177115/152			20:12																												
CCB 240-177115/153			20:16																												
ZZZZZZ			20:20																												
ZZZZZZ			20:24																												
ZZZZZZ			20:27																												
ZZZZZZ			20:31																												
ZZZZZZ			20:35																												
ZZZZZZ			20:39																												
ZZZZZZ			20:43																												
ZZZZZZ			20:47																												
ZZZZZZ			20:50																												
ZZZZZZ			20:54																												
CCV 240-177115/164			20:58																												
CCB 240-177115/165			21:02																												
ZZZZZZ			21:06																												
ZZZZZZ			21:10																												
ZZZZZZ			21:13																												

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/20/2015 10:21 End Date: 04/20/2015 21:48

Lab Sample Id	D/F	Type	Time	Analytes																											
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cu	Fe	K	Mg	Mn	Na	Pb	Sb	Se	Tl	V	Zn								
ZZZZZZ			21:17																												
ZZZZZZ			21:21																												
ZZZZZZ			21:25																												
ZZZZZZ			21:29																												
CCV 240-177115/173			21:32																												
CCB 240-177115/174			21:36																												
CRI 240-177115/175			21:40																												
CCV 240-177115/176			21:44																												
CCB 240-177115/177			21:48																												

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/21/2015 17:45 End Date: 04/21/2015 23:53

Lab Sample Id	D/F	Type	Time	Analytes																									
				Al	Cr	Fe	Mn	Ni																					
ZZZZZZ			17:45																										
ICIS 240-177351/2			17:49	X	X	X	X	X																					
STD1 240-177351/3 IC	1		17:53	X	X	X	X	X																					
STD2 240-177351/4 IC	1		17:57	X	X	X	X	X																					
STD3 240-177351/5 IC	1		18:00	X	X	X	X	X																					
STD4 240-177351/6 IC	1		18:04	X	X	X	X	X																					
ICV 240-177351/7	1		18:08	X	X	X	X	X																					
ICB 240-177351/8	1		18:12	X	X	X	X	X																					
CRI 240-177351/9	1		18:16	X	X	X	X	X																					
ICSA 240-177351/10	1		18:20	X	X	X	X	X																					
ICSAB 240-177351/11	1		18:23	X	X	X	X	X																					
CCV 240-177351/12			18:27																										
CCB 240-177351/13			18:31																										
ZZZZZZ			18:38																										
ZZZZZZ			18:42																										
ZZZZZZ			18:46																										
ZZZZZZ			18:49																										
ZZZZZZ			18:53																										
ZZZZZZ			18:56																										
ZZZZZZ			19:00																										
ZZZZZZ			19:04																										
ZZZZZZ			19:07																										
ZZZZZZ			19:11																										
CCV 240-177351/24			19:15																										
CCB 240-177351/25			19:18																										
ZZZZZZ			19:22																										
RINSE 240-177351/27			19:26																										
ZZZZZZ			19:30																										
ZZZZZZ			19:33																										
ZZZZZZ			19:37																										
ZZZZZZ			19:41																										
ZZZZZZ			19:44																										
ZZZZZZ			19:48																										
ZZZZZZ			19:52																										
ZZZZZZ			19:55																										
CCV 240-177351/36			19:59																										
CCB 240-177351/37			20:03																										
ZZZZZZ			20:07																										
ZZZZZZ			20:11																										
ZZZZZZ			20:14																										
ZZZZZZ			20:18																										
ZZZZZZ			20:22																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/21/2015 17:45 End Date: 04/21/2015 23:53

Lab Sample Id	D/F	Type	Time	Analytes																									
				Al	Cr	Fe	Mn	Ni																					
ZZZZZZ			20:26																										
ZZZZZZ			20:30																										
ZZZZZZ			20:33																										
ZZZZZZ			20:37																										
ZZZZZZ			20:41																										
CCV 240-177351/48	1		20:45	X	X	X	X	X																					
CCB 240-177351/49	1		20:48	X	X	X	X	X																					
CRI 240-177351/50			20:52																										
ZZZZZZ			20:56																										
240-49071-2	50	T	20:59	X		X																							
240-49071-2 SD	250	T	21:03	X		X																							
240-49071-2 PDS	50	T	21:07	X		X	X																						
240-49071-2 DU	50	T	21:11	X		X																							
240-49071-2 MS	50	T	21:15	X		X	X																						
240-49071-3	50	T	21:18	X		X	X																						
240-49071-4	50	T	21:22	X		X	X																						
ZZZZZZ			21:26																										
CCV 240-177351/60	1		21:30	X	X	X	X	X																					
CCB 240-177351/61	1		21:34	X	X	X	X	X																					
ZZZZZZ			21:37																										
ZZZZZZ			21:41																										
ZZZZZZ			21:45																										
ZZZZZZ			21:49																										
ZZZZZZ			21:53																										
ZZZZZZ			21:57																										
MB 240-176562/1-A ^2	2	T	22:00		X			X																					
LCS 240-176562/2-A ^2	2	T	22:04		X			X																					
240-49071-2	2	T	22:08		X			X																					
240-49071-2 SD	10	T	22:12		X			X																					
CCV 240-177351/72	1		22:15	X	X	X	X	X																					
CCB 240-177351/73	1		22:19	X	X	X	X	X																					
240-49071-2 PDS	2	T	22:23		X			X																					
240-49071-2 DU	2	T	22:27		X			X																					
240-49071-2 MS	2	T	22:30		X			X																					
240-49071-3	2	T	22:34		X			X																					
240-49071-4	2	T	22:38		X			X																					
ZZZZZZ			22:41																										
ZZZZZZ			22:45																										
ZZZZZZ			22:49																										
ZZZZZZ			22:53																										
ZZZZZZ			22:56																										
CCV 240-177351/84	1		23:00	X	X	X	X	X																					

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: I10 Analysis Method: 6020

Start Date: 04/21/2015 17:45 End Date: 04/21/2015 23:53

Lab Sample Id	D/F	Type	Time	Analytes																									
				Al	Cr	Fe	Mn	Ni																					
CCB 240-177351/85	1		23:04	X	X	X	X	X																					
ZZZZZZ			23:08																										
ZZZZZZ			23:12																										
ZZZZZZ			23:15																										
CCV 240-177351/89			23:19																										
CCB 240-177351/90			23:23																										
CRI 240-177351/91	1		23:27	X	X	X	X	X																					
ZZZZZZ			23:31																										
ZZZZZZ			23:34																										
ZZZZZZ			23:38																										
ZZZZZZ			23:42																										
ZZZZZZ			23:46																										
CCV 240-177351/97			23:49																										
CCB 240-177351/98			23:53																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: H4 Analysis Method: 7471A

Start Date: 04/16/2015 08:15 End Date: 04/16/2015 10:17

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
IC 240-176499/1-A			08:15	X
IC 240-176499/2-A			08:16	X
IC 240-176499/3-A			08:19	X
IC 240-176499/4-A			08:21	X
IC 240-176499/5-A			08:23	X
IC 240-176499/6-A			08:25	X
ICV 240-176499/7-A	1		08:27	X
ICB 240-176499/8-A	1		08:29	X
CRA 240-176499/9-A	1		08:31	X
CCV 240-176499/10-A	1		09:06	X
CCB 240-176499/11-A	1		09:08	X
ZZZZZZ			09:11	
ZZZZZZ			09:13	
ZZZZZZ			09:15	
ZZZZZZ			09:17	
ZZZZZZ			09:19	
ZZZZZZ			09:21	
ZZZZZZ			09:23	
MB 240-176570/1-A	1	T	09:25	X
LCS 240-176570/2-A	1	T	09:27	X
240-49071-2	1	T	09:29	X
CCV 240-176499/10-A	1		09:31	X
CCB 240-176499/11-A	1		09:33	X
240-49071-2 DU	1	T	09:35	X
240-49071-2 MS	1	T	09:37	X
240-49071-3	1	T	09:39	X
240-49071-4	1	T	09:40	X
ZZZZZZ			09:42	
ZZZZZZ			09:44	
ZZZZZZ			09:47	
ZZZZZZ			09:48	
ZZZZZZ			09:51	
ZZZZZZ			09:52	
CCV 240-176499/10-A	1		09:55	X
CCB 240-176499/11-A	1		09:57	X
ZZZZZZ			10:00	
ZZZZZZ			10:02	
ZZZZZZ			10:03	
ZZZZZZ			10:05	
ZZZZZZ			10:08	
ZZZZZZ			10:09	
ZZZZZZ			10:11	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: H4 Analysis Method: 7471A

Start Date: 04/16/2015 08:15 End Date: 04/16/2015 10:17

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
CRA 240-176499/9-A	1		10:13	X																								
CCV 240-176499/10-A			10:15																									
CCB 240-176499/11-A			10:17																									

Prep Types:
T = Total/NA

FORM XIII-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICP-MS Instrument ID: I10 Start Date: 04/20/2015 End Date: 04/20/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-177115/3 IC	10:29	102		102		100		98		99	
STD2 240-177115/4 IC	10:32	99		104		101		95		96	
STD3 240-177115/5 IC	10:36	97		103		101		94		96	
STD4 240-177115/6 IC	10:40	100		104		99		102		101	
ICV 240-177115/7	10:44	100		105		104		98		99	
ICB 240-177115/8	10:48	104		102		106		103		104	
CRI 240-177115/10	10:55	103		106		105		103		104	
ICSA 240-177115/11	10:59	92		101		96		88		93	
ICSAB 240-177115/12	11:04	92		101		96		90		94	
CCV 240-177115/118	18:03	91		100		104		95		99	
CCB 240-177115/119	18:07	92		96		104		102		102	
MB 240-176562/1-A ^2	18:14	91		94		98		97		97	
LCS 240-176562/2-A ^:	18:18	88		92		96		93		92	
240-49071-2	18:22	89		96		101		92		94	
240-49071-2 SD	18:26	92		100		103		101		102	
240-49071-2 PDS	18:30	86		96		99		90		91	
240-49071-2 DU	18:33	89		95		101		92		94	
240-49071-2 MS	18:37	88		96		99		91		93	
240-49071-3	18:41	89		95		101		93		94	
240-49071-4	18:45	89		96		102		91		93	
CCV 240-177115/130	18:48	90		98		102		98		99	
CCB 240-177115/131	18:52	92		96		104		103		103	
CRI 240-177115/142	19:34	87		92		96		96		98	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICP-MS Instrument ID: I10 Start Date: 04/20/2015 End Date: 04/20/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-177115/3 IC	10:29	99		100		100					
STD2 240-177115/4 IC	10:32	98		100		96					
STD3 240-177115/5 IC	10:36	98		98		93					
STD4 240-177115/6 IC	10:40	100		102		101					
ICV 240-177115/7	10:44	101		103		101					
ICB 240-177115/8	10:48	104		104		104					
CRI 240-177115/10	10:55	103		103		104					
ICSA 240-177115/11	10:59	96		98		91					
ICSAB 240-177115/12	11:04	97		100		94					
CCV 240-177115/118	18:03	102		103		102					
CCB 240-177115/119	18:07	102		106		105					
MB 240-176562/1-A ^2	18:14	100		101		105					
LCS 240-176562/2-A ^:	18:18	99		101		101					
240-49071-2	18:22	103		104		103					
240-49071-2 SD	18:26	106		108		108					
240-49071-2 PDS	18:30	101		103		100					
240-49071-2 DU	18:33	102		105		101					
240-49071-2 MS	18:37	103		104		101					
240-49071-3	18:41	102		105		100					
240-49071-4	18:45	102		102		100					
CCV 240-177115/130	18:48	104		106		103					
CCB 240-177115/131	18:52	106		107		108					
CRI 240-177115/142	19:34	101		102		103					

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICP-MS Instrument ID: I10 Start Date: 04/21/2015 End Date: 04/21/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-177351/3 IC	17:53	100		106		103		101		102	
STD2 240-177351/4 IC	17:57	102		108		104		99		99	
STD3 240-177351/5 IC	18:00	101		105		106		98		97	
STD4 240-177351/6 IC	18:04	99		106		100		106		103	
ICV 240-177351/7	18:08	101		105		103		102		100	
ICB 240-177351/8	18:12	105		104		107		107		104	
CRI 240-177351/9	18:16	104		109		108		108		106	
ICSA 240-177351/10	18:20	86		98		91		90		92	
ICSAB 240-177351/11	18:23	85		94		92		91		91	
CCV 240-177351/48	20:45	81		85		88		90		86	
CCB 240-177351/49	20:48	82		86		91		96		92	
240-49071-2	20:59	74		78		80		88		84	
240-49071-2 SD	21:03	75		80		82		89		85	
240-49071-2 PDS	21:07	76		86		85		89		83	
240-49071-2 DU	21:11	77		82		83		90		86	
240-49071-2 MS	21:15	79		84		85		92		87	
240-49071-3	21:18	77		83		84		91		87	
240-49071-4	21:22	79		84		86		93		87	
CCV 240-177351/60	21:30	83		90		91		93		89	
CCB 240-177351/61	21:34	82		88		91		98		93	
MB 240-176562/1-A ^2	22:00	86		90		92		95		90	
LCS 240-176562/2-A ^2	22:04	85		89		91		94		87	
240-49071-2	22:08	95		100		107		100		95	
240-49071-2 SD	22:12	97		107		110		112		105	
CCV 240-177351/72	22:15	91		100		102		101		97	
CCB 240-177351/73	22:19	96		99		105		106		102	
240-49071-2 PDS	22:23	85		96		96		96		89	
240-49071-2 DU	22:27	94		103		108		103		98	
240-49071-2 MS	22:30	91		100		104		100		95	
240-49071-3	22:34	78		101		89		101		95	
240-49071-4	22:38	93		101		106		101		94	
CCV 240-177351/84	23:00	88		97		98		101		95	
CCB 240-177351/85	23:04	91		94		100		105		98	
CRI 240-177351/91	23:27	90		97		100		102		98	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

ICP-MS Instrument ID: I10 Start Date: 04/21/2015 End Date: 04/21/2015

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-177351/3 IC	17:53	101		102		100					
STD2 240-177351/4 IC	17:57	102		103		97					
STD3 240-177351/5 IC	18:00	102		103		96					
STD4 240-177351/6 IC	18:04	104		106		105					
ICV 240-177351/7	18:08	103		105		100					
ICB 240-177351/8	18:12	104		105		104					
CRI 240-177351/9	18:16	104		106		104					
ICSA 240-177351/10	18:20	96		98		93					
ICSAB 240-177351/11	18:23	97		98		92					
CCV 240-177351/48	20:45	96		97		94					
CCB 240-177351/49	20:48	98		101		100					
240-49071-2	20:59	91		94		94					
240-49071-2 SD	21:03	92		94		95					
240-49071-2 PDS	21:07	95		97		94					
240-49071-2 DU	21:11	95		96		98					
240-49071-2 MS	21:15	95		97		96					
240-49071-3	21:18	94		97		96					
240-49071-4	21:22	94		96		97					
CCV 240-177351/60	21:30	95		99		93					
CCB 240-177351/61	21:34	98		101		100					
MB 240-176562/1-A ^2	22:00	97		100		98					
LCS 240-176562/2-A ^2	22:04	97		100		95					
240-49071-2	22:08	104		105		99					
240-49071-2 SD	22:12	109		111		108					
CCV 240-177351/72	22:15	102		105		99					
CCB 240-177351/73	22:19	105		107		105					
240-49071-2 PDS	22:23	102		102		98					
240-49071-2 DU	22:27	107		109		101					
240-49071-2 MS	22:30	105		106		99					
240-49071-3	22:34	104		106		99					
240-49071-4	22:38	103		105		98					
CCV 240-177351/84	23:00	103		104		99					
CCB 240-177351/85	23:04	103		104		101					
CRI 240-177351/91	23:27	102		104		103					

MTMSCCBDILH20-192 EPA Tune Solution Spex CL11-62YPY

TestAmerica ICP/MS Data Review Checklist

Run Date: 4/20/15 Analyst: AS Instrument: I10

Review Items A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? Correlation coefficient > 0.995?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (*ICV*: = 90 – 110%) (*CCV*: 90 – 110%, 200.8 = 85 -115%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%) or project limits?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Were the internal standards within acceptance criteria for all results reported?	✓			✓
4. Sample analyses done within holding time?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			✓
E. Other				
1. Are all nonconformance's documented appropriately?	✓			✓
2. Current IDL/LR data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

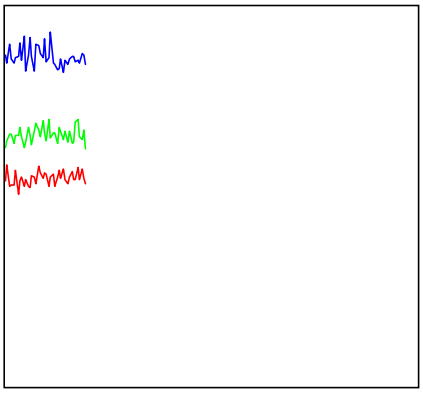
Level I Analyst: Anjali Sharma Date: 4/20/15 Time: 10:21 – 11:54
Level I Analyst: [signature] Date: 4/22/15 Time: 12:15 - 21:48

Level II Reviewer: [signature] Date: 4/20/15 Time: 10:21 - 11:54
Level II Reviewer: [signature] Date: 04/22/2015 Time: 10:21 - 21:48

Comments:

Current Signal

[NoGas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2676	2738.7	3.22
89	5000	3124	3309.1	3.11
205	5000	4243	4339.8	2.96
156/140	1	0.385 %	0.605 %	28.72
70/140	2	1.130 %	1.054 %	19.83
115	200	42	47.2	37.88
63	500	349	335.9	7.57
60	50	30	27.6	23.31
121	50	21	10.9	41.42
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

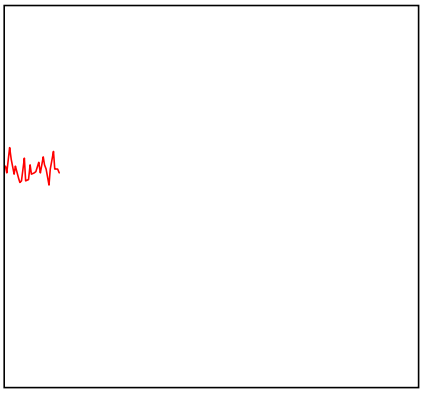
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	15.00	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	5.98E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	2000	1122	1142.2	4.30
51	50	43	34.7	20.79
52	200	152	130.1	11.15
51/59	5	3.831 %	3.040 %	20.85
52/59	20	13.544 %	11.413 %	12.10
7	50	12	12.7	34.09
89	2000	987	968.1	4.69
205	5000	2637	2699.8	2.23
6	20	0	1.0	120.89
Integration Time [sec]			0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	-2.0	V
Extract 2	-185.0	V	Cell Entrance	-50	V	Plate Bias	-70	V
Omega Bias	-85	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	4.0	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	14.96	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	5.99E+2	kPa			

US EPA Tune Check Sample Report

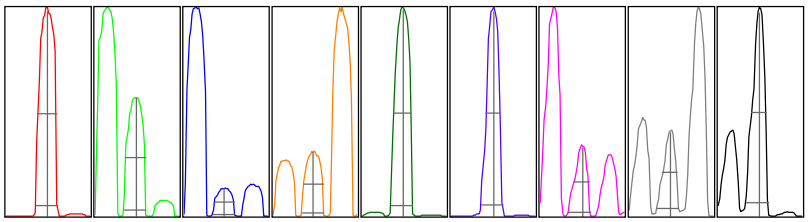
Batch Folder D:\Analytical Runs\I10042015A.b
Report Comment
Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	38955	0.57	5.00	
24	116148	0.70	5.00	
25	15543	0.46	5.00	
26	17843	1.11	5.00	
59	121722	0.31	5.00	
115	177741	0.47	5.00	
206	67089	0.73	5.00	
207	59450	0.80	5.00	
208	141248	0.69	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	38879	38729	39235	39138	38793
24	117215	116559	116280	115461	115225
25	15626	15604	15473	15536	15473
26	18178	17828	17816	17706	17687
59	121286	121564	122263	121555	121942
115	178829	176828	176965	178198	177885
206	67780	66533	66753	67055	67321
207	60273	59204	59323	59384	59069
208	142385	140451	142008	141271	140124

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
9	6273	9.00	8.9 - 9.1		0.752	0.850	
24	18643	24.00	23.9 - 24.1		0.783	0.850	
25	2474	24.95	24.9 - 25.1		0.788	0.850	
26	2829	25.95	25.9 - 26.1		0.789	0.850	
59	20345	59.00	58.9 - 59.1		0.785	0.850	
115	33723	115.05	114.9 - 115.1		0.751	0.850	
206	12822	206.05	205.9 - 206.1		0.763	0.850	
207	11267	207.00	206.9 - 207.1		0.766	0.850	
208	27545	208.00	207.9 - 208.1		0.785	0.850	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 235 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

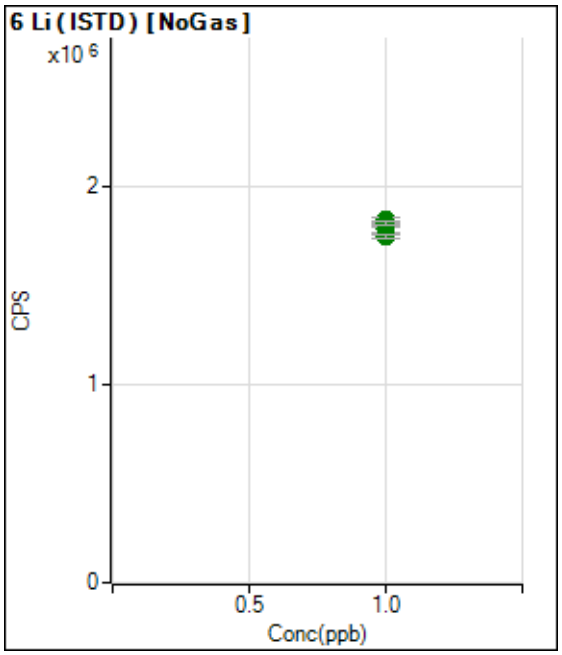
US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
ParameterName	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

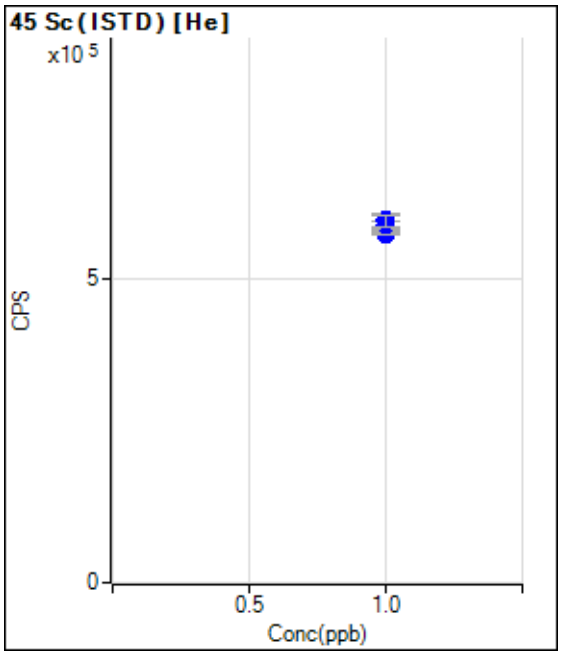
Calibration for 017_CCV.d

Batch Folder: D:\Analytical Runs\I10042015B.b\
Analysis File: I10042015B.batch.bin
DA Date-Time: 4/20/2015 11:54:19 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

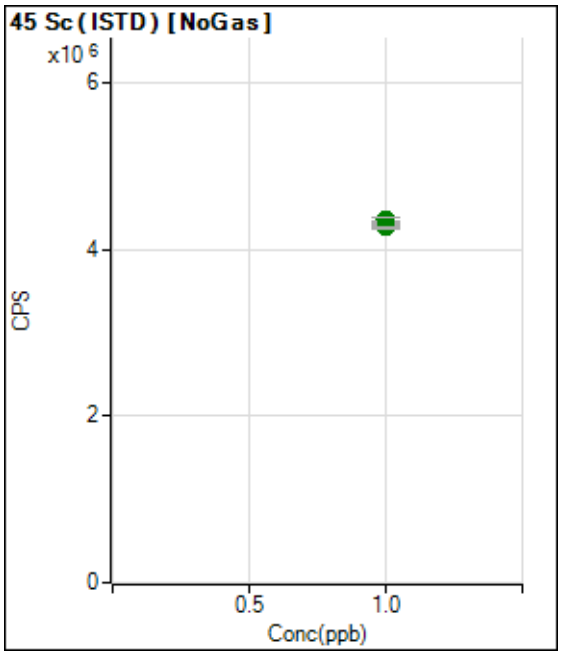
Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	ICIS	4/20/2015 10:25:17 AM
2	003CALS.d	STD1-1906323	4/20/2015 10:29:07 AM
3	004CALS.d	STD2-1904110	4/20/2015 10:32:55 AM
4	005CALS.d	STD3-1906333	4/20/2015 10:36:43 AM
5	006CALS.d	STD4-1906536	4/20/2015 10:40:29 AM



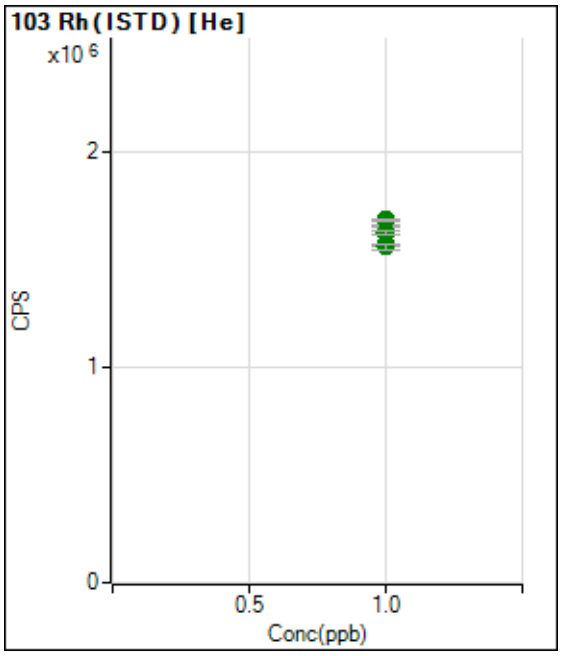
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1803796.89		A	1.2
2	☐	1.000		1829983.13		A	1.2
3	☐	1.000		1782193.55		A	1.6
4	☐	1.000		1742537.93		A	1.0
5	☐	1.000		1809459.47		A	1.0



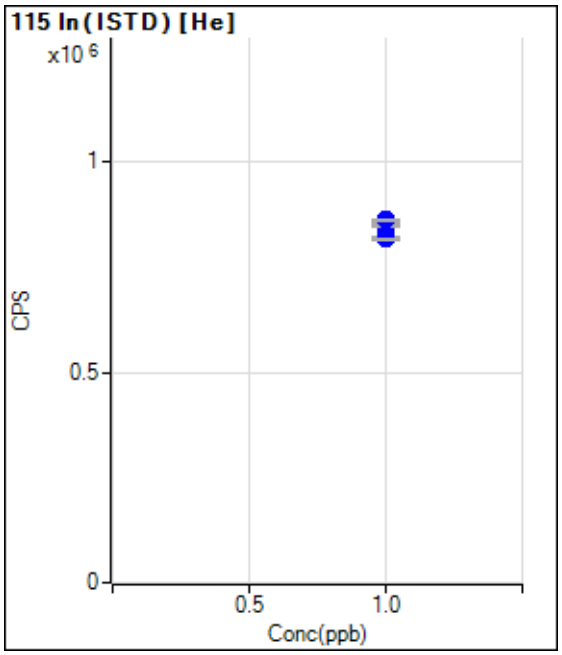
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		574766.30		P	0.8
2	☐	1.000		588684.67		P	2.5
3	☐	1.000		597812.59		P	4.0
4	☐	1.000		589733.43		P	2.3
5	☐	1.000		595610.05		P	3.0



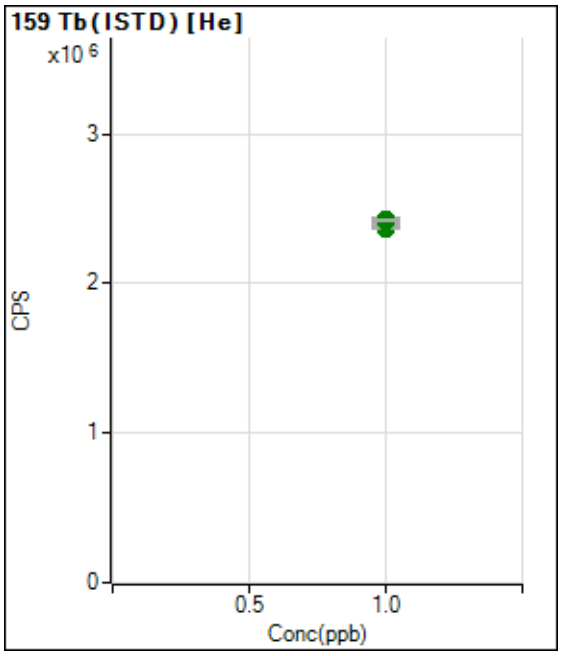
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4296856.77		A	0.3
2	☐	1.000		4298089.13		A	0.5
3	☐	1.000		4333353.30		A	0.1
4	☐	1.000		4352110.38		A	1.8
5	☐	1.000		4264431.08		A	0.5



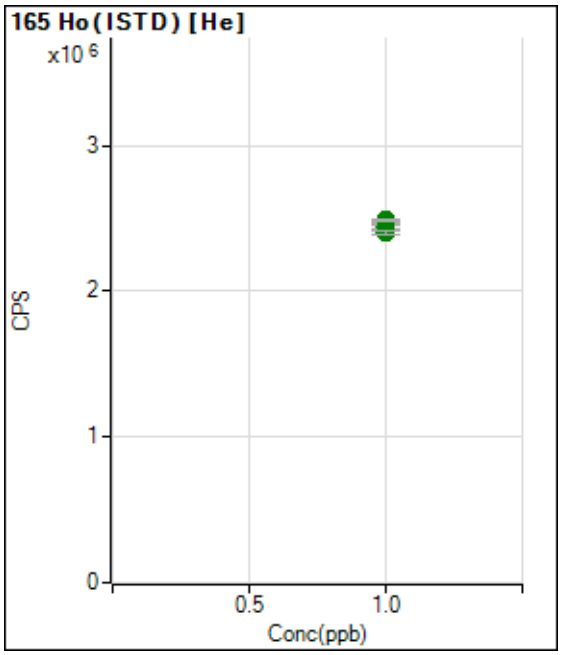
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1652712.47		A	1.0
2	☐	1.000		1620297.75		A	1.3
3	☐	1.000		1565924.42		A	0.5
4	☐	1.000		1556491.19		A	2.0
5	☐	1.000		1681733.06		A	0.4



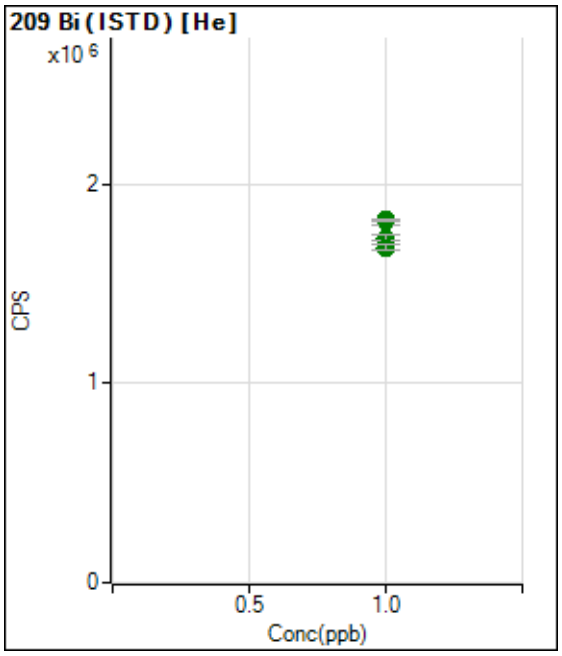
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		852389.20		P	0.8
2	☐	1.000		847101.31		P	0.4
3	☐	1.000		820615.51		P	0.6
4	☐	1.000		815922.78		P	0.5
5	☐	1.000		861709.70		P	0.7



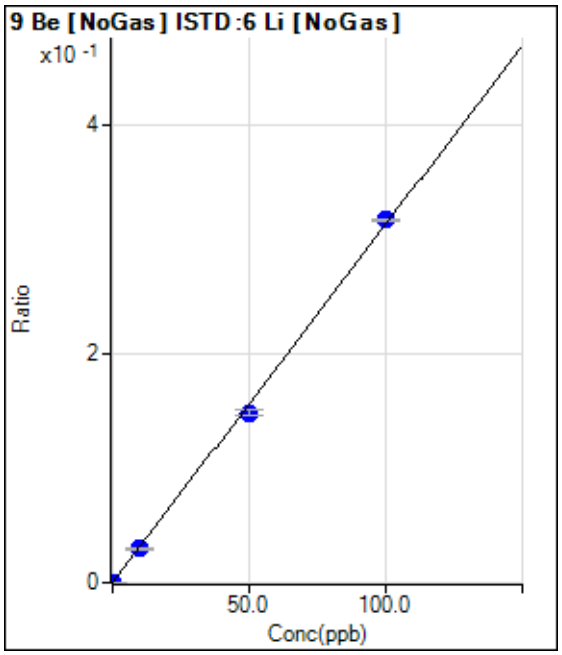
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2425956.29		A	1.3
2	☐	1.000		2406371.22		A	1.5
3	☐	1.000		2383879.77		A	1.2
4	☐	1.000		2370841.99		A	0.8
5	☐	1.000		2422876.64		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2452679.83		A	1.7
2	☐	1.000		2463165.67		A	0.9
3	☐	1.000		2444894.69		A	1.4
4	☐	1.000		2398504.97		A	0.8
5	☐	1.000		2489280.81		A	0.3



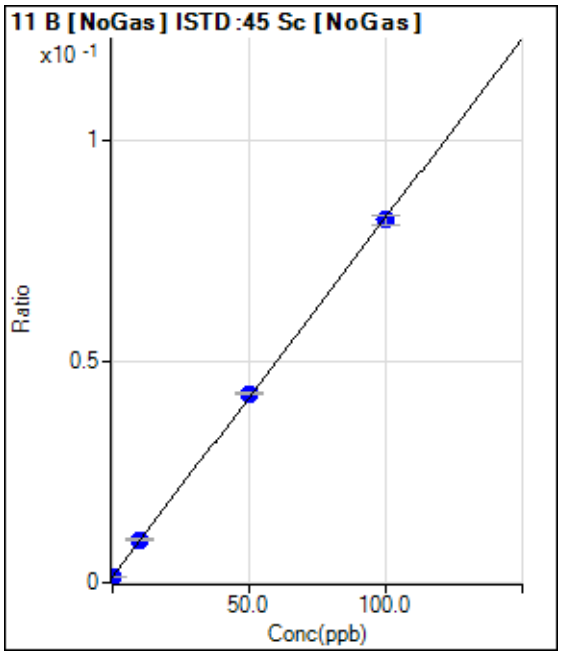
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1810472.84		A	1.3
2	☐	1.000		1809267.22		A	1.7
3	☐	1.000		1729560.25		A	2.0
4	☐	1.000		1682428.75		A	1.6
5	☐	1.000		1820015.13		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.70	0.0000	P	173.2
2	☐	10.000	9.493	54361.39	0.0297	P	5.6
3	☐	50.000	47.431	264560.43	0.1485	P	3.0
4	☐	100.000	101.335	552758.80	0.3172	P	0.5
5	☐			103.71	0.0001	P	17.4

y = 0.0031 * x + 2.0263E-006
R = 0.9994
DL = 0.003363
BEC = 0.0006473

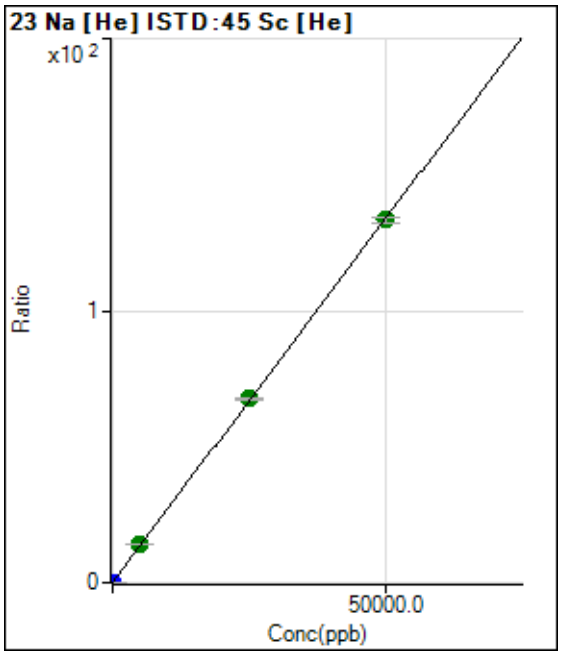
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5845.61	0.0014	P	7.2
2	☐	10.000	10.375	42104.10	0.0098	P	2.8
3	☐	50.000	51.094	185912.75	0.0429	P	1.4
4	☐			8795.10	0.0020	P	1.7
5	☐	100.000	99.415	350463.83	0.0822	P	2.7

y = 8.1306E-004 * x + 0.0014
R = 0.9999
DL = 0.359
BEC = 1.673

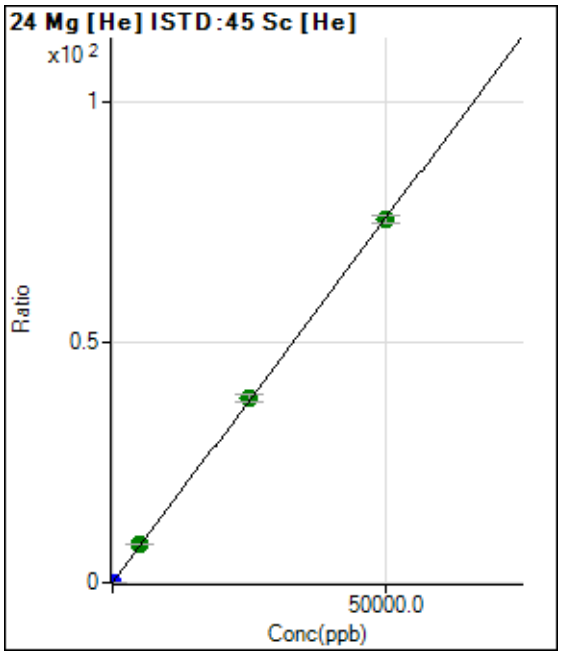
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33509.39	0.0583	P	5.1
2	☐	5000.000	5254.690	8305773.52	14.1169	A	3.4
3	☐	25000.000	25229.736	40367945.62	67.5589	A	1.8
4	☐	50000.000	49859.663	78687391.32	133.4548	A	1.4
5	☐			51450.97	0.0863	P	6.1

y = 0.0027 * x + 0.0583
R = 1.0000
DL = 3.336
BEC = 21.79

Weight: <None>
Min Conc: <None>

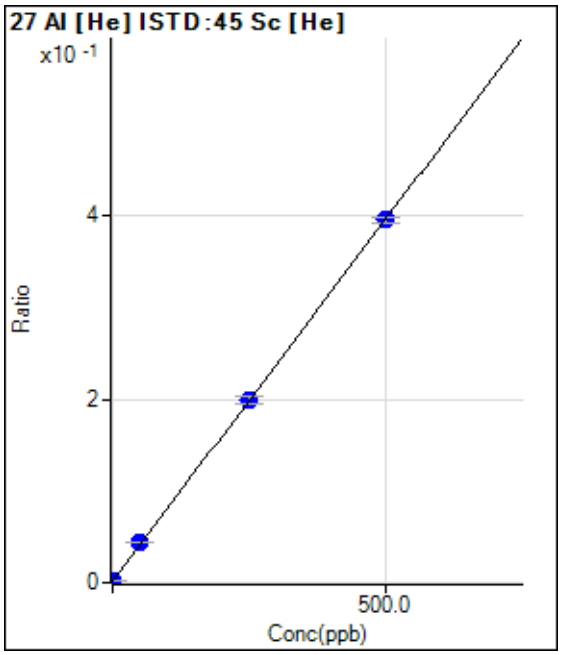


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	926.00	0.0016	P	2.4
2	☐	5000.000	5290.034	4722367.29	8.0264	A	3.5
3	☐	25000.000	25330.341	22951103.26	38.4268	A	3.4
4	☐	50000.000	49805.826	44543324.15	75.5552	A	2.1
5	☐			6953.57	0.0116	P	19.0

y = 0.0015 * x + 0.0016
R = 1.0000
DL = 0.07731
BEC = 1.062

Weight: <None>
Min Conc: <None>

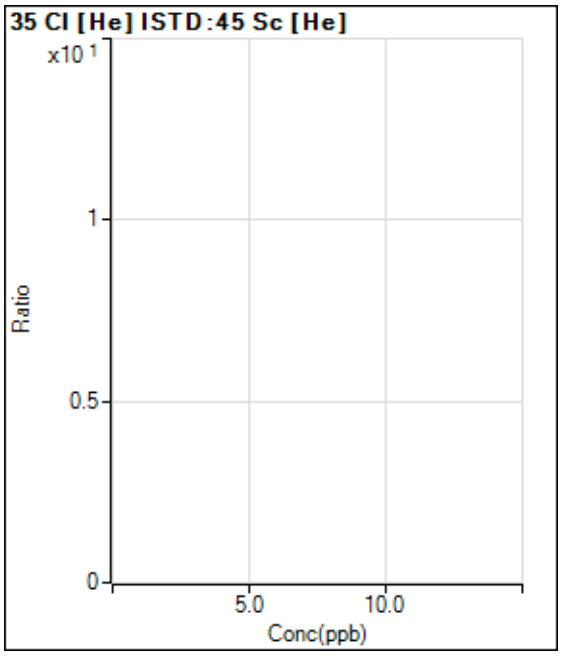
Calibration for 017_CCV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	748.92	0.0013	P	3.3
2	☐	50.000	54.305	25975.05	0.0441	P	2.8
3	☐	250.000	250.431	118769.83	0.1989	P	3.7
4	☐	500.000	499.354	233035.80	0.3952	P	1.6
5	☐			2339.07	0.0039	P	3.5

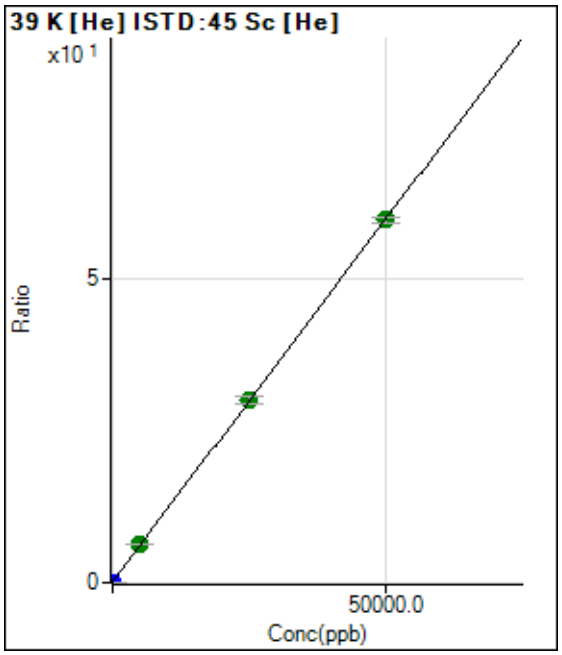
y = 7.8891E-004 * x + 0.0013
R = 1.0000
DL = 0.1646
BEC = 1.651

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13317558.27	23.1714	A	1.2
2	☐			13306259.19	22.6098	A	1.9
3	☐			13738800.84	23.0067	A	4.1
4	☐			13733662.88	23.2947	A	2.0
5	☐			13788611.95	23.1636	A	3.0

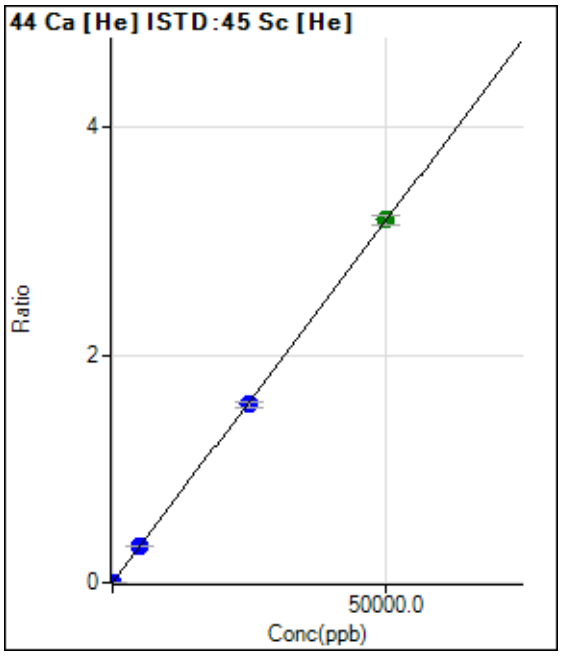
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64779.15	0.1127	P	0.1
2	☐	5000.000	5227.338	3730768.02	6.3381	A	1.3
3	☐	25000.000	25071.484	17899162.71	29.9709	A	3.7
4	☐	50000.000	49941.524	35133648.61	59.5891	A	1.6
5	☐			74501.09	0.1251	P	1.6

y = 0.0012 * x + 0.1127
R = 1.0000
DL = 0.2061
BEC = 94.64

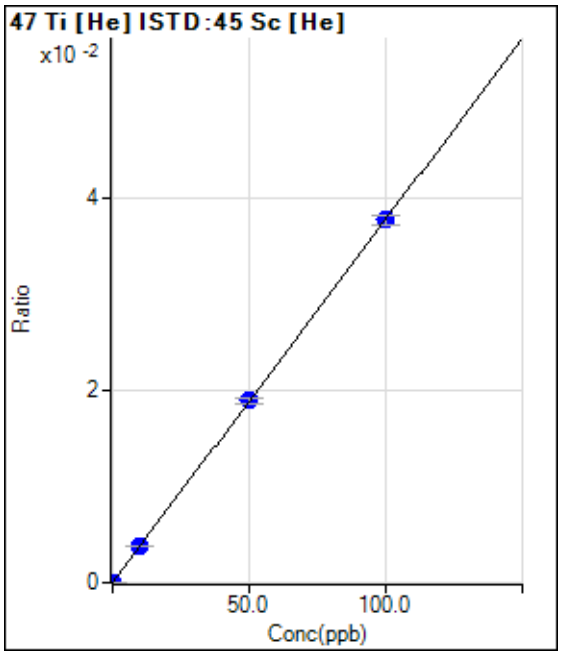
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	574.55	0.0010	P	5.4
2	☐	5000.000	5038.607	188854.50	0.3209	P	1.4
3	☐	25000.000	24635.115	934803.66	1.5650	P	3.0
4	☐	50000.000	50178.582	1878505.18	3.1866	A	2.7
5	☐			1412.29	0.0024	P	5.0

y = 6.3485E-005 * x + 9.9986E-004
R = 1.0000
DL = 2.534
BEC = 15.75

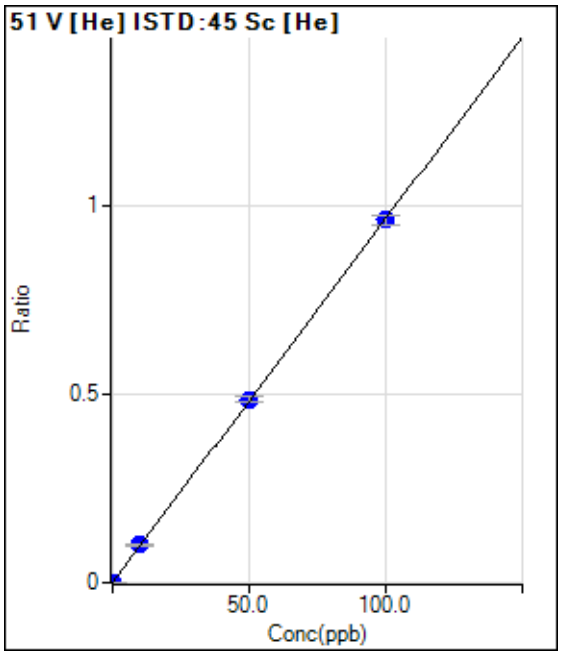
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	10.000	9.998	2224.61	0.0038	P	3.6
3	☐	50.000	50.088	11311.41	0.0189	P	3.1
4	☐			23.34	0.0000	P	47.0
5	☐	100.000	99.956	22495.20	0.0378	P	2.5

y = 3.7802E-004 * x + 1.9224E-006
R = 1.0000
DL = 0.02643
BEC = 0.005086

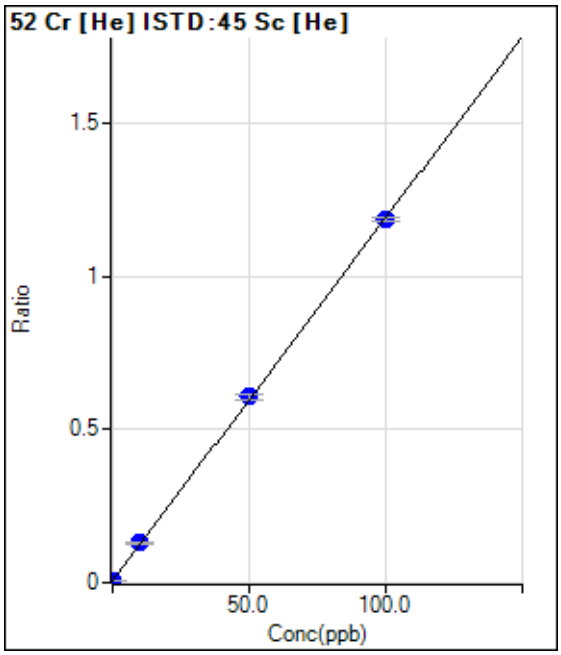
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	264.79	0.0005	P	182.4
2	☐	10.000	10.390	59298.95	0.1008	P	4.7
3	☐	50.000	50.381	290945.49	0.4870	P	2.8
4	☐	100.000	99.770	568327.17	0.9641	P	2.6
5	☐			584.23	0.0010	P	100.3

y = 0.0097 * x + 4.5623E-004
R = 1.0000
DL = 0.2585
BEC = 0.04724

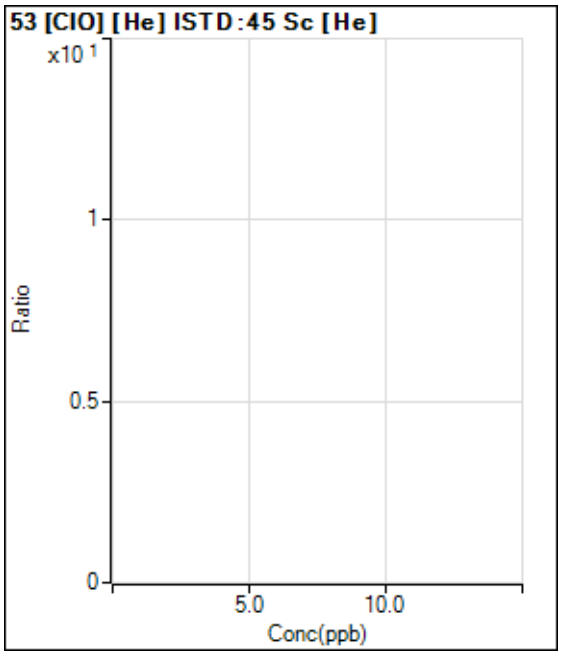
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3008.07	0.0052	P	4.9
2	☐	10.000	10.531	76509.00	0.1300	P	2.1
3	☐	50.000	50.821	362777.56	0.6074	P	3.3
4	☐	100.000	99.537	698462.14	1.1846	P	1.2
5	☐			3163.65	0.0053	P	1.4

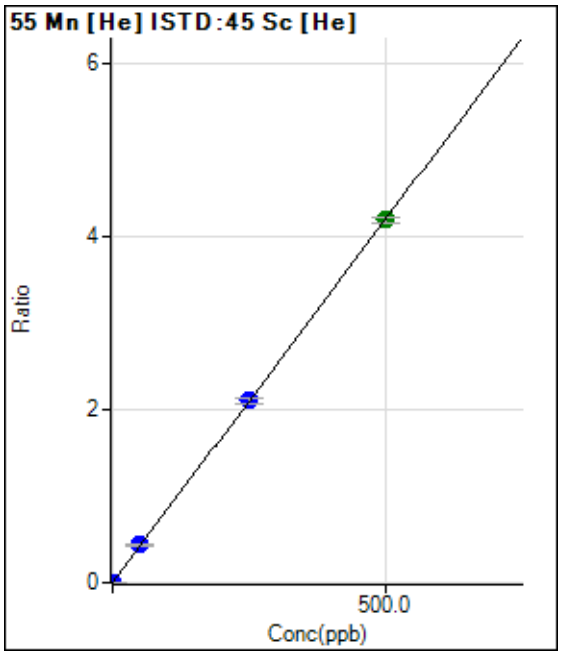
y = 0.0118 * x + 0.0052
R = 0.9999
DL = 0.06547
BEC = 0.4418

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			929.72	0.0016	P	20.9
2	☐			9451.07	0.0160	P	3.4
3	☐			44868.20	0.0751	P	4.4
4	☐			84923.37	0.1440	P	1.3
5	☐			640.78	0.0011	P	25.2

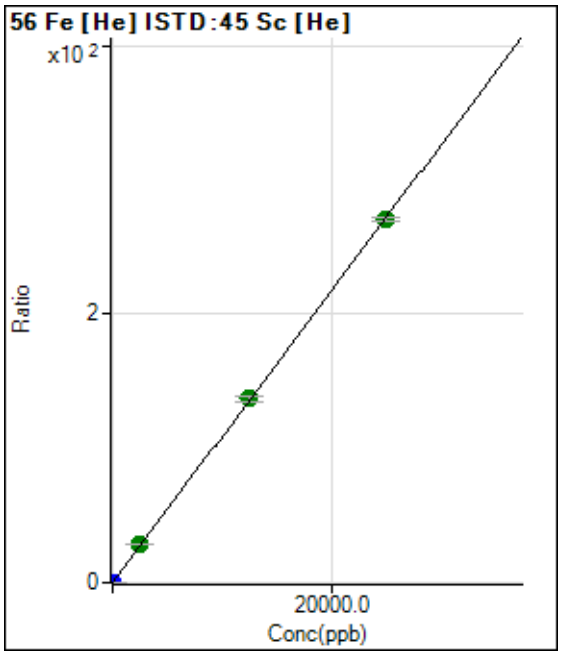
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167.78	0.0003	P	11.3
2	☐	50.000	51.842	255892.60	0.4348	P	2.3
3	☐	250.000	251.149	1257657.31	2.1055	P	3.1
4	☐	500.000	499.241	2467533.30	4.1851	A	1.4
5	☐			780.03	0.0013	P	20.3

y = 0.0084 * x + 2.9200E-004
R = 1.0000
DL = 0.01179
BEC = 0.03483

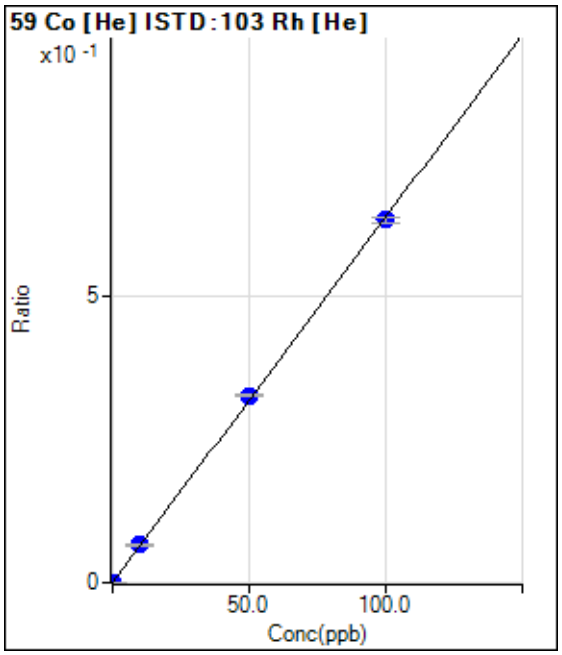
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6091.12	0.0106	P	3.4
2	☐	2500.000	2615.834	16713658.78	28.3945	A	0.6
3	☐	12500.000	12662.444	82076887.85	137.4083	A	3.3
4	☐	25000.000	24907.195	159363620.33	270.2737	A	1.1
5	☐			156745.49	0.2616	P	29.5

y = 0.0109 * x + 0.0106
R = 1.0000
DL = 0.1004
BEC = 0.9765

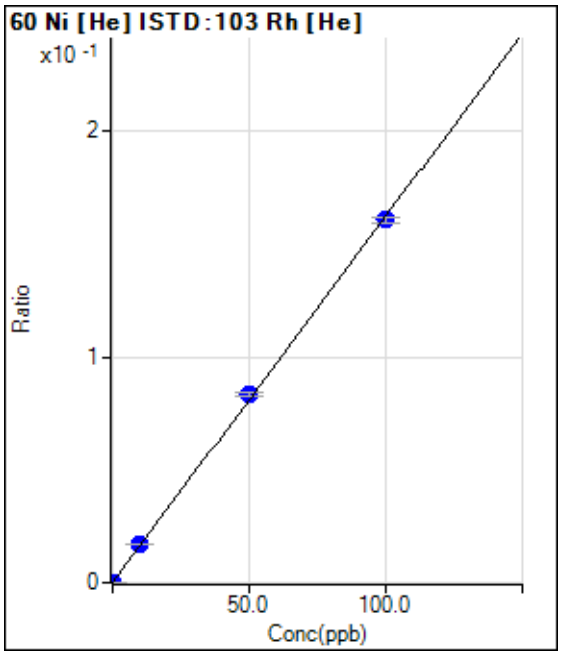
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0000	P	37.5
2	☐	10.000	10.268	106199.60	0.0656	P	1.4
3	☐	50.000	51.277	512381.01	0.3272	P	1.4
4	☐	100.000	99.335	986451.91	0.6339	P	1.3
5	☐			173.34	0.0001	P	30.4

y = 0.0064 * x + 3.2979E-005
R = 0.9999
DL = 0.00581
BEC = 0.005169

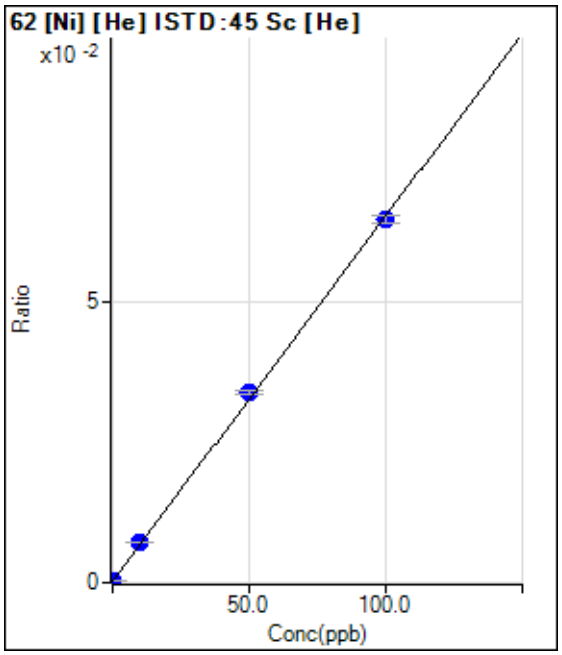
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95.56	0.0001	P	57.0
2	☐	10.000	10.448	27565.71	0.0170	P	0.8
3	☐	50.000	51.677	131388.63	0.0839	P	1.9
4	☐	100.000	99.117	250363.12	0.1609	P	1.7
5	☐			251.12	0.0001	P	9.6

y = 0.0016 * x + 5.7991E-005
R = 0.9998
DL = 0.06111
BEC = 0.03574

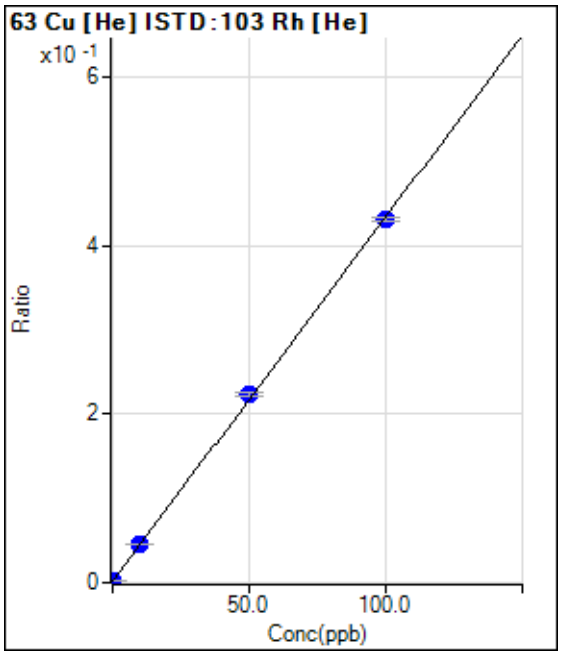
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0002	P	21.9
2	☐	10.000	10.708	4211.66	0.0072	P	2.3
3	☐	50.000	51.776	20229.39	0.0339	P	2.6
4	☐	100.000	99.041	38083.66	0.0646	P	2.0
5	☐			151.12	0.0003	P	17.5

y = 6.5028E-004 * x + 1.9313E-004
R = 0.9997
DL = 0.1952
BEC = 0.297

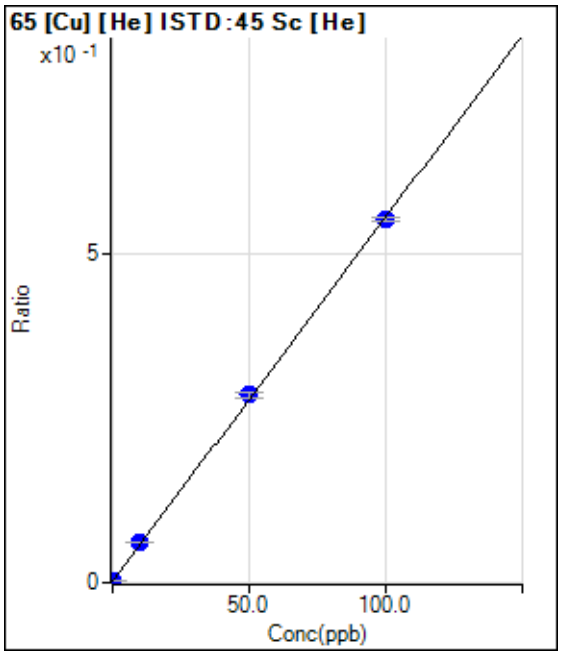
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2489.10	0.0015	P	4.6
2	☐	10.000	10.394	75327.95	0.0465	P	1.1
3	☐	50.000	51.334	350202.36	0.2237	P	2.0
4	☐	100.000	99.294	671068.15	0.4312	P	1.0
5	☐			3062.53	0.0018	P	2.4

y = 0.0043 * x + 0.0015
R = 0.9998
DL = 0.04755
BEC = 0.348

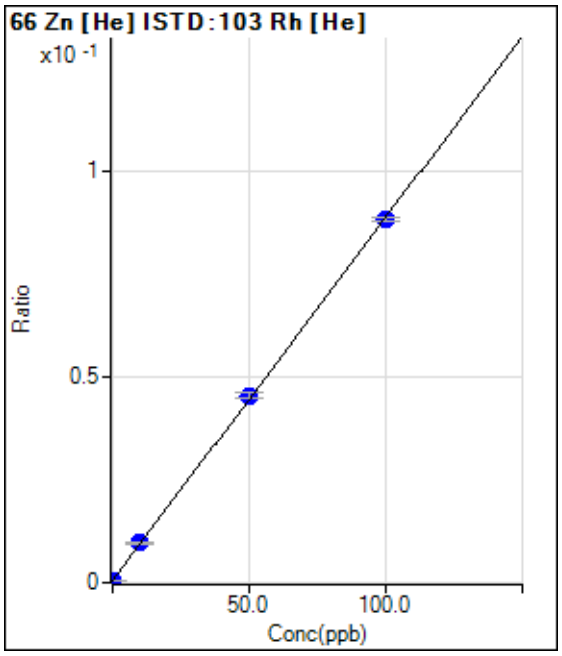
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1071.16	0.0019	P	7.5
2	☐	10.000	10.830	36473.84	0.0620	P	3.1
3	☐	50.000	51.213	170970.41	0.2862	P	2.5
4	☐	100.000	99.310	326181.73	0.5532	P	1.2
5	☐			1393.41	0.0023	P	1.4

y = 0.0056 * x + 0.0019
R = 0.9999
DL = 0.07546
BEC = 0.3357

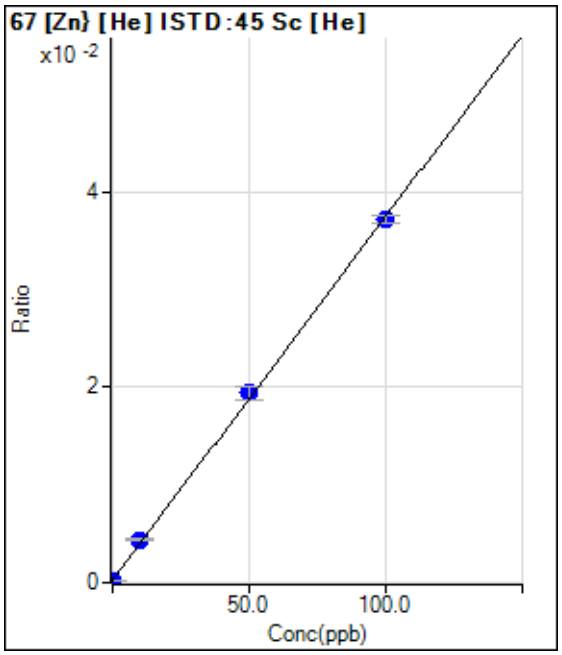
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	847.81	0.0005	P	10.1
2	☐	10.000	10.374	15620.29	0.0096	P	2.6
3	☐	50.000	51.083	71190.50	0.0455	P	2.6
4	☐	100.000	99.421	136960.26	0.0880	P	1.0
5	☐			2756.92	0.0016	P	1.0

y = 8.8000E-004 * x + 5.1281E-004
R = 0.9999
DL = 0.1768
BEC = 0.5827

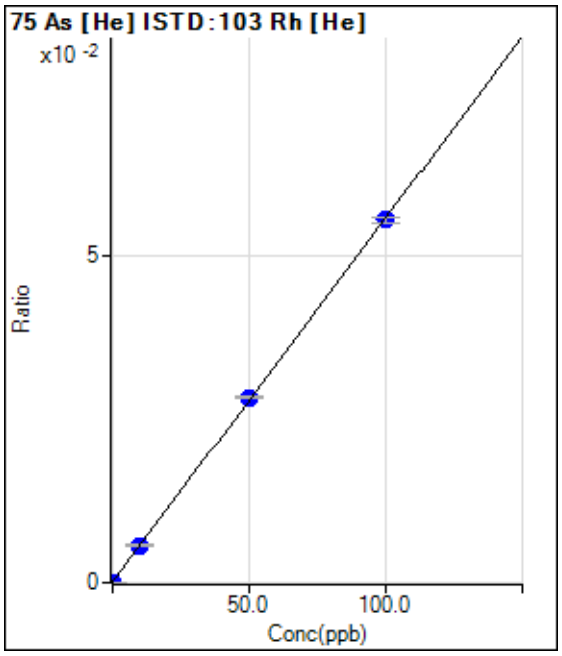
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0002	P	4.3
2	☐	10.000	11.180	2592.45	0.0044	P	4.0
3	☐	50.000	51.458	11578.33	0.0194	P	6.3
4	☐	100.000	99.153	21907.98	0.0372	P	2.1
5	☐			387.79	0.0007	P	18.5

y = 3.7232E-004 * x + 2.4170E-004
R = 0.9998
DL = 0.08392
BEC = 0.6492

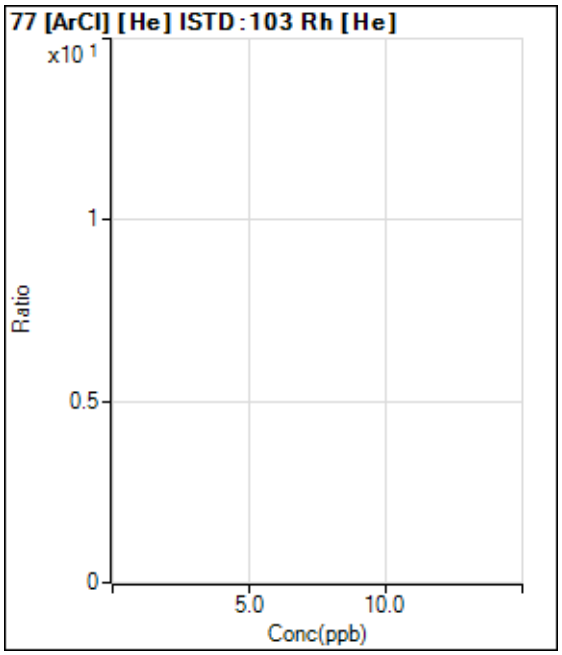
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.89	0.0001	P	10.6
2	☐	10.000	10.079	9289.18	0.0057	P	1.4
3	☐	50.000	50.822	44515.56	0.0284	P	1.2
4	☐	100.000	99.581	86503.94	0.0556	P	1.8
5	☐			179.23	0.0001	P	8.3

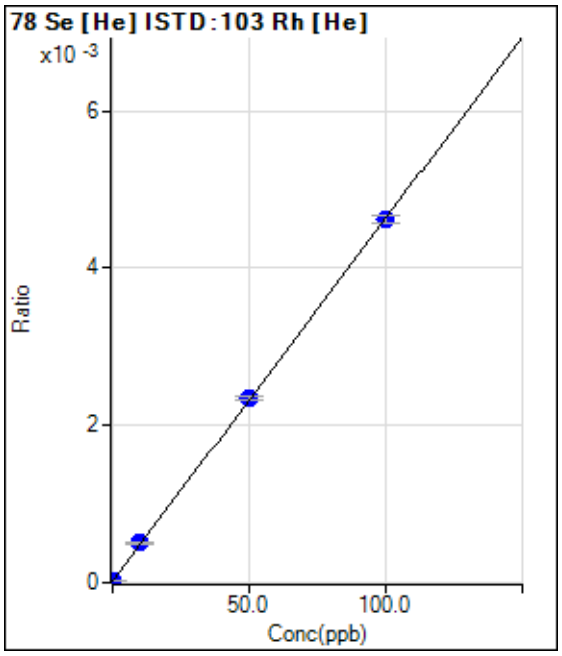
y = 5.5703E-004 * x + 1.1921E-004
R = 0.9999
DL = 0.06779
BEC = 0.214

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			29.63	0.0000	P	22.4
2	☐			262.98	0.0002	P	30.4
3	☐			1203.82	0.0008	P	3.2
4	☐			2144.67	0.0014	P	5.0
5	☐			44.45	0.0000	P	65.8

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29.69	0.0000	P	16.4
2	☐	10.000	10.563	818.10	0.0005	P	4.6
3	☐	50.000	50.587	3680.98	0.0024	P	1.4
4	☐	100.000	99.650	7178.73	0.0046	P	2.1
5	☐			33.83	0.0000	P	13.0

y = 4.6114E-005 * x + 1.7980E-005

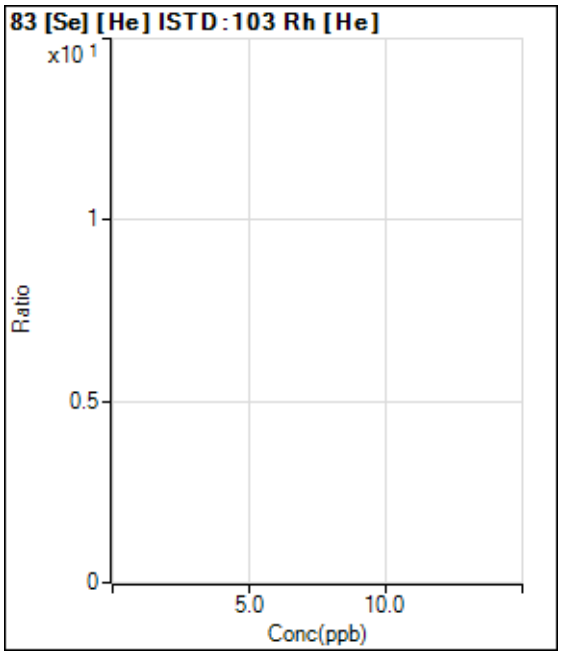
R = 1.0000

DL = 0.1916

BEC = 0.3899

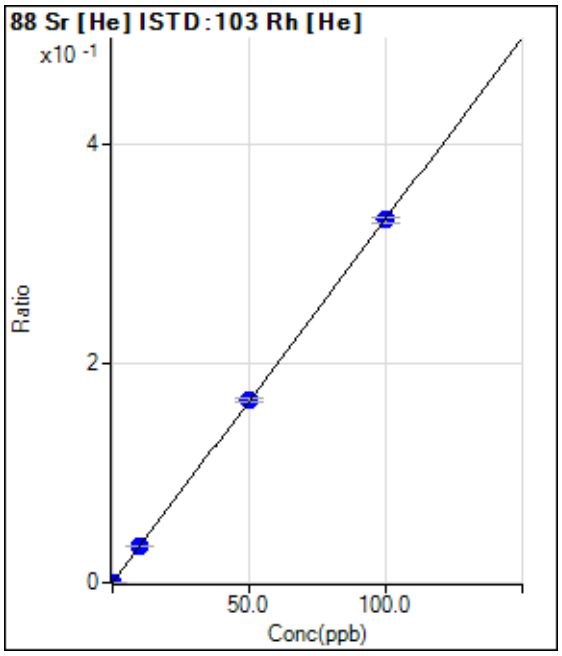
Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			208.08	0.0001	P	3.0
2	☐			199.66	0.0001	P	6.8
3	☐			198.32	0.0001	P	2.3
4	☐			212.12	0.0001	P	9.7
5	☐			208.42	0.0001	P	16.6

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.23	0.0001	P	22.0
2	☐	10.000	10.030	54009.08	0.0333	P	0.9
3	☐	50.000	50.340	261429.42	0.1670	P	1.6
4	☐	100.000	99.827	515085.29	0.3310	P	1.7
5	☐			148.89	0.0001	P	16.0

y = 0.0033 * x + 8.6169E-005

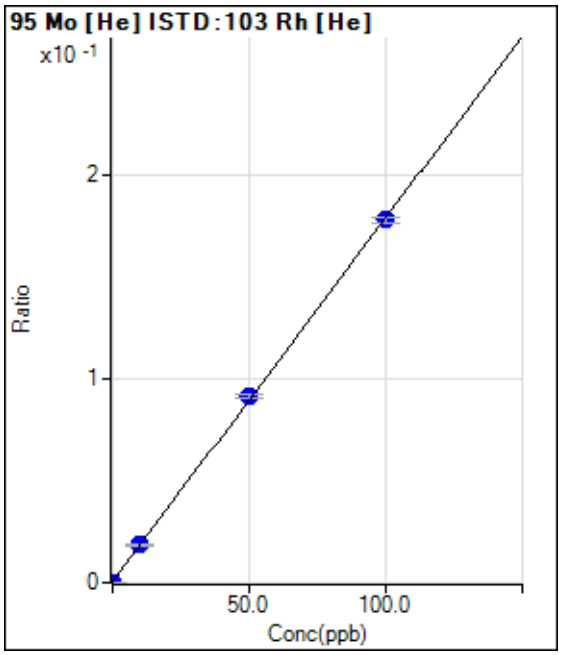
R = 1.0000

DL = 0.01713

BEC = 0.02599

Weight: <None>

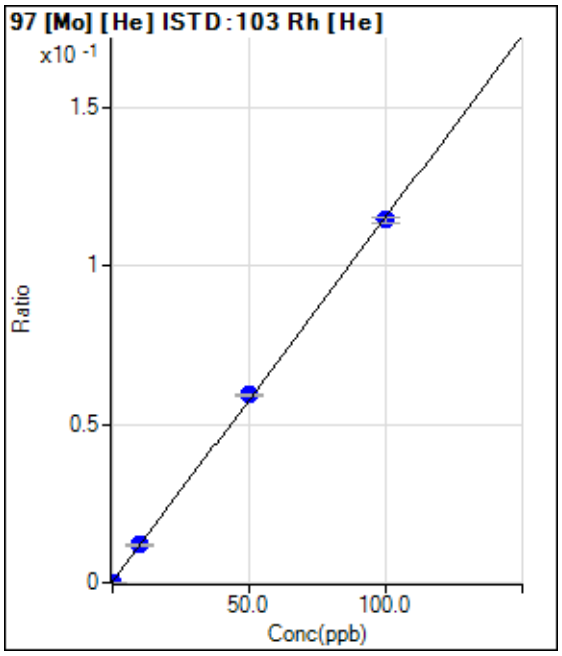
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	695.58	0.0004	P	7.7
2	☐	10.000	10.168	30097.13	0.0186	P	3.6
3	☐	50.000	50.923	143084.08	0.0914	P	2.2
4	☐			2521.33	0.0016	P	15.9
5	☐	100.000	99.522	299628.89	0.1782	P	1.6

y = 0.0018 * x + 4.2079E-004
R = 0.9999
DL = 0.05472
BEC = 0.2356

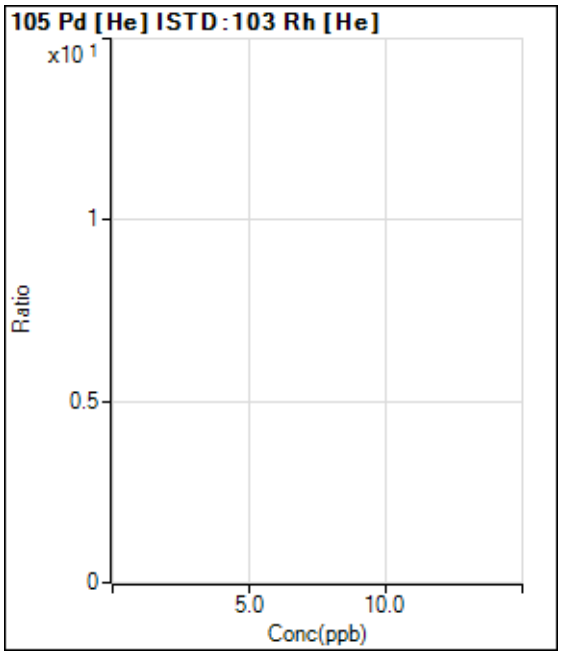
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	448.17	0.0003	P	13.0
2	☐	10.000	10.156	19359.72	0.0119	P	2.2
3	☐	50.000	51.346	92874.07	0.0593	P	1.5
4	☐			1622.38	0.0010	P	10.6
5	☐	100.000	99.312	192497.01	0.1145	P	1.7

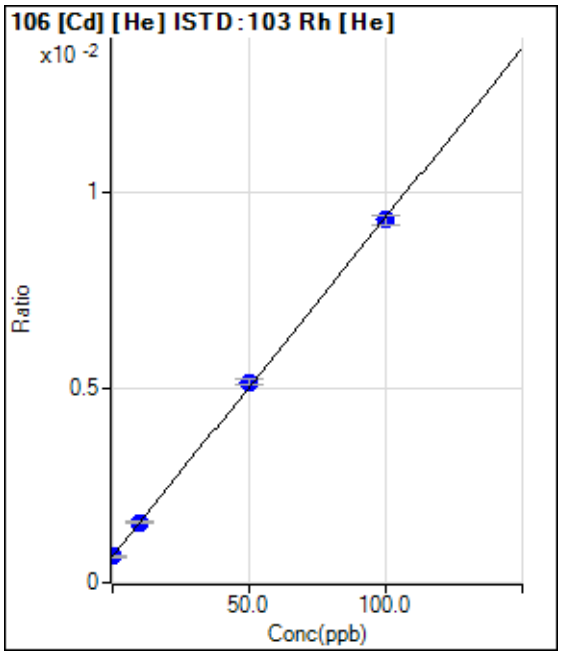
y = 0.0011 * x + 2.7132E-004
R = 0.9998
DL = 0.09188
BEC = 0.236

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1074.17	0.0006	P	10.0
2	☐			1129.73	0.0007	P	8.1
3	☐			1207.51	0.0008	P	1.9
4	☐			1211.22	0.0008	P	9.5
5	☐			1148.24	0.0007	P	17.2

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1110.48	0.0007	P	5.6
2	☐	10.000	9.930	2485.04	0.0015	P	2.7
3	☐	50.000	51.420	8043.97	0.0051	P	2.8
4	☐	100.000	99.297	14462.92	0.0093	P	2.8
5	☐			1160.99	0.0007	P	7.5

y = 8.6849E-005 * x + 6.7167E-004

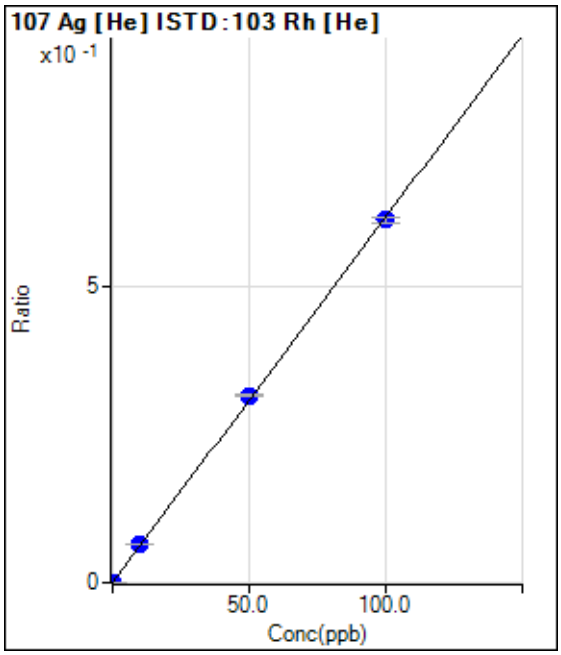
R = 0.9998

DL = 1.297

BEC = 7.734

Weight: <None>

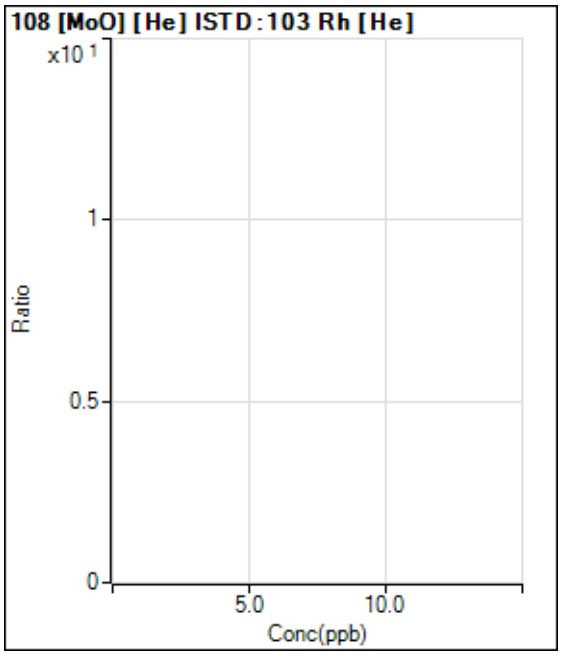
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	36.6
2	☐	10.000	10.371	103935.16	0.0642	P	1.9
3	☐	50.000	51.220	496033.94	0.3168	P	1.1
4	☐	100.000	99.353	956216.56	0.6145	P	1.4
5	☐			237.79	0.0001	P	22.5

y = 0.0062 * x + 1.9521E-005
R = 0.9999
DL = 0.003468
BEC = 0.003157

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.41	0.0000	P	173.2
2	☐			1185.28	0.0007	P	1.7
3	☐			5364.06	0.0034	P	8.5
4	☐			10273.98	0.0066	P	5.8
5	☐			144.45	0.0001	P	34.9

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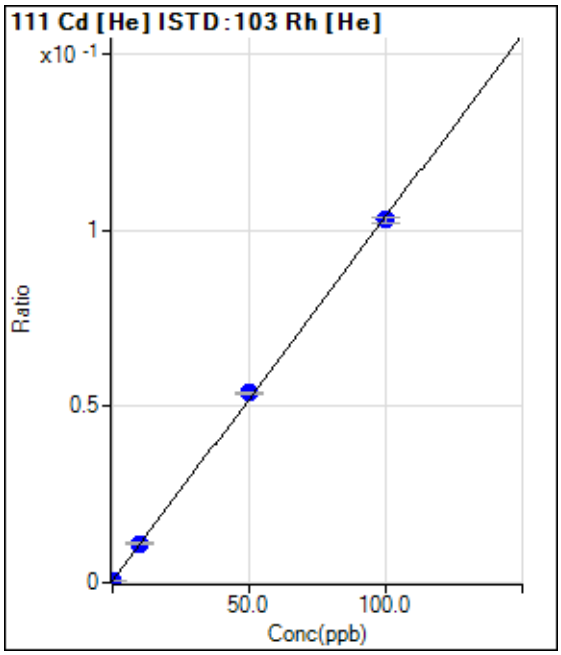
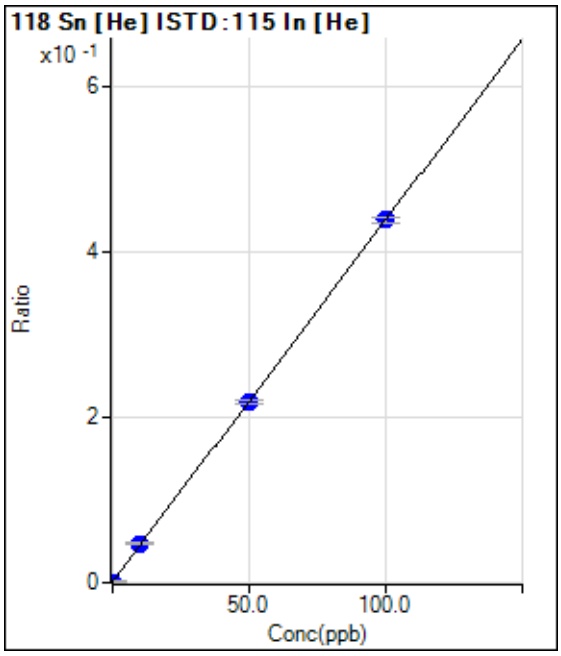


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	850.22	0.0005	P	5.0
2	☐	10.000	10.297	18064.48	0.0112	P	1.5
3	☐	50.000	51.615	84288.22	0.0538	P	1.3
4	☐	100.000	99.163	160190.11	0.1029	P	1.8
5	☐			873.75	0.0005	P	9.7

y = 0.0010 * x + 5.1428E-004
R = 0.9998
DL = 0.07421
BEC = 0.4979

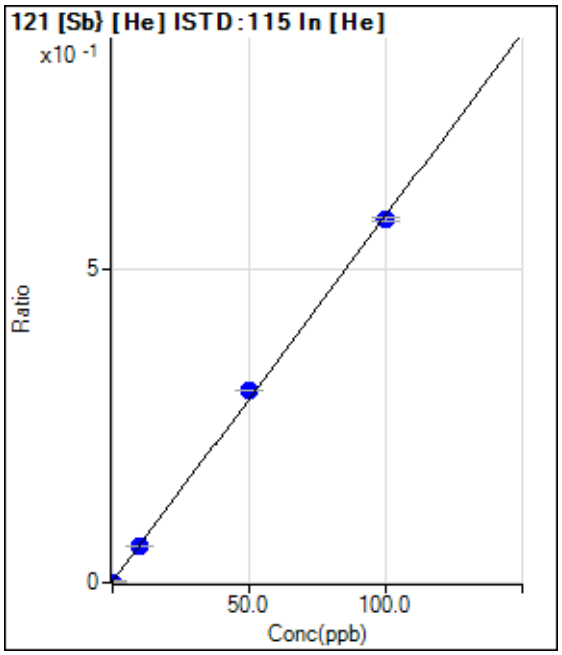
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	863.67	0.0010	P	77.2
2	☐	10.000	10.641	40323.00	0.0476	P	0.8
3	☐	50.000	49.690	179339.46	0.2185	P	2.1
4	☐			1874.27	0.0023	P	11.3
5	☐	100.000	100.091	378485.42	0.4392	P	1.7

y = 0.0044 * x + 0.0010
R = 1.0000
DL = 0.5379
BEC = 0.2323

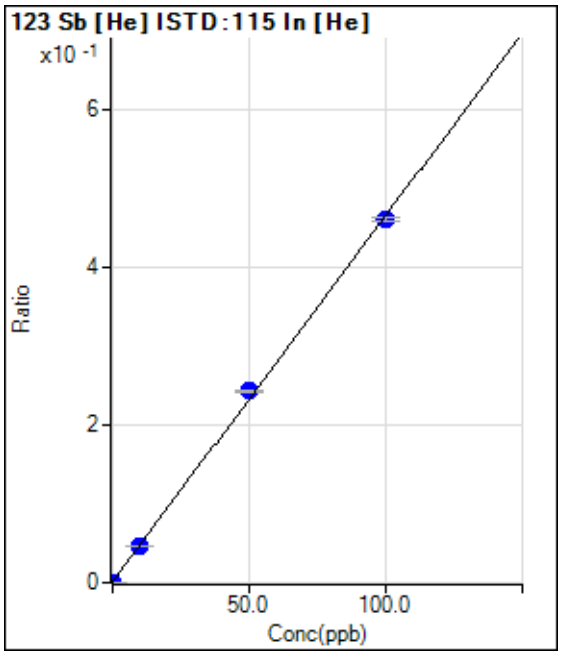
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1270.07	0.0015	P	10.9
2	☐	10.000	9.844	50036.10	0.0591	P	1.9
3	☐	50.000	52.256	252037.16	0.3071	P	0.5
4	☐			2603.57	0.0032	P	4.7
5	☐	100.000	98.888	499688.10	0.5799	P	1.1

y = 0.0058 * x + 0.0015
R = 0.9995
DL = 0.08319
BEC = 0.2546

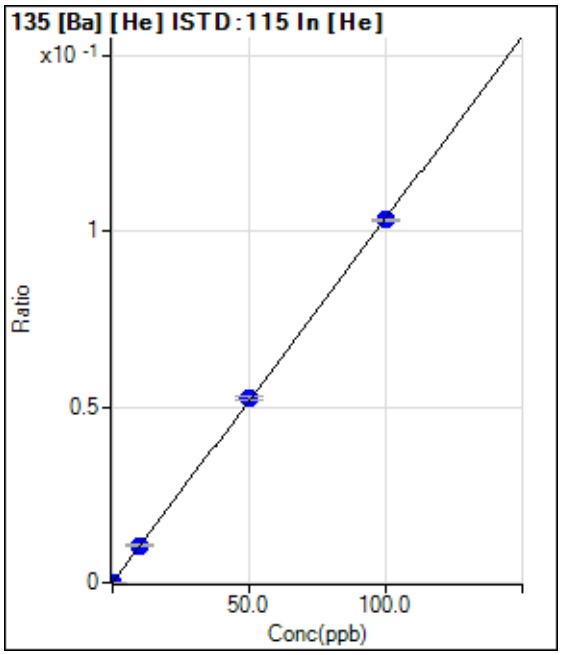
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	897.81	0.0011	P	2.6
2	☐	10.000	9.890	39777.24	0.0470	P	0.1
3	☐	50.000	52.138	199442.64	0.2430	P	0.4
4	☐			2011.26	0.0025	P	5.4
5	☐	100.000	98.942	396610.21	0.4603	P	1.0

y = 0.0046 * x + 0.0011
R = 0.9996
DL = 0.01776
BEC = 0.2269

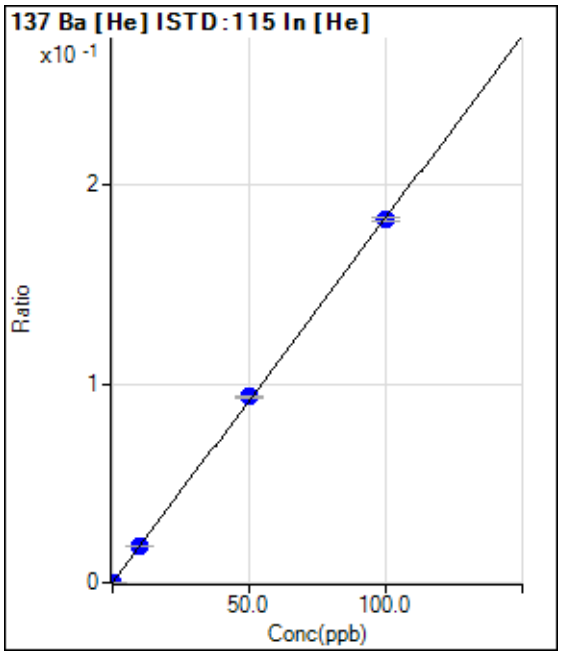
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.45	0.0000	P	27.8
2	☐	10.000	10.268	9028.08	0.0107	P	1.9
3	☐	50.000	50.618	43024.61	0.0524	P	1.6
4	☐	100.000	99.664	84200.88	0.1032	P	0.8
5	☐			46.67	0.0001	P	56.9

y = 0.0010 * x + 2.8640E-005
R = 1.0000
DL = 0.02304
BEC = 0.02767

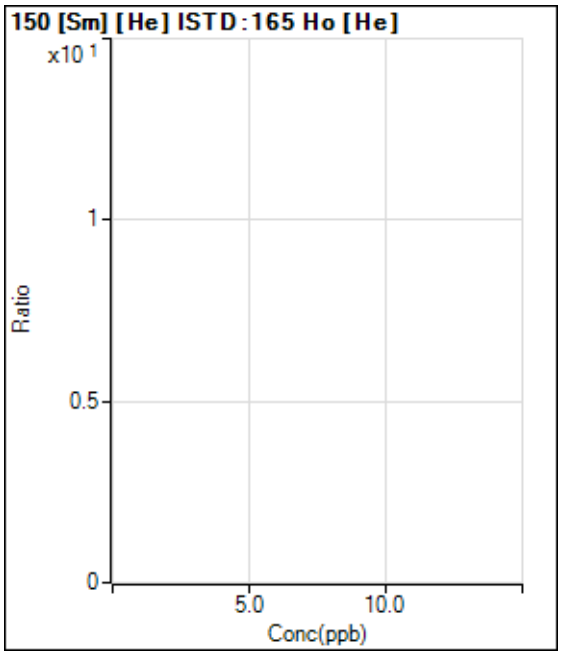
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	42.7
2	☐	10.000	10.158	15805.34	0.0187	P	1.5
3	☐	50.000	50.931	76712.62	0.0935	P	1.3
4	☐	100.000	99.519	149033.97	0.1827	P	0.9
5	☐			108.89	0.0001	P	32.1

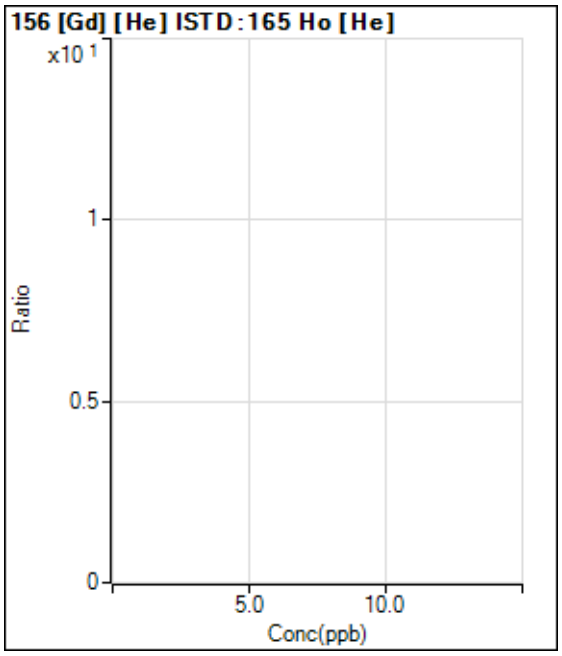
y = 0.0018 * x + 1.5621E-005
R = 0.9999
DL = 0.01092
BEC = 0.008512

Weight: <None>
Min Conc: <None>



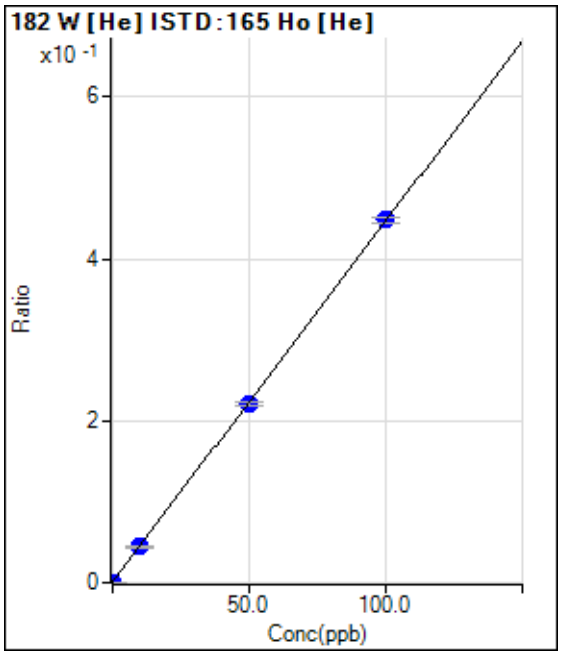
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8.00	0.0000	P	113.8
2	☐			4.67	0.0000	P	98.8
3	☐			7.33	0.0000	P	79.5
4	☐			11.33	0.0000	P	36.4
5	☐			3.33	0.0000	P	91.5

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10.67	0.0000	P	9.4
2	☐			8.00	0.0000	P	49.9
3	☐			12.67	0.0000	P	25.2
4	☐			23.33	0.0000	P	30.7
5	☐			12.00	0.0000	P	57.9

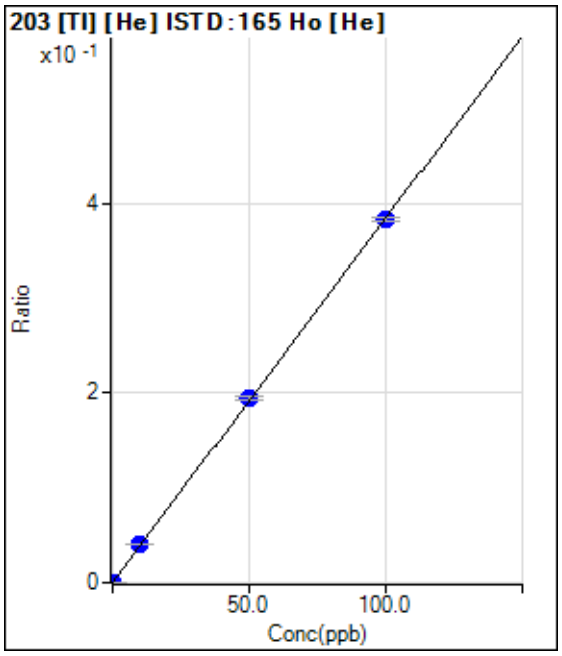
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2685.55	0.0011	P	3.2
2	☐	10.000	9.638	108334.51	0.0440	P	2.5
3	☐	50.000	49.208	537979.96	0.2201	P	1.9
4	☐			11093.20	0.0046	P	14.2
5	☐	100.000	100.432	1115299.47	0.4480	P	1.5

y = 0.0045 * x + 0.0011
R = 0.9999
DL = 0.02365
BEC = 0.246

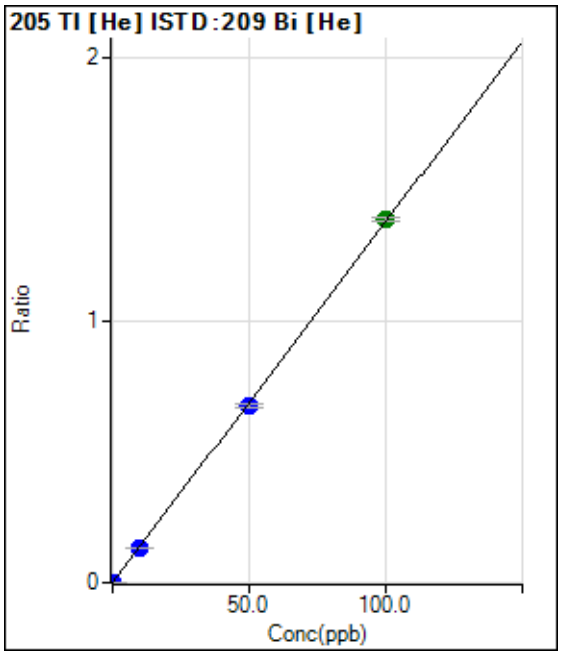
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	159.27	0.0001	P	45.8
2	☐	10.000	10.595	100381.30	0.0408	P	1.6
3	☐	50.000	50.600	475267.21	0.1944	P	1.6
4	☐	100.000	99.641	917907.78	0.3827	P	1.2
5	☐			1437.17	0.0006	P	13.6

y = 0.0038 * x + 6.4689E-005
R = 1.0000
DL = 0.02314
BEC = 0.01684

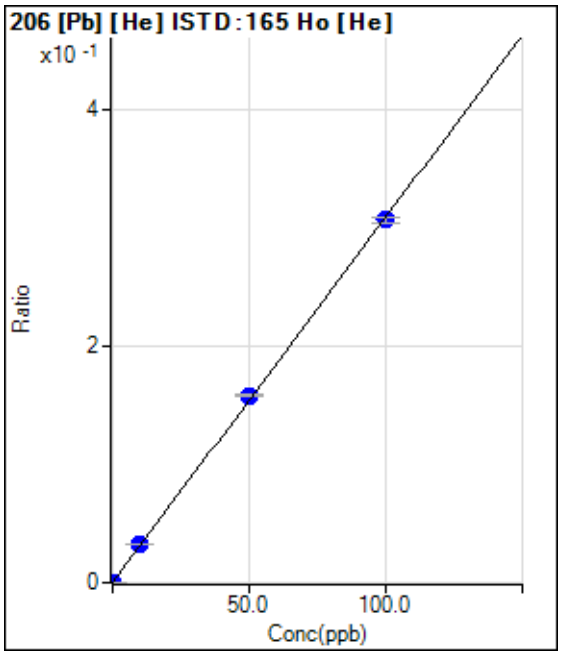
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	396.68	0.0002	P	9.7
2	☐	10.000	9.729	242680.86	0.1341	P	0.8
3	☐	50.000	48.996	1166609.26	0.6747	P	2.1
4	☐	100.000	100.529	2328363.66	1.3841	A	1.0
5	☐			2518.02	0.0014	P	22.6

y = 0.0138 * x + 2.1922E-004
R = 0.9999
DL = 0.004643
BEC = 0.01593

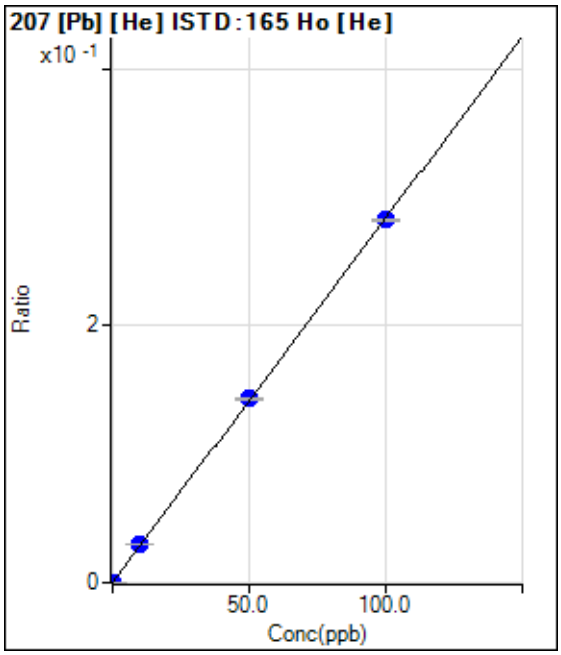
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0001	P	19.9
2	☐	10.000	10.521	80072.52	0.0325	P	0.0
3	☐	50.000	51.141	385419.91	0.1577	P	1.0
4	☐	100.000	99.378	734533.63	0.3063	P	1.3
5	☐			412.23	0.0002	P	10.0

y = 0.0031 * x + 9.4829E-005
R = 0.9999
DL = 0.01842
BEC = 0.03078

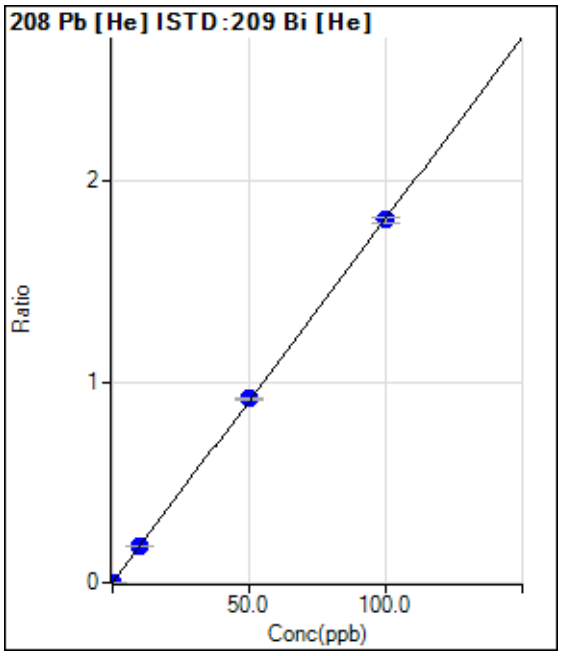
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.89	0.0001	P	7.8
2	☐	10.000	10.526	73731.49	0.0299	P	0.8
3	☐	50.000	50.629	351194.74	0.1437	P	1.2
4	☐	100.000	99.633	677846.48	0.2826	P	0.7
5	☐			367.79	0.0001	P	13.4

y = 0.0028 * x + 8.5230E-005
R = 1.0000
DL = 0.007045
BEC = 0.03006

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	886.69	0.0005	P	8.8
2	☐	10.000	10.055	330383.93	0.1826	P	0.8
3	☐	50.000	50.496	1582566.99	0.9152	P	1.4
4	☐	100.000	99.746	3040136.13	1.8073	P	1.4
5	☐			1635.61	0.0009	P	8.3

y = 0.0181 * x + 4.9001E-004
R = 1.0000
DL = 0.007179
BEC = 0.02705

Weight: <None>
Min Conc: <None>

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	001CALB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:21:26-04:00
Sample Type	CalBlk
Level	
Dilution	1
Comment	6020/200.8

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	37	123.76
B	11	45	2	NoGas	6338	0.08
Na	23	45	1	He	35728	0.00
Mg	24	45	1	He	1037	2.07
Al	27	45	1	He	909	0.27
K	39	45	1	He	65051	0.00
Ca	44	45	1	He	547	2.02
Ti	47	45	1	He	11	412.30
V	51	45	1	He	290	60.25
Cr	52	45	1	He	3050	0.09
Mn	55	45	1	He	188	23.47
Fe	56	45	1	He	16236	0.13
Co	59	103	1	He	39	12.71
Ni	60	103	1	He	81	7.74
Cu	63	103	1	He	2405	0.10
Zn	66	103	1	He	816	1.33
As	75	103	1	He	174	9.30
Se	78	103	1	He	33	44.40
Sr	88	103	1	He	134	17.13
Mo	95	103	1	He	6436	0.49
Ag	107	103	1	He	17	432.78
Cd	111	103	1	He	841	0.32
Sn	118	115	1	He	722	2.40
Sb	123	115	1	He	1014	1.04
Ba	137	115	1	He	27	214.81
W	182	165	1	He	2937	0.31
Tl	205	209	1	He	424	1.68
Pb	208	209	1	He	887	1.20

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	1769055	1.62
Sc	45	1	He	573396	0.75
Sc	45	2	NoGas	4318826	0.63
Rh	103	1	He	1618667	1.87
In	115	1	He	840916	0.36
Tb	159	1	He	2408243	0.83
Ho	165	1	He	2439408	1.85
Bi	209	1	He	1797343	2.47

Calibration Blank Report

Sample Table

Sample Name	ICIS
Data File Name	002CALB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:25:17-04:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	4	4677.00
B	11	45	2	NoGas	5846	0.13
Na	23	45	1	He	33509	0.02
Mg	24	45	1	He	926	0.33
Al	27	45	1	He	749	0.55
K	39	45	1	He	64779	0.00
Ca	44	45	1	He	575	0.82
Ti	47	45	1	He	1	15604.06
V	51	45	1	He	265	68.20
Cr	52	45	1	He	3008	0.15
Mn	55	45	1	He	168	6.52
Fe	56	45	1	He	6091	0.07
Co	59	103	1	He	54	67.79
Ni	60	103	1	He	96	58.68
Cu	63	103	1	He	2489	0.19
Zn	66	103	1	He	848	1.26
As	75	103	1	He	197	4.93
Se	78	103	1	He	30	52.45
Sr	88	103	1	He	142	14.77
Mo	95	103	1	He	696	1.17
Ag	107	103	1	He	32	112.75
Cd	111	103	1	He	850	0.70
Sn	118	115	1	He	864	8.85
Sb	123	115	1	He	898	0.35
Ba	137	115	1	He	13	324.76
W	182	165	1	He	2686	0.17
Tl	205	209	1	He	397	2.23
Pb	208	209	1	He	887	0.91

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	1803797	1.24
Sc	45	1	He	574766	0.80
Sc	45	2	NoGas	4296857	0.28
Rh	103	1	He	1652712	0.98
In	115	1	He	852389	0.75
Tb	159	1	He	2425956	1.35
Ho	165	1	He	2452680	1.70
Bi	209	1	He	1810473	1.35

Calibration Standard Report

Sample Table

Sample Name	STD1-1906323
Data File Name	003CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:29:07-04:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	54361	0.01
B	11	2	NoGas	42104	0.01
Na	23	1	He	8305774	0.00
Mg	24	1	He	4722367	0.00
Al	27	1	He	25975	0.00
K	39	1	He	3730768	0.00
Ca	44	1	He	188855	0.00
Ti	47	1	He	2225	0.06
V	51	1	He	59299	0.00
Cr	52	1	He	76509	0.00
Mn	55	1	He	255893	0.00
Fe	56	1	He	16713659	0.00
Co	59	1	He	106200	0.00
Ni	60	1	He	27566	0.01
Cu	63	1	He	75328	0.00
Zn	66	1	He	15620	0.01
As	75	1	He	9289	0.00
Se	78	1	He	818	0.41
Sr	88	1	He	54009	0.00
Mo	95	1	He	30097	0.01
Ag	107	1	He	103935	0.00
Cd	111	1	He	18064	0.00
Sn	118	1	He	40323	0.00
Sb	123	1	He	39777	0.00
Ba	137	1	He	15805	0.01
W	182	1	He	108335	0.00
Tl	205	1	He	242681	0.00
Pb	208	1	He	330384	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1829983	1.25	1803797	101.45	30	120	
Sc	45	1	He	588685	2.48	574766	102.42	30	120	
Sc	45	2	NoGas	4298089	0.50	4296857	100.03	30	120	
Rh	103	1	He	1620298	1.28	1652712	98.04	30	120	
In	115	1	He	847101	0.44	852389	99.38	30	120	
Tb	159	1	He	2406371	1.55	2425956	99.19	30	120	
Ho	165	1	He	2463166	0.85	2452680	100.43	30	120	
Bi	209	1	He	1809267	1.68	1810473	99.93	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD2-1904110
Data File Name	004CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:32:55-04:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	264560	0.00
B	11	2	NoGas	185913	0.00
Na	23	1	He	40367946	0.00
Mg	24	1	He	22951103	0.00
Al	27	1	He	118770	0.00
K	39	1	He	17899163	0.00
Ca	44	1	He	934804	0.00
Ti	47	1	He	11311	0.01
V	51	1	He	290945	0.00
Cr	52	1	He	362778	0.00
Mn	55	1	He	1257657	0.00
Fe	56	1	He	82076888	0.00
Co	59	1	He	512381	0.00
Ni	60	1	He	131389	0.00
Cu	63	1	He	350202	0.00
Zn	66	1	He	71190	0.00
As	75	1	He	44516	0.00
Se	78	1	He	3681	0.03
Sr	88	1	He	261429	0.00
Mo	95	1	He	143084	0.00
Ag	107	1	He	496034	0.00
Cd	111	1	He	84288	0.00
Sn	118	1	He	179339	0.00
Sb	123	1	He	199443	0.00
Ba	137	1	He	76713	0.00
W	182	1	He	537980	0.00
Tl	205	1	He	1166609	0.00
Pb	208	1	He	1582567	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1782194	1.59	1803797	98.80	30	120	
Sc	45	1	He	597813	4.04	574766	104.01	30	120	
Sc	45	2	NoGas	4333353	0.11	4296857	100.85	30	120	
Rh	103	1	He	1565924	0.54	1652712	94.75	30	120	
In	115	1	He	820616	0.59	852389	96.27	30	120	
Tb	159	1	He	2383880	1.20	2425956	98.27	30	120	
Ho	165	1	He	2444895	1.41	2452680	99.68	30	120	
Bi	209	1	He	1729560	1.96	1810473	95.53	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD3-1906333
Data File Name	005CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:36:43-04:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	552759	0.00
B	11	2	NoGas	8795	0.03
Na	23	1	He	78687391	0.00
Mg	24	1	He	44543324	0.00
Al	27	1	He	233036	0.00
K	39	1	He	35133649	0.00
Ca	44	1	He	1878505	0.00
Ti	47	1	He	23	212.03
V	51	1	He	568327	0.00
Cr	52	1	He	698462	0.00
Mn	55	1	He	2467533	0.00
Fe	56	1	He	159363620	0.00
Co	59	1	He	986452	0.00
Ni	60	1	He	250363	0.00
Cu	63	1	He	671068	0.00
Zn	66	1	He	136960	0.00
As	75	1	He	86504	0.00
Se	78	1	He	7179	0.01
Sr	88	1	He	515085	0.00
Mo	95	1	He	2521	0.71
Ag	107	1	He	956217	0.00
Cd	111	1	He	160190	0.00
Sn	118	1	He	1874	0.59
Sb	123	1	He	2011	0.25
Ba	137	1	He	149034	0.00
W	182	1	He	11093	0.12
Tl	205	1	He	2328364	0.00
Pb	208	1	He	3040136	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1742538	0.95	1803797	96.60	30	120	
Sc	45	1	He	589733	2.32	574766	102.60	30	120	
Sc	45	2	NoGas	4352110	1.80	4296857	101.29	30	120	
Rh	103	1	He	1556491	2.05	1652712	94.18	30	120	
In	115	1	He	815923	0.48	852389	95.72	30	120	
Tb	159	1	He	2370842	0.83	2425956	97.73	30	120	
Ho	165	1	He	2398505	0.81	2452680	97.79	30	120	
Bi	209	1	He	1682429	1.64	1810473	92.93	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD4-1906536
Data File Name	006CALS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:40:29-04:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	104	15.78
B	11	2	NoGas	350464	0.00
Na	23	1	He	51451	0.02
Mg	24	1	He	6954	0.32
Al	27	1	He	2339	0.24
K	39	1	He	74501	0.00
Ca	44	1	He	1412	0.38
Ti	47	1	He	22495	0.00
V	51	1	He	584	16.75
Cr	52	1	He	3164	0.10
Mn	55	1	He	780	2.96
Fe	56	1	He	156745	0.02
Co	59	1	He	173	17.61
Ni	60	1	He	251	3.97
Cu	63	1	He	3063	0.09
Zn	66	1	He	2757	0.05
As	75	1	He	179	4.46
Se	78	1	He	34	39.14
Sr	88	1	He	149	10.88
Mo	95	1	He	299629	0.00
Ag	107	1	He	238	9.44
Cd	111	1	He	874	1.11
Sn	118	1	He	378485	0.00
Sb	123	1	He	396610	0.00
Ba	137	1	He	109	30.06
W	182	1	He	1115299	0.00
Tl	205	1	He	2518	0.93
Pb	208	1	He	1636	0.55

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1809459	1.04	1803797	100.31	30	120	
Sc	45	1	He	595610	3.05	574766	103.63	30	120	
Sc	45	2	NoGas	4264431	0.55	4296857	99.25	30	120	
Rh	103	1	He	1681733	0.43	1652712	101.76	30	120	
In	115	1	He	861710	0.74	852389	101.09	30	120	
Tb	159	1	He	2422877	0.68	2425956	99.87	30	120	
Ho	165	1	He	2489281	0.34	2452680	101.49	30	120	
Bi	209	1	He	1820015	0.70	1810473	100.53	30	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV-1905741
Data File Name	007_ICV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:44:19-04:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	NoGas	40.965	1.605	230876	0.61	40	102.4	89.5	110.5	
B	11	45	NoGas	45.370	1.287	170418	0.84	40	113.4	89.5	110.5	ICV Failed
Na	23	45	He	20795.316	1.676	33581053	0.97	20000	104.0	89.5	110.5	
Mg	24	45	He	20805.660	1.284	19031299	0.73	20000	104.0	89.5	110.5	
Al	27	45	He	206.303	1.209	98922	0.83	200	103.2	89.5	110.5	
K	39	45	He	20829.253	2.095	15024729	1.62	20000	104.1	89.5	110.5	
Ca	44	45	He	20086.972	0.584	769535	0.35	20000	100.4	89.5	110.5	
Ti	47	45	He	42.257	2.065	9633	1.51	40	105.6	89.5	110.5	
V	51	45	He	41.190	1.421	240167	1.89	40	103.0	89.5	110.5	
Cr	52	45	He	41.828	0.567	301986	0.57	40	104.6	89.5	110.5	
Mn	55	45	He	205.489	0.544	1038796	0.43	200	102.7	89.5	110.5	
Fe	56	45	He	10360.675	0.701	67794453	0.55	10000	103.6	89.5	110.5	
Co	59	103	He	40.900	1.658	420531	1.12	40	102.2	89.5	110.5	
Ni	60	103	He	42.303	2.218	110687	1.78	40	105.8	89.5	110.5	
Cu	63	103	He	41.961	0.491	295006	0.53	40	104.9	89.5	110.5	
Zn	66	103	He	42.373	0.631	60907	0.36	40	105.9	89.5	110.5	
As	75	103	He	38.994	0.557	35189	0.15	40	97.5	89.5	110.5	
Se	78	103	He	42.244	1.122	3168	1.52	40	105.6	89.5	110.5	
Sr	88	103	He	41.708	0.268	222908	0.29	40	104.3	89.5	110.5	
Mo	95	103	He	42.867	1.729	124048	2.03	40	107.2	89.5	110.5	
Ag	107	103	He	41.783	1.228	416376	0.77	40	104.5	89.5	110.5	
Cd	111	103	He	41.701	0.762	70231	0.34	40	104.3	89.5	110.5	
Sn	118	115	He	40.842	0.285	152100	0.48	40	102.1	89.5	110.5	
Sb	123	115	He	38.278	1.488	151174	1.90	40	95.7	89.5	110.5	
Ba	137	115	He	41.258	0.589	64062	1.06	40	103.1	89.5	110.5	
W	182	165	He	38.736	1.039	437847	1.42	40	96.8	89.5	110.5	
Tl	205	209	He	38.983	2.080	976920	0.35	40	97.5	89.5	110.5	
Pb	208	209	He	40.332	2.151	1330335	0.42	40	100.8	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	NoGas	1800589	1.38	1803797	99.82	30	120	
Sc	45	He	603000	0.88	574766	104.91	30	120	
Sc	45	NoGas	4456082	1.67	4296857	103.71	30	120	
Rh	103	He	1611284	0.55	1652712	97.49	30	120	
In	115	He	845874	0.48	852389	99.24	30	120	
Tb	159	He	2454423	0.98	2425956	101.17	30	120	
Ho	165	He	2523947	0.68	2452680	102.91	30	120	
Bi	209	He	1820352	2.42	1810473	100.55	30	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	008_ICB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:48:07-04:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Ti	47	1	He	0.065	24.4	16	24.8	20	
W	182	1	He	0.924	11.0	13332	10.3	10	
Ca	44	1	He	0.873	218.1	621	13.4	1000	
Na	23	1	He	4.822	52.2	41774	7.3	400	
Mg	24	1	He	2.282	33.9	2971	21.1	1000	
K	39	1	He	8.026	24.2	71820	0.7	1000	
V	51	1	He	0.011	694.5	327	126.7	2	
Cr	52	1	He	-0.008	-186.6	3019	4.9	2	
Mn	55	1	He	0.044	22.4	387	12.1	2	
Fe	56	1	He	12.742	33.3	87092	28.9	50	
Co	59	1	He	0.002	52.7	73	12.0	1	
Ni	60	1	He	-0.003	-101.0	91	8.4	2	
Cu	63	1	He	-0.011	-34.5	2474	1.7	2	
Zn	66	1	He	-0.093	-30.3	731	6.3	20	
As	75	1	He	-0.005	-387.9	197	10.1	2	
Se	78	1	He	-0.097	-41.0	23	13.6	2	
Sr	88	1	He	0.003	181.8	162	17.7	10	
Mo	95	1	He	0.603	22.7	2538	16.4	2	
Ag	107	1	He	0.004	63.6	76	35.9	0.2	
Cd	111	1	He	0.020	121.9	907	4.1	0.2	
Ba	137	1	He	0.016	64.1	40	41.7	5	
Sn	118	1	He	0.339	5.3	2222	3.1	10	
Tl	205	1	He	0.031	18.5	1207	11.7	0.5	
Pb	208	1	He	0.008	64.2	1199	14.3	1	
Al	27	1	He	3.511	6.7	2394	5.8	50	
Sb	123	1	He	1.144	17.4	5658	14.7	1	ICB Failed
B	11	2	NoGas	1.720	6.6	12575	2.8	20	
Be	9	2	NoGas	0.004	89.8	30	78.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1875044	0.26	1803797	103.95	30	120	
Sc	45	1	He	587571	2.16	574766	102.23	30	120	
Sc	45	2	NoGas	4558911	0.87	4296857	106.10	30	120	
Rh	103	1	He	1694640	0.62	1652712	102.54	30	120	
In	115	1	He	888773	0.18	852389	104.27	30	120	

Tb	159	1	He	2511691	0.78	2425956	103.53	30	120	
Ho	165	1	He	2559212	1.70	2452680	104.34	30	120	
Bi	209	1	He	1878525	0.79	1810473	103.76	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	XCRI-1912660
Data File Name	009CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:51:57-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.771	0.771	8.192	4527	7.19	1	77.1	69.5	130.5	
B	11	2	NoGas	18.995	18.995	2.194	75449	1.05	20	95.0	69.5	130.5	
Na	23	1	He	1093.029	1093.029	1.599	1826107	0.45	1000	109.3	69.5	130.5	
Mg	24	1	He	1082.098	1082.098	1.201	1006047	0.90	1000	108.2	69.5	130.5	
Al	27	1	He	53.980	53.980	0.349	26874	1.50	50	108.0	69.5	130.5	
K	39	1	He	1063.572	1063.572	1.618	844506	0.57	1000	106.4	69.5	130.5	
Ca	44	1	He	1035.093	1035.093	2.574	40846	2.22	1000	103.5	69.5	130.5	
Ti	47	1	He	10.408	10.408	1.427	2410	1.23	10	104.1	69.5	130.5	
V	51	1	He	5.416	5.416	0.762	32315	2.45	5	108.3	69.5	130.5	
Cr	52	1	He	2.110	2.110	2.464	18516	3.10	2	105.5	69.5	130.5	
Mn	55	1	He	5.267	5.267	4.091	27202	2.79	5	105.3	69.5	130.5	
Fe	56	1	He	107.243	107.243	0.986	719018	1.36	100	107.2	69.5	130.5	
Co	59	1	He	1.021	1.021	0.322	11297	0.68	1	102.1	69.5	130.5	
Ni	60	1	He	2.107	2.107	2.881	5997	1.97	2	105.3	69.5	130.5	
Cu	63	1	He	2.054	2.054	3.254	17935	1.84	2	102.7	69.5	130.5	
Zn	66	1	He	21.027	21.027	2.084	32806	1.15	20	105.1	69.5	130.5	
As	75	1	He	5.004	5.004	4.785	5013	3.64	5	100.1	69.5	130.5	
Se	78	1	He	5.008	5.008	4.359	429	3.40	5	100.2	69.5	130.5	
Sr	88	1	He	9.826	9.826	2.542	56338	1.94	10	98.3	69.5	130.5	
Mo	95	1	He	10.346	10.346	2.664	32603	1.68	10	103.5	69.5	130.5	
Ag	107	1	He	1.031	1.031	0.360	11033	1.36	1	103.1	69.5	130.5	
Cd	111	1	He	1.035	1.035	4.114	2731	2.65	1	103.5	69.5	130.5	
Sn	118	1	He	9.741	9.741	2.572	39053	2.48	10	97.4	69.5	130.5	
Sb	123	1	He	2.255	2.255	3.570	10303	3.19	2	112.7	69.5	130.5	
Ba	137	1	He	5.125	5.125	2.006	8427	2.05	5	102.5	69.5	130.5	
W	182	1	He	9.909	9.909	3.027	115587	2.36	10	99.1	69.5	130.5	
Tl	205	1	He	1.945	1.945	0.449	51140	1.06	2	97.2	69.5	130.5	
Pb	208	1	He	1.018	1.018	1.354	35872	0.29	1	101.8	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1875342	1.04	1803797	103.97	30	120	
Sc	45	1	He	612363	1.84	574766	106.54	30	120	
Sc	45	2	NoGas	4491024	2.03	4296857	104.52	30	120	
Rh	103	1	He	1725327	1.00	1652712	104.39	30	120	
In	115	1	He	894477	0.07	852389	104.94	30	120	
Tb	159	1	He	2490587	1.23	2425956	102.66	30	120	
Ho	165	1	He	2558230	1.23	2452680	104.30	30	120	
Bi	209	1	He	1894755	1.09	1810473	104.66	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	010CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:55:45-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.864	0.864	5.977	5034	6.10	1	86.4	69.5	130.5	
B	11	2	NoGas	20.277	20.277	2.601	80459	1.70	20	101.4	69.5	130.5	
Na	23	1	He	1082.374	1082.374	0.735	1797738	0.80	1000	108.2	69.5	130.5	
Mg	24	1	He	1076.324	1076.324	0.629	994587	0.63	1000	107.6	69.5	130.5	
Al	27	1	He	50.620	50.620	0.625	25097	1.71	50	101.2	69.5	130.5	
K	39	1	He	1051.718	1051.718	1.760	830739	0.51	1000	105.2	69.5	130.5	
Ca	44	1	He	1018.514	1018.514	1.269	39955	0.22	1000	101.9	69.5	130.5	
Ti	47	1	He	10.517	10.517	2.873	2420	1.81	10	105.2	69.5	130.5	
V	51	1	He	5.259	5.259	0.958	31192	1.97	5	105.2	69.5	130.5	
Cr	52	1	He	2.144	2.144	1.472	18645	1.06	2	107.2	69.5	130.5	
Mn	55	1	He	5.314	5.314	1.742	27286	2.19	5	106.3	69.5	130.5	
Fe	56	1	He	106.639	106.639	0.703	710614	0.70	100	106.6	69.5	130.5	
Co	59	1	He	1.052	1.052	2.449	11483	1.39	1	105.2	69.5	130.5	
Ni	60	1	He	2.078	2.078	2.089	5841	1.05	2	103.9	69.5	130.5	
Cu	63	1	He	2.029	2.029	1.801	17513	0.52	2	101.4	69.5	130.5	
Zn	66	1	He	20.233	20.233	1.286	31193	0.58	20	101.2	69.5	130.5	
As	75	1	He	4.959	4.959	2.001	4907	0.88	5	99.2	69.5	130.5	
Se	78	1	He	5.265	5.265	6.605	444	5.39	5	105.3	69.5	130.5	
Sr	88	1	He	9.777	9.777	1.164	55338	0.12	10	97.8	69.5	130.5	
Mo	95	1	He	10.532	10.532	1.755	32749	0.90	10	105.3	69.5	130.5	
Ag	107	1	He	1.054	1.054	1.797	11136	0.75	1	105.4	69.5	130.5	
Cd	111	1	He	1.039	1.039	2.111	2704	1.60	1	103.9	69.5	130.5	
Sn	118	1	He	9.889	9.889	3.545	39146	3.47	10	98.9	69.5	130.5	
Sb	123	1	He	2.061	2.061	4.285	9379	3.53	2	103.0	69.5	130.5	
Ba	137	1	He	4.979	4.979	0.821	8088	1.06	5	99.6	69.5	130.5	
W	182	1	He	10.116	10.116	3.077	116750	1.53	10	101.2	69.5	130.5	
Tl	205	1	He	1.953	1.953	2.828	50895	1.09	2	97.7	69.5	130.5	
Pb	208	1	He	1.046	1.046	4.419	36473	2.44	1	104.6	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1860202	0.65	1803797	103.13	30	120	
Sc	45	1	He	608582	1.25	574766	105.88	30	120	
Sc	45	2	NoGas	4508914	0.75	4296857	104.94	30	120	
Rh	103	1	He	1703021	1.04	1652712	103.04	30	120	
In	115	1	He	883492	0.34	852389	103.65	30	120	
Tb	159	1	He	2493784	1.34	2425956	102.80	30	120	
Ho	165	1	He	2532687	1.51	2452680	103.26	30	120	
Bi	209	1	He	1878254	1.91	1810473	103.74	30	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA-1912681
Data File Name	011ICSA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T10:59:37-04:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.012	29.7	67	28.9	1	
B	11	45	2	NoGas	0.906	11.2	8680	4.1	20	
Na	23	45	1	He	48899.721	4.6	75663828	0.5	75200	
Mg	24	45	1	He	49308.370	4.8	43237583	0.3	75200	
Al	27	45	1	He	47667.175	4.6	21739361	0.5	75200	
K	39	45	1	He	49452.379	3.4	34125213	1.8	75200	
Ca	44	45	1	He	49074.734	5.0	1801510	1.6	75200	
Ti	47	45	1	He	989.188	4.1	216202	1.0	1505	
V	51	45	1	He	0.029	572.9	407	217.6	4	
Cr	52	45	1	He	0.665	8.6	7581	1.4	4	
Mn	55	45	1	He	0.357	5.7	1900	0.8	4	
Fe	56	45	1	He	49432.637	4.4	310102370	1.0	75200	
Co	59	103	1	He	0.026	5.1	286	3.8	2	
Ni	60	103	1	He	0.115	13.4	356	11.3	4	
Cu	63	103	1	He	0.336	1.9	4308	2.1	4	
Zn	66	103	1	He	1.015	5.6	2045	2.7	10	
As	75	103	1	He	0.061	84.5	223	19.1	4	
Se	78	103	1	He	0.085	145.4	32	26.1	4	
Sr	88	103	1	He	0.336	7.2	1746	8.1	20	
Mo	95	103	1	He	1074.771	2.6	2792445	2.7	1505	
Ag	107	103	1	He	0.008	11.0	97	6.9	1	
Cd	111	103	1	He	0.119	46.7	926	7.6	1	
Sn	118	115	1	He	0.320	15.4	1919	9.0	20	
Sb	123	115	1	He	0.218	11.6	1638	5.6	1	
Ba	137	115	1	He	0.060	28.6	100	25.2	2	
W	182	165	1	He	0.275	14.5	5583	7.3	20	
Tl	205	209	1	He	0.003	122.8	422	18.2	1	
Pb	208	209	1	He	0.100	1.4	3779	0.5	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1663903	0.65	1803797	92.24	30	120	
Sc	45	1	He	579008	5.21	574766	100.74	30	120	
Sc	45	2	NoGas	4139083	1.16	4296857	96.33	30	120	
Rh	103	1	He	1454480	1.71	1652712	88.01	30	120	
In	115	1	He	793250	0.23	852389	93.06	30	120	
Tb	159	1	He	2331791	1.13	2425956	96.12	30	120	
Ho	165	1	He	2408673	0.72	2452680	98.21	30	120	
Bi	209	1	He	1643463	0.67	1810473	90.78	30	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB-1883162
Data File Name	012ICAB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:04:36-04:00
Sample Type	ICSAB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	2	NoGas	110.524	2.123	576296	1.96	100	110.5	79.5	120.5	
B	11	45	2	NoGas	116.481	0.645	397951	2.23	100	116.5	79.5	120.5	
Na	23	45	1	He	49722.182	5.040	76840101	0.60	50000	99.4	79.5	120.5	
Mg	24	45	1	He	49742.960	4.510	43576156	0.77	50000	99.5	79.5	120.5	
Al	27	45	1	He	47833.884	4.121	21794703	0.39	50000	95.7	79.5	120.5	
K	39	45	1	He	49467.828	4.942	34081673	1.30	50000	98.9	79.5	120.5	
Ca	44	45	1	He	50012.837	3.861	1834470	1.19	50000	100.0	79.5	120.5	
Ti	47	45	1	He	1097.078	4.668	239473	0.49	1100	99.7	79.5	120.5	
V	51	45	1	He	100.543	4.525	561018	0.06	100	100.5	79.5	120.5	
Cr	52	45	1	He	101.480	4.748	697295	0.35	100	101.5	79.5	120.5	
Mn	55	45	1	He	100.102	4.137	484761	0.34	100	100.1	79.5	120.5	
Fe	56	45	1	He	49899.187	4.385	312681570	0.10	50000	99.8	79.5	120.5	
Co	59	103	1	He	104.365	1.568	985989	0.78	100	104.4	79.5	120.5	
Ni	60	103	1	He	104.976	1.513	252277	0.58	100	105.0	79.5	120.5	
Cu	63	103	1	He	103.575	1.497	665828	0.46	100	103.6	79.5	120.5	
Zn	66	103	1	He	105.734	1.910	138514	1.02	100	105.7	79.5	120.5	
As	75	103	1	He	104.869	1.344	86662	0.31	100	104.9	79.5	120.5	
Se	78	103	1	He	106.356	1.587	7288	0.74	100	106.4	79.5	120.5	
Sr	88	103	1	He	105.046	1.778	515656	0.87	100	105.0	79.5	120.5	
Mo	95	103	1	He	1187.610	1.129	3141395	1.54	1100	108.0	79.5	120.5	
Ag	107	103	1	He	103.004	1.433	943145	0.42	100	103.0	79.5	120.5	
Cd	111	103	1	He	105.831	1.518	162609	0.90	100	105.8	79.5	120.5	
Sn	118	115	1	He	100.152	1.437	350361	1.33	100	100.2	79.5	120.5	
Sb	123	115	1	He	106.343	1.013	394335	0.85	100	106.3	79.5	120.5	
Ba	137	115	1	He	103.974	0.508	152144	0.33	100	104.0	79.5	120.5	
W	182	165	1	He	99.019	1.407	1077620	0.14	100	99.0	79.5	120.5	
Tl	205	209	1	He	102.342	1.354	2397189	1.53	100	102.3	79.5	120.5	
Pb	208	209	1	He	102.533	1.387	3160447	0.70	100	102.5	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1665825	1.58	1803797	92.35	30	120	
Sc	45	1	He	578252	4.55	574766	100.61	30	120	
Sc	45	2	NoGas	4142398	2.04	4296857	96.41	30	120	
Rh	103	1	He	1480677	1.04	1652712	89.59	30	120	
In	115	1	He	797267	0.18	852389	93.53	30	120	
Tb	159	1	He	2355384	0.55	2425956	97.09	30	120	
Ho	165	1	He	2439765	1.31	2452680	99.47	30	120	
Bi	209	1	He	1701344	0.79	1810473	93.97	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	013_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:08:20-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.225	2.425	261374	2.81	50	96.5	89.5	110.5	
B	11	45	2	NoGas	53.743	2.374	191061	3.04	50	107.5	89.5	110.5	
Na	23	45	1	He	25852.707	2.209	40235570	0.86	25000	103.4	89.5	110.5	
Mg	24	45	1	He	26017.402	2.763	22937867	0.58	25000	104.1	89.5	110.5	
Al	27	45	1	He	259.046	2.219	119536	0.40	250	103.6	89.5	110.5	
K	39	45	1	He	25513.553	2.352	17724977	0.25	25000	102.1	89.5	110.5	
Ca	44	45	1	He	25138.273	2.432	928102	0.21	25000	100.6	89.5	110.5	
Ti	47	45	1	He	52.979	3.785	11638	1.66	50	106.0	89.5	110.5	
V	51	45	1	He	51.610	1.146	290022	1.17	50	103.2	89.5	110.5	
Cr	52	45	1	He	51.995	1.440	361150	1.22	50	104.0	89.5	110.5	
Mn	55	45	1	He	257.081	2.132	1252656	0.44	250	102.8	89.5	110.5	
Fe	56	45	1	He	12931.990	2.048	81566581	0.83	12500	103.5	89.5	110.5	
Co	59	103	1	He	49.813	4.036	510104	0.57	50	99.6	89.5	110.5	
Ni	60	103	1	He	50.118	3.456	130610	0.07	50	100.2	89.5	110.5	
Cu	63	103	1	He	50.242	4.031	351314	0.66	50	100.5	89.5	110.5	
Zn	66	103	1	He	50.821	4.076	72589	0.84	50	101.6	89.5	110.5	
As	75	103	1	He	49.534	3.588	44473	0.44	50	99.1	89.5	110.5	
Se	78	103	1	He	50.456	4.039	3763	1.46	50	100.9	89.5	110.5	
Sr	88	103	1	He	49.815	3.436	265163	0.77	50	99.6	89.5	110.5	
Mo	95	103	1	He	76.495	9.731	219633	6.21	50	153.0	89.5	110.5	CCV Failed
Ag	107	103	1	He	50.853	3.948	504702	0.52	50	101.7	89.5	110.5	
Cd	111	103	1	He	50.776	3.781	84994	0.35	50	101.6	89.5	110.5	
Sn	118	115	1	He	50.506	0.665	184281	0.27	50	101.0	89.5	110.5	
Sb	123	115	1	He	53.192	0.104	205697	0.60	50	106.4	89.5	110.5	
Ba	137	115	1	He	51.332	0.072	78173	0.51	50	102.7	89.5	110.5	
W	182	165	1	He	51.559	0.845	569157	1.00	50	103.1	89.5	110.5	
Tl	205	209	1	He	48.485	0.067	1193984	0.73	50	97.0	89.5	110.5	
Pb	208	209	1	He	50.075	0.673	1622945	0.08	50	100.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1731215	0.41	1803797	95.98	30	120	
Sc	45	1	He	581408	2.33	574766	101.16	30	120	
Sc	45	2	NoGas	4239984	0.73	4296857	98.68	30	120	
Rh	103	1	He	1606171	3.43	1652712	97.18	30	120	
In	115	1	He	829658	0.50	852389	97.33	30	120	
Tb	159	1	He	2438423	1.00	2425956	100.51	30	120	
Ho	165	1	He	2468805	0.49	2452680	100.66	30	120	
Bi	209	1	He	1788372	0.75	1810473	98.78	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	014_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:12:10-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.011	45.9	67	44.1	1	
B	11	45	2	NoGas	1.448	8.4	10763	3.0	20	
Na	23	45	1	He	10.355	20.6	48245	4.6	400	
Mg	24	45	1	He	4.438	36.0	4668	26.9	1000	
Al	27	45	1	He	1.844	25.1	1546	11.3	50	
K	39	45	1	He	14.728	38.1	73084	3.0	1000	
Ca	44	45	1	He	3.764	85.0	696	17.5	1000	
Ti	47	45	1	He	0.256	23.9	56	25.0	20	
V	51	45	1	He	0.019	918.8	356	273.6	2	
Cr	52	45	1	He	0.007	163.4	2985	0.8	2	
Mn	55	45	1	He	0.018	57.5	247	17.6	2	
Fe	56	45	1	He	18.650	27.3	119188	23.9	50	
Co	59	103	1	He	0.007	46.6	131	26.0	1	
Ni	60	103	1	He	0.018	45.6	147	15.9	2	
Cu	63	103	1	He	-0.018	-8.5	2387	0.6	2	
Zn	66	103	1	He	0.027	229.4	898	9.2	20	
As	75	103	1	He	-0.018	-85.1	183	6.5	2	
Se	78	103	1	He	0.008	1158.9	31	23.5	2	
Sr	88	103	1	He	0.005	49.9	173	8.4	10	
Mo	95	103	1	He	4.338	10.2	13662	8.9	2	CCB Failed
Ag	107	103	1	He	0.007	10.3	108	6.4	0.2	
Cd	111	103	1	He	0.008	309.6	874	4.6	0.2	
Sn	118	115	1	He	0.370	18.4	2274	11.4	10	
Sb	123	115	1	He	0.273	4.9	2001	2.9	1	
Ba	137	115	1	He	0.011	47.1	31	27.0	5	
W	182	165	1	He	1.086	19.9	14745	15.6	10	
Tl	205	209	1	He	0.050	19.8	1681	14.6	0.5	
Pb	208	209	1	He	0.011	45.1	1273	12.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1788417	2.49	1803797	99.15	30	120	
Sc	45	1	He	561517	2.03	574766	97.69	30	120	
Sc	45	2	NoGas	4242354	1.28	4296857	98.73	30	120	
Rh	103	1	He	1673248	1.10	1652712	101.24	30	120	
In	115	1	He	863146	0.38	852389	101.26	30	120	
Tb	159	1	He	2456728	0.96	2425956	101.27	30	120	
Ho	165	1	He	2490020	0.60	2452680	101.52	30	120	
Bi	209	1	He	1853457	0.91	1810473	102.37	30	120	

Sample Report

Sample Table

Sample Name	LIN 2
Data File Name	015SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:16:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.061	3.061	1.93	17012	0.02	10000	
B	11	45	2	NoGas	11.858	11.858	2.28	50121	0.02	300	
Na	23	45	1	He	120.183	120.183	2.78	243944	0.05	500000	
Mg	24	45	1	He	7435.125	7435.125	1.43	7245908	0.10	500000	
Al	27	45	1	He	38687.656	38687.656	2.30	19602610	0.20	200000	
K	39	45	1	He	3184.621	3184.621	0.69	2508724	0.13	500000	
Ca	44	45	1	He	628.842	628.842	4.34	26275	2.39	500000	
Ti	47	45	1	He	329.204	329.204	0.97	79940	0.41	2500	
V	51	45	1	He	110.212	110.212	1.29	684071	0.02	10000	
Cr	52	45	1	He	94.299	94.299	1.62	720992	0.01	10000	
Mn	55	45	1	He	7717.550	7717.550	1.56	41554453	0.02	10000	
Fe	56	45	1	He	195732.989	195732.989	2.33	1364036035	0.01	200000	
Co	59	103	1	He	60.540	60.540	1.43	633251	0.01	10000	
Ni	60	103	1	He	91.634	91.634	1.25	243825	0.04	10000	
Cu	63	103	1	He	60.839	60.839	0.67	434052	0.01	10000	
Zn	66	103	1	He	204.714	204.714	1.68	296128	0.07	10000	
As	75	103	1	He	73.865	73.865	0.77	67643	0.11	10000	
Se	78	103	1	He	5.025	5.025	7.07	409	1.23	10000	
Sr	88	103	1	He	21.855	21.855	0.91	118913	0.02	10000	
Mo	95	103	1	He	9.907	9.907	1.87	29702	0.03	2000	
Ag	107	103	1	He	0.091	0.091	2.51	958	0.01	300	
Cd	111	103	1	He	0.547	0.547	6.64	1769	0.03	4000	
Sn	118	115	1	He	17.678	17.678	2.89	65594	0.03	2000	
Sb	123	115	1	He	1.035	1.035	9.71	4899	0.02	300	
Ba	137	115	1	He	304.437	304.437	0.32	467360	0.07	10000	
W	182	165	1	He	0.535	0.535	9.14	8873	0.01	2500	
Tl	205	209	1	He	0.809	0.809	1.10	20887	0.00	5000	
Pb	208	209	1	He	69.044	69.044	1.79	2300013	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1774961	0.31	1803797	98.40	30	120	
Sc	45	1	He	642438	2.04	574766	111.77	30	120	
Sc	45	2	NoGas	4555411	1.31	4296857	106.02	30	120	
Rh	103	1	He	1639351	1.31	1652712	99.19	30	120	
In	115	1	He	836463	0.76	852389	98.13	30	120	
Tb	159	1	He	2517791	0.64	2425956	103.79	30	120	
Ho	165	1	He	2553262	1.19	2452680	104.10	30	120	
Bi	209	1	He	1838786	2.13	1810473	101.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	016_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:19:53-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.571	6.3	2767	5.6	1	
B	11	45	2	NoGas	2.957	9.2	13706	5.6	20	
Na	23	45	1	He	28.371	1.4	69315	1.4	400	
Mg	24	45	1	He	1630.488	2.7	1278062	1.0	1000	Blank Failed
Al	27	45	1	He	8279.169	1.3	3374000	0.6	50	Blank Failed
K	39	45	1	He	651.591	1.0	459009	1.0	1000	
Ca	44	45	1	He	132.218	1.9	4852	1.2	1000	
Ti	47	45	1	He	69.559	0.9	13583	1.8	20	Blank Failed
V	51	45	1	He	22.530	0.8	112628	1.1	2	Blank Failed
Cr	52	45	1	He	20.066	1.8	125487	0.3	2	Blank Failed
Mn	55	45	1	He	1658.479	1.3	7180059	0.6	2	Blank Failed
Fe	56	45	1	He	41793.746	1.1	234227777	0.8	50	Blank Failed
Co	59	103	1	He	11.970	0.3	109026	0.9	1	Blank Failed
Ni	60	103	1	He	18.014	1.7	41786	0.8	2	Blank Failed
Cu	63	103	1	He	12.261	0.6	77856	0.9	2	Blank Failed
Zn	66	103	1	He	42.181	1.9	53691	1.0	20	Blank Failed
As	75	103	1	He	14.561	0.5	11743	0.7	2	Blank Failed
Se	78	103	1	He	0.944	10.5	88	6.9	2	
Sr	88	103	1	He	4.254	1.9	20244	2.7	10	
Mo	95	103	1	He	1.846	3.4	5306	3.3	2	
Ag	107	103	1	He	0.020	32.4	202	29.0	0.2	
Cd	111	103	1	He	0.105	10.8	888	2.8	0.2	
Sn	118	115	1	He	3.373	1.9	11704	1.7	10	
Sb	123	115	1	He	0.182	1.9	1407	0.9	1	
Ba	137	115	1	He	61.185	0.9	83280	0.8	5	Blank Failed
W	182	165	1	He	0.070	39.2	3275	8.7	10	
Tl	205	209	1	He	0.161	2.4	4045	2.3	0.5	
Pb	208	209	1	He	14.353	2.9	432795	1.0	1	Blank Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1545848	2.94	1803797	85.70	30	120	
Sc	45	1	He	516554	1.88	574766	89.87	30	120	
Sc	45	2	NoGas	3641954	1.70	4296857	84.76	30	120	
Rh	103	1	He	1426887	0.98	1652712	86.34	30	120	
In	115	1	He	741560	0.24	852389	87.00	30	120	
Tb	159	1	He	2263899	1.89	2425956	93.32	30	120	
Ho	165	1	He	2330877	0.12	2452680	95.03	30	120	
Bi	209	1	He	1662485	2.94	1810473	91.83	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	017_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:23:44-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.835	3.532	218134	2.34	50	91.7	89.5	110.5	
B	11	45	2	NoGas	51.677	1.845	160197	1.43	50	103.4	89.5	110.5	
Na	23	45	1	He	25724.312	2.623	35484959	1.03	25000	102.9	89.5	110.5	
Mg	24	45	1	He	25636.297	3.807	20029243	0.64	25000	102.5	89.5	110.5	
Al	27	45	1	He	250.535	2.564	102492	0.95	250	100.2	89.5	110.5	
K	39	45	1	He	25167.075	3.297	15495805	0.55	25000	100.7	89.5	110.5	
Ca	44	45	1	He	24660.498	3.108	806925	0.43	25000	98.6	89.5	110.5	
Ti	47	45	1	He	49.817	5.237	9697	2.46	50	99.6	89.5	110.5	
V	51	45	1	He	50.571	4.734	251726	1.40	50	101.1	89.5	110.5	
Cr	52	45	1	He	51.573	3.414	317422	0.27	50	103.1	89.5	110.5	
Mn	55	45	1	He	255.401	3.009	1102900	0.37	250	102.2	89.5	110.5	
Fe	56	45	1	He	12876.573	3.544	71967057	0.19	12500	103.0	89.5	110.5	
Co	59	103	1	He	50.318	0.939	452525	0.58	50	100.6	89.5	110.5	
Ni	60	103	1	He	50.428	2.002	115394	1.57	50	100.9	89.5	110.5	
Cu	63	103	1	He	51.297	1.743	314956	1.36	50	102.6	89.5	110.5	
Zn	66	103	1	He	51.218	1.261	64242	1.19	50	102.4	89.5	110.5	
As	75	103	1	He	49.760	1.226	39230	0.82	50	99.5	89.5	110.5	
Se	78	103	1	He	50.058	2.171	3278	1.39	50	100.1	89.5	110.5	
Sr	88	103	1	He	49.668	0.399	232154	0.50	50	99.3	89.5	110.5	
Mo	95	103	1	He	51.852	3.317	131128	3.83	50	103.7	89.5	110.5	
Ag	107	103	1	He	51.941	0.776	452719	0.36	50	103.9	89.5	110.5	
Cd	111	103	1	He	52.349	1.156	76927	0.40	50	104.7	89.5	110.5	
Sn	118	115	1	He	50.660	2.049	166232	2.50	50	101.3	89.5	110.5	
Sb	123	115	1	He	53.102	0.868	184662	0.61	50	106.2	89.5	110.5	
Ba	137	115	1	He	50.923	0.904	69735	0.37	50	101.8	89.5	110.5	
W	182	165	1	He	49.789	1.852	518291	1.06	50	99.6	89.5	110.5	
Tl	205	209	1	He	50.649	0.286	1122247	0.62	50	101.3	89.5	110.5	
Pb	208	209	1	He	52.256	0.302	1523914	0.83	50	104.5	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1520695	1.41	1803797	84.31	30	120	
Sc	45	1	He	515454	3.42	574766	89.68	30	120	
Sc	45	2	NoGas	3693378	0.80	4296857	85.96	30	120	
Rh	103	1	He	1409341	0.81	1652712	85.27	30	120	
In	115	1	He	746084	0.53	852389	87.53	30	120	
Tb	159	1	He	2261577	0.29	2425956	93.22	30	120	
Ho	165	1	He	2328023	1.43	2452680	94.92	30	120	
Bi	209	1	He	1609126	0.54	1810473	88.88	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	018_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:27:36-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.008	112.0	41	103.3	1	
B	11	45	2	NoGas	1.153	8.8	8558	2.9	20	
Na	23	45	1	He	7.427	12.5	39031	2.1	400	
Mg	24	45	1	He	2.389	21.4	2611	13.7	1000	
Al	27	45	1	He	1.460	16.1	1226	6.8	50	
K	39	45	1	He	19.837	14.3	68080	1.4	1000	
Ca	44	45	1	He	2.649	40.0	583	5.8	1000	
Ti	47	45	1	He	0.113	36.9	22	34.7	20	
V	51	45	1	He	0.021	446.3	330	135.6	2	
Cr	52	45	1	He	0.007	258.7	2655	2.9	2	
Mn	55	45	1	He	0.185	21.3	921	16.9	2	
Fe	56	45	1	He	19.205	24.1	109193	21.8	50	
Co	59	103	1	He	0.005	49.5	101	24.7	1	
Ni	60	103	1	He	-0.002	-200.1	82	9.4	2	
Cu	63	103	1	He	0.015	12.9	2341	1.0	2	
Zn	66	103	1	He	-0.010	-266.4	751	4.5	20	
As	75	103	1	He	-0.037	-40.9	147	9.4	2	
Se	78	103	1	He	0.066	102.9	31	15.6	2	
Sr	88	103	1	He	0.004	140.8	147	18.0	10	
Mo	95	103	1	He	0.832	21.2	2840	16.3	2	
Ag	107	103	1	He	0.002	99.4	47	37.1	0.2	
Cd	111	103	1	He	0.000	-62476.3	766	4.1	0.2	
Sn	118	115	1	He	0.200	17.4	1482	8.8	10	
Sb	123	115	1	He	0.186	20.7	1499	8.9	1	
Ba	137	115	1	He	0.019	80.0	39	55.1	5	
W	182	165	1	He	0.836	17.5	11423	13.6	10	
Tl	205	209	1	He	0.039	26.3	1315	17.8	0.5	
Pb	208	209	1	He	0.016	3.8	1341	1.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1540364	0.52	1803797	85.40	30	120	
Sc	45	1	He	499468	1.12	574766	86.90	30	120	
Sc	45	2	NoGas	3724923	0.80	4296857	86.69	30	120	
Rh	103	1	He	1489356	0.79	1652712	90.12	30	120	
In	115	1	He	781890	0.83	852389	91.73	30	120	
Tb	159	1	He	2290537	1.88	2425956	94.42	30	120	
Ho	165	1	He	2373285	0.41	2452680	96.76	30	120	
Bi	209	1	He	1730085	1.32	1810473	95.56	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-4 RAW
Data File Name	019SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:31:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.008	0.008	97.81	44	0.02	10000	
B	11	45	2	NoGas	28.938	28.938	1.36	82602	0.04	300	
Na	23	45	1	He	29578.952	29578.952	8.23	29069430	0.10	500000	
Mg	24	45	1	He	11478.239	11478.239	8.70	6390132	0.18	500000	
Al	27	45	1	He	2.993	2.993	13.34	1346	0.22	200000	
K	39	45	1	He	2424.269	2424.269	8.66	1101046	0.22	500000	
Ca	44	45	1	He	68993.117	68993.117	9.38	1607044	4.29	500000	
Ti	47	45	1	He	0.204	0.204	14.65	29	0.71	2500	
V	51	45	1	He	0.135	0.135	22.86	646	0.02	10000	
Cr	52	45	1	He	0.018	0.018	168.03	2002	0.00	10000	
Mn	55	45	1	He	0.672	0.672	6.19	2178	0.03	10000	
Fe	56	45	1	He	9.373	9.373	7.34	41258	0.02	200000	
Co	59	103	1	He	0.103	0.103	14.93	1030	0.01	10000	
Ni	60	103	1	He	0.233	0.233	17.04	651	0.04	10000	
Cu	63	103	1	He	0.214	0.214	7.47	3628	0.01	10000	
Zn	66	103	1	He	0.794	0.794	14.76	1807	0.04	10000	
As	75	103	1	He	0.213	0.213	13.30	355	0.06	10000	
Se	78	103	1	He	0.170	0.170	54.42	38	0.44	10000	
Sr	88	103	1	He	93.649	93.649	2.09	463383	0.02	10000	
Mo	95	103	1	He	15.222	15.222	7.78	41179	0.04	2000	
Ag	107	103	1	He	0.003	0.003	65.72	56	0.01	300	
Cd	111	103	1	He	0.022	0.022	45.03	801	0.00	4000	
Sn	118	115	1	He	-0.163	-0.163	-0.35	241	-0.07	2000	
Sb	123	115	1	He	0.319	0.319	14.91	1990	0.02	300	
Ba	137	115	1	He	72.018	72.018	8.03	103827	0.07	10000	
W	182	165	1	He	248.491	248.491	2.07	2722891	0.01	2500	
Tl	205	209	1	He	0.032	0.032	21.78	487	0.01	5000	
Pb	208	209	1	He	0.084	0.084	17.89	1486	0.01	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1610468	1.18	1803797	89.28	30	120	
Sc	45	1	He	368770	8.46	574766	64.16	30	120	
Sc	45	2	NoGas	3319068	0.62	4296857	77.24	30	120	
Rh	103	1	He	1492683	1.93	1652712	90.32	30	120	
In	115	1	He	788106	6.26	852389	92.46	30	120	
Tb	159	1	He	2402791	2.16	2425956	99.05	30	120	
Ho	165	1	He	2459462	1.42	2452680	100.28	30	120	
Bi	209	1	He	743339	7.61	1810473	41.06	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176862/1-a
Data File Name	020_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:35:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.005	121.4	26	107.9	1	
B	11	45	2	NoGas	4.215	5.2	17190	4.6	20	
Na	23	45	1	He	70.872	3.6	127048	2.3	400	
Mg	24	45	1	He	59.216	5.1	46838	2.9	1000	
Al	27	45	1	He	5.430	2.3	2864	2.8	50	
K	39	45	1	He	46.226	15.6	85903	0.8	1000	
Ca	44	45	1	He	197.410	6.5	6928	1.9	1000	
Ti	47	45	1	He	0.162	34.4	32	31.6	20	
V	51	45	1	He	0.203	86.7	1256	71.9	2	
Cr	52	45	1	He	1.098	2.5	9363	6.2	2	
Mn	55	45	1	He	0.357	9.9	1680	4.8	2	
Fe	56	45	1	He	17.065	2.1	100396	4.7	50	
Co	59	103	1	He	0.007	25.8	113	15.6	1	
Ni	60	103	1	He	0.167	5.3	468	3.6	2	
Cu	63	103	1	He	1.084	9.7	8831	6.6	2	
Zn	66	103	1	He	6.259	2.6	8580	1.7	20	
As	75	103	1	He	0.344	3.3	443	2.1	2	
Se	78	103	1	He	0.068	190.9	30	27.5	2	
Sr	88	103	1	He	0.386	8.8	1947	8.2	10	
Mo	95	103	1	He	1.379	25.5	4106	21.0	2	
Ag	107	103	1	He	0.000	-50.3	24	7.9	0.2	
Cd	111	103	1	He	-0.012	-246.2	715	5.6	0.2	
Sn	118	115	1	He	0.620	10.2	2774	6.8	10	
Sb	123	115	1	He	0.386	10.7	2116	6.6	1	
Ba	137	115	1	He	0.939	1.1	1293	1.1	5	
W	182	165	1	He	21.408	23.4	221072	23.2	10	Blank Failed
Tl	205	209	1	He	0.011	10.2	639	4.3	0.5	
Pb	208	209	1	He	0.139	6.2	5188	5.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1562757	2.04	1803797	86.64	30	120	
Sc	45	1	He	512870	4.59	574766	89.23	30	120	
Sc	45	2	NoGas	3589745	0.90	4296857	83.54	30	120	
Rh	103	1	He	1425311	0.89	1652712	86.24	30	120	
In	115	1	He	743617	0.62	852389	87.24	30	120	
Tb	159	1	He	2201295	1.62	2425956	90.74	30	120	
Ho	165	1	He	2293927	0.30	2452680	93.53	30	120	
Bi	209	1	He	1727727	2.48	1810473	95.43	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176862/2-a
Data File Name	021_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:39:09-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1021.217	1021.217	4.124	4865319	2.21	1000	102.1	79.5	120.5	
B	11	2	NoGas	126.871	126.871	1.142	373085	0.68	100	126.9	79.5	120.5	LCS Failed
Na	23	1	He	10463.892	10463.892	3.081	13989874	1.81	10000	104.6	79.5	120.5	
Mg	24	1	He	10353.980	10353.980	1.905	7834380	1.06	10000	103.5	79.5	120.5	
Al	27	1	He	9465.293	9465.293	1.096	3725935	2.67	10000	94.7	79.5	120.5	
K	39	1	He	9950.713	9950.713	1.592	5966699	0.77	10000	99.5	79.5	120.5	
Ca	44	1	He	9624.847	9624.847	1.405	305263	0.98	10000	96.2	79.5	120.5	
Ti	47	1	He	100.468	100.468	0.983	18947	2.20	100	100.5	79.5	120.5	
V	51	1	He	993.447	993.447	1.794	4785592	0.55	1000	99.3	79.5	120.5	
Cr	52	1	He	1016.538	1016.538	2.168	6009206	0.53	1000	101.7	79.5	120.5	
Mn	55	1	He	1004.315	1004.315	3.058	4197917	0.74	1000	100.4	79.5	120.5	
Fe	56	1	He	10336.654	10336.654	1.709	55945024	0.70	10000	103.4	79.5	120.5	
Co	59	1	He	985.877	985.877	1.817	8665185	1.59	1000	98.6	79.5	120.5	
Ni	60	1	He	1017.188	1017.188	0.899	2273721	1.26	1000	101.7	79.5	120.5	
Cu	63	1	He	1011.315	1011.315	0.972	6030643	1.16	1000	101.1	79.5	120.5	
Zn	66	1	He	990.864	990.864	0.530	1201816	0.47	1000	99.1	79.5	120.5	
As	75	1	He	942.804	942.804	0.211	723587	0.65	1000	94.3	79.5	120.5	
Se	78	1	He	971.239	971.239	0.417	61720	0.70	1000	97.1	79.5	120.5	
Sr	88	1	He	979.396	979.396	0.214	4472263	0.65	1000	97.9	79.5	120.5	
Mo	95	1	He	107.004	107.004	0.618	263841	0.18	100	107.0	79.5	120.5	
Ag	107	1	He	103.464	103.464	1.178	881409	1.00	100	103.5	79.5	120.5	
Cd	111	1	He	1017.685	1017.685	0.203	1448729	0.56	1000	101.8	79.5	120.5	
Sn	118	1	He	1055.371	1055.371	1.666	3258825	1.54	1000	105.5	79.5	120.5	
Sb	123	1	He	102.289	102.289	0.531	335537	0.65	100	102.3	79.5	120.5	
Ba	137	1	He	997.521	997.521	1.012	1290984	0.51	1000	99.8	79.5	120.5	
W	182	1	He	102.278	102.278	0.459	1036578	0.63	100	102.3	79.5	120.5	
Tl	205	1	He	247.190	247.190	0.963	5340216	1.14	250	98.9	79.5	120.5	
Pb	208	1	He	1014.066	1014.066	0.169	28826383	0.30	1000	101.4	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1522762	2.10	1803797	84.42	30	120	
Sc	45	1	He	498876	2.34	574766	86.80	30	120	
Sc	45	2	NoGas	3569975	1.15	4296857	83.08	30	120	
Rh	103	1	He	1377496	0.44	1652712	83.35	30	120	
In	115	1	He	705215	0.70	852389	82.73	30	120	
Tb	159	1	He	2227901	0.83	2425956	91.84	30	120	
Ho	165	1	He	2272050	1.08	2452680	92.64	30	120	
Bi	209	1	He	1569295	0.40	1810473	86.68	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176862/1-a
Data File Name	022_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:42:48-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.111	30.7	533	28.9	1	
B	11	45	2	NoGas	5.431	2.3	20568	3.4	20	
Na	23	45	1	He	69.264	3.8	122066	1.3	400	
Mg	24	45	1	He	61.332	1.1	47447	2.6	1000	
Al	27	45	1	He	4.300	9.5	2351	4.6	50	
K	39	45	1	He	48.889	5.1	85667	1.5	1000	
Ca	44	45	1	He	199.841	5.6	6859	4.6	1000	
Ti	47	45	1	He	0.264	43.1	51	42.4	20	
V	51	45	1	He	0.111	138.6	755	95.8	2	
Cr	52	45	1	He	1.113	1.4	9234	1.7	2	
Mn	55	45	1	He	0.429	11.1	1955	13.0	2	
Fe	56	45	1	He	17.323	3.9	99597	6.1	50	
Co	59	103	1	He	0.101	9.9	972	9.1	1	
Ni	60	103	1	He	0.330	4.6	851	4.3	2	
Cu	63	103	1	He	1.246	9.4	9906	7.1	2	
Zn	66	103	1	He	6.864	0.8	9410	0.9	20	
As	75	103	1	He	0.497	9.2	569	6.1	2	
Se	78	103	1	He	0.504	11.1	59	6.6	2	
Sr	88	103	1	He	0.431	8.3	2175	7.5	10	
Mo	95	103	1	He	0.704	12.9	2410	9.5	2	
Ag	107	103	1	He	0.010	34.9	118	26.3	0.2	
Cd	111	103	1	He	0.203	28.4	1039	7.8	0.2	Blank Failed
Sn	118	115	1	He	1.848	21.7	6757	19.0	10	
Sb	123	115	1	He	0.674	7.9	3104	5.7	1	
Ba	137	115	1	He	1.085	6.1	1489	5.9	5	
W	182	165	1	He	2.142	5.1	24112	2.9	10	
Tl	205	209	1	He	0.187	31.3	4671	28.2	0.5	
Pb	208	209	1	He	0.243	15.7	8192	13.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1527820	2.20	1803797	84.70	30	120	
Sc	45	1	He	501317	2.65	574766	87.22	30	120	
Sc	45	2	NoGas	3560094	1.69	4296857	82.85	30	120	
Rh	103	1	He	1435938	0.47	1652712	86.88	30	120	
In	115	1	He	742133	0.23	852389	87.07	30	120	
Tb	159	1	He	2237654	1.78	2425956	92.24	30	120	
Ho	165	1	He	2270264	2.04	2452680	92.56	30	120	
Bi	209	1	He	1674636	3.30	1810473	92.50	30	120	

Sample Report

Sample Table

Sample Name	240-49214-b-4-c
Data File Name	023SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:46:40-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.042	0.042	26.74	207	0.02	10000	
B	11	45	2	NoGas	32.016	32.016	0.65	99074	0.03	300	
Na	23	45	1	He	20488.236	20488.236	2.48	27182449	0.08	500000	
Mg	24	45	1	He	8014.370	8014.370	3.59	6022005	0.13	500000	
Al	27	45	1	He	7.132	7.132	2.41	3433	0.21	200000	
K	39	45	1	He	1611.788	1611.788	1.99	1006732	0.16	500000	
Ca	44	45	1	He	45115.306	45115.306	2.78	1419185	3.18	500000	
Ti	47	45	1	He	0.251	0.251	44.28	48	0.53	2500	
V	51	45	1	He	0.411	0.411	57.57	2191	0.02	10000	
Cr	52	45	1	He	1.251	1.251	5.68	9934	0.01	10000	
Mn	55	45	1	He	0.660	0.660	11.30	2882	0.02	10000	
Fe	56	45	1	He	7.842	7.842	2.58	47405	0.02	200000	
Co	59	103	1	He	0.149	0.149	7.32	1362	0.01	10000	
Ni	60	103	1	He	0.468	0.468	6.71	1129	0.04	10000	
Cu	63	103	1	He	1.137	1.137	4.81	8875	0.01	10000	
Zn	66	103	1	He	4.504	4.504	2.09	6180	0.07	10000	
As	75	103	1	He	0.907	0.907	2.62	862	0.11	10000	
Se	78	103	1	He	0.233	0.233	3.29	40	0.59	10000	
Sr	88	103	1	He	89.905	89.905	0.36	411609	0.02	10000	
Mo	95	103	1	He	26.321	26.321	0.99	65492	0.04	2000	
Ag	107	103	1	He	0.006	0.006	81.37	74	0.01	300	
Cd	111	103	1	He	0.042	0.042	166.08	769	0.01	4000	
Sn	118	115	1	He	0.742	0.742	9.33	3078	0.02	2000	
Sb	123	115	1	He	0.936	0.936	1.95	3896	0.02	300	
Ba	137	115	1	He	69.376	69.376	1.36	91908	0.08	10000	
W	182	165	1	He	419.245	419.245	1.04	4265468	0.01	2500	
Tl	205	209	1	He	0.032	0.032	7.29	1054	0.00	5000	
Pb	208	209	1	He	0.069	0.069	12.57	2746	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1542984	1.48	1803797	85.54	30	120	
Sc	45	1	He	495515	2.09	574766	86.21	30	120	
Sc	45	2	NoGas	3616941	0.22	4296857	84.18	30	120	
Rh	103	1	He	1380763	0.69	1652712	83.55	30	120	
In	115	1	He	721796	0.47	852389	84.68	30	120	
Tb	159	1	He	2195525	0.90	2425956	90.50	30	120	
Ho	165	1	He	2285058	1.07	2452680	93.17	30	120	
Bi	209	1	He	1584624	0.40	1810473	87.53	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	024_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:50:31-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.516	2.192	237932	3.34	50	93.0	89.5	110.5	
B	11	45	2	NoGas	52.634	2.442	175447	1.47	50	105.3	89.5	110.5	
Na	23	45	1	He	25616.060	2.658	37949572	0.52	25000	102.5	89.5	110.5	
Mg	24	45	1	He	25495.275	3.188	21396286	0.59	25000	102.0	89.5	110.5	
Al	27	45	1	He	248.641	2.259	109258	1.22	250	99.5	89.5	110.5	
K	39	45	1	He	25079.458	2.817	16586378	0.21	25000	100.3	89.5	110.5	
Ca	44	45	1	He	24715.180	2.692	868631	0.23	25000	98.9	89.5	110.5	
Ti	47	45	1	He	50.422	4.367	10543	1.76	50	100.8	89.5	110.5	
V	51	45	1	He	51.002	2.342	272799	0.65	50	102.0	89.5	110.5	
Cr	52	45	1	He	51.395	2.388	339816	0.56	50	102.8	89.5	110.5	
Mn	55	45	1	He	252.886	2.326	1173015	0.60	250	101.2	89.5	110.5	
Fe	56	45	1	He	12918.178	2.524	77562781	1.19	12500	103.3	89.5	110.5	
Co	59	103	1	He	50.748	1.936	480324	1.14	50	101.5	89.5	110.5	
Ni	60	103	1	He	50.810	2.056	122369	1.22	50	101.6	89.5	110.5	
Cu	63	103	1	He	51.354	1.199	331860	0.43	50	102.7	89.5	110.5	
Zn	66	103	1	He	51.527	2.870	68014	2.37	50	103.1	89.5	110.5	
As	75	103	1	He	50.482	0.918	41887	0.60	50	101.0	89.5	110.5	
Se	78	103	1	He	51.996	2.358	3583	1.99	50	104.0	89.5	110.5	
Sr	88	103	1	He	50.413	1.335	247994	0.49	50	100.8	89.5	110.5	
Mo	95	103	1	He	51.702	1.431	137604	1.68	50	103.4	89.5	110.5	
Ag	107	103	1	He	52.507	1.173	481683	0.68	50	105.0	89.5	110.5	
Cd	111	103	1	He	52.411	0.490	81065	0.79	50	104.8	89.5	110.5	
Sn	118	115	1	He	50.093	1.407	173918	1.13	50	100.2	89.5	110.5	
Sb	123	115	1	He	52.533	1.194	193308	0.83	50	105.1	89.5	110.5	
Ba	137	115	1	He	51.054	0.717	73980	0.76	50	102.1	89.5	110.5	
W	182	165	1	He	53.701	0.334	585698	1.54	50	107.4	89.5	110.5	
Tl	205	209	1	He	49.174	2.968	1156283	0.87	50	98.3	89.5	110.5	
Pb	208	209	1	He	50.819	2.474	1572878	0.30	50	101.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1633705	1.25	1803797	90.57	30	120	
Sc	45	1	He	553547	2.96	574766	96.31	30	120	
Sc	45	2	NoGas	3974103	1.27	4296857	92.49	30	120	
Rh	103	1	He	1483353	0.85	1652712	89.75	30	120	
In	115	1	He	789448	0.48	852389	92.62	30	120	
Tb	159	1	He	2360098	0.34	2425956	97.29	30	120	
Ho	165	1	He	2439601	1.23	2452680	99.47	30	120	
Bi	209	1	He	1708419	2.35	1810473	94.36	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	025_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T11:54:22-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.028	16.4	152	15.2	1	
B	11	45	2	NoGas	1.575	17.5	10681	8.8	20	
Na	23	45	1	He	5.036	27.8	38422	3.9	400	
Mg	24	45	1	He	2.197	19.3	2645	11.7	1000	
Al	27	45	1	He	0.900	33.1	1079	12.7	50	
K	39	45	1	He	13.784	10.1	69154	0.8	1000	
Ca	44	45	1	He	2.200	34.4	611	5.2	1000	
Ti	47	45	1	He	0.105	7.8	22	8.7	20	
V	51	45	1	He	0.033	91.3	418	38.6	2	
Cr	52	45	1	He	0.000	-57446.9	2804	7.0	2	
Mn	55	45	1	He	0.043	10.6	348	5.5	2	
Fe	56	45	1	He	13.338	32.9	82989	29.4	50	
Co	59	103	1	He	0.005	42.3	109	23.0	1	
Ni	60	103	1	He	0.006	89.6	110	13.9	2	
Cu	63	103	1	He	0.002	1089.1	2436	7.5	2	
Zn	66	103	1	He	0.007	498.7	833	6.4	20	
As	75	103	1	He	-0.023	-59.4	171	5.6	2	
Se	78	103	1	He	0.071	54.5	34	8.3	2	
Sr	88	103	1	He	0.009	61.1	189	17.7	10	
Mo	95	103	1	He	0.671	25.7	2602	19.8	2	
Ag	107	103	1	He	0.004	40.6	72	21.3	0.2	
Cd	111	103	1	He	-0.002	-1410.5	822	4.9	0.2	
Sn	118	115	1	He	0.234	22.9	1689	12.0	10	
Sb	123	115	1	He	0.250	7.0	1831	3.8	1	
Ba	137	115	1	He	0.021	47.4	46	34.6	5	
W	182	165	1	He	1.794	10.2	21994	8.9	10	
Tl	205	209	1	He	0.044	8.8	1491	5.7	0.5	
Pb	208	209	1	He	0.020	27.5	1557	11.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1707924	0.85	1803797	94.68	30	120	
Sc	45	1	He	535624	1.28	574766	93.19	30	120	
Sc	45	2	NoGas	4045138	1.73	4296857	94.14	30	120	
Rh	103	1	He	1606323	1.61	1652712	97.19	30	120	
In	115	1	He	826938	0.86	852389	97.01	30	120	
Tb	159	1	He	2390257	0.81	2425956	98.53	30	120	
Ho	165	1	He	2423193	1.61	2452680	98.80	30	120	
Bi	209	1	He	1823342	0.82	1810473	100.71	30	120	

Sample Report

Sample Table

Sample Name	LIN 2
Data File Name	027SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:15:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.015	0.015	8.35	81	0.02	10000	
B	11	45	2	NoGas	0.740	0.740	17.25	7720	0.01	300	
Na	23	45	1	He	-0.458	-0.458	-199.83	32378	0.00	500000	
Mg	24	45	1	He	0.057	0.057	132.55	967	0.01	500000	
Al	27	45	1	He	9.652	9.652	0.46	5067	0.19	200000	
K	39	45	1	He	2.898	2.898	138.17	65928	0.00	500000	
Ca	44	45	1	He	0.945	0.945	23.81	603	0.16	500000	
Ti	47	45	1	He	298.148	298.148	3.45	63967	0.47	2500	
V	51	45	1	He	-0.040	-0.040	-154.48	47	-0.09	10000	
Cr	52	45	1	He	-0.040	-0.040	-48.64	2698	0.00	10000	
Mn	55	45	1	He	0.068	0.068	25.68	487	0.01	10000	
Fe	56	45	1	He	0.075	0.075	85.40	6470	0.00	200000	
Co	59	103	1	He	0.009	0.009	37.20	136	0.01	10000	
Ni	60	103	1	He	0.060	0.060	23.18	241	0.02	10000	
Cu	63	103	1	He	-0.075	-0.075	-16.65	1832	0.00	10000	
Zn	66	103	1	He	0.168	0.168	28.25	1026	0.02	10000	
As	75	103	1	He	-0.022	-0.022	-100.63	166	-0.01	10000	
Se	78	103	1	He	-0.001	-0.001	-9362.61	28	0.00	10000	
Sr	88	103	1	He	-0.001	-0.001	-861.88	129	0.00	10000	
Mo	95	103	1	He	295.076	295.076	0.71	818420	0.04	2000	
Ag	107	103	1	He	309.990	309.990	0.93	2974897	0.01	300	>LDR
Cd	111	103	1	He	0.861	0.861	13.95	2177	0.04	4000	
Sn	118	115	1	He	299.941	299.941	0.87	1076909	0.03	2000	
Sb	123	115	1	He	248.726	248.726	3.74	946605	0.03	300	
Ba	137	115	1	He	0.144	0.144	5.65	230	0.06	10000	
W	182	165	1	He	311.460	311.460	1.72	3327136	0.01	2500	
Tl	205	209	1	He	0.000	0.000	-62.01	388	0.00	5000	
Pb	208	209	1	He	0.006	0.006	39.16	1084	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1658320	0.53	1803797	91.93	30	120	
Sc	45	1	He	568220	5.33	574766	98.86	30	120	
Sc	45	2	NoGas	3934103	1.84	4296857	91.56	30	120	
Rh	103	1	He	1551682	0.89	1652712	93.89	30	120	
In	115	1	He	819490	1.27	852389	96.14	30	120	
Tb	159	1	He	2328348	0.75	2425956	95.98	30	120	
Ho	165	1	He	2398783	1.19	2452680	97.80	30	120	
Bi	209	1	He	1820572	1.07	1810473	100.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	BLANK
Data File Name	028_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:19:41-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.009	73.9	52	68.9	1	
B	11	45	2	NoGas	0.144	89.4	5812	6.3	20	
Na	23	45	1	He	0.469	132.7	31172	1.2	400	
Mg	24	45	1	He	-0.475	-11.9	467	10.4	1000	
Al	27	45	1	He	9.644	2.9	4666	3.1	50	
K	39	45	1	He	6.394	38.4	63017	3.9	1000	
Ca	44	45	1	He	16.348	8.5	1067	3.6	1000	
Ti	47	45	1	He	0.272	54.9	54	52.1	20	
V	51	45	1	He	0.039	18.1	437	9.5	2	
Cr	52	45	1	He	0.009	127.4	2795	1.0	2	
Mn	55	45	1	He	0.178	5.4	933	2.8	2	
Fe	56	45	1	He	-0.047	-57.9	5280	3.1	50	
Co	59	103	1	He	0.001	91.5	63	18.2	1	
Ni	60	103	1	He	0.017	95.5	131	30.5	2	
Cu	63	103	1	He	-0.060	-6.1	1919	1.1	2	
Zn	66	103	1	He	0.859	8.8	1953	5.3	20	
As	75	103	1	He	-0.055	-116.6	136	40.8	2	
Se	78	103	1	He	-0.037	-130.5	25	14.0	2	
Sr	88	103	1	He	0.003	86.7	149	9.3	10	
Mo	95	103	1	He	4.774	15.4	13778	14.5	2	Blank Failed
Ag	107	103	1	He	0.021	24.8	227	21.4	0.2	
Cd	111	103	1	He	0.000	8053.4	792	1.2	0.2	
Sn	118	115	1	He	1.119	7.3	4756	6.4	10	
Sb	123	115	1	He	7.969	21.1	30601	20.9	1	Blank Failed
Ba	137	115	1	He	0.023	34.8	47	25.8	5	
W	182	165	1	He	3.428	14.3	38960	14.1	10	
Tl	205	209	1	He	-0.004	-40.4	292	14.3	0.5	
Pb	208	209	1	He	0.000	15138.8	872	7.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1660894	0.77	1803797	92.08	30	120	
Sc	45	1	He	523629	1.65	574766	91.10	30	120	
Sc	45	2	NoGas	3936636	0.94	4296857	91.62	30	120	
Rh	103	1	He	1540110	0.15	1652712	93.19	30	120	
In	115	1	He	804036	0.42	852389	94.33	30	120	
Tb	159	1	He	2337884	1.71	2425956	96.37	30	120	
Ho	165	1	He	2381142	0.80	2452680	97.08	30	120	
Bi	209	1	He	1779493	0.74	1810473	98.29	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	029_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:23:32-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.520	3.299	245583	3.65	50	93.0	89.5	110.5	
B	11	45	2	NoGas	51.492	2.053	174649	2.75	50	103.0	89.5	110.5	
Na	23	45	1	He	25755.478	3.667	38030344	0.37	25000	103.0	89.5	110.5	
Mg	24	45	1	He	25921.702	3.129	21687573	0.56	25000	103.7	89.5	110.5	
Al	27	45	1	He	252.964	2.720	110793	1.04	250	101.2	89.5	110.5	
K	39	45	1	He	25495.072	2.931	16808272	0.65	25000	102.0	89.5	110.5	
Ca	44	45	1	He	25157.706	3.084	881391	0.31	25000	100.6	89.5	110.5	
Ti	47	45	1	He	52.769	3.996	11000	0.68	50	105.5	89.5	110.5	
V	51	45	1	He	50.867	3.048	271238	1.90	50	101.7	89.5	110.5	
Cr	52	45	1	He	51.354	3.531	338430	0.75	50	102.7	89.5	110.5	
Mn	55	45	1	He	254.796	3.077	1178068	0.30	250	101.9	89.5	110.5	
Fe	56	45	1	He	12953.331	3.185	77521321	0.22	12500	103.6	89.5	110.5	
Co	59	103	1	He	50.530	0.801	478202	0.72	50	101.1	89.5	110.5	
Ni	60	103	1	He	50.838	1.383	122414	0.18	50	101.7	89.5	110.5	
Cu	63	103	1	He	51.156	1.541	330516	0.47	50	102.3	89.5	110.5	
Zn	66	103	1	He	51.239	1.593	67636	2.25	50	102.5	89.5	110.5	
As	75	103	1	He	50.758	1.275	42105	0.18	50	101.5	89.5	110.5	
Se	78	103	1	He	52.001	1.740	3583	0.36	50	104.0	89.5	110.5	
Sr	88	103	1	He	50.576	2.041	248729	0.80	50	101.2	89.5	110.5	
Mo	95	103	1	He	52.745	1.692	140334	1.73	50	105.5	89.5	110.5	
Ag	107	103	1	He	51.753	1.358	474658	0.06	50	103.5	89.5	110.5	
Cd	111	103	1	He	52.210	1.502	80735	0.23	50	104.4	89.5	110.5	
Sn	118	115	1	He	49.672	1.466	172940	1.35	50	99.3	89.5	110.5	
Sb	123	115	1	He	55.156	1.544	203470	1.15	50	110.3	89.5	110.5	
Ba	137	115	1	He	50.394	2.103	73219	1.64	50	100.8	89.5	110.5	
W	182	165	1	He	50.320	1.426	539759	1.22	50	100.6	89.5	110.5	
Tl	205	209	1	He	48.973	4.206	1144816	0.75	50	97.9	89.5	110.5	
Pb	208	209	1	He	50.479	3.399	1553403	0.70	50	101.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1686338	1.57	1803797	93.49	30	120	
Sc	45	1	He	551902	3.43	574766	96.02	30	120	
Sc	45	2	NoGas	4040222	1.60	4296857	94.03	30	120	
Rh	103	1	He	1483119	1.41	1652712	89.74	30	120	
In	115	1	He	791609	0.46	852389	92.87	30	120	
Tb	159	1	He	2358420	1.13	2425956	97.22	30	120	
Ho	165	1	He	2398719	0.44	2452680	97.80	30	120	
Bi	209	1	He	1699299	3.48	1810473	93.86	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	030_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:27:23-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.018	61.4	96	58.1	1	
B	11	45	2	NoGas	1.177	10.4	9332	3.9	20	
Na	23	45	1	He	2.356	39.0	34764	3.0	400	
Mg	24	45	1	He	0.943	65.9	1634	30.1	1000	
Al	27	45	1	He	0.638	11.7	972	4.3	50	
K	39	45	1	He	11.716	18.9	68169	1.0	1000	
Ca	44	45	1	He	0.315	822.4	549	16.1	1000	
Ti	47	45	1	He	0.049	82.4	11	75.5	20	
V	51	45	1	He	0.091	41.1	716	27.3	2	
Cr	52	45	1	He	-0.006	-895.7	2777	11.3	2	
Mn	55	45	1	He	0.012	51.0	213	12.8	2	
Fe	56	45	1	He	9.622	32.5	61787	28.5	50	
Co	59	103	1	He	0.002	85.2	77	26.5	1	
Ni	60	103	1	He	0.005	40.8	106	4.8	2	
Cu	63	103	1	He	-0.074	-15.4	1901	4.2	2	
Zn	66	103	1	He	-0.001	-1835.6	821	4.2	20	
As	75	103	1	He	-0.045	-39.9	151	10.7	2	
Se	78	103	1	He	0.061	79.0	33	10.8	2	
Sr	88	103	1	He	0.001	299.8	144	12.7	10	
Mo	95	103	1	He	0.959	24.9	3424	19.9	2	
Ag	107	103	1	He	0.007	28.6	97	19.2	0.2	
Cd	111	103	1	He	0.013	165.5	846	4.0	0.2	
Sn	118	115	1	He	0.440	15.4	2423	9.8	10	
Sb	123	115	1	He	1.268	7.5	5711	6.2	1	CCB Failed
Ba	137	115	1	He	0.010	90.3	28	48.5	5	
W	182	165	1	He	1.129	16.7	14793	13.8	10	
Tl	205	209	1	He	0.032	22.1	1187	15.7	0.5	
Pb	208	209	1	He	0.009	34.5	1186	9.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1690080	1.49	1803797	93.70	30	120	
Sc	45	1	He	538291	1.06	574766	93.65	30	120	
Sc	45	2	NoGas	4028241	1.92	4296857	93.75	30	120	
Rh	103	1	He	1604725	0.15	1652712	97.10	30	120	
In	115	1	He	823231	0.31	852389	96.58	30	120	
Tb	159	1	He	2387734	0.88	2425956	98.42	30	120	
Ho	165	1	He	2417889	0.14	2452680	98.58	30	120	
Bi	209	1	He	1793356	0.94	1810473	99.05	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	lb 240-176803/1-d@10
Data File Name	031_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:31:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.017	52.0	93	50.0	1	
B	11	45	2	NoGas	2.845	6.2	15225	3.4	20	
Na	23	45	1	He	154217.073	0.8	230387295	0.9	400	Blank Failed
Mg	24	45	1	He	5.166	6.9	5275	6.1	1000	
Al	27	45	1	He	11.547	0.9	5813	1.2	50	
K	39	45	1	He	28.861	11.2	82115	2.8	1000	
Ca	44	45	1	He	117.951	5.3	4738	3.9	1000	
Ti	47	45	1	He	0.079	64.8	18	60.3	20	
V	51	45	1	He	0.025	76.2	390	26.0	2	
Cr	52	45	1	He	0.317	8.6	5019	4.1	2	
Mn	55	45	1	He	0.255	9.2	1355	8.5	2	
Fe	56	45	1	He	10.513	1.5	69610	1.9	50	
Co	59	103	1	He	0.007	18.3	119	11.3	1	
Ni	60	103	1	He	0.372	7.1	984	5.8	2	
Cu	63	103	1	He	0.575	1.3	5940	1.8	2	
Zn	66	103	1	He	2.579	12.2	4135	9.3	20	
As	75	103	1	He	-0.002	-628.2	175	8.4	2	
Se	78	103	1	He	0.130	43.8	36	11.9	2	
Sr	88	103	1	He	0.344	7.5	1821	6.8	10	
Mo	95	103	1	He	0.617	6.3	2265	3.6	2	
Ag	107	103	1	He	0.010	31.4	118	23.6	0.2	
Cd	111	103	1	He	0.056	20.2	851	2.5	0.2	
Sn	118	115	1	He	0.208	19.4	1559	9.2	10	
Sb	123	115	1	He	0.867	4.1	4106	3.2	1	
Ba	137	115	1	He	0.954	5.2	1429	5.0	5	
W	182	165	1	He	0.340	10.2	6294	4.3	10	
Tl	205	209	1	He	0.004	54.3	478	10.5	0.5	
Pb	208	209	1	He	0.185	1.9	6720	2.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1680864	0.63	1803797	93.18	30	120	
Sc	45	1	He	558311	0.76	574766	97.14	30	120	
Sc	45	2	NoGas	4144906	0.59	4296857	96.46	30	120	
Rh	103	1	He	1486996	0.98	1652712	89.97	30	120	
In	115	1	He	808893	0.26	852389	94.90	30	120	
Tb	159	1	He	2352053	1.05	2425956	96.95	30	120	
Ho	165	1	He	2415370	2.24	2452680	98.48	30	120	
Bi	209	1	He	1751328	2.32	1810473	96.73	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176851/2-a10
Data File Name	032_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:35:13-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.019	58.9	107	57.0	1	
B	11	45	2	NoGas	0.547	8.8	7509	3.0	20	
Na	23	45	1	He	21.812	14.7	65253	8.1	400	
Mg	24	45	1	He	-0.381	-1.3	578	0.0	1000	
Al	27	45	1	He	8.197	3.3	4344	2.0	50	
K	39	45	1	He	6.207	6.7	67158	1.1	1000	
Ca	44	45	1	He	4.662	46.3	725	10.4	1000	
Ti	47	45	1	He	0.016	150.9	4	114.6	20	
V	51	45	1	He	0.040	339.6	473	155.5	2	
Cr	52	45	1	He	0.125	18.7	3755	4.3	2	
Mn	55	45	1	He	0.069	24.5	486	16.2	2	
Fe	56	45	1	He	3.176	3.3	25197	3.0	50	
Co	59	103	1	He	0.000	304.9	58	24.0	1	
Ni	60	103	1	He	0.010	26.9	120	5.6	2	
Cu	63	103	1	He	0.046	237.3	2743	28.7	2	
Zn	66	103	1	He	0.568	3.6	1628	3.4	20	
As	75	103	1	He	-0.002	-1208.5	189	12.6	2	
Se	78	103	1	He	-0.018	-465.6	28	22.1	2	
Sr	88	103	1	He	0.001	113.8	146	7.4	10	
Mo	95	103	1	He	-0.027	-93.1	597	10.3	2	
Ag	107	103	1	He	0.002	121.1	56	53.8	0.2	
Cd	111	103	1	He	0.011	109.4	845	2.9	0.2	
Sn	118	115	1	He	0.088	83.0	1170	22.3	10	
Sb	123	115	1	He	0.598	9.1	3199	6.6	1	
Ba	137	115	1	He	0.024	40.5	50	30.5	5	
W	182	165	1	He	0.174	15.8	4649	7.4	10	
Tl	205	209	1	He	-0.003	-37.0	333	6.9	0.5	
Pb	208	209	1	He	0.013	22.6	1318	7.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1719855	0.02	1803797	95.35	30	120	
Sc	45	1	He	559193	0.73	574766	97.29	30	120	
Sc	45	2	NoGas	4159884	0.93	4296857	96.81	30	120	
Rh	103	1	He	1606999	2.04	1652712	97.23	30	120	
In	115	1	He	835275	0.59	852389	97.99	30	120	
Tb	159	1	He	2399693	0.94	2425956	98.92	30	120	
Ho	165	1	He	2488815	0.97	2452680	101.47	30	120	
Bi	209	1	He	1827082	0.52	1810473	100.92	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176851/3-a@10
Data File Name	033_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:39:04-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	101.610	101.610	1.109	540411	1.60	1000	10.2	79.5	120.5	LCS Failed
B	11	2	NoGas	13.531	13.531	2.181	51064	2.51	100	13.5	79.5	120.5	LCS Failed
Na	23	1	He	152633.288	152633.288	1.332	227392443	1.24	10000	1526.3	79.5	120.5	LCS Failed
Mg	24	1	He	1069.106	1069.106	1.671	903834	1.41	10000	10.7	79.5	120.5	LCS Failed
Al	27	1	He	1051.279	1051.279	1.377	462475	1.03	10000	10.5	79.5	120.5	LCS Failed
K	39	1	He	1067.110	1067.110	2.221	770225	0.84	10000	10.7	79.5	120.5	LCS Failed
Ca	44	1	He	1055.472	1055.472	1.970	37861	1.34	10000	10.6	79.5	120.5	LCS Failed
Ti	47	1	He	10.970	10.970	4.922	2310	5.15	100	11.0	79.5	120.5	LCS Failed
V	51	1	He	103.828	103.828	1.287	558568	1.08	1000	10.4	79.5	120.5	LCS Failed
Cr	52	1	He	105.106	105.106	1.448	696245	0.99	1000	10.5	79.5	120.5	LCS Failed
Mn	55	1	He	103.510	103.510	1.416	483227	0.99	1000	10.4	79.5	120.5	LCS Failed
Fe	56	1	He	1065.130	1065.130	2.399	6439505	0.09	10000	10.7	79.5	120.5	LCS Failed
Co	59	1	He	104.219	104.219	1.215	989918	1.22	1000	10.4	79.5	120.5	LCS Failed
Ni	60	1	He	103.808	103.808	1.361	250822	1.54	1000	10.4	79.5	120.5	LCS Failed
Cu	63	1	He	104.420	104.420	1.118	674880	1.35	1000	10.4	79.5	120.5	LCS Failed
Zn	66	1	He	106.385	106.385	1.481	140115	1.34	1000	10.6	79.5	120.5	LCS Failed
As	75	1	He	103.550	103.550	1.942	86040	2.35	1000	10.4	79.5	120.5	LCS Failed
Se	78	1	He	106.815	106.815	2.331	7359	2.72	1000	10.7	79.5	120.5	LCS Failed
Sr	88	1	He	103.133	103.133	1.461	509031	1.86	1000	10.3	79.5	120.5	LCS Failed
Mo	95	1	He	10.968	10.968	2.582	29788	2.68	100	11.0	79.5	120.5	LCS Failed
Ag	107	1	He	10.465	10.465	1.659	96361	1.63	100	10.5	79.5	120.5	LCS Failed
Cd	111	1	He	106.320	106.320	1.058	164241	1.43	1000	10.6	79.5	120.5	LCS Failed
Sn	118	1	He	102.173	102.173	1.308	358680	1.11	1000	10.2	79.5	120.5	LCS Failed
Sb	123	1	He	10.898	10.898	1.795	41319	2.74	100	10.9	79.5	120.5	LCS Failed
Ba	137	1	He	103.052	103.052	1.239	151337	1.71	1000	10.3	79.5	120.5	LCS Failed
W	182	1	He	9.971	9.971	0.620	110530	1.86	100	10.0	79.5	120.5	LCS Failed
Tl	205	1	He	23.751	23.751	1.524	570442	1.07	250	9.5	79.5	120.5	LCS Failed
Pb	208	1	He	102.075	102.075	1.391	3224726	1.02	1000	10.2	79.5	120.5	LCS Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1698998	1.42	1803797	94.19	30	120	
Sc	45	1	He	556870	2.36	574766	96.89	30	120	
Sc	45	2	NoGas	4130465	0.57	4296857	96.13	30	120	
Rh	103	1	He	1488575	1.10	1652712	90.07	30	120	
In	115	1	He	800171	1.70	852389	93.87	30	120	
Tb	159	1	He	2359317	1.87	2425956	97.25	30	120	
Ho	165	1	He	2431030	1.54	2452680	99.12	30	120	
Bi	209	1	He	1744000	2.43	1810473	96.33	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-e@10
Data File Name	034SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:42:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.018	0.018	24.40	100	0.02	10000	
B	11	45	2	NoGas	12.051	12.051	1.95	49121	0.02	300	
Na	23	45	1	He	152841.175	152841.175	1.74	230966317	0.07	500000	
Mg	24	45	1	He	2231.584	2231.584	1.32	1912812	0.12	500000	
Al	27	45	1	He	11.379	11.379	0.72	5807	0.20	200000	
K	39	45	1	He	101.922	101.922	3.56	132230	0.08	500000	
Ca	44	45	1	He	133449.920	133449.920	0.14	4785783	2.79	500000	
Ti	47	45	1	He	0.157	0.157	46.18	34	0.46	2500	
V	51	45	1	He	1.432	1.432	3.69	8070	0.02	10000	
Cr	52	45	1	He	0.170	0.170	21.99	4092	0.00	10000	
Mn	55	45	1	He	1881.152	1881.152	0.66	8906061	0.02	10000	
Fe	56	45	1	He	1.574	1.574	18.12	15620	0.01	200000	
Co	59	103	1	He	1.004	1.004	2.81	9614	0.01	10000	
Ni	60	103	1	He	2.277	2.277	3.00	5609	0.04	10000	
Cu	63	103	1	He	0.238	0.238	2.37	3788	0.01	10000	
Zn	66	103	1	He	1.331	1.331	6.90	2515	0.05	10000	
As	75	103	1	He	0.163	0.163	4.29	314	0.05	10000	
Se	78	103	1	He	0.204	0.204	35.79	41	0.50	10000	
Sr	88	103	1	He	2915.294	2915.294	1.18	14431121	0.02	10000	
Mo	95	103	1	He	0.134	0.134	19.35	984	0.01	2000	
Ag	107	103	1	He	0.002	0.002	100.93	47	0.00	300	
Cd	111	103	1	He	0.093	0.093	14.31	912	0.01	4000	
Sn	118	115	1	He	0.707	0.707	12.22	3338	0.02	2000	
Sb	123	115	1	He	0.417	0.417	5.94	2427	0.02	300	
Ba	137	115	1	He	1.240	1.240	1.45	1860	0.07	10000	
W	182	165	1	He	0.264	0.264	7.51	5535	0.00	2500	
Tl	205	209	1	He	0.020	0.020	36.62	847	0.00	5000	
Pb	208	209	1	He	0.018	0.018	29.06	1380	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1760524	1.49	1803797	97.60	30	120	
Sc	45	1	He	564819	1.22	574766	98.27	30	120	
Sc	45	2	NoGas	4401855	0.85	4296857	102.44	30	120	
Rh	103	1	He	1493540	2.65	1652712	90.37	30	120	
In	115	1	He	811715	1.12	852389	95.23	30	120	
Tb	159	1	He	2382040	1.83	2425956	98.19	30	120	
Ho	165	1	He	2441411	1.78	2452680	99.54	30	120	
Bi	209	1	He	1709283	1.35	1810473	94.41	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-e@50
Data File Name	035SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:46:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.007	0.007	68.69	41	0.02	10000	
B	11	45	2	NoGas	2.146	2.146	7.09	13135	0.02	300	
Na	23	45	1	He	31152.450	31152.450	0.11	47396885	0.07	500000	
Mg	24	45	1	He	441.000	441.000	0.52	381053	0.12	500000	
Al	27	45	1	He	9.469	9.469	4.47	4984	0.19	200000	
K	39	45	1	He	25.118	25.118	10.67	81025	0.03	500000	
Ca	44	45	1	He	26436.258	26436.258	0.44	954293	2.77	500000	
Ti	47	45	1	He	0.062	0.062	75.73	14	0.43	2500	
V	51	45	1	He	0.223	0.223	40.96	1486	0.01	10000	
Cr	52	45	1	He	0.045	0.045	43.29	3277	0.00	10000	
Mn	55	45	1	He	389.981	389.981	1.94	1857453	0.02	10000	
Fe	56	45	1	He	0.158	0.158	36.84	6990	0.00	200000	
Co	59	103	1	He	0.198	0.198	1.31	2060	0.01	10000	
Ni	60	103	1	He	0.451	0.451	8.95	1255	0.04	10000	
Cu	63	103	1	He	-0.014	-0.014	-140.67	2297	0.00	10000	
Zn	66	103	1	He	0.226	0.226	23.97	1131	0.02	10000	
As	75	103	1	He	0.033	0.033	32.08	219	0.02	10000	
Se	78	103	1	He	0.002	0.002	2477.86	29	0.01	10000	
Sr	88	103	1	He	572.858	572.858	0.35	3017411	0.02	10000	
Mo	95	103	1	He	-0.094	-0.094	-14.02	402	-0.02	2000	
Ag	107	103	1	He	0.000	0.000	1207.98	32	0.00	300	
Cd	111	103	1	He	0.054	0.054	36.95	906	0.01	4000	
Sn	118	115	1	He	0.111	0.111	29.44	1256	0.01	2000	
Sb	123	115	1	He	0.198	0.198	11.73	1647	0.01	300	
Ba	137	115	1	He	0.245	0.245	15.91	389	0.06	10000	
W	182	165	1	He	0.096	0.096	24.49	3767	0.00	2500	
Tl	205	209	1	He	-0.001	-0.001	-310.76	367	0.00	5000	
Pb	208	209	1	He	0.005	0.005	30.59	1038	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1729087	0.59	1803797	95.86	30	120	
Sc	45	1	He	568268	1.79	574766	98.87	30	120	
Sc	45	2	NoGas	4230438	0.88	4296857	98.45	30	120	
Rh	103	1	He	1588966	1.16	1652712	96.14	30	120	
In	115	1	He	835306	0.67	852389	98.00	30	120	
Tb	159	1	He	2429937	0.59	2425956	100.16	30	120	
Ho	165	1	He	2478541	1.66	2452680	101.05	30	120	
Bi	209	1	He	1813732	1.08	1810473	100.18	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-e@10
Data File Name	036SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:50:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1123.212	1123.212	0.52	5868346	0.02	10000	
B	11	45	2	NoGas	131.743	131.743	1.76	448173	0.03	300	
Na	23	45	1	He	158275.279	158275.279	3.41	232885939	0.07	500000	
Mg	24	45	1	He	12434.062	12434.062	3.73	10372012	0.12	500000	
Al	27	45	1	He	10161.649	10161.649	4.71	4407561	0.23	200000	
K	39	45	1	He	10422.981	10422.981	4.88	6885273	0.15	500000	
Ca	44	45	1	He	139299.843	139299.843	3.40	4863447	2.86	500000	
Ti	47	45	1	He	104.358	104.358	4.92	21686	0.48	2500	
V	51	45	1	He	1043.763	1043.763	3.61	5543522	0.02	10000	
Cr	52	45	1	He	1022.183	1022.183	4.13	6661429	0.02	10000	
Mn	55	45	1	He	2821.415	2821.415	3.26	13005478	0.02	10000	
Fe	56	45	1	He	10387.029	10387.029	3.43	61981711	0.02	200000	
Co	59	103	1	He	1059.106	1059.106	0.34	9463869	0.01	10000	
Ni	60	103	1	He	1078.857	1078.857	0.71	2451629	0.04	10000	
Cu	63	103	1	He	1039.676	1039.676	0.28	6302761	0.02	10000	
Zn	66	103	1	He	1033.769	1033.769	0.10	1274683	0.08	10000	
As	75	103	1	He	1066.602	1066.602	0.24	832185	0.13	10000	
Se	78	103	1	He	1085.876	1085.876	0.51	70150	1.55	10000	
Sr	88	103	1	He	4022.232	4022.232	0.72	18671942	0.02	10000	
Mo	95	103	1	He	110.865	110.865	2.19	277892	0.04	2000	
Ag	107	103	1	He	104.937	104.937	0.82	908838	0.01	300	
Cd	111	103	1	He	1089.582	1089.582	2.04	1576837	0.07	4000	
Sn	118	115	1	He	1104.527	1104.527	0.79	3647990	0.03	2000	
Sb	123	115	1	He	105.167	105.167	0.45	368959	0.03	300	
Ba	137	115	1	He	1034.687	1034.687	0.05	1432303	0.07	10000	
W	182	165	1	He	98.727	98.727	1.41	1048185	0.01	2500	
Tl	205	209	1	He	263.703	263.703	1.77	5728340	0.00	5000	
Pb	208	209	1	He	1076.344	1076.344	1.82	30765444	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1668975	0.16	1803797	92.53	30	120	
Sc	45	1	He	550342	3.66	574766	95.75	30	120	
Sc	45	2	NoGas	4131710	0.37	4296857	96.16	30	120	
Rh	103	1	He	1400401	0.14	1652712	84.73	30	120	
In	115	1	He	754278	0.52	852389	88.49	30	120	
Tb	159	1	He	2362573	0.35	2425956	97.39	30	120	
Ho	165	1	He	2380069	1.83	2452680	97.04	30	120	
Bi	209	1	He	1578154	1.08	1810473	87.17	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-f ms@10
Data File Name	037SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:54:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	105.538	105.538	1.43	558218	0.02	10000	
B	11	45	2	NoGas	24.120	24.120	2.91	89217	0.03	300	
Na	23	45	1	He	153297.825	153297.825	0.81	232515620	0.07	500000	
Mg	24	45	1	He	3246.528	3246.528	0.81	2792521	0.12	500000	
Al	27	45	1	He	1036.939	1036.939	0.53	464445	0.22	200000	
K	39	45	1	He	1134.128	1134.128	1.47	829499	0.14	500000	
Ca	44	45	1	He	134586.339	134586.339	1.37	4843902	2.78	500000	
Ti	47	45	1	He	10.687	10.687	5.33	2291	0.47	2500	
V	51	45	1	He	104.233	104.233	1.25	570915	0.02	10000	
Cr	52	45	1	He	102.007	102.007	0.70	688057	0.01	10000	
Mn	55	45	1	He	1955.423	1955.423	0.80	9291040	0.02	10000	
Fe	56	45	1	He	1059.117	1059.117	0.44	6520176	0.02	200000	
Co	59	103	1	He	104.839	104.839	0.68	986660	0.01	10000	
Ni	60	103	1	He	105.930	105.930	0.74	253587	0.04	10000	
Cu	63	103	1	He	103.940	103.940	1.45	665614	0.02	10000	
Zn	66	103	1	He	105.069	105.069	0.84	137121	0.08	10000	
As	75	103	1	He	106.141	106.141	0.40	87374	0.12	10000	
Se	78	103	1	He	109.184	109.184	1.02	7452	1.47	10000	
Sr	88	103	1	He	3048.245	3048.245	0.29	14902969	0.02	10000	
Mo	95	103	1	He	12.951	12.951	0.76	34738	0.04	2000	
Ag	107	103	1	He	10.435	10.435	2.01	95208	0.01	300	
Cd	111	103	1	He	104.610	104.610	0.25	160125	0.07	4000	
Sn	118	115	1	He	105.201	105.201	1.74	374677	0.03	2000	
Sb	123	115	1	He	11.211	11.211	2.03	43094	0.03	300	
Ba	137	115	1	He	100.958	100.958	1.08	150416	0.07	10000	
W	182	165	1	He	11.527	11.527	4.13	128647	0.01	2500	
Tl	205	209	1	He	24.237	24.237	1.70	566205	0.00	5000	
Pb	208	209	1	He	101.555	101.555	0.64	3121190	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1689510	1.07	1803797	93.66	30	120	
Sc	45	1	He	566836	0.41	574766	98.62	30	120	
Sc	45	2	NoGas	4255014	1.05	4296857	99.03	30	120	
Rh	103	1	He	1474866	0.50	1652712	89.24	30	120	
In	115	1	He	811756	0.08	852389	95.23	30	120	
Tb	159	1	He	2383950	0.91	2425956	98.27	30	120	
Ho	165	1	He	2455930	0.69	2452680	100.13	30	120	
Bi	209	1	He	1696413	2.17	1810473	93.70	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-g msd@10
Data File Name	038SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T12:57:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	103.577	103.577	2.22	549315	0.02	10000	
B	11	45	2	NoGas	23.981	23.981	2.28	87944	0.03	300	
Na	23	45	1	He	158057.038	158057.038	1.43	234293768	0.07	500000	
Mg	24	45	1	He	3350.247	3350.247	1.93	2816164	0.12	500000	
Al	27	45	1	He	1048.977	1048.977	1.32	459167	0.23	200000	
K	39	45	1	He	1144.717	1144.717	1.57	817651	0.14	500000	
Ca	44	45	1	He	136410.818	136410.818	0.68	4798344	2.84	500000	
Ti	47	45	1	He	10.570	10.570	9.12	2214	0.48	2500	
V	51	45	1	He	103.838	103.838	0.84	555885	0.02	10000	
Cr	52	45	1	He	103.199	103.199	0.97	680303	0.02	10000	
Mn	55	45	1	He	2033.559	2033.559	1.64	9443096	0.02	10000	
Fe	56	45	1	He	1061.033	1061.033	1.68	6383666	0.02	200000	
Co	59	103	1	He	106.091	106.091	0.53	969250	0.01	10000	
Ni	60	103	1	He	107.573	107.573	1.00	249998	0.04	10000	
Cu	63	103	1	He	105.519	105.519	0.57	655920	0.02	10000	
Zn	66	103	1	He	106.394	106.394	1.71	134778	0.08	10000	
As	75	103	1	He	106.916	106.916	0.26	85437	0.13	10000	
Se	78	103	1	He	109.413	109.413	2.24	7249	1.51	10000	
Sr	88	103	1	He	3188.768	3188.768	0.61	15133988	0.02	10000	
Mo	95	103	1	He	11.702	11.702	2.10	30527	0.04	2000	
Ag	107	103	1	He	10.485	10.485	0.41	92866	0.01	300	
Cd	111	103	1	He	105.848	105.848	0.40	157272	0.07	4000	
Sn	118	115	1	He	103.782	103.782	1.01	359653	0.03	2000	
Sb	123	115	1	He	10.995	10.995	1.37	41136	0.03	300	
Ba	137	115	1	He	102.583	102.583	1.62	148701	0.07	10000	
W	182	165	1	He	10.052	10.052	0.86	111519	0.01	2500	
Tl	205	209	1	He	24.350	24.350	1.82	557144	0.00	5000	
Pb	208	209	1	He	102.510	102.510	3.15	3084779	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1694012	0.86	1803797	93.91	30	120	
Sc	45	1	He	554051	1.46	574766	96.40	30	120	
Sc	45	2	NoGas	4216430	0.97	4296857	98.13	30	120	
Rh	103	1	He	1431719	0.28	1652712	86.63	30	120	
In	115	1	He	789823	0.37	852389	92.66	30	120	
Tb	159	1	He	2353732	1.08	2425956	97.02	30	120	
Ho	165	1	He	2433463	0.67	2452680	99.22	30	120	
Bi	209	1	He	1661348	1.41	1810473	91.76	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176851/3-a@10
Data File Name	039_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:01:44-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1180.541	1180.541	2.719	5759506	1.19	1000	118.1	79.5	120.5	
B	11	2	NoGas	150.816	150.816	1.515	485769	0.42	100	150.8	79.5	120.5	LCS Failed
Na	23	1	He	1500747.454	1500747.454	1.280	2133557071	0.78	10000	15007.5	79.5	120.5	LCS Failed
Mg	24	1	He	10700.591	10700.591	0.677	8626686	1.00	10000	107.0	79.5	120.5	
Al	27	1	He	10337.429	10337.429	0.825	4334265	0.66	10000	103.4	79.5	120.5	
K	39	1	He	10643.195	10643.195	1.228	6795026	0.43	10000	106.4	79.5	120.5	
Ca	44	1	He	10279.484	10279.484	1.133	347301	0.74	10000	102.8	79.5	120.5	
Ti	47	1	He	106.444	106.444	2.051	21383	2.02	100	106.4	79.5	120.5	
V	51	1	He	1055.626	1055.626	0.944	5417883	0.49	1000	105.6	79.5	120.5	
Cr	52	1	He	1032.598	1032.598	0.379	6504413	1.40	1000	103.3	79.5	120.5	
Mn	55	1	He	1018.477	1018.477	0.761	4536677	0.68	1000	101.8	79.5	120.5	
Fe	56	1	He	10327.741	10327.741	1.454	59552691	0.97	10000	103.3	79.5	120.5	
Co	59	1	He	1095.741	1095.741	1.023	8971614	1.27	1000	109.6	79.5	120.5	
Ni	60	1	He	1115.191	1115.191	0.653	2322033	0.96	1000	111.5	79.5	120.5	
Cu	63	1	He	1085.197	1085.197	1.387	6027855	1.49	1000	108.5	79.5	120.5	
Zn	66	1	He	1078.699	1078.699	0.373	1218696	0.55	1000	107.9	79.5	120.5	
As	75	1	He	1175.858	1175.858	0.679	840588	0.37	1000	117.6	79.5	120.5	
Se	78	1	He	1263.240	1263.240	1.562	74769	1.33	1000	126.3	79.5	120.5	LCS Failed
Sr	88	1	He	1171.440	1171.440	1.607	4982743	1.57	1000	117.1	79.5	120.5	
Mo	95	1	He	125.385	125.385	0.459	287898	0.27	100	125.4	79.5	120.5	LCS Failed
Ag	107	1	He	105.873	105.873	0.883	840174	0.87	100	105.9	79.5	120.5	
Cd	111	1	He	1079.111	1079.111	0.529	1430904	0.36	1000	107.9	79.5	120.5	
Sn	118	1	He	1122.265	1122.265	0.791	3461871	0.82	1000	112.2	79.5	120.5	
Sb	123	1	He	109.693	109.693	1.201	359392	0.57	100	109.7	79.5	120.5	
Ba	137	1	He	1069.389	1069.389	1.038	1382584	0.46	1000	106.9	79.5	120.5	
W	182	1	He	102.482	102.482	0.372	1031753	1.01	100	102.5	79.5	120.5	
Tl	205	1	He	261.419	261.419	0.588	5251564	1.22	250	104.6	79.5	120.5	
Pb	208	1	He	1074.447	1074.447	0.797	28399619	0.14	1000	107.4	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1558934	1.67	1803797	86.43	30	120	
Sc	45	1	He	531420	1.38	574766	92.46	30	120	
Sc	45	2	NoGas	3918790	1.91	4296857	91.20	30	120	
Rh	103	1	He	1283151	0.31	1652712	77.64	30	120	
In	115	1	He	704498	0.66	852389	82.65	30	120	
Tb	159	1	He	2163312	0.09	2425956	89.17	30	120	
Ho	165	1	He	2256979	1.38	2452680	92.02	30	120	
Bi	209	1	He	1459227	0.66	1810473	80.60	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	040_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:05:26-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	48.540	4.864	265392	2.23	50	97.1	89.5	110.5	
B	11	45	2	NoGas	52.367	2.721	188473	1.39	50	104.7	89.5	110.5	
Na	23	45	1	He	25748.965	2.338	39270976	0.50	25000	103.0	89.5	110.5	
Mg	24	45	1	He	25915.595	3.433	22388757	1.22	25000	103.7	89.5	110.5	
Al	27	45	1	He	258.242	2.401	116779	0.11	250	103.3	89.5	110.5	
K	39	45	1	He	25993.985	3.309	17693591	1.04	25000	104.0	89.5	110.5	
Ca	44	45	1	He	25026.431	2.239	905516	0.22	25000	100.1	89.5	110.5	
Ti	47	45	1	He	51.010	4.526	10982	3.24	50	102.0	89.5	110.5	
V	51	45	1	He	50.891	2.222	280218	0.49	50	101.8	89.5	110.5	
Cr	52	45	1	He	50.955	2.593	346831	0.39	50	101.9	89.5	110.5	
Mn	55	45	1	He	253.493	2.492	1210389	0.21	250	101.4	89.5	110.5	
Fe	56	45	1	He	12886.000	2.894	79637897	0.51	12500	103.1	89.5	110.5	
Co	59	103	1	He	50.178	3.062	488005	0.17	50	100.4	89.5	110.5	
Ni	60	103	1	He	50.153	3.563	124100	0.53	50	100.3	89.5	110.5	
Cu	63	103	1	He	50.665	3.142	336434	0.14	50	101.3	89.5	110.5	
Zn	66	103	1	He	51.636	2.866	70036	0.41	50	103.3	89.5	110.5	
As	75	103	1	He	51.054	1.790	43535	1.47	50	102.1	89.5	110.5	
Se	78	103	1	He	52.545	2.154	3721	1.81	50	105.1	89.5	110.5	
Sr	88	103	1	He	51.376	2.766	259695	0.49	50	102.8	89.5	110.5	
Mo	95	103	1	He	52.082	1.803	142462	2.12	50	104.2	89.5	110.5	
Ag	107	103	1	He	50.902	2.790	479814	0.44	50	101.8	89.5	110.5	
Cd	111	103	1	He	52.183	3.046	82932	0.22	50	104.4	89.5	110.5	
Sn	118	115	1	He	51.466	1.822	184329	1.54	50	102.9	89.5	110.5	
Sb	123	115	1	He	52.321	0.491	198643	0.65	50	104.6	89.5	110.5	
Ba	137	115	1	He	50.101	1.153	74903	1.33	50	100.2	89.5	110.5	
W	182	165	1	He	49.618	0.981	545539	1.30	50	99.2	89.5	110.5	
Tl	205	209	1	He	47.794	1.012	1164183	0.78	50	95.6	89.5	110.5	
Pb	208	209	1	He	49.320	0.328	1581193	0.24	50	98.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1748074	2.75	1803797	96.91	30	120	
Sc	45	1	He	569786	2.45	574766	99.13	30	120	
Sc	45	2	NoGas	4290450	1.24	4296857	99.85	30	120	
Rh	103	1	He	1525047	3.27	1652712	92.28	30	120	
In	115	1	He	814484	0.27	852389	95.55	30	120	
Tb	159	1	He	2391371	1.16	2425956	98.57	30	120	
Ho	165	1	He	2458477	0.97	2452680	100.24	30	120	
Bi	209	1	He	1768968	0.54	1810473	97.71	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	041_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:09:16-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.047	39.3	267	41.7	1	
B	11	45	2	NoGas	1.914	5.6	12586	4.8	20	
Na	23	45	1	He	87.437	6.3	163297	4.3	400	
Mg	24	45	1	He	0.923	48.3	1682	21.9	1000	
Al	27	45	1	He	7.287	1.3	3942	1.7	50	
K	39	45	1	He	3.913	68.8	65592	2.1	1000	
Ca	44	45	1	He	5.995	7.4	772	1.6	1000	
Ti	47	45	1	He	0.069	35.8	16	32.7	20	
V	51	45	1	He	0.047	41.4	506	20.0	2	
Cr	52	45	1	He	0.042	57.8	3204	4.3	2	
Mn	55	45	1	He	0.084	5.4	556	3.3	2	
Fe	56	45	1	He	12.177	33.5	79657	30.3	50	
Co	59	103	1	He	0.019	1.9	252	1.5	1	
Ni	60	103	1	He	0.013	84.9	129	20.9	2	
Cu	63	103	1	He	0.118	34.5	3310	8.7	2	
Zn	66	103	1	He	0.436	10.7	1473	4.9	20	
As	75	103	1	He	-0.023	-97.5	174	12.3	2	
Se	78	103	1	He	0.105	17.6	37	4.3	2	
Sr	88	103	1	He	0.051	23.4	419	16.2	10	
Mo	95	103	1	He	0.749	26.0	2889	20.1	2	
Ag	107	103	1	He	0.005	20.4	79	12.9	0.2	
Cd	111	103	1	He	0.125	20.2	1057	2.9	0.2	
Sn	118	115	1	He	0.709	16.3	3519	11.9	10	
Sb	123	115	1	He	0.434	10.7	2619	6.7	1	
Ba	137	115	1	He	0.039	15.8	74	12.9	5	
W	182	165	1	He	1.007	18.2	13840	14.6	10	
Tl	205	209	1	He	0.059	24.4	1916	18.4	0.5	
Pb	208	209	1	He	0.048	7.0	2530	3.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1774176	3.39	1803797	98.36	30	120	
Sc	45	1	He	558939	0.76	574766	97.25	30	120	
Sc	45	2	NoGas	4314480	1.84	4296857	100.41	30	120	
Rh	103	1	He	1643202	1.24	1652712	99.42	30	120	
In	115	1	He	853873	0.42	852389	100.17	30	120	
Tb	159	1	He	2407580	0.84	2425956	99.24	30	120	
Ho	165	1	He	2481647	0.07	2452680	101.18	30	120	
Bi	209	1	He	1854076	0.97	1810473	102.41	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	042CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:13:08-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.904	0.904	3.079	5075	4.97	1	90.4	69.5	130.5	
B	11	2	NoGas	20.290	20.290	1.369	77648	1.51	20	101.5	69.5	130.5	
Na	23	1	He	1146.883	1146.883	0.547	1824489	0.70	1000	114.7	69.5	130.5	
Mg	24	1	He	1071.153	1071.153	0.672	949077	0.23	1000	107.1	69.5	130.5	
Al	27	1	He	52.355	52.355	0.431	24861	0.46	50	104.7	69.5	130.5	
K	39	1	He	1055.997	1055.997	0.861	799591	0.65	1000	105.6	69.5	130.5	
Ca	44	1	He	1037.850	1037.850	2.125	39031	2.33	1000	103.8	69.5	130.5	
Ti	47	1	He	11.049	11.049	4.184	2438	3.76	10	110.5	69.5	130.5	
V	51	1	He	5.035	5.035	0.986	28643	0.53	5	100.7	69.5	130.5	
Cr	52	1	He	2.315	2.315	2.793	19059	2.62	2	115.7	69.5	130.5	
Mn	55	1	He	5.287	5.287	3.133	26030	3.45	5	105.7	69.5	130.5	
Fe	56	1	He	107.358	107.358	1.419	685928	1.37	100	107.4	69.5	130.5	
Co	59	1	He	1.002	1.002	3.353	10513	2.51	1	100.2	69.5	130.5	
Ni	60	1	He	2.225	2.225	3.650	6002	2.47	2	111.3	69.5	130.5	
Cu	63	1	He	2.105	2.105	3.616	17366	1.81	2	105.2	69.5	130.5	
Zn	66	1	He	20.614	20.614	1.538	30524	0.31	20	103.1	69.5	130.5	
As	75	1	He	4.984	4.984	1.015	4739	2.29	5	99.7	69.5	130.5	
Se	78	1	He	5.635	5.635	3.212	455	3.46	5	112.7	69.5	130.5	
Sr	88	1	He	9.902	9.902	1.300	53855	0.32	10	99.0	69.5	130.5	
Mo	95	1	He	10.430	10.430	0.932	31175	0.78	10	104.3	69.5	130.5	
Ag	107	1	He	1.055	1.055	1.429	10706	0.71	1	105.5	69.5	130.5	
Cd	111	1	He	1.074	1.074	2.620	2658	0.79	1	107.4	69.5	130.5	
Sn	118	1	He	10.479	10.479	3.522	40227	3.20	10	104.8	69.5	130.5	
Sb	123	1	He	2.076	2.076	5.038	9170	4.99	2	103.8	69.5	130.5	
Ba	137	1	He	5.141	5.141	1.589	8109	2.00	5	102.8	69.5	130.5	
W	182	1	He	9.973	9.973	3.055	113376	2.23	10	99.7	69.5	130.5	
Tl	205	1	He	1.959	1.959	1.473	50397	1.41	2	98.0	69.5	130.5	
Pb	208	1	He	1.067	1.067	3.303	36725	3.36	1	106.7	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1791672	2.04	1803797	99.33	30	120	
Sc	45	1	He	583517	0.46	574766	101.52	30	120	
Sc	45	2	NoGas	4348117	0.25	4296857	101.19	30	120	
Rh	103	1	He	1636646	1.35	1652712	99.03	30	120	
In	115	1	He	857951	0.46	852389	100.65	30	120	
Tb	159	1	He	2435256	1.07	2425956	100.38	30	120	
Ho	165	1	He	2493469	0.77	2452680	101.66	30	120	
Bi	209	1	He	1853699	0.32	1810473	102.39	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176863/1-a@2
Data File Name	043_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:16:58-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.057	31.8	326	31.7	1	
B	11	45	2	NoGas	2.334	9.4	13813	4.4	20	
Na	23	45	1	He	81.286	2.1	155595	2.1	400	
Mg	24	45	1	He	32.923	0.8	29087	1.3	1000	
Al	27	45	1	He	10.374	2.5	5352	1.8	50	
K	39	45	1	He	21.388	7.5	77952	0.3	1000	
Ca	44	45	1	He	192.191	4.1	7446	2.9	1000	
Ti	47	45	1	He	0.370	32.6	80	32.5	20	
V	51	45	1	He	0.373	53.2	2283	46.5	2	
Cr	52	45	1	He	1.681	2.9	14186	1.1	2	
Mn	55	45	1	He	1.116	4.8	5444	4.4	2	
Fe	56	45	1	He	17.026	2.2	110234	3.2	50	
Co	59	103	1	He	0.029	20.8	343	18.1	1	
Ni	60	103	1	He	0.242	3.0	710	2.5	2	
Cu	63	103	1	He	0.982	8.7	9070	6.0	2	
Zn	66	103	1	He	4.264	6.2	6719	5.0	20	
As	75	103	1	He	0.362	9.4	505	5.3	2	
Se	78	103	1	He	0.144	42.4	39	11.2	2	
Sr	88	103	1	He	0.396	8.4	2207	8.4	10	
Mo	95	103	1	He	0.220	37.5	1282	17.5	2	
Ag	107	103	1	He	0.001	192.9	42	52.6	0.2	
Cd	111	103	1	He	0.151	2.0	1057	0.5	0.2	
Sn	118	115	1	He	22.138	2.7	80762	2.4	10	Blank Failed
Sb	123	115	1	He	0.341	22.0	2174	12.9	1	
Ba	137	115	1	He	0.821	3.7	1256	3.5	5	
W	182	165	1	He	0.546	12.2	8584	9.7	10	
Tl	205	209	1	He	0.060	25.8	1949	20.9	0.5	
Pb	208	209	1	He	0.351	6.8	12747	7.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1803396	0.86	1803797	99.98	30	120	
Sc	45	1	He	564216	1.25	574766	98.16	30	120	
Sc	45	2	NoGas	4242019	1.79	4296857	98.72	30	120	
Rh	103	1	He	1575630	0.59	1652712	95.34	30	120	
In	115	1	He	824714	0.46	852389	96.75	30	120	
Tb	159	1	He	2406862	0.08	2425956	99.21	30	120	
Ho	165	1	He	2432842	1.33	2452680	99.19	30	120	
Bi	209	1	He	1859649	0.77	1810473	102.72	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176863/3-a@2
Data File Name	044LCSS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:20:48-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	546.624	546.624	3.057	2924885	0.97	500	109.3	78.6	110.5	
B	11	2	NoGas	62.891	62.891	2.098	212827	2.58	50	125.8	79.5	120.5	LCSS Failed
Na	23	1	He	5267.811	5267.811	0.818	7703521	1.74	5000	105.4	79.5	120.5	
Mg	24	1	He	5340.941	5340.941	1.387	4410679	1.08	5000	106.8	79.5	120.5	
Al	27	1	He	5091.250	5091.250	0.812	2187062	1.69	5000	101.8	79.5	120.5	
K	39	1	He	5205.907	5205.907	1.483	3436158	2.08	5000	104.1	79.5	120.5	
Ca	44	1	He	5061.663	5061.663	1.440	175443	1.03	5000	101.2	79.5	120.5	
Ti	47	1	He	51.232	51.232	1.450	10542	1.31	50	102.5	79.5	120.5	
V	51	1	He	520.872	520.872	0.997	2738596	1.56	500	104.2	71.5	110.5	
Cr	52	1	He	523.030	523.030	0.548	3376557	2.54	500	104.6	69.5	110.5	
Mn	55	1	He	529.104	529.104	1.414	2414156	1.30	500	105.8	79.5	120.5	
Fe	56	1	He	5306.679	5306.679	1.139	31348690	1.58	5000	106.1	79.5	120.5	
Co	59	1	He	491.095	491.095	2.651	4753952	0.56	500	98.2	73.9	110.5	
Ni	60	1	He	487.972	487.972	1.447	1201577	1.39	500	97.6	74.9	110.5	
Cu	63	1	He	508.504	508.504	3.236	3340461	1.31	500	101.7	72.6	110.5	
Zn	66	1	He	481.933	481.933	2.532	644193	0.80	500	96.4	71.5	113.4	
As	75	1	He	467.017	467.017	1.853	394890	0.86	500	93.4	73.4	110.5	
Se	78	1	He	471.029	471.029	1.974	32986	1.69	500	94.2	64.6	110.5	
Sr	88	1	He	508.804	508.804	2.268	2559044	0.80	500	101.8	79.5	120.5	
Mo	95	1	He	53.953	53.953	1.921	146850	0.78	50	107.9	29.5	140.5	
Ag	107	1	He	50.645	50.645	1.778	475255	0.92	50	101.3	59.5	114.5	
Cd	111	1	He	490.690	490.690	1.704	769830	0.99	500	98.1	73.5	110.5	
Sn	118	1	He	558.275	558.275	0.237	1901228	0.13	500	111.7	79.5	120.5	
Sb	123	1	He	50.320	50.320	0.756	182422	0.64	50	100.6	67.5	113.4	
Ba	137	1	He	495.249	495.249	0.425	706765	0.29	500	99.0	69.5	110.5	
W	182	1	He	48.935	48.935	0.934	526725	1.00	50	97.9	74.6	125.4	
Tl	205	1	He	120.157	120.157	1.643	2897840	1.16	125	96.1	70.6	110.5	
Pb	208	1	He	486.935	486.935	0.724	15452682	0.95	500	97.4	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1710007	2.05	1803797	94.80	30	120	
Sc	45	1	He	544410	2.48	574766	94.72	30	120	
Sc	45	2	NoGas	4054027	0.81	4296857	94.35	30	120	
Rh	103	1	He	1517786	2.70	1652712	91.84	30	120	
In	115	1	He	777598	0.26	852389	91.23	30	120	
Tb	159	1	He	2330696	0.75	2425956	96.07	30	120	
Ho	165	1	He	2406665	0.36	2452680	98.12	30	120	
Bi	209	1	He	1752004	1.67	1810473	96.77	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	045SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:24:24-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.143	1.143	6.60	5664	0.02	10000	
B	11	45	2	NoGas	21.146	21.146	1.25	121162	0.02	300	
Na	23	45	1	He	811.573	811.573	0.92	2014877	0.04	500000	
Mg	24	45	1	He	2819.857	2819.857	1.33	3866874	0.07	500000	
Al	27	45	1	He	17706.894	17706.894	0.90	12625012	0.14	200000	
K	39	45	1	He	124.628	124.628	3.63	235954	0.05	500000	
Ca	44	45	1	He	787165.533	787165.533	1.29	45161652	1.74	500000	>LDR
Ti	47	45	1	He	44672.256	44672.256	1.32	15259694	0.29	2500	>LDR
V	51	45	1	He	3694.843	3694.843	1.52	32246935	0.01	10000	
Cr	52	45	1	He	1651.828	1651.828	2.19	17689022	0.01	10000	
Mn	55	45	1	He	5450.127	5450.127	1.08	41283339	0.01	10000	
Fe	56	45	1	He	198513.944	198513.944	0.85	1946565469	0.01	200000	
Co	59	103	1	He	45.318	45.318	0.58	372666	0.01	10000	
Ni	60	103	1	He	93.912	93.912	1.38	196435	0.05	10000	
Cu	63	103	1	He	129.763	129.763	0.60	725562	0.02	10000	
Zn	66	103	1	He	592.883	592.883	1.01	672969	0.09	10000	
As	75	103	1	He	17.218	17.218	1.20	12513	0.14	10000	
Se	78	103	1	He	5.095	5.095	6.45	326	1.56	10000	
Sr	88	103	1	He	28060.450	28060.450	1.10	119860271	0.02	10000	>LDR
Mo	95	103	1	He	19.910	19.910	1.35	46369	0.04	2000	
Ag	107	103	1	He	1.830	1.830	7.90	14612	0.01	300	
Cd	111	103	1	He	9.005	9.005	5.79	12650	0.07	4000	
Sn	118	115	1	He	75.530	75.530	0.81	239508	0.03	2000	
Sb	123	115	1	He	1.005	1.005	0.24	4128	0.02	300	
Ba	137	115	1	He	62.881	62.881	1.94	83345	0.08	10000	
W	182	165	1	He	37.282	37.282	1.38	380253	0.01	2500	
Tl	205	209	1	He	0.212	0.212	15.21	4544	0.00	5000	
Pb	208	209	1	He	110.881	110.881	0.45	2913467	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1581593	1.62	1803797	87.68	30	120	
Sc	45	1	He	903727	1.12	574766	157.23	30	120	ISTD Failed
Sc	45	2	NoGas	6531167	1.33	4296857	152.00	30	120	ISTD Failed
Rh	103	1	He	1288657	0.82	1652712	77.97	30	120	
In	115	1	He	722126	0.19	852389	84.72	30	120	
Tb	159	1	He	2210046	2.05	2425956	91.10	30	120	
Ho	165	1	He	2277071	0.91	2452680	92.84	30	120	
Bi	209	1	He	1450223	0.38	1810473	80.10	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-j@10
Data File Name	046SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:28:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.263	0.263	3.62	1311	0.02	10000	
B	11	45	2	NoGas	6.750	6.750	2.61	30341	0.02	300	
Na	23	45	1	He	260.979	260.979	0.78	457752	0.06	500000	
Mg	24	45	1	He	870.336	870.336	0.64	799841	0.11	500000	
Al	27	45	1	He	5545.922	5545.922	1.21	2648157	0.21	200000	
K	39	45	1	He	38.953	38.953	9.48	96254	0.04	500000	
Ca	44	45	1	He	242934.059	242934.059	1.29	9332495	2.60	500000	
Ti	47	45	1	He	13914.419	13914.419	1.66	3182436	0.44	2500	>LDR
V	51	45	1	He	1171.678	1171.678	2.10	6847179	0.02	10000	
Cr	52	45	1	He	527.872	527.872	0.74	3787498	0.01	10000	
Mn	55	45	1	He	1723.812	1723.812	1.08	8742989	0.02	10000	
Fe	56	45	1	He	64108.917	64108.917	0.76	420929281	0.02	200000	
Co	59	103	1	He	8.845	8.845	0.65	81993	0.01	10000	
Ni	60	103	1	He	18.663	18.663	1.63	44055	0.04	10000	
Cu	63	103	1	He	25.967	25.967	0.94	165340	0.02	10000	
Zn	66	103	1	He	121.547	121.547	0.68	156043	0.08	10000	
As	75	103	1	He	2.909	2.909	2.19	2526	0.12	10000	
Se	78	103	1	He	0.856	0.856	7.27	83	1.03	10000	
Sr	88	103	1	He	5237.359	5237.359	0.92	25207120	0.02	10000	
Mo	95	103	1	He	3.599	3.599	3.61	9944	0.04	2000	
Ag	107	103	1	He	0.318	0.318	1.58	2887	0.01	300	
Cd	111	103	1	He	1.570	1.570	11.85	3103	0.05	4000	
Sn	118	115	1	He	15.029	15.029	2.87	51846	0.03	2000	
Sb	123	115	1	He	0.239	0.239	12.67	1679	0.01	300	
Ba	137	115	1	He	13.015	13.015	1.31	18544	0.07	10000	
W	182	165	1	He	7.669	7.669	0.75	86822	0.01	2500	
Tl	205	209	1	He	0.035	0.035	7.94	1248	0.00	5000	
Pb	208	209	1	He	20.995	20.995	0.11	673296	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1586930	0.59	1803797	87.98	30	120	
Sc	45	1	He	605098	0.93	574766	105.28	30	120	
Sc	45	2	NoGas	4429995	0.77	4296857	103.10	30	120	
Rh	103	1	He	1451890	0.49	1652712	87.85	30	120	
In	115	1	He	775890	1.07	852389	91.03	30	120	
Tb	159	1	He	2381427	0.34	2425956	98.16	30	120	
Ho	165	1	He	2464880	0.45	2452680	100.50	30	120	
Bi	209	1	He	1768118	0.27	1810473	97.66	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	047SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:31:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.045	1.045	5.38	4627	0.02	10000	
B	11	45	2	NoGas	20.219	20.219	0.48	107404	0.02	300	
Na	23	45	1	He	818.727	818.727	1.41	1941545	0.04	500000	
Mg	24	45	1	He	2820.090	2820.090	0.99	3695097	0.08	500000	
Al	27	45	1	He	17151.717	17151.717	0.94	11684310	0.15	200000	
K	39	45	1	He	122.264	122.264	3.05	223024	0.05	500000	
Ca	44	45	1	He	778765.557	778765.557	1.63	42686900	1.82	500000	>LDR
Ti	47	45	1	He	44478.002	44478.002	1.42	14516773	0.31	2500	>LDR
V	51	45	1	He	3728.224	3728.224	1.34	31089928	0.01	10000	
Cr	52	45	1	He	1667.698	1667.698	1.28	17065163	0.01	10000	
Mn	55	45	1	He	5414.027	5414.027	0.42	39184185	0.01	10000	
Fe	56	45	1	He	199405.669	199405.669	0.36	1868187730	0.01	200000	
Co	59	103	1	He	45.223	45.223	0.89	364765	0.01	10000	
Ni	60	103	1	He	93.377	93.377	0.76	191581	0.05	10000	
Cu	63	103	1	He	129.375	129.375	0.64	709534	0.02	10000	
Zn	66	103	1	He	585.548	585.548	0.43	651928	0.09	10000	
As	75	103	1	He	16.593	16.593	0.96	11833	0.14	10000	
Se	78	103	1	He	4.370	4.370	4.03	277	1.58	10000	
Sr	88	103	1	He	27043.881	27043.881	1.91	113306338	0.02	10000	>LDR
Mo	95	103	1	He	19.400	19.400	1.50	44326	0.04	2000	
Ag	107	103	1	He	2.214	2.214	0.76	17328	0.01	300	
Cd	111	103	1	He	10.848	10.848	2.15	14813	0.07	4000	
Sn	118	115	1	He	75.698	75.698	1.72	229413	0.03	2000	
Sb	123	115	1	He	0.913	0.913	1.78	3652	0.03	300	
Ba	137	115	1	He	64.428	64.428	0.49	81617	0.08	10000	
W	182	165	1	He	38.643	38.643	0.94	388219	0.01	2500	
Tl	205	209	1	He	0.124	0.124	11.23	2716	0.00	5000	
Pb	208	209	1	He	112.023	112.023	0.54	2868180	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1413045	0.26	1803797	78.34	30	120	
Sc	45	1	He	863418	0.37	574766	150.22	30	120	ISTD Failed
Sc	45	2	NoGas	6034112	0.38	4296857	140.43	30	120	ISTD Failed
Rh	103	1	He	1263931	0.25	1652712	76.48	30	120	
In	115	1	He	690185	0.59	852389	80.97	30	120	
Tb	159	1	He	2173236	0.90	2425956	89.58	30	120	
Ho	165	1	He	2243293	0.62	2452680	91.46	30	120	
Bi	209	1	He	1413134	0.18	1810473	78.05	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@10
Data File Name	048SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:35:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.237	0.237	4.66	1096	0.02	10000	
B	11	45	2	NoGas	6.408	6.408	2.42	27184	0.02	300	
Na	23	45	1	He	261.446	261.446	0.82	436170	0.06	500000	
Mg	24	45	1	He	869.063	869.063	0.14	759749	0.11	500000	
Al	27	45	1	He	5440.408	5440.408	1.10	2471234	0.22	200000	
K	39	45	1	He	40.223	40.223	3.02	92446	0.04	500000	
Ca	44	45	1	He	238429.139	238429.139	1.46	8713138	2.74	500000	
Ti	47	45	1	He	13732.917	13732.917	1.77	2987896	0.46	2500	>LDR
V	51	45	1	He	1185.742	1185.742	0.07	6592036	0.02	10000	
Cr	52	45	1	He	539.328	539.328	1.05	3680971	0.01	10000	
Mn	55	45	1	He	1714.507	1714.507	1.31	8272114	0.02	10000	
Fe	56	45	1	He	63613.230	63613.230	1.38	397292633	0.02	200000	
Co	59	103	1	He	8.801	8.801	1.43	79718	0.01	10000	
Ni	60	103	1	He	18.221	18.221	2.28	42026	0.04	10000	
Cu	63	103	1	He	25.645	25.645	1.16	159576	0.02	10000	
Zn	66	103	1	He	118.510	118.510	0.31	148678	0.08	10000	
As	75	103	1	He	2.781	2.781	1.98	2367	0.12	10000	
Se	78	103	1	He	0.791	0.791	19.46	77	1.02	10000	
Sr	88	103	1	He	5112.913	5112.913	1.41	24044544	0.02	10000	
Mo	95	103	1	He	3.581	3.581	1.93	9671	0.04	2000	
Ag	107	103	1	He	0.317	0.317	8.35	2806	0.01	300	
Cd	111	103	1	He	1.589	1.589	7.08	3059	0.05	4000	
Sn	118	115	1	He	15.152	15.152	0.98	50416	0.03	2000	
Sb	123	115	1	He	0.178	0.178	16.98	1407	0.01	300	
Ba	137	115	1	He	12.818	12.818	1.71	17623	0.07	10000	
W	182	165	1	He	7.700	7.700	1.41	83894	0.01	2500	
Tl	205	209	1	He	0.024	0.024	6.38	918	0.00	5000	
Pb	208	209	1	He	21.514	21.514	2.30	655538	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1471874	2.62	1803797	81.60	30	120	
Sc	45	1	He	575589	0.47	574766	100.14	30	120	
Sc	45	2	NoGas	4137730	1.02	4296857	96.30	30	120	
Rh	103	1	He	1418670	0.11	1652712	85.84	30	120	
In	115	1	He	748604	0.54	852389	87.82	30	120	
Tb	159	1	He	2318206	0.18	2425956	95.56	30	120	
Ho	165	1	He	2372269	0.84	2452680	96.72	30	120	
Bi	209	1	He	1680675	2.41	1810473	92.83	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	049SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:39:21-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.187	1.187	8.94	4956	0.02	10000	
B	11	45	2	NoGas	19.846	19.846	3.01	98471	0.02	300	
Na	23	45	1	He	825.274	825.274	1.47	1839582	0.04	500000	
Mg	24	45	1	He	2833.932	2833.932	0.99	3490989	0.08	500000	
Al	27	45	1	He	16844.074	16844.074	1.31	10787690	0.16	200000	
K	39	45	1	He	122.339	122.339	1.45	209755	0.06	500000	
Ca	44	45	1	He	772882.872	772882.872	0.91	39830014	1.94	500000	>LDR
Ti	47	45	1	He	44166.021	44166.021	1.32	13552353	0.33	2500	>LDR
V	51	45	1	He	3734.148	3734.148	1.00	29275970	0.01	10000	
Cr	52	45	1	He	1692.062	1692.062	0.38	16278779	0.01	10000	
Mn	55	45	1	He	5398.330	5398.330	1.08	36731325	0.01	10000	
Fe	56	45	1	He	199700.915	199700.915	1.13	1758950615	0.01	200000	
Co	59	103	1	He	44.608	44.608	0.11	345143	0.01	10000	
Ni	60	103	1	He	92.867	92.867	0.22	182774	0.05	10000	
Cu	63	103	1	He	127.612	127.612	0.39	671374	0.02	10000	
Zn	66	103	1	He	575.355	575.355	0.28	614495	0.09	10000	
As	75	103	1	He	15.997	15.997	1.14	10948	0.15	10000	
Se	78	103	1	He	4.282	4.282	4.30	261	1.64	10000	
Sr	88	103	1	He	26458.186	26458.186	0.68	106335947	0.02	10000	>LDR
Mo	95	103	1	He	19.414	19.414	0.39	42553	0.05	2000	
Ag	107	103	1	He	2.226	2.226	2.12	16715	0.01	300	
Cd	111	103	1	He	10.225	10.225	7.18	13428	0.08	4000	
Sn	118	115	1	He	76.503	76.503	1.19	219149	0.03	2000	
Sb	123	115	1	He	0.814	0.814	4.05	3151	0.03	300	
Ba	137	115	1	He	64.004	64.004	0.75	76638	0.08	10000	
W	182	165	1	He	38.248	38.248	1.81	367382	0.01	2500	
Tl	205	209	1	He	0.108	0.108	3.00	2310	0.00	5000	
Pb	208	209	1	He	111.399	111.399	0.40	2726503	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1332912	0.46	1803797	73.89	30	120	
Sc	45	1	He	811779	0.87	574766	141.24	30	120	ISTD Failed
Sc	45	2	NoGas	5628807	1.23	4296857	131.00	30	120	ISTD Failed
Rh	103	1	He	1212444	0.38	1652712	73.36	30	120	
In	115	1	He	652363	0.27	852389	76.53	30	120	
Tb	159	1	He	2065113	0.48	2425956	85.13	30	120	
Ho	165	1	He	2144946	1.24	2452680	87.45	30	120	
Bi	209	1	He	1350873	0.52	1810473	74.61	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-j@2
Data File Name	050SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:43:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1059.722	1059.722	1.21	4402547	0.02	10000	
B	11	45	2	NoGas	89.475	89.475	1.68	415821	0.02	300	
Na	23	45	1	He	7156.648	7156.648	1.19	15341000	0.05	500000	
Mg	24	45	1	He	8849.688	8849.688	0.98	10725134	0.08	500000	
Al	27	45	1	He	22147.273	22147.273	1.40	13957203	0.16	200000	
K	39	45	1	He	6112.783	6112.783	0.60	5905430	0.10	500000	
Ca	44	45	1	He	778113.591	778113.591	0.16	39462145	1.97	500000	>LDR
Ti	47	45	1	He	43937.982	43937.982	0.67	13268249	0.33	2500	>LDR
V	51	45	1	He	4382.348	4382.348	1.38	33809767	0.01	10000	
Cr	52	45	1	He	2284.416	2284.416	0.47	21625502	0.01	10000	
Mn	55	45	1	He	5914.191	5914.191	1.18	39600081	0.01	10000	
Fe	56	45	1	He	204324.841	204324.841	1.41	1771002739	0.01	200000	>LDR
Co	59	103	1	He	1085.025	1085.025	1.34	8478439	0.01	10000	
Ni	60	103	1	He	1163.190	1163.190	1.39	2311551	0.05	10000	
Cu	63	103	1	He	1152.947	1152.947	2.04	6111482	0.02	10000	
Zn	66	103	1	He	1582.331	1582.331	2.35	1705785	0.09	10000	
As	75	103	1	He	1059.533	1059.533	0.59	722943	0.15	10000	
Se	78	103	1	He	1070.342	1070.342	0.39	60471	1.77	10000	
Sr	88	103	1	He	26859.094	26859.094	1.03	109036031	0.02	10000	>LDR
Mo	95	103	1	He	139.783	139.783	0.59	306279	0.05	2000	
Ag	107	103	1	He	105.053	105.053	1.13	795655	0.01	300	
Cd	111	103	1	He	1011.867	1011.867	0.90	1280620	0.08	4000	
Sn	118	115	1	He	1206.690	1206.690	1.52	3385196	0.04	2000	
Sb	123	115	1	He	107.135	107.135	0.67	319253	0.03	300	
Ba	137	115	1	He	1092.336	1092.336	0.15	1284413	0.09	10000	
W	182	165	1	He	140.500	140.500	0.85	1360581	0.01	2500	
Tl	205	209	1	He	275.741	275.741	0.73	5066416	0.01	5000	
Pb	208	209	1	He	1215.633	1215.633	0.41	29389987	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1327234	1.12	1803797	73.58	30	120	
Sc	45	1	He	798846	1.10	574766	138.99	30	120	ISTD Failed
Sc	45	2	NoGas	5610672	0.51	4296857	130.58	30	120	ISTD Failed
Rh	103	1	He	1224743	1.24	1652712	74.11	30	120	
In	115	1	He	640700	0.28	852389	75.17	30	120	
Tb	159	1	He	2086862	1.10	2425956	86.02	30	120	
Ho	165	1	He	2172217	0.43	2452680	88.57	30	120	
Bi	209	1	He	1334678	0.65	1810473	73.72	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-k ms@2
Data File Name	051SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:46:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	526.443	526.443	1.74	2188379	0.02	10000	
B	11	45	2	NoGas	53.818	53.818	0.30	252247	0.02	300	
Na	23	45	1	He	3981.577	3981.577	0.71	8533863	0.05	500000	
Mg	24	45	1	He	5656.745	5656.745	0.68	6838357	0.08	500000	
Al	27	45	1	He	18856.999	18856.999	1.60	11852845	0.16	200000	
K	39	45	1	He	3086.446	3086.446	0.46	3018587	0.10	500000	
Ca	44	45	1	He	803470.563	803470.563	1.51	40644872	1.98	500000	>LDR
Ti	47	45	1	He	43231.215	43231.215	0.75	13020955	0.33	2500	>LDR
V	51	45	1	He	3965.121	3965.121	1.14	30514915	0.01	10000	
Cr	52	45	1	He	1950.083	1950.083	0.62	18414681	0.01	10000	
Mn	55	45	1	He	5496.904	5496.904	2.25	36709232	0.01	10000	
Fe	56	45	1	He	200259.253	200259.253	0.78	1731396767	0.01	200000	>LDR
Co	59	103	1	He	562.670	562.670	1.04	4459399	0.01	10000	
Ni	60	103	1	He	584.263	584.263	1.06	1177632	0.05	10000	
Cu	63	103	1	He	634.265	634.265	0.50	3410955	0.02	10000	
Zn	66	103	1	He	993.062	993.062	0.80	1086027	0.09	10000	
As	75	103	1	He	508.980	508.980	0.41	352286	0.14	10000	
Se	78	103	1	He	510.836	510.836	1.43	29281	1.74	10000	
Sr	88	103	1	He	26301.579	26301.579	1.12	108287749	0.02	10000	>LDR
Mo	95	103	1	He	76.188	76.188	0.47	169537	0.04	2000	
Ag	107	103	1	He	51.613	51.613	0.21	396478	0.01	300	
Cd	111	103	1	He	494.007	494.007	0.70	634428	0.08	4000	
Sn	118	115	1	He	629.026	629.026	1.80	1797558	0.03	2000	
Sb	123	115	1	He	45.541	45.541	1.66	138603	0.03	300	
Ba	137	115	1	He	558.561	558.561	1.38	668907	0.08	10000	
W	182	165	1	He	68.909	68.909	0.80	673644	0.01	2500	
Tl	205	209	1	He	135.005	135.005	0.45	2498211	0.01	5000	
Pb	208	209	1	He	650.045	650.045	0.21	15827355	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1328048	1.16	1803797	73.63	30	120	
Sc	45	1	He	796815	1.59	574766	138.63	30	120	ISTD Failed
Sc	45	2	NoGas	5590893	1.19	4296857	130.12	30	120	ISTD Failed
Rh	103	1	He	1242050	0.49	1652712	75.15	30	120	
In	115	1	He	652613	1.58	852389	76.56	30	120	
Tb	159	1	He	2116942	0.66	2425956	87.26	30	120	
Ho	165	1	He	2188985	0.66	2452680	89.25	30	120	
Bi	209	1	He	1344111	0.47	1810473	74.24	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	052_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:50:19-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.523	3.587	228206	1.17	50	91.0	89.5	110.5	
B	11	45	2	NoGas	53.647	1.673	182629	0.16	50	107.3	89.5	110.5	
Na	23	45	1	He	28058.160	0.136	38882048	1.19	25000	112.2	89.5	110.5	CCV Failed
Mg	24	45	1	He	27685.742	0.874	21736059	0.67	25000	110.7	89.5	110.5	CCV Failed
Al	27	45	1	He	255.816	0.275	105123	0.88	250	102.3	89.5	110.5	
K	39	45	1	He	26796.612	0.724	16574973	1.41	25000	107.2	89.5	110.5	
Ca	44	45	1	He	25916.511	0.929	852027	1.09	25000	103.7	89.5	110.5	
Ti	47	45	1	He	103.353	6.950	20211	5.85	50	206.7	89.5	110.5	CCV Failed
V	51	45	1	He	55.229	0.530	276299	0.56	50	110.5	89.5	110.5	
Cr	52	45	1	He	55.469	1.834	342803	0.74	50	110.9	89.5	110.5	CCV Failed
Mn	55	45	1	He	267.717	1.848	1161428	0.79	250	107.1	89.5	110.5	
Fe	56	45	1	He	13980.863	1.491	78511632	0.41	12500	111.8	89.5	110.5	CCV Failed
Co	59	103	1	He	48.043	2.817	491021	0.78	50	96.1	89.5	110.5	
Ni	60	103	1	He	48.089	2.439	125075	1.15	50	96.2	89.5	110.5	
Cu	63	103	1	He	48.885	2.676	341230	0.89	50	97.8	89.5	110.5	
Zn	66	103	1	He	48.633	2.707	69364	0.28	50	97.3	89.5	110.5	
As	75	103	1	He	47.002	3.033	42120	0.44	50	94.0	89.5	110.5	
Se	78	103	1	He	45.733	2.419	3407	0.32	50	91.5	89.5	110.5	
Sr	88	103	1	He	49.005	2.216	260391	2.85	50	98.0	89.5	110.5	
Mo	95	103	1	He	51.387	2.903	147672	1.36	50	102.8	89.5	110.5	
Ag	107	103	1	He	50.321	3.084	498420	1.02	50	100.6	89.5	110.5	
Cd	111	103	1	He	50.039	1.716	83619	1.10	50	100.1	89.5	110.5	
Sn	118	115	1	He	51.701	0.474	178316	0.65	50	103.4	89.5	110.5	
Sb	123	115	1	He	54.264	0.482	198356	0.47	50	108.5	89.5	110.5	
Ba	137	115	1	He	52.661	1.367	75812	1.12	50	105.3	89.5	110.5	
W	182	165	1	He	51.144	2.002	571471	1.37	50	102.3	89.5	110.5	
Tl	205	209	1	He	49.167	1.795	1187699	0.43	50	98.3	89.5	110.5	
Pb	208	209	1	He	50.496	1.300	1605543	0.45	50	101.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1602330	2.55	1803797	88.83	30	120	
Sc	45	1	He	517552	1.08	574766	90.05	30	120	
Sc	45	2	NoGas	4061027	1.51	4296857	94.51	30	120	
Rh	103	1	He	1602318	2.60	1652712	96.95	30	120	
In	115	1	He	784319	0.28	852389	92.01	30	120	
Tb	159	1	He	2446425	1.95	2425956	100.84	30	120	
Ho	165	1	He	2499075	0.83	2452680	101.89	30	120	
Bi	209	1	He	1754592	1.40	1810473	96.91	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	053_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:54:09-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.079	1.9	433	2.6	1	
B	11	45	2	NoGas	2.668	4.2	15455	1.0	20	
Na	23	45	1	He	22.883	3.5	67583	1.6	400	
Mg	24	45	1	He	1.145	23.4	1893	12.0	1000	
Al	27	45	1	He	7.605	2.6	4129	2.3	50	
K	39	45	1	He	6.357	30.2	68013	1.8	1000	
Ca	44	45	1	He	40.276	4.2	2011	2.8	1000	
Ti	47	45	1	He	6.330	11.2	1355	11.5	20	
V	51	45	1	He	0.216	45.5	1439	37.5	2	
Cr	52	45	1	He	0.081	20.5	3506	3.3	2	
Mn	55	45	1	He	0.339	5.3	1772	4.6	2	
Fe	56	45	1	He	18.377	12.1	118734	11.3	50	
Co	59	103	1	He	0.017	14.3	248	9.5	1	
Ni	60	103	1	He	0.007	60.5	122	9.6	2	
Cu	63	103	1	He	-0.039	-29.9	2365	2.1	2	
Zn	66	103	1	He	0.427	16.4	1572	5.6	20	
As	75	103	1	He	0.094	22.2	303	5.1	2	
Se	78	103	1	He	0.071	57.8	38	10.8	2	
Sr	88	103	1	He	0.619	9.5	3782	7.5	10	
Mo	95	103	1	He	0.693	22.8	2931	15.8	2	
Ag	107	103	1	He	0.005	74.1	88	44.0	0.2	
Cd	111	103	1	He	0.064	32.5	1028	2.7	0.2	
Sn	118	115	1	He	0.436	12.2	2523	8.2	10	
Sb	123	115	1	He	0.379	10.9	2422	6.2	1	
Ba	137	115	1	He	0.026	29.2	54	21.5	5	
W	182	165	1	He	1.001	13.2	14351	10.2	10	
Tl	205	209	1	He	0.067	14.3	2164	12.3	0.5	
Pb	208	209	1	He	0.034	9.9	2093	6.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1739593	0.86	1803797	96.44	30	120	
Sc	45	1	He	565487	0.22	574766	98.39	30	120	
Sc	45	2	NoGas	4380268	1.60	4296857	101.94	30	120	
Rh	103	1	He	1769845	1.80	1652712	107.09	30	120	
In	115	1	He	861503	0.67	852389	101.07	30	120	
Tb	159	1	He	2536549	0.40	2425956	104.56	30	120	
Ho	165	1	He	2587277	0.54	2452680	105.49	30	120	
Bi	209	1	He	1889898	0.74	1810473	104.39	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-l msd@2
Data File Name	054SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T13:58:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	534.427	534.427	0.70	2327804	0.02	10000	
B	11	45	2	NoGas	53.929	53.929	0.88	259650	0.02	300	
Na	23	45	1	He	4003.013	4003.013	1.03	8562597	0.05	500000	
Mg	24	45	1	He	5670.677	5670.677	0.79	6841611	0.08	500000	
Al	27	45	1	He	18802.148	18802.148	1.25	11795828	0.16	200000	
K	39	45	1	He	3198.061	3198.061	1.84	3118117	0.10	500000	
Ca	44	45	1	He	789209.056	789209.056	0.96	39841152	1.98	500000	>LDR
Ti	47	45	1	He	42291.452	42291.452	0.56	12712339	0.33	2500	>LDR
V	51	45	1	He	3854.099	3854.099	1.45	29599512	0.01	10000	
Cr	52	45	1	He	1899.438	1899.438	1.52	17899277	0.01	10000	
Mn	55	45	1	He	5234.739	5234.739	1.32	34891420	0.02	10000	
Fe	56	45	1	He	191674.271	191674.271	0.50	1653825072	0.01	200000	
Co	59	103	1	He	562.963	562.963	0.55	4497769	0.01	10000	
Ni	60	103	1	He	583.300	583.300	0.53	1185145	0.05	10000	
Cu	63	103	1	He	635.430	635.430	0.64	3444748	0.02	10000	
Zn	66	103	1	He	985.002	985.002	0.92	1085931	0.09	10000	
As	75	103	1	He	518.456	518.456	0.96	361724	0.14	10000	
Se	78	103	1	He	528.900	528.900	0.33	30560	1.73	10000	
Sr	88	103	1	He	25295.257	25295.257	0.19	104985485	0.02	10000	>LDR
Mo	95	103	1	He	76.733	76.733	0.58	172129	0.04	2000	
Ag	107	103	1	He	51.879	51.879	0.29	401729	0.01	300	
Cd	111	103	1	He	500.641	500.641	0.53	648104	0.08	4000	
Sn	118	115	1	He	629.584	629.584	1.17	1827202	0.03	2000	
Sb	123	115	1	He	46.811	46.811	1.35	144678	0.03	300	
Ba	137	115	1	He	565.874	565.874	0.40	688247	0.08	10000	
W	182	165	1	He	70.530	70.530	1.57	697713	0.01	2500	
Tl	205	209	1	He	133.981	133.981	0.93	2569057	0.01	5000	
Pb	208	209	1	He	637.795	637.795	0.93	16091236	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1391394	0.29	1803797	77.14	30	120	
Sc	45	1	He	795174	0.23	574766	138.35	30	120	ISTD Failed
Sc	45	2	NoGas	5743711	0.61	4296857	133.67	30	120	ISTD Failed
Rh	103	1	He	1252064	0.74	1652712	75.76	30	120	
In	115	1	He	662709	0.52	852389	77.75	30	120	
Tb	159	1	He	2156106	0.54	2425956	88.88	30	120	
Ho	165	1	He	2215055	0.75	2452680	90.31	30	120	
Bi	209	1	He	1392807	0.49	1810473	76.93	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-3-e@2
Data File Name	055SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:01:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.038	1.038	12.10	4312	0.02	10000	
B	11	45	2	NoGas	23.050	23.050	0.31	111002	0.02	300	
Na	23	45	1	He	608.376	608.376	0.12	1333335	0.05	500000	
Mg	24	45	1	He	3728.411	3728.411	1.13	4473975	0.08	500000	
Al	27	45	1	He	16143.579	16143.579	1.06	10072690	0.16	200000	
K	39	45	1	He	128.580	128.580	0.88	210229	0.06	500000	
Ca	44	45	1	He	589194.017	589194.017	0.06	29582101	1.99	500000	>LDR
Ti	47	45	1	He	42297.817	42297.817	0.36	12645198	0.33	2500	>LDR
V	51	45	1	He	3615.180	3615.180	0.26	27613392	0.01	10000	
Cr	52	45	1	He	1643.698	1643.698	0.29	15405674	0.01	10000	
Mn	55	45	1	He	4897.584	4897.584	0.44	32466380	0.02	10000	
Fe	56	45	1	He	188103.063	188103.063	0.61	1614133589	0.01	200000	
Co	59	103	1	He	38.327	38.327	0.18	311854	0.01	10000	
Ni	60	103	1	He	79.527	79.527	0.62	164605	0.05	10000	
Cu	63	103	1	He	110.977	110.977	0.42	614242	0.02	10000	
Zn	66	103	1	He	514.373	514.373	0.90	577775	0.09	10000	
As	75	103	1	He	12.937	12.937	0.49	9340	0.14	10000	
Se	78	103	1	He	3.221	3.221	4.33	212	1.52	10000	
Sr	88	103	1	He	22396.271	22396.271	0.49	94656476	0.02	10000	>LDR
Mo	95	103	1	He	17.288	17.288	1.18	39904	0.04	2000	
Ag	107	103	1	He	1.757	1.757	1.50	13879	0.01	300	
Cd	111	103	1	He	8.358	8.358	3.78	11663	0.07	4000	
Sn	118	115	1	He	61.539	61.539	0.67	182927	0.03	2000	
Sb	123	115	1	He	0.823	0.823	0.72	3295	0.02	300	
Ba	137	115	1	He	58.361	58.361	0.60	72463	0.08	10000	
W	182	165	1	He	31.425	31.425	2.17	316210	0.01	2500	
Tl	205	209	1	He	0.217	0.217	12.13	4593	0.00	5000	
Pb	208	209	1	He	92.440	92.440	0.38	2395275	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1328417	1.81	1803797	73.65	30	120	
Sc	45	1	He	790841	0.56	574766	137.59	30	120	ISTD Failed
Sc	45	2	NoGas	5522134	0.49	4296857	128.52	30	120	ISTD Failed
Rh	103	1	He	1275006	0.20	1652712	77.15	30	120	
In	115	1	He	676450	0.38	852389	79.36	30	120	
Tb	159	1	He	2167521	0.40	2425956	89.35	30	120	
Ho	165	1	He	2244211	2.07	2452680	91.50	30	120	
Bi	209	1	He	1430094	0.39	1810473	78.99	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-4-e@2
Data File Name	056SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:05:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.061	1.061	6.28	4382	0.02	10000	
B	11	45	2	NoGas	18.105	18.105	1.85	89269	0.02	300	
Na	23	45	1	He	552.474	552.474	1.11	1203089	0.05	500000	
Mg	24	45	1	He	2965.555	2965.555	0.68	3523905	0.08	500000	
Al	27	45	1	He	16361.135	16361.135	1.19	10108054	0.16	200000	
K	39	45	1	He	118.827	118.827	1.25	199066	0.06	500000	
Ca	44	45	1	He	593233.491	593233.491	0.33	29491819	2.01	500000	>LDR
Ti	47	45	1	He	43738.924	43738.924	0.16	12947234	0.34	2500	>LDR
V	51	45	1	He	3751.568	3751.568	0.66	28373456	0.01	10000	
Cr	52	45	1	He	1700.950	1700.950	0.46	15785293	0.01	10000	
Mn	55	45	1	He	4960.891	4960.891	0.88	32561948	0.02	10000	
Fe	56	45	1	He	187070.285	187070.285	0.47	1589495439	0.01	200000	
Co	59	103	1	He	37.368	37.368	0.34	304254	0.01	10000	
Ni	60	103	1	He	81.597	81.597	0.10	169000	0.05	10000	
Cu	63	103	1	He	115.707	115.707	1.24	640735	0.02	10000	
Zn	66	103	1	He	519.798	519.798	1.03	584237	0.09	10000	
As	75	103	1	He	12.665	12.665	2.14	9152	0.14	10000	
Se	78	103	1	He	2.899	2.899	0.29	194	1.50	10000	
Sr	88	103	1	He	21678.249	21678.249	0.98	91681776	0.02	10000	>LDR
Mo	95	103	1	He	17.165	17.165	2.71	39650	0.04	2000	
Ag	107	103	1	He	2.062	2.062	1.02	16291	0.01	300	
Cd	111	103	1	He	9.284	9.284	4.90	12889	0.07	4000	
Sn	118	115	1	He	63.086	63.086	0.61	187844	0.03	2000	
Sb	123	115	1	He	0.742	0.742	5.39	3047	0.02	300	
Ba	137	115	1	He	54.850	54.850	1.18	68224	0.08	10000	
W	182	165	1	He	35.765	35.765	2.45	356361	0.01	2500	
Tl	205	209	1	He	0.140	0.140	3.71	3071	0.00	5000	
Pb	208	209	1	He	95.148	95.148	0.17	2471041	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1319121	1.53	1803797	73.13	30	120	
Sc	45	1	He	783058	0.38	574766	136.24	30	120	ISTD Failed
Sc	45	2	NoGas	5551579	0.87	4296857	129.20	30	120	ISTD Failed
Rh	103	1	He	1275849	0.69	1652712	77.20	30	120	
In	115	1	He	677661	0.39	852389	79.50	30	120	
Tb	159	1	He	2168879	1.91	2425956	89.40	30	120	
Ho	165	1	He	2224127	1.22	2452680	90.68	30	120	
Bi	209	1	He	1433345	0.36	1810473	79.17	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-5-e@2
Data File Name	057SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:09:11-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.496	2.496	2.08	11823	0.02	10000	
B	11	45	2	NoGas	51.822	51.822	1.04	179744	0.03	300	
Na	23	45	1	He	1278.848	1278.848	1.65	1818041	0.07	500000	
Mg	24	45	1	He	9880.426	9880.426	1.24	7831616	0.13	500000	
Al	27	45	1	He	42099.926	42099.926	1.23	17353930	0.24	200000	
K	39	45	1	He	2788.811	2788.811	2.98	1794295	0.16	500000	
Ca	44	45	1	He	65043.380	65043.380	1.00	2158312	3.01	500000	
Ti	47	45	1	He	1127.178	1127.178	0.54	222658	0.51	2500	
V	51	45	1	He	187.074	187.074	0.43	944337	0.02	10000	
Cr	52	45	1	He	220.925	220.925	0.29	1370526	0.02	10000	
Mn	55	45	1	He	2054.405	2054.405	1.58	8996922	0.02	10000	
Fe	56	45	1	He	206518.247	206518.247	0.68	1170968167	0.02	200000	>LDR
Co	59	103	1	He	28.361	28.361	2.50	263739	0.01	10000	
Ni	60	103	1	He	98.413	98.413	2.95	232745	0.04	10000	
Cu	63	103	1	He	429.891	429.891	3.56	2712385	0.02	10000	
Zn	66	103	1	He	1580.583	1580.583	2.22	2027761	0.08	10000	
As	75	103	1	He	43.481	43.481	2.70	35464	0.12	10000	
Se	78	103	1	He	3.715	3.715	3.70	276	1.35	10000	
Sr	88	103	1	He	1400.276	1400.276	3.28	6762298	0.02	10000	
Mo	95	103	1	He	12.952	12.952	1.01	34344	0.04	2000	
Ag	107	103	1	He	3.018	3.018	2.51	27229	0.01	300	
Cd	111	103	1	He	6.655	6.655	3.64	10769	0.06	4000	
Sn	118	115	1	He	451.445	451.445	0.44	1450677	0.03	2000	
Sb	123	115	1	He	9.941	9.941	1.24	34626	0.03	300	
Ba	137	115	1	He	543.696	543.696	0.28	732071	0.07	10000	
W	182	165	1	He	5.430	5.430	0.74	61744	0.01	2500	
Tl	205	209	1	He	0.431	0.431	5.74	10261	0.00	5000	
Pb	208	209	1	He	1470.645	1470.645	3.40	44442037	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1513009	1.80	1803797	83.88	30	120	
Sc	45	1	He	522526	1.55	574766	90.91	30	120	
Sc	45	2	NoGas	4132783	1.06	4296857	96.18	30	120	
Rh	103	1	He	1458035	3.80	1652712	88.22	30	120	
In	115	1	He	733675	1.19	852389	86.07	30	120	
Tb	159	1	He	2333748	3.44	2425956	96.20	30	120	
Ho	165	1	He	2444335	2.82	2452680	99.66	30	120	
Bi	209	1	He	1669802	4.03	1810473	92.23	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-6-e@2
Data File Name	058SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:12:54-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.809	0.809	3.66	3752	0.02	10000	
B	11	45	2	NoGas	15.590	15.590	0.71	55424	0.03	300	
Na	23	45	1	He	1071.210	1071.210	1.74	1514699	0.07	500000	
Mg	24	45	1	He	4079.386	4079.386	0.03	3206373	0.13	500000	
Al	27	45	1	He	22800.070	22800.070	0.89	9317848	0.24	200000	
K	39	45	1	He	921.205	921.205	1.07	626673	0.15	500000	
Ca	44	45	1	He	72616.321	72616.321	1.46	2388617	3.04	500000	
Ti	47	45	1	He	565.467	565.467	0.80	110728	0.51	2500	
V	51	45	1	He	114.856	114.856	0.25	574857	0.02	10000	
Cr	52	45	1	He	90.052	90.052	0.24	555399	0.02	10000	
Mn	55	45	1	He	325.499	325.499	1.23	1413438	0.02	10000	
Fe	56	45	1	He	34652.209	34652.209	1.43	194769543	0.02	200000	
Co	59	103	1	He	3.751	3.751	1.59	35082	0.01	10000	
Ni	60	103	1	He	18.566	18.566	0.93	44185	0.04	10000	
Cu	63	103	1	He	284.334	284.334	2.33	1803255	0.02	10000	
Zn	66	103	1	He	185.681	185.681	2.32	239920	0.08	10000	
As	75	103	1	He	9.837	9.837	0.67	8196	0.12	10000	
Se	78	103	1	He	2.726	2.726	5.33	210	1.30	10000	
Sr	88	103	1	He	1582.434	1582.434	0.75	7678989	0.02	10000	
Mo	95	103	1	He	2.429	2.429	0.28	6967	0.03	2000	
Ag	107	103	1	He	1.341	1.341	2.29	12168	0.01	300	
Cd	111	103	1	He	0.866	0.866	7.71	2063	0.04	4000	
Sn	118	115	1	He	66.929	66.929	1.90	219903	0.03	2000	
Sb	123	115	1	He	0.861	0.861	4.88	3776	0.02	300	
Ba	137	115	1	He	122.979	122.979	0.83	168832	0.07	10000	
W	182	165	1	He	0.718	0.718	4.65	10230	0.01	2500	
Tl	205	209	1	He	0.246	0.246	2.05	6195	0.00	5000	
Pb	208	209	1	He	163.565	163.565	0.88	5091665	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1480539	1.03	1803797	82.08	30	120	
Sc	45	1	He	518002	0.40	574766	90.12	30	120	
Sc	45	2	NoGas	3948750	1.08	4296857	91.90	30	120	
Rh	103	1	He	1463962	1.11	1652712	88.58	30	120	
In	115	1	He	748015	0.98	852389	87.76	30	120	
Tb	159	1	He	2349214	1.11	2425956	96.84	30	120	
Ho	165	1	He	2386279	1.61	2452680	97.29	30	120	
Bi	209	1	He	1718339	0.76	1810473	94.91	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-j@50
Data File Name	059SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:16:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.077	0.077	25.60	389	0.02	10000	
B	11	45	2	NoGas	2.303	2.303	3.14	13528	0.02	300	
Na	23	45	1	He	75.711	75.711	1.89	145519	0.05	500000	
Mg	24	45	1	He	198.795	198.795	0.50	169139	0.12	500000	
Al	27	45	1	He	1210.733	1210.733	0.99	533587	0.23	200000	
K	39	45	1	He	13.634	13.634	10.16	71932	0.02	500000	
Ca	44	45	1	He	56498.808	56498.808	1.07	2001673	2.82	500000	
Ti	47	45	1	He	3017.129	3017.129	0.28	636299	0.47	2500	>LDR
V	51	45	1	He	277.560	277.560	0.79	1495772	0.02	10000	
Cr	52	45	1	He	120.440	120.440	0.79	799019	0.02	10000	
Mn	55	45	1	He	409.573	409.573	0.92	1915505	0.02	10000	
Fe	56	45	1	He	14723.828	14723.828	0.45	89138639	0.02	200000	
Co	59	103	1	He	1.670	1.670	1.66	17835	0.01	10000	
Ni	60	103	1	He	3.556	3.556	3.23	9725	0.04	10000	
Cu	63	103	1	He	5.067	5.067	1.48	39105	0.01	10000	
Zn	66	103	1	He	25.263	25.263	1.05	37950	0.07	10000	
As	75	103	1	He	0.516	0.516	6.35	679	0.08	10000	
Se	78	103	1	He	0.231	0.231	20.47	48	0.48	10000	
Sr	88	103	1	He	980.772	980.772	1.60	5424899	0.02	10000	
Mo	95	103	1	He	0.485	0.485	10.77	2148	0.02	2000	
Ag	107	103	1	He	0.019	0.019	15.20	228	0.01	300	
Cd	111	103	1	He	0.121	0.121	28.93	1066	0.01	4000	
Sn	118	115	1	He	3.162	3.162	4.24	12279	0.03	2000	
Sb	123	115	1	He	-0.036	-0.036	-71.22	733	0.00	300	
Ba	137	115	1	He	2.670	2.670	3.16	4063	0.07	10000	
W	182	165	1	He	1.340	1.340	2.65	17733	0.01	2500	
Tl	205	209	1	He	0.010	0.010	15.91	666	0.00	5000	
Pb	208	209	1	He	4.157	4.157	1.66	142098	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1588343	2.70	1803797	88.06	30	120	
Sc	45	1	He	557889	0.70	574766	97.06	30	120	
Sc	45	2	NoGas	4184894	0.70	4296857	97.39	30	120	
Rh	103	1	He	1668618	0.63	1652712	100.96	30	120	
In	115	1	He	826344	0.37	852389	96.94	30	120	
Tb	159	1	He	2495076	2.04	2425956	102.85	30	120	
Ho	165	1	He	2512189	1.23	2452680	102.43	30	120	
Bi	209	1	He	1875236	1.60	1810473	103.58	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-j@10
Data File Name	060SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:20:27-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1078.227	1078.227	2.90	4955215	0.02	10000	
B	11	45	2	NoGas	108.133	108.133	1.65	388261	0.03	300	
Na	23	45	1	He	9721.912	9721.912	0.89	14911008	0.07	500000	
Mg	24	45	1	He	10243.012	10243.012	0.59	8888556	0.12	500000	
Al	27	45	1	He	13770.843	13770.843	1.10	6214381	0.22	200000	
K	39	45	1	He	9227.919	9227.919	1.18	6350047	0.15	500000	
Ca	44	45	1	He	247439.013	247439.013	0.58	8985583	2.75	500000	
Ti	47	45	1	He	13772.160	13772.160	0.80	2977818	0.46	2500	>LDR
V	51	45	1	He	2123.566	2123.566	0.93	11731703	0.02	10000	
Cr	52	45	1	He	1477.805	1477.805	0.56	10017762	0.01	10000	
Mn	55	45	1	He	2607.099	2607.099	0.65	12499715	0.02	10000	
Fe	56	45	1	He	72313.060	72313.060	0.30	448812489	0.02	200000	
Co	59	103	1	He	1029.677	1029.677	1.02	9289992	0.01	10000	
Ni	60	103	1	He	1075.458	1075.458	0.61	2467517	0.04	10000	
Cu	63	103	1	He	1048.872	1048.872	0.40	6419817	0.02	10000	
Zn	66	103	1	He	1083.498	1083.498	0.96	1348924	0.08	10000	
As	75	103	1	He	997.971	997.971	0.25	786175	0.13	10000	
Se	78	103	1	He	972.230	972.230	0.37	63418	1.53	10000	
Sr	88	103	1	He	6122.770	6122.770	1.32	28695468	0.02	10000	
Mo	95	103	1	He	115.412	115.412	1.69	292033	0.04	2000	
Ag	107	103	1	He	104.457	104.457	0.36	913407	0.01	300	
Cd	111	103	1	He	1020.338	1020.338	0.18	1490903	0.07	4000	
Sn	118	115	1	He	1144.157	1144.157	1.21	3659081	0.03	2000	
Sb	123	115	1	He	106.296	106.296	0.33	361088	0.03	300	
Ba	137	115	1	He	1064.023	1064.023	0.65	1426238	0.07	10000	
W	182	165	1	He	107.448	107.448	2.38	1151378	0.01	2500	
Tl	205	209	1	He	261.602	261.602	4.94	5801672	0.00	5000	
Pb	208	209	1	He	1088.903	1088.903	3.96	31785142	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1468633	1.97	1803797	81.42	30	120	
Sc	45	1	He	571973	0.55	574766	99.51	30	120	
Sc	45	2	NoGas	4349225	1.08	4296857	101.22	30	120	
Rh	103	1	He	1413921	0.69	1652712	85.55	30	120	
In	115	1	He	730369	0.51	852389	85.68	30	120	
Tb	159	1	He	2341259	0.24	2425956	96.51	30	120	
Ho	165	1	He	2403484	2.82	2452680	97.99	30	120	
Bi	209	1	He	1613242	4.24	1810473	89.11	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-k ms@10
Data File Name	061SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:24:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	104.762	104.762	2.20	474513	0.02	10000	
B	11	45	2	NoGas	15.711	15.711	2.40	60637	0.03	300	
Na	23	45	1	He	1233.598	1233.598	0.44	1933769	0.06	500000	
Mg	24	45	1	He	1764.203	1764.203	0.74	1541789	0.11	500000	
Al	27	45	1	He	5930.195	5930.195	1.57	2694292	0.22	200000	
K	39	45	1	He	912.361	912.361	0.46	690477	0.13	500000	
Ca	44	45	1	He	245560.682	245560.682	0.81	8976326	2.74	500000	
Ti	47	45	1	He	13178.057	13178.057	1.18	2868189	0.46	2500	>LDR
V	51	45	1	He	1210.097	1210.097	0.41	6729337	0.02	10000	
Cr	52	45	1	He	596.540	596.540	0.85	4072463	0.01	10000	
Mn	55	45	1	He	1677.565	1677.565	0.28	8096320	0.02	10000	
Fe	56	45	1	He	61320.103	61320.103	0.13	383095034	0.02	200000	
Co	59	103	1	He	106.671	106.671	0.29	966436	0.01	10000	
Ni	60	103	1	He	116.481	116.481	0.47	268443	0.04	10000	
Cu	63	103	1	He	122.836	122.836	0.54	756869	0.02	10000	
Zn	66	103	1	He	207.896	207.896	0.89	260478	0.08	10000	
As	75	103	1	He	96.970	96.970	0.90	76863	0.13	10000	
Se	78	103	1	He	94.533	94.533	2.32	6215	1.52	10000	
Sr	88	103	1	He	5180.024	5180.024	0.95	24379367	0.02	10000	
Mo	95	103	1	He	15.445	15.445	1.31	39767	0.04	2000	
Ag	107	103	1	He	10.412	10.412	0.27	91452	0.01	300	
Cd	111	103	1	He	102.650	102.650	0.43	151275	0.07	4000	
Sn	118	115	1	He	119.874	119.874	0.98	394981	0.03	2000	
Sb	123	115	1	He	9.472	9.472	2.70	33816	0.03	300	
Ba	137	115	1	He	112.457	112.457	1.01	155050	0.07	10000	
W	182	165	1	He	14.651	14.651	1.94	158110	0.01	2500	
Tl	205	209	1	He	23.991	23.991	4.46	556106	0.00	5000	
Pb	208	209	1	He	121.127	121.127	4.46	3692933	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1447338	2.12	1803797	80.24	30	120	
Sc	45	1	He	575750	0.33	574766	100.17	30	120	
Sc	45	2	NoGas	4290755	1.08	4296857	99.86	30	120	
Rh	103	1	He	1419824	0.64	1652712	85.91	30	120	
In	115	1	He	751191	0.42	852389	88.13	30	120	
Tb	159	1	He	2329869	0.33	2425956	96.04	30	120	
Ho	165	1	He	2385111	0.41	2452680	97.25	30	120	
Bi	209	1	He	1684774	4.03	1810473	93.06	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-l msd@10
Data File Name	062SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:27:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	105.068	105.068	1.01	474359	0.02	10000	
B	11	45	2	NoGas	15.578	15.578	0.81	59006	0.03	300	
Na	23	45	1	He	1243.279	1243.279	2.28	1896018	0.07	500000	
Mg	24	45	1	He	1777.311	1777.311	1.36	1511304	0.12	500000	
Al	27	45	1	He	5802.675	5802.675	1.68	2565587	0.23	200000	
K	39	45	1	He	943.363	943.363	0.60	692558	0.14	500000	
Ca	44	45	1	He	236546.799	236546.799	0.21	8413943	2.81	500000	
Ti	47	45	1	He	12878.474	12878.474	1.53	2727296	0.47	2500	>LDR
V	51	45	1	He	1183.004	1183.004	1.28	6401351	0.02	10000	
Cr	52	45	1	He	583.788	583.788	0.69	3878243	0.02	10000	
Mn	55	45	1	He	1610.475	1610.475	0.73	7563139	0.02	10000	
Fe	56	45	1	He	59091.184	59091.184	0.70	359221212	0.02	200000	
Co	59	103	1	He	106.587	106.587	0.41	954216	0.01	10000	
Ni	60	103	1	He	116.205	116.205	0.66	264631	0.04	10000	
Cu	63	103	1	He	122.371	122.371	0.40	745059	0.02	10000	
Zn	66	103	1	He	203.617	203.617	1.37	252098	0.08	10000	
As	75	103	1	He	97.413	97.413	0.75	76294	0.13	10000	
Se	78	103	1	He	94.049	94.049	2.32	6110	1.54	10000	
Sr	88	103	1	He	4908.508	4908.508	1.10	22827527	0.02	10000	
Mo	95	103	1	He	14.323	14.323	1.64	36480	0.04	2000	
Ag	107	103	1	He	10.598	10.598	0.16	91980	0.01	300	
Cd	111	103	1	He	103.283	103.283	0.36	150399	0.07	4000	
Sn	118	115	1	He	118.462	118.462	0.63	384530	0.03	2000	
Sb	123	115	1	He	9.449	9.449	1.15	33230	0.03	300	
Ba	137	115	1	He	113.243	113.243	1.41	153794	0.07	10000	
W	182	165	1	He	14.048	14.048	2.62	152314	0.01	2500	
Tl	205	209	1	He	24.647	24.647	2.91	556003	0.00	5000	
Pb	208	209	1	He	123.647	123.647	2.42	3669153	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1442252	1.73	1803797	79.96	30	120	
Sc	45	1	He	560253	0.79	574766	97.47	30	120	
Sc	45	2	NoGas	4206816	0.33	4296857	97.90	30	120	
Rh	103	1	He	1402979	0.60	1652712	84.89	30	120	
In	115	1	He	740003	0.85	852389	86.82	30	120	
Tb	159	1	He	2311569	0.78	2425956	95.28	30	120	
Ho	165	1	He	2394389	0.98	2452680	97.62	30	120	
Bi	209	1	He	1638410	2.19	1810473	90.50	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-3-e@10
Data File Name	063SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:31:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.288	0.288	13.10	1326	0.02	10000	
B	11	45	2	NoGas	6.873	6.873	4.50	29313	0.02	300	
Na	23	45	1	He	184.760	184.760	1.42	311410	0.06	500000	
Mg	24	45	1	He	1089.618	1089.618	1.23	932346	0.12	500000	
Al	27	45	1	He	4976.179	4976.179	0.70	2212955	0.22	200000	
K	39	45	1	He	40.764	40.764	3.71	90867	0.04	500000	
Ca	44	45	1	He	176218.883	176218.883	0.88	6304834	2.79	500000	
Ti	47	45	1	He	12757.285	12757.285	0.67	2717575	0.47	2500	>LDR
V	51	45	1	He	1080.627	1080.627	1.20	5881752	0.02	10000	
Cr	52	45	1	He	495.703	495.703	0.15	3312573	0.01	10000	
Mn	55	45	1	He	1474.410	1474.410	1.51	6964666	0.02	10000	
Fe	56	45	1	He	57433.001	57433.001	0.51	351186919	0.02	200000	
Co	59	103	1	He	7.471	7.471	1.20	67809	0.01	10000	
Ni	60	103	1	He	15.741	15.741	3.00	36389	0.04	10000	
Cu	63	103	1	He	21.996	21.996	0.45	137444	0.02	10000	
Zn	66	103	1	He	106.258	106.258	0.39	133642	0.08	10000	
As	75	103	1	He	2.451	2.451	2.72	2110	0.12	10000	
Se	78	103	1	He	0.781	0.781	7.00	77	1.02	10000	
Sr	88	103	1	He	4398.098	4398.098	1.00	20723189	0.02	10000	
Mo	95	103	1	He	3.320	3.320	0.87	9027	0.04	2000	
Ag	107	103	1	He	0.249	0.249	5.71	2220	0.01	300	
Cd	111	103	1	He	1.172	1.172	12.31	2451	0.05	4000	
Sn	118	115	1	He	12.722	12.722	1.01	42762	0.03	2000	
Sb	123	115	1	He	0.132	0.132	14.65	1257	0.01	300	
Ba	137	115	1	He	11.503	11.503	0.71	15929	0.07	10000	
W	182	165	1	He	6.284	6.284	0.53	69565	0.01	2500	
Tl	205	209	1	He	0.071	0.071	14.76	2036	0.00	5000	
Pb	208	209	1	He	17.374	17.374	1.60	537570	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1471531	2.15	1803797	81.58	30	120	
Sc	45	1	He	563512	0.33	574766	98.04	30	120	
Sc	45	2	NoGas	4217895	1.11	4296857	98.16	30	120	
Rh	103	1	He	1421431	0.13	1652712	86.01	30	120	
In	115	1	He	754012	0.82	852389	88.46	30	120	
Tb	159	1	He	2327851	0.51	2425956	95.96	30	120	
Ho	165	1	He	2393732	0.92	2452680	97.60	30	120	
Bi	209	1	He	1705598	1.23	1810473	94.21	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	064_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:35:21-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.380	1.882	223424	2.29	50	90.8	89.5	110.5	
B	11	45	2	NoGas	49.476	1.860	168522	2.11	50	99.0	89.5	110.5	
Na	23	45	1	He	27469.003	0.924	38235593	0.68	25000	109.9	89.5	110.5	
Mg	24	45	1	He	27038.595	0.712	21323701	0.44	25000	108.2	89.5	110.5	
Al	27	45	1	He	250.511	0.088	103421	0.87	250	100.2	89.5	110.5	
K	39	45	1	He	26862.484	0.922	16689519	0.77	25000	107.4	89.5	110.5	
Ca	44	45	1	He	25610.221	0.303	845760	0.68	25000	102.4	89.5	110.5	
Ti	47	45	1	He	74.415	3.486	14623	2.75	50	148.8	89.5	110.5	CCV Failed
V	51	45	1	He	54.618	1.192	274465	0.65	50	109.2	89.5	110.5	
Cr	52	45	1	He	54.317	1.411	337269	0.62	50	108.6	89.5	110.5	
Mn	55	45	1	He	262.650	0.893	1144673	0.58	250	105.1	89.5	110.5	
Fe	56	45	1	He	13595.127	1.380	76692739	1.00	12500	108.8	89.5	110.5	
Co	59	103	1	He	49.034	2.521	481359	0.25	50	98.1	89.5	110.5	
Ni	60	103	1	He	48.840	2.490	122001	0.17	50	97.7	89.5	110.5	
Cu	63	103	1	He	49.300	2.405	330524	0.83	50	98.6	89.5	110.5	
Zn	66	103	1	He	49.570	2.046	67900	1.11	50	99.1	89.5	110.5	
As	75	103	1	He	47.726	2.252	41082	0.45	50	95.5	89.5	110.5	
Se	78	103	1	He	46.294	2.752	3312	0.55	50	92.6	89.5	110.5	
Sr	88	103	1	He	48.517	2.023	247565	1.17	50	97.0	89.5	110.5	
Mo	95	103	1	He	51.619	3.111	142467	1.23	50	103.2	89.5	110.5	
Ag	107	103	1	He	51.383	2.674	488854	0.34	50	102.8	89.5	110.5	
Cd	111	103	1	He	51.822	2.165	83140	0.51	50	103.6	89.5	110.5	
Sn	118	115	1	He	51.384	1.849	178320	1.42	50	102.8	89.5	110.5	
Sb	123	115	1	He	53.366	1.399	196291	0.72	50	106.7	89.5	110.5	
Ba	137	115	1	He	51.784	1.346	75012	1.01	50	103.6	89.5	110.5	
W	182	165	1	He	51.005	1.622	552934	1.32	50	102.0	89.5	110.5	
Tl	205	209	1	He	48.308	0.953	1177216	0.47	50	96.6	89.5	110.5	
Pb	208	209	1	He	49.515	1.348	1588083	0.54	50	99.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1572664	0.47	1803797	87.19	30	120	
Sc	45	1	He	519876	0.78	574766	90.45	30	120	
Sc	45	2	NoGas	4052086	0.31	4296857	94.30	30	120	
Rh	103	1	He	1538941	2.40	1652712	93.12	30	120	
In	115	1	He	789202	0.68	852389	92.59	30	120	
Tb	159	1	He	2383980	0.45	2425956	98.27	30	120	
Ho	165	1	He	2424597	1.37	2452680	98.86	30	120	
Bi	209	1	He	1769783	0.83	1810473	97.75	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	065_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:39:11-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.062	20.9	315	18.1	1	
B	11	45	2	NoGas	1.514	6.2	10792	2.7	20	
Na	23	45	1	He	18.395	9.1	57788	2.7	400	
Mg	24	45	1	He	0.918	61.2	1611	26.9	1000	
Al	27	45	1	He	6.933	5.9	3640	3.6	50	
K	39	45	1	He	7.455	37.7	65363	1.2	1000	
Ca	44	45	1	He	12.341	16.0	960	8.4	1000	
Ti	47	45	1	He	2.650	6.2	540	7.5	20	
V	51	45	1	He	0.104	55.2	787	38.7	2	
Cr	52	45	1	He	0.004	463.8	2839	3.5	2	
Mn	55	45	1	He	0.129	19.2	740	14.6	2	
Fe	56	45	1	He	11.112	16.5	70457	14.0	50	
Co	59	103	1	He	0.004	12.6	96	7.3	1	
Ni	60	103	1	He	0.002	563.6	102	30.3	2	
Cu	63	103	1	He	-0.106	-9.9	1745	2.3	2	
Zn	66	103	1	He	0.433	12.9	1490	5.1	20	
As	75	103	1	He	0.165	13.8	352	5.9	2	
Se	78	103	1	He	0.213	28.0	46	11.9	2	
Sr	88	103	1	He	0.208	12.8	1292	9.9	10	
Mo	95	103	1	He	0.638	12.0	2602	8.7	2	
Ag	107	103	1	He	0.002	62.8	58	29.0	0.2	
Cd	111	103	1	He	0.042	45.1	930	2.9	0.2	
Sn	118	115	1	He	0.408	9.1	2337	6.0	10	
Sb	123	115	1	He	0.227	15.8	1758	8.0	1	
Ba	137	115	1	He	0.033	34.2	63	27.3	5	
W	182	165	1	He	0.864	20.6	12465	15.6	10	
Tl	205	209	1	He	0.048	17.2	1620	12.4	0.5	
Pb	208	209	1	He	0.026	8.1	1765	3.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1614146	2.43	1803797	89.49	30	120	
Sc	45	1	He	537742	1.52	574766	93.56	30	120	
Sc	45	2	NoGas	4165235	1.08	4296857	96.94	30	120	
Rh	103	1	He	1667236	2.08	1652712	100.88	30	120	
In	115	1	He	833613	0.28	852389	97.80	30	120	
Tb	159	1	He	2468774	1.64	2425956	101.76	30	120	
Ho	165	1	He	2524028	1.50	2452680	102.91	30	120	
Bi	209	1	He	1848137	0.48	1810473	102.08	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-4-e@10
Data File Name	066SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:43:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.214	0.214	13.39	1011	0.02	10000	
B	11	45	2	NoGas	5.461	5.461	4.02	24825	0.02	300	
Na	23	45	1	He	164.960	164.960	1.04	291337	0.06	500000	
Mg	24	45	1	He	855.069	855.069	0.93	757288	0.11	500000	
Al	27	45	1	He	5070.762	5070.762	0.17	2333214	0.22	200000	
K	39	45	1	He	37.766	37.766	2.69	91943	0.04	500000	
Ca	44	45	1	He	176045.945	176045.945	1.42	6516160	2.70	500000	
Ti	47	45	1	He	13170.887	13170.887	1.85	2902496	0.45	2500	>LDR
V	51	45	1	He	1129.456	1129.456	0.46	6360448	0.02	10000	
Cr	52	45	1	He	511.423	511.423	0.81	3535810	0.01	10000	
Mn	55	45	1	He	1482.308	1482.308	0.65	7244304	0.02	10000	
Fe	56	45	1	He	55620.727	55620.727	1.08	351867995	0.02	200000	
Co	59	103	1	He	7.467	7.467	0.64	68243	0.01	10000	
Ni	60	103	1	He	16.417	16.417	1.34	38207	0.04	10000	
Cu	63	103	1	He	23.378	23.378	2.04	146951	0.02	10000	
Zn	66	103	1	He	110.425	110.425	1.32	139810	0.08	10000	
As	75	103	1	He	2.502	2.502	5.04	2165	0.12	10000	
Se	78	103	1	He	0.726	0.726	15.18	74	0.99	10000	
Sr	88	103	1	He	4385.454	4385.454	1.10	20805933	0.02	10000	
Mo	95	103	1	He	3.176	3.176	1.57	8722	0.04	2000	
Ag	107	103	1	He	0.184	0.184	14.05	1658	0.01	300	
Cd	111	103	1	He	0.974	0.974	11.15	2175	0.04	4000	
Sn	118	115	1	He	12.634	12.634	3.03	43334	0.03	2000	
Sb	123	115	1	He	0.146	0.146	36.77	1331	0.01	300	
Ba	137	115	1	He	10.966	10.966	0.36	15493	0.07	10000	
W	182	165	1	He	6.616	6.616	2.73	73560	0.01	2500	
Tl	205	209	1	He	0.043	0.043	6.08	1373	0.00	5000	
Pb	208	209	1	He	18.420	18.420	2.96	562035	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1507396	1.94	1803797	83.57	30	120	
Sc	45	1	He	583056	1.33	574766	101.44	30	120	
Sc	45	2	NoGas	4279839	0.48	4296857	99.60	30	120	
Rh	103	1	He	1431229	0.57	1652712	86.60	30	120	
In	115	1	He	769238	0.79	852389	90.24	30	120	
Tb	159	1	He	2342516	0.81	2425956	96.56	30	120	
Ho	165	1	He	2409342	1.69	2452680	98.23	30	120	
Bi	209	1	He	1682870	2.95	1810473	92.95	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-5-e@10
Data File Name	067SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:46:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.522	0.522	8.05	2523	0.02	10000	
B	11	45	2	NoGas	10.519	10.519	2.02	38994	0.03	300	
Na	23	45	1	He	267.966	267.966	1.26	402914	0.07	500000	
Mg	24	45	1	He	2117.859	2117.859	0.72	1670764	0.13	500000	
Al	27	45	1	He	8994.933	8994.933	0.44	3689056	0.24	200000	
K	39	45	1	He	564.412	564.412	2.03	407977	0.14	500000	
Ca	44	45	1	He	13347.079	13347.079	0.94	440924	3.03	500000	
Ti	47	45	1	He	239.111	239.111	0.57	46982	0.51	2500	
V	51	45	1	He	38.684	38.684	1.73	194414	0.02	10000	
Cr	52	45	1	He	45.077	45.077	1.44	280299	0.02	10000	
Mn	55	45	1	He	438.662	438.662	0.24	1911379	0.02	10000	
Fe	56	45	1	He	43605.009	43605.009	1.05	245926968	0.02	200000	
Co	59	103	1	He	5.450	5.450	1.19	54829	0.01	10000	
Ni	60	103	1	He	18.965	18.965	2.23	48559	0.04	10000	
Cu	63	103	1	He	80.404	80.404	0.81	550379	0.01	10000	
Zn	66	103	1	He	306.818	306.818	1.15	426048	0.07	10000	
As	75	103	1	He	8.543	8.543	1.39	7682	0.11	10000	
Se	78	103	1	He	0.731	0.731	15.20	81	0.90	10000	
Sr	88	103	1	He	271.712	271.712	3.78	1418683	0.02	10000	
Mo	95	103	1	He	2.267	2.267	1.64	7042	0.03	2000	
Ag	107	103	1	He	0.610	0.610	2.28	5972	0.01	300	
Cd	111	103	1	He	1.484	1.484	1.71	3225	0.05	4000	
Sn	118	115	1	He	89.628	89.628	1.96	307650	0.03	2000	
Sb	123	115	1	He	1.934	1.934	1.07	7843	0.02	300	
Ba	137	115	1	He	108.492	108.492	1.46	155716	0.07	10000	
W	182	165	1	He	1.148	1.148	4.38	15200	0.01	2500	
Tl	205	209	1	He	0.089	0.089	3.19	2651	0.00	5000	
Pb	208	209	1	He	289.970	289.970	1.60	9642706	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1542377	1.35	1803797	85.51	30	120	
Sc	45	1	He	519786	1.14	574766	90.43	30	120	
Sc	45	2	NoGas	3933334	0.73	4296857	91.54	30	120	
Rh	103	1	He	1575044	0.78	1652712	95.30	30	120	
In	115	1	He	782050	0.67	852389	91.75	30	120	
Tb	159	1	He	2373624	0.56	2425956	97.84	30	120	
Ho	165	1	He	2449846	0.48	2452680	99.88	30	120	
Bi	209	1	He	1835921	1.26	1810473	101.41	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-6-e@10
Data File Name	068SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:50:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.160	0.160	5.52	785	0.02	10000	
B	11	45	2	NoGas	3.395	3.395	9.31	16349	0.02	300	
Na	23	45	1	He	226.723	226.723	0.81	346032	0.07	500000	
Mg	24	45	1	He	835.677	835.677	0.36	660595	0.13	500000	
Al	27	45	1	He	4949.286	4949.286	1.66	2032651	0.24	200000	
K	39	45	1	He	201.104	201.104	1.48	183299	0.11	500000	
Ca	44	45	1	He	14508.277	14508.277	0.25	479882	3.02	500000	
Ti	47	45	1	He	119.664	119.664	2.10	23542	0.51	2500	
V	51	45	1	He	24.207	24.207	0.19	121915	0.02	10000	
Cr	52	45	1	He	18.654	18.654	1.44	117747	0.02	10000	
Mn	55	45	1	He	65.799	65.799	0.64	287200	0.02	10000	
Fe	56	45	1	He	7329.021	7329.021	1.69	41392151	0.02	200000	
Co	59	103	1	He	0.727	0.727	1.07	7427	0.01	10000	
Ni	60	103	1	He	3.562	3.562	1.10	9287	0.04	10000	
Cu	63	103	1	He	53.335	53.335	0.88	369534	0.01	10000	
Zn	66	103	1	He	38.146	38.146	0.57	54214	0.07	10000	
As	75	103	1	He	1.928	1.928	0.54	1898	0.10	10000	
Se	78	103	1	He	0.560	0.560	15.18	70	0.80	10000	
Sr	88	103	1	He	322.101	322.101	1.03	1698534	0.02	10000	
Mo	95	103	1	He	0.344	0.344	4.71	1646	0.02	2000	
Ag	107	103	1	He	0.260	0.260	4.05	2588	0.01	300	
Cd	111	103	1	He	0.213	0.213	22.29	1167	0.02	4000	
Sn	118	115	1	He	13.805	13.805	2.23	48953	0.03	2000	
Sb	123	115	1	He	0.092	0.092	18.64	1179	0.01	300	
Ba	137	115	1	He	24.648	24.648	0.72	36047	0.07	10000	
W	182	165	1	He	0.188	0.188	19.58	4775	0.00	2500	
Tl	205	209	1	He	0.054	0.054	8.05	1771	0.00	5000	
Pb	208	209	1	He	31.662	31.662	0.08	1050899	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1559225	0.58	1803797	86.44	30	120	
Sc	45	1	He	520447	0.58	574766	90.55	30	120	
Sc	45	2	NoGas	3968212	0.49	4296857	92.35	30	120	
Rh	103	1	He	1590792	1.14	1652712	96.25	30	120	
In	115	1	He	796606	0.30	852389	93.46	30	120	
Tb	159	1	He	2370330	1.78	2425956	97.71	30	120	
Ho	165	1	He	2472211	1.16	2452680	100.80	30	120	
Bi	209	1	He	1830814	0.53	1810473	101.12	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	069_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:54:26-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.161	3.075	227864	2.34	50	90.3	89.5	110.5	
B	11	45	2	NoGas	50.010	2.449	172876	2.38	50	100.0	89.5	110.5	
Na	23	45	1	He	26879.862	1.466	39185035	0.26	25000	107.5	89.5	110.5	
Mg	24	45	1	He	26668.971	1.430	22026499	0.15	25000	106.7	89.5	110.5	
Al	27	45	1	He	247.565	1.486	107043	0.78	250	99.0	89.5	110.5	
K	39	45	1	He	26342.897	1.278	17142103	0.71	25000	105.4	89.5	110.5	
Ca	44	45	1	He	25459.410	0.951	880554	0.61	25000	101.8	89.5	110.5	
Ti	47	45	1	He	59.636	2.122	12278	3.17	50	119.3	89.5	110.5	CCV Failed
V	51	45	1	He	54.063	0.885	284549	0.94	50	108.1	89.5	110.5	
Cr	52	45	1	He	53.440	1.381	347576	0.47	50	106.9	89.5	110.5	
Mn	55	45	1	He	259.518	1.471	1184496	0.17	250	103.8	89.5	110.5	
Fe	56	45	1	He	13371.996	0.938	79006244	0.75	12500	107.0	89.5	110.5	
Co	59	103	1	He	48.318	1.315	495582	0.58	50	96.6	89.5	110.5	
Ni	60	103	1	He	48.284	2.027	126012	1.07	50	96.6	89.5	110.5	
Cu	63	103	1	He	48.405	0.677	339125	1.30	50	96.8	89.5	110.5	
Zn	66	103	1	He	48.849	3.717	69896	1.89	50	97.7	89.5	110.5	
As	75	103	1	He	47.498	1.048	42719	1.35	50	95.0	89.5	110.5	
Se	78	103	1	He	46.767	1.873	3495	1.84	50	93.5	89.5	110.5	
Sr	88	103	1	He	47.574	1.850	253593	0.80	50	95.1	89.5	110.5	
Mo	95	103	1	He	51.077	2.200	147288	0.46	50	102.2	89.5	110.5	
Ag	107	103	1	He	50.305	1.134	500071	0.64	50	100.6	89.5	110.5	
Cd	111	103	1	He	50.468	1.525	84616	1.42	50	100.9	89.5	110.5	
Sn	118	115	1	He	51.572	1.065	183540	1.12	50	103.1	89.5	110.5	
Sb	123	115	1	He	53.090	0.479	200271	0.84	50	106.2	89.5	110.5	
Ba	137	115	1	He	52.501	0.596	77989	0.13	50	105.0	89.5	110.5	
W	182	165	1	He	49.285	1.286	552171	0.88	50	98.6	89.5	110.5	
Tl	205	209	1	He	48.663	1.184	1192118	0.14	50	97.3	89.5	110.5	
Pb	208	209	1	He	49.781	0.887	1605131	0.65	50	99.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612029	0.82	1803797	89.37	30	120	
Sc	45	1	He	544513	1.50	574766	94.74	30	120	
Sc	45	2	NoGas	4114009	0.51	4296857	95.74	30	120	
Rh	103	1	He	1607510	1.76	1652712	97.26	30	120	
In	115	1	He	809313	0.68	852389	94.95	30	120	
Tb	159	1	He	2449654	1.34	2425956	100.98	30	120	
Ho	165	1	He	2505225	0.77	2452680	102.14	30	120	
Bi	209	1	He	1779235	1.28	1810473	98.27	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	070_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T14:58:17-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.037	27.7	189	25.6	1	
B	11	45	2	NoGas	1.258	3.5	9885	0.7	20	
Na	23	45	1	He	17.344	7.7	56788	2.8	400	
Mg	24	45	1	He	0.980	72.4	1678	34.0	1000	
Al	27	45	1	He	6.295	2.3	3400	1.3	50	
K	39	45	1	He	7.320	19.2	65868	1.2	1000	
Ca	44	45	1	He	5.875	46.2	744	12.1	1000	
Ti	47	45	1	He	0.975	6.3	201	6.9	20	
V	51	45	1	He	0.096	87.9	751	59.0	2	
Cr	52	45	1	He	0.018	174.4	2954	7.4	2	
Mn	55	45	1	He	0.089	26.0	562	18.2	2	
Fe	56	45	1	He	9.757	19.9	63142	17.5	50	
Co	59	103	1	He	0.006	81.9	117	43.2	1	
Ni	60	103	1	He	0.000	1016.9	99	12.8	2	
Cu	63	103	1	He	-0.112	-16.8	1716	7.2	2	
Zn	66	103	1	He	0.467	18.5	1556	7.6	20	
As	75	103	1	He	0.098	10.4	293	4.1	2	
Se	78	103	1	He	0.125	31.4	40	6.9	2	
Sr	88	103	1	He	0.094	9.1	671	7.9	10	
Mo	95	103	1	He	0.648	14.1	2659	10.7	2	
Ag	107	103	1	He	0.003	52.9	67	26.0	0.2	
Cd	111	103	1	He	0.034	34.6	925	2.7	0.2	
Sn	118	115	1	He	0.326	6.0	2045	3.0	10	
Sb	123	115	1	He	0.187	24.9	1608	11.4	1	
Ba	137	115	1	He	0.025	34.1	52	25.8	5	
W	182	165	1	He	0.784	16.0	11686	11.6	10	
Tl	205	209	1	He	0.036	16.1	1331	11.4	0.5	
Pb	208	209	1	He	0.018	17.1	1539	6.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1604701	1.56	1803797	88.96	30	120	
Sc	45	1	He	542486	0.68	574766	94.38	30	120	
Sc	45	2	NoGas	4148603	0.94	4296857	96.55	30	120	
Rh	103	1	He	1684049	0.80	1652712	101.90	30	120	
In	115	1	He	837292	0.46	852389	98.23	30	120	
Tb	159	1	He	2480584	0.91	2425956	102.25	30	120	
Ho	165	1	He	2551975	0.61	2452680	104.05	30	120	
Bi	209	1	He	1877441	0.39	1810473	103.70	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	071CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:02:09-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.918	0.918	6.951	4786	6.24	1	91.8	69.5	130.5	
B	11	2	NoGas	18.797	18.797	1.488	70106	1.02	20	94.0	69.5	130.5	
Na	23	1	He	1131.123	1131.123	1.981	1700259	1.68	1000	113.1	69.5	130.5	
Mg	24	1	He	1077.990	1077.990	1.026	902291	0.66	1000	107.8	69.5	130.5	
Al	27	1	He	50.727	50.727	2.079	22779	2.24	50	101.5	69.5	130.5	
K	39	1	He	1068.406	1068.406	0.572	763524	0.83	1000	106.8	69.5	130.5	
Ca	44	1	He	1037.578	1037.578	0.196	36862	0.58	1000	103.8	69.5	130.5	
Ti	47	1	He	11.757	11.757	4.311	2451	4.71	10	117.6	69.5	130.5	
V	51	1	He	5.434	5.434	2.481	29180	2.06	5	108.7	69.5	130.5	
Cr	52	1	He	3.141	3.141	1.295	23399	0.95	2	157.0	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	5.512	5.512	0.831	25628	1.18	5	110.2	69.5	130.5	
Fe	56	1	He	116.170	116.170	0.829	700686	0.50	100	116.2	69.5	130.5	
Co	59	1	He	0.985	0.985	4.154	10643	5.32	1	98.5	69.5	130.5	
Ni	60	1	He	2.463	2.463	1.760	6829	1.86	2	123.1	69.5	130.5	
Cu	63	1	He	1.822	1.822	1.246	15820	1.04	2	91.1	69.5	130.5	
Zn	66	1	He	19.379	19.379	0.574	29592	1.69	20	96.9	69.5	130.5	
As	75	1	He	4.610	4.610	1.362	4526	0.54	5	92.2	69.5	130.5	
Se	78	1	He	4.673	4.673	1.557	393	2.78	5	93.5	69.5	130.5	
Sr	88	1	He	9.344	9.344	1.393	52319	0.66	10	93.4	69.5	130.5	
Mo	95	1	He	9.916	9.916	0.864	30545	1.85	10	99.2	69.5	130.5	
Ag	107	1	He	1.019	1.019	1.130	10651	0.80	1	101.9	69.5	130.5	
Cd	111	1	He	1.007	1.007	2.388	2619	3.40	1	100.7	69.5	130.5	
Sn	118	1	He	10.282	10.282	2.077	38845	2.38	10	102.8	69.5	130.5	
Sb	123	1	He	1.990	1.990	2.083	8683	2.28	2	99.5	69.5	130.5	
Ba	137	1	He	5.107	5.107	2.467	7923	2.70	5	102.1	69.5	130.5	
W	182	1	He	9.598	9.598	0.507	112931	0.79	10	96.0	69.5	130.5	
Tl	205	1	He	1.978	1.978	1.101	50993	0.86	2	98.9	69.5	130.5	
Pb	208	1	He	1.073	1.073	0.640	37037	0.88	1	107.3	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1665752	1.92	1803797	92.35	30	120	
Sc	45	1	He	551240	0.40	574766	95.91	30	120	
Sc	45	2	NoGas	4212441	0.82	4296857	98.04	30	120	
Rh	103	1	He	1684609	1.80	1652712	101.93	30	120	
In	115	1	He	843911	0.46	852389	99.01	30	120	
Tb	159	1	He	2491240	0.85	2425956	102.69	30	120	
Ho	165	1	He	2578089	0.96	2452680	105.11	30	120	
Bi	209	1	He	1858153	0.26	1810473	102.63	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-1-a@2
Data File Name	072SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:06:01-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.261	1.261	2.49	6201	0.02	10000	
B	11	45	2	NoGas	2.440	2.440	4.46	13769	0.02	300	
Na	23	45	1	He	296.912	296.912	0.49	462315	0.06	500000	
Mg	24	45	1	He	261.147	261.147	0.48	215677	0.12	500000	
Al	27	45	1	He	8540.584	8540.584	0.81	3653861	0.23	200000	
K	39	45	1	He	725.265	725.265	0.40	529442	0.14	500000	
Ca	44	45	1	He	333.308	333.308	1.52	12015	2.77	500000	
Ti	47	45	1	He	131.429	131.429	2.83	26937	0.49	2500	
V	51	45	1	He	46.210	46.210	1.07	242230	0.02	10000	
Cr	52	45	1	He	36.138	36.138	0.65	234997	0.02	10000	
Mn	55	45	1	He	82.210	82.210	0.42	373813	0.02	10000	
Fe	56	45	1	He	88661.842	88661.842	0.91	521635250	0.02	200000	
Co	59	103	1	He	7.081	7.081	2.27	69184	0.01	10000	
Ni	60	103	1	He	3.591	3.591	0.59	9007	0.04	10000	
Cu	63	103	1	He	105.602	105.602	1.79	701598	0.02	10000	
Zn	66	103	1	He	69.305	69.305	3.39	94082	0.07	10000	
As	75	103	1	He	8.702	8.702	2.81	7598	0.11	10000	
Se	78	103	1	He	2.101	2.101	9.23	176	1.20	10000	
Sr	88	103	1	He	5.947	5.947	4.63	30282	0.02	10000	
Mo	95	103	1	He	3.157	3.157	2.17	9273	0.03	2000	
Ag	107	103	1	He	0.029	0.029	12.40	300	0.01	300	
Cd	111	103	1	He	0.232	0.232	9.98	1154	0.02	4000	
Sn	118	115	1	He	16.893	16.893	4.46	57494	0.03	2000	
Sb	123	115	1	He	0.218	0.218	20.03	1585	0.01	300	
Ba	137	115	1	He	41.761	41.761	1.17	58799	0.07	10000	
W	182	165	1	He	0.506	0.506	11.61	8177	0.01	2500	
Tl	205	209	1	He	0.295	0.295	1.84	7701	0.00	5000	
Pb	208	209	1	He	24.021	24.021	2.22	783190	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1570437	2.65	1803797	87.06	30	120	
Sc	45	1	He	542213	0.81	574766	94.34	30	120	
Sc	45	2	NoGas	4117762	1.53	4296857	95.83	30	120	
Rh	103	1	He	1530656	2.60	1652712	92.61	30	120	
In	115	1	He	767078	0.92	852389	89.99	30	120	
Tb	159	1	He	2384003	1.43	2425956	98.27	30	120	
Ho	165	1	He	2445205	1.61	2452680	99.70	30	120	
Bi	209	1	He	1798413	1.63	1810473	99.33	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-2-a@2
Data File Name	073SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:09:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.555	1.555	11.10	7431	0.02	10000	
B	11	45	2	NoGas	4.957	4.957	7.10	22863	0.02	300	
Na	23	45	1	He	1222.094	1222.094	1.37	1956166	0.06	500000	
Mg	24	45	1	He	1081.704	1081.704	0.48	965574	0.11	500000	
Al	27	45	1	He	12729.164	12729.164	0.79	5904077	0.22	200000	
K	39	45	1	He	3141.426	3141.426	1.78	2265177	0.14	500000	
Ca	44	45	1	He	509.813	509.813	0.80	19614	2.60	500000	
Ti	47	45	1	He	237.965	237.965	0.70	52882	0.45	2500	
V	51	45	1	He	240.862	240.862	0.39	1367968	0.02	10000	
Cr	52	45	1	He	104.305	104.305	1.47	729481	0.01	10000	
Mn	55	45	1	He	54.592	54.592	1.57	269143	0.02	10000	
Fe	56	45	1	He	91820.152	91820.152	1.01	585676297	0.02	200000	
Co	59	103	1	He	2.631	2.631	3.21	26129	0.01	10000	
Ni	60	103	1	He	4.507	4.507	5.29	11448	0.04	10000	
Cu	63	103	1	He	33.041	33.041	1.57	224546	0.01	10000	
Zn	66	103	1	He	24.913	24.913	1.20	34871	0.07	10000	
As	75	103	1	He	3.026	3.026	2.54	2804	0.11	10000	
Se	78	103	1	He	5.476	5.476	5.56	420	1.30	10000	
Sr	88	103	1	He	12.981	12.981	1.62	67006	0.02	10000	
Mo	95	103	1	He	0.360	0.360	7.36	1653	0.02	2000	
Ag	107	103	1	He	0.020	0.020	11.83	224	0.01	300	
Cd	111	103	1	He	0.864	0.864	3.10	2187	0.04	4000	
Sn	118	115	1	He	17.224	17.224	1.31	59349	0.03	2000	
Sb	123	115	1	He	0.348	0.348	4.62	2071	0.02	300	
Ba	137	115	1	He	94.097	94.097	0.71	134136	0.07	10000	
W	182	165	1	He	0.198	0.198	7.62	5105	0.00	2500	
Tl	205	209	1	He	0.544	0.544	3.86	13563	0.00	5000	
Pb	208	209	1	He	42.624	42.624	0.73	1358591	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1527612	1.44	1803797	84.69	30	120	
Sc	45	1	He	587900	2.04	574766	102.29	30	120	
Sc	45	2	NoGas	4241264	0.40	4296857	98.71	30	120	
Rh	103	1	He	1554548	2.95	1652712	94.06	30	120	
In	115	1	He	776660	0.79	852389	91.12	30	120	
Tb	159	1	He	2485686	0.79	2425956	102.46	30	120	
Ho	165	1	He	2582571	1.24	2452680	105.30	30	120	
Bi	209	1	He	1758533	0.32	1810473	97.13	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-3-a@2
Data File Name	074SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:13:44-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.591	0.591	10.07	2871	0.02	10000	
B	11	45	2	NoGas	2.159	2.159	3.23	12879	0.02	300	
Na	23	45	1	He	586.049	586.049	0.36	882600	0.07	500000	
Mg	24	45	1	He	1668.745	1668.745	2.91	1375035	0.12	500000	
Al	27	45	1	He	33952.907	33952.907	0.63	14538209	0.23	200000	
K	39	45	1	He	1253.568	1253.568	0.48	871436	0.14	500000	
Ca	44	45	1	He	1778.020	1778.020	0.73	61804	2.88	500000	
Ti	47	45	1	He	214.439	214.439	1.63	43992	0.49	2500	
V	51	45	1	He	190.911	190.911	0.38	1000983	0.02	10000	
Cr	52	45	1	He	60.672	60.672	0.20	392999	0.02	10000	
Mn	55	45	1	He	70.329	70.329	0.31	320109	0.02	10000	
Fe	56	45	1	He	59555.703	59555.703	1.14	350708919	0.02	200000	
Co	59	103	1	He	5.242	5.242	2.41	49581	0.01	10000	
Ni	60	103	1	He	9.548	9.548	3.29	23026	0.04	10000	
Cu	63	103	1	He	43.830	43.830	2.21	283125	0.02	10000	
Zn	66	103	1	He	32.250	32.250	1.70	42798	0.08	10000	
As	75	103	1	He	8.932	8.932	1.61	7546	0.12	10000	
Se	78	103	1	He	2.034	2.034	11.56	165	1.23	10000	
Sr	88	103	1	He	7.882	7.882	4.15	38810	0.02	10000	
Mo	95	103	1	He	2.735	2.735	1.60	7861	0.03	2000	
Ag	107	103	1	He	0.020	0.020	14.44	212	0.01	300	
Cd	111	103	1	He	0.287	0.287	19.57	1202	0.02	4000	
Sn	118	115	1	He	16.509	16.509	0.63	56048	0.03	2000	
Sb	123	115	1	He	0.218	0.218	10.00	1580	0.01	300	
Ba	137	115	1	He	92.160	92.160	1.68	129327	0.07	10000	
W	182	165	1	He	0.196	0.196	21.31	4716	0.00	2500	
Tl	205	209	1	He	0.582	0.582	2.43	14289	0.00	5000	
Pb	208	209	1	He	31.214	31.214	1.73	981940	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1550391	0.86	1803797	85.95	30	120	
Sc	45	1	He	542743	1.24	574766	94.43	30	120	
Sc	45	2	NoGas	4133994	0.83	4296857	96.21	30	120	
Rh	103	1	He	1481554	2.90	1652712	89.64	30	120	
In	115	1	He	764702	1.63	852389	89.71	30	120	
Tb	159	1	He	2352794	1.12	2425956	96.98	30	120	
Ho	165	1	He	2394898	2.17	2452680	97.64	30	120	
Bi	209	1	He	1735620	2.26	1810473	95.87	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-4-a@2
Data File Name	075SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:17:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.733	0.733	1.03	3367	0.02	10000	
B	11	45	2	NoGas	2.363	2.363	7.65	12942	0.02	300	
Na	23	45	1	He	290.962	290.962	1.04	443693	0.07	500000	
Mg	24	45	1	He	150.200	150.200	1.21	121673	0.12	500000	
Al	27	45	1	He	7309.844	7309.844	1.11	3058754	0.24	200000	
K	39	45	1	He	1570.264	1570.264	0.71	1051396	0.15	500000	
Ca	44	45	1	He	164.881	164.881	1.56	6081	2.71	500000	
Ti	47	45	1	He	215.432	215.432	2.08	43183	0.50	2500	
V	51	45	1	He	95.176	95.176	1.17	487701	0.02	10000	
Cr	52	45	1	He	26.261	26.261	1.34	167770	0.02	10000	
Mn	55	45	1	He	86.252	86.252	1.63	383538	0.02	10000	
Fe	56	45	1	He	38369.394	38369.394	1.15	220779356	0.02	200000	
Co	59	103	1	He	1.511	1.511	0.33	14306	0.01	10000	
Ni	60	103	1	He	2.384	2.384	3.94	5803	0.04	10000	
Cu	63	103	1	He	30.820	30.820	0.43	199390	0.02	10000	
Zn	66	103	1	He	35.734	35.734	1.62	47242	0.08	10000	
As	75	103	1	He	10.165	10.165	1.16	8546	0.12	10000	
Se	78	103	1	He	3.218	3.218	6.17	246	1.31	10000	
Sr	88	103	1	He	9.201	9.201	1.54	45215	0.02	10000	
Mo	95	103	1	He	1.914	1.914	4.51	5674	0.03	2000	
Ag	107	103	1	He	0.054	0.054	11.10	527	0.01	300	
Cd	111	103	1	He	0.411	0.411	8.22	1388	0.03	4000	
Sn	118	115	1	He	17.608	17.608	1.18	58836	0.03	2000	
Sb	123	115	1	He	0.263	0.263	15.77	1713	0.02	300	
Ba	137	115	1	He	59.823	59.823	1.06	82719	0.07	10000	
W	182	165	1	He	0.053	0.053	72.94	3289	0.00	2500	
Tl	205	209	1	He	0.287	0.287	5.19	7051	0.00	5000	
Pb	208	209	1	He	51.003	51.003	1.80	1563207	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1466392	1.38	1803797	81.29	30	120	
Sc	45	1	He	530278	0.47	574766	92.26	30	120	
Sc	45	2	NoGas	3944061	0.67	4296857	91.79	30	120	
Rh	103	1	He	1478270	0.25	1652712	89.45	30	120	
In	115	1	He	753318	0.30	852389	88.38	30	120	
Tb	159	1	He	2424072	3.97	2425956	99.92	30	120	
Ho	165	1	He	2477215	3.88	2452680	101.00	30	120	
Bi	209	1	He	1691415	1.27	1810473	93.42	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-5-a@2
Data File Name	076SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:21:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.865	3.865	1.71	18061	0.02	10000	
B	11	45	2	NoGas	3.353	3.353	2.14	17935	0.02	300	
Na	23	45	1	He	797.126	797.126	0.54	1284666	0.06	500000	
Mg	24	45	1	He	54999.045	54999.045	0.75	48920972	0.11	500000	
Al	27	45	1	He	79557.995	79557.995	1.09	36801433	0.22	200000	
K	39	45	1	He	9081.979	9081.979	0.60	6408245	0.14	500000	
Ca	44	45	1	He	12298.736	12298.736	0.17	458402	2.68	500000	
Ti	47	45	1	He	2700.753	2700.753	0.80	598620	0.45	2500	>LDR
V	51	45	1	He	266.536	266.536	0.43	1509703	0.02	10000	
Cr	52	45	1	He	1093.574	1093.574	1.11	7600198	0.01	10000	
Mn	55	45	1	He	2018.579	2018.579	1.25	9921257	0.02	10000	
Fe	56	45	1	He	121203.409	121203.409	0.48	771144787	0.02	200000	
Co	59	103	1	He	91.606	91.606	1.06	811625	0.01	10000	
Ni	60	103	1	He	298.110	298.110	0.04	671738	0.04	10000	
Cu	63	103	1	He	208.579	208.579	0.49	1255369	0.02	10000	
Zn	66	103	1	He	221.390	221.390	1.20	271222	0.08	10000	
As	75	103	1	He	9.139	9.139	0.58	7234	0.13	10000	
Se	78	103	1	He	3.283	3.283	0.74	235	1.40	10000	
Sr	88	103	1	He	51.453	51.453	0.51	236937	0.02	10000	
Mo	95	103	1	He	1.624	1.624	2.57	4612	0.04	2000	
Ag	107	103	1	He	0.060	0.060	5.64	542	0.01	300	
Cd	111	103	1	He	0.653	0.653	10.11	1650	0.04	4000	
Sn	118	115	1	He	17.644	17.644	2.65	56536	0.03	2000	
Sb	123	115	1	He	0.165	0.165	7.93	1313	0.01	300	
Ba	137	115	1	He	492.559	492.559	0.84	653000	0.08	10000	
W	182	165	1	He	0.359	0.359	7.98	6446	0.01	2500	
Tl	205	209	1	He	0.790	0.790	0.91	17492	0.00	5000	
Pb	208	209	1	He	64.717	64.717	0.62	1849932	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1492500	1.32	1803797	82.74	30	120	
Sc	45	1	He	586357	0.69	574766	102.02	30	120	
Sc	45	2	NoGas	4388766	1.74	4296857	102.14	30	120	
Rh	103	1	He	1388513	0.60	1652712	84.01	30	120	
In	115	1	He	722394	0.78	852389	84.75	30	120	
Tb	159	1	He	2348383	0.69	2425956	96.80	30	120	
Ho	165	1	He	2393825	0.86	2452680	97.60	30	120	
Bi	209	1	He	1577458	0.60	1810473	87.13	30	120	

Sample Report

Sample Table

Sample Name	240-49409-g-6-b
Data File Name	077SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:25:19-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.035	0.035	19.90	167	0.02	10000	
B	11	45	2	NoGas	45.569	45.569	1.74	144440	0.03	300	
Na	23	45	1	He	261697.783	261697.783	1.27	345379920	0.08	500000	
Mg	24	45	1	He	22549.998	22549.998	1.07	16873647	0.13	500000	
Al	27	45	1	He	19.192	19.192	8.06	8111	0.24	200000	
K	39	45	1	He	7314.416	7314.416	1.98	4352370	0.17	500000	
Ca	44	45	1	He	59399.891	59399.891	0.25	1860564	3.19	500000	
Ti	47	45	1	He	2.444	2.444	11.37	457	0.54	2500	
V	51	45	1	He	0.343	0.343	36.96	1859	0.02	10000	
Cr	52	45	1	He	1.275	1.275	0.70	10032	0.01	10000	
Mn	55	45	1	He	8967.892	8967.892	1.07	37078520	0.02	10000	
Fe	56	45	1	He	16290.255	16290.255	1.10	87193334	0.02	200000	
Co	59	103	1	He	593.384	593.384	0.59	5133748	0.01	10000	
Ni	60	103	1	He	32.799	32.799	0.81	72239	0.05	10000	
Cu	63	103	1	He	3.691	3.691	2.17	23699	0.02	10000	
Zn	66	103	1	He	24.180	24.180	1.89	29545	0.08	10000	
As	75	103	1	He	0.953	0.953	4.53	881	0.11	10000	
Se	78	103	1	He	0.340	0.340	21.81	46	0.74	10000	
Sr	88	103	1	He	213.380	213.380	0.44	959144	0.02	10000	
Mo	95	103	1	He	1.294	1.294	4.84	3704	0.03	2000	
Ag	107	103	1	He	0.003	0.003	36.24	53	0.01	300	
Cd	111	103	1	He	0.152	0.152	21.71	910	0.02	4000	
Sn	118	115	1	He	0.387	0.387	8.85	1956	0.02	2000	
Sb	123	115	1	He	0.157	0.157	16.72	1286	0.01	300	
Ba	137	115	1	He	164.625	164.625	0.88	217905	0.08	10000	
W	182	165	1	He	0.057	0.057	78.86	3156	0.00	2500	
Tl	205	209	1	He	0.558	0.558	3.36	12112	0.00	5000	
Pb	208	209	1	He	0.226	0.226	4.56	7021	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1480468	1.85	1803797	82.08	30	120	
Sc	45	1	He	493259	0.29	574766	85.82	30	120	
Sc	45	2	NoGas	3760878	1.20	4296857	87.53	30	120	
Rh	103	1	He	1355874	0.53	1652712	82.04	30	120	
In	115	1	He	721215	0.39	852389	84.61	30	120	
Tb	159	1	He	2268202	0.58	2425956	93.50	30	120	
Ho	165	1	He	2336361	0.80	2452680	95.26	30	120	
Bi	209	1	He	1533362	0.54	1810473	84.69	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49409-g-6-b@5
Data File Name	078SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:29:10-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.032	0.032	51.52	163	0.02	10000	
B	11	45	2	NoGas	8.943	8.943	3.73	34255	0.03	300	
Na	23	45	1	He	52680.910	52680.910	2.31	74022006	0.07	500000	
Mg	24	45	1	He	4623.738	4623.738	1.43	3683217	0.13	500000	
Al	27	45	1	He	11.645	11.645	2.55	5509	0.21	200000	
K	39	45	1	He	1438.295	1438.295	2.58	958368	0.15	500000	
Ca	44	45	1	He	11518.005	11518.005	0.63	384444	3.00	500000	
Ti	47	45	1	He	0.674	0.674	57.94	136	0.50	2500	
V	51	45	1	He	0.091	0.091	67.52	703	0.01	10000	
Cr	52	45	1	He	0.263	0.263	6.15	4383	0.01	10000	
Mn	55	45	1	He	1836.432	1836.432	2.40	8081239	0.02	10000	
Fe	56	45	1	He	3338.008	3338.008	1.86	19020274	0.02	200000	
Co	59	103	1	He	114.203	114.203	1.37	1112987	0.01	10000	
Ni	60	103	1	He	6.560	6.560	2.26	16344	0.04	10000	
Cu	63	103	1	He	0.623	0.623	4.40	6415	0.01	10000	
Zn	66	103	1	He	5.046	5.046	3.58	7567	0.07	10000	
As	75	103	1	He	0.137	0.137	12.08	298	0.05	10000	
Se	78	103	1	He	0.097	0.097	109.39	34	0.28	10000	
Sr	88	103	1	He	41.099	41.099	1.45	208202	0.02	10000	
Mo	95	103	1	He	0.072	0.072	19.32	839	0.01	2000	
Ag	107	103	1	He	-0.002	-0.002	-34.36	16	-0.01	300	
Cd	111	103	1	He	0.061	0.061	20.77	881	0.01	4000	
Sn	118	115	1	He	-0.006	-0.006	-703.31	782	0.00	2000	
Sb	123	115	1	He	-0.006	-0.006	-208.51	810	0.00	300	
Ba	137	115	1	He	32.687	32.687	1.67	47404	0.07	10000	
W	182	165	1	He	0.008	0.008	436.61	2767	0.00	2500	
Tl	205	209	1	He	0.100	0.100	6.97	2865	0.00	5000	
Pb	208	209	1	He	0.041	0.041	5.90	2203	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1569380	1.78	1803797	87.00	30	120	
Sc	45	1	He	525065	1.43	574766	91.35	30	120	
Sc	45	2	NoGas	3969693	1.24	4296857	92.39	30	120	
Rh	103	1	He	1527472	1.44	1652712	92.42	30	120	
In	115	1	He	790014	0.49	852389	92.68	30	120	
Tb	159	1	He	2379986	0.72	2425956	98.11	30	120	
Ho	165	1	He	2453740	1.31	2452680	100.04	30	120	
Bi	209	1	He	1789957	0.49	1810473	98.87	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49409-g-6-b
Data File Name	079SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:33:01-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1081.530	1081.530	1.03	5139117	0.02	10000	
B	11	45	2	NoGas	160.094	160.094	0.59	512600	0.03	300	
Na	23	45	1	He	263104.248	263104.248	0.73	347467742	0.08	500000	
Mg	24	45	1	He	32171.113	32171.113	1.11	24088234	0.13	500000	
Al	27	45	1	He	9879.716	9879.716	0.47	3847726	0.26	200000	
K	39	45	1	He	17565.227	17565.227	0.85	10380649	0.17	500000	
Ca	44	45	1	He	68166.462	68166.462	1.11	2136597	3.19	500000	
Ti	47	45	1	He	106.996	106.996	2.67	19963	0.54	2500	
V	51	45	1	He	1110.223	1110.223	0.44	5292899	0.02	10000	
Cr	52	45	1	He	1074.701	1074.701	1.59	6287284	0.02	10000	
Mn	55	45	1	He	9780.885	9780.885	1.41	40466282	0.02	10000	
Fe	56	45	1	He	26486.486	26486.486	1.64	141855648	0.02	200000	
Co	59	103	1	He	1604.147	1604.147	1.81	13733379	0.01	10000	
Ni	60	103	1	He	1082.986	1082.986	0.74	2357924	0.05	10000	
Cu	63	103	1	He	1038.189	1038.189	1.44	6029737	0.02	10000	
Zn	66	103	1	He	1015.128	1015.128	1.22	1199258	0.08	10000	
As	75	103	1	He	1022.966	1022.966	0.86	764700	0.13	10000	
Se	78	103	1	He	987.936	987.936	1.47	61148	1.62	10000	
Sr	88	103	1	He	1283.459	1283.459	1.96	5708110	0.02	10000	
Mo	95	103	1	He	117.358	117.358	1.26	281796	0.04	2000	
Ag	107	103	1	He	104.755	104.755	1.18	869227	0.01	300	
Cd	111	103	1	He	1044.272	1044.272	1.36	1447892	0.07	4000	
Sn	118	115	1	He	1140.531	1140.531	0.88	3473621	0.03	2000	
Sb	123	115	1	He	111.221	111.221	0.61	359800	0.03	300	
Ba	137	115	1	He	1346.453	1346.453	1.36	1718895	0.08	10000	
W	182	165	1	He	101.462	101.462	0.78	1048309	0.01	2500	
Tl	205	209	1	He	264.444	264.444	1.38	5346615	0.00	5000	
Pb	208	209	1	He	1116.063	1116.063	0.96	29693049	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1517966	0.61	1803797	84.15	30	120	
Sc	45	1	He	493590	0.53	574766	85.88	30	120	
Sc	45	2	NoGas	3897439	0.87	4296857	90.70	30	120	
Rh	103	1	He	1341791	1.02	1652712	81.19	30	120	
In	115	1	He	695575	0.59	852389	81.60	30	120	
Tb	159	1	He	2244205	0.77	2425956	92.51	30	120	
Ho	165	1	He	2316194	0.61	2452680	94.44	30	120	
Bi	209	1	He	1468769	0.69	1810473	81.13	30	120	

Sample Report

Sample Table

Sample Name	240-49409-g-6-c ms
Data File Name	080SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:36:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1100.348	1100.348	2.09	5297342	0.02	10000	
B	11	45	2	NoGas	177.127	177.127	0.98	564618	0.03	300	
Na	23	45	1	He	302965.338	302965.338	0.32	399580117	0.08	500000	
Mg	24	45	1	He	36094.151	36094.151	0.66	26988802	0.13	500000	
Al	27	45	1	He	10457.208	10457.208	1.34	4066725	0.26	200000	
K	39	45	1	He	19101.177	19101.177	1.88	11267276	0.17	500000	
Ca	44	45	1	He	77083.051	77083.051	1.91	2412387	3.20	500000	
Ti	47	45	1	He	109.609	109.609	2.03	20422	0.54	2500	
V	51	45	1	He	1117.600	1117.600	0.97	5320469	0.02	10000	
Cr	52	45	1	He	1096.555	1096.555	0.77	6406887	0.02	10000	
Mn	55	45	1	He	11135.796	11135.796	2.15	46008024	0.02	10000	>LDR
Fe	56	45	1	He	29255.512	29255.512	1.81	156460265	0.02	200000	
Co	59	103	1	He	1742.053	1742.053	1.15	14792129	0.01	10000	
Ni	60	103	1	He	1135.870	1135.870	0.33	2452969	0.05	10000	
Cu	63	103	1	He	1067.810	1067.810	1.34	6151368	0.02	10000	
Zn	66	103	1	He	1040.540	1040.540	0.75	1219226	0.09	10000	
As	75	103	1	He	1051.695	1051.695	1.75	779675	0.13	10000	
Se	78	103	1	He	1012.191	1012.191	2.36	62130	1.63	10000	
Sr	88	103	1	He	1371.976	1371.976	0.38	6052956	0.02	10000	
Mo	95	103	1	He	125.590	125.590	0.69	299081	0.04	2000	
Ag	107	103	1	He	108.837	108.837	2.54	895584	0.01	300	
Cd	111	103	1	He	1066.405	1066.405	1.78	1466394	0.07	4000	
Sn	118	115	1	He	1180.849	1180.849	0.74	3581636	0.03	2000	
Sb	123	115	1	He	114.008	114.008	1.67	367244	0.03	300	
Ba	137	115	1	He	1398.024	1398.024	0.71	1777255	0.08	10000	
W	182	165	1	He	105.376	105.376	1.05	1105227	0.01	2500	
Tl	205	209	1	He	271.187	271.187	1.51	5492239	0.00	5000	
Pb	208	209	1	He	1136.134	1136.134	0.22	30277872	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1537872	0.42	1803797	85.26	30	120	
Sc	45	1	He	492920	1.15	574766	85.76	30	120	
Sc	45	2	NoGas	3883934	0.29	4296857	90.39	30	120	
Rh	103	1	He	1330859	1.48	1652712	80.53	30	120	
In	115	1	He	692712	0.64	852389	81.27	30	120	
Tb	159	1	He	2263675	0.32	2425956	93.31	30	120	
Ho	165	1	He	2351570	1.27	2452680	95.88	30	120	
Bi	209	1	He	1471222	0.36	1810473	81.26	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	081_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:40:21-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	43.579	0.944	234995	1.25	50	87.2	89.5	110.5	CCV Failed
B	11	45	2	NoGas	50.728	1.116	183849	1.03	50	101.5	89.5	110.5	
Na	23	45	1	He	26417.616	2.084	39895391	0.72	25000	105.7	89.5	110.5	
Mg	24	45	1	He	26130.965	0.974	22361647	1.62	25000	104.5	89.5	110.5	
Al	27	45	1	He	247.589	1.798	110907	1.44	250	99.0	89.5	110.5	
K	39	45	1	He	25947.104	1.602	17493261	1.26	25000	103.8	89.5	110.5	
Ca	44	45	1	He	24847.785	2.093	890238	0.54	25000	99.4	89.5	110.5	
Ti	47	45	1	He	51.288	0.961	10939	2.39	50	102.6	89.5	110.5	
V	51	45	1	He	51.691	1.322	281866	1.34	50	103.4	89.5	110.5	
Cr	52	45	1	He	51.395	1.464	346439	1.52	50	102.8	89.5	110.5	
Mn	55	45	1	He	253.245	1.681	1197479	0.97	250	101.3	89.5	110.5	
Fe	56	45	1	He	13018.614	1.097	79690559	1.52	12500	104.1	89.5	110.5	
Co	59	103	1	He	48.200	2.250	497170	1.68	50	96.4	89.5	110.5	
Ni	60	103	1	He	48.095	1.477	126238	0.79	50	96.2	89.5	110.5	
Cu	63	103	1	He	48.462	1.430	341423	1.07	50	96.9	89.5	110.5	
Zn	66	103	1	He	47.798	2.671	68809	1.29	50	95.6	89.5	110.5	
As	75	103	1	He	48.891	2.085	44210	0.97	50	97.8	89.5	110.5	
Se	78	103	1	He	47.846	1.535	3595	0.50	50	95.7	89.5	110.5	
Sr	88	103	1	He	47.852	1.369	256534	0.64	50	95.7	89.5	110.5	
Mo	95	103	1	He	50.810	1.483	147370	0.95	50	101.6	89.5	110.5	
Ag	107	103	1	He	49.548	2.434	495271	1.10	50	99.1	89.5	110.5	
Cd	111	103	1	He	49.816	1.862	84000	0.77	50	99.6	89.5	110.5	
Sn	118	115	1	He	51.517	1.781	186710	1.95	50	103.0	89.5	110.5	
Sb	123	115	1	He	52.742	1.156	202604	0.96	50	105.5	89.5	110.5	
Ba	137	115	1	He	51.586	0.396	78037	0.45	50	103.2	89.5	110.5	
W	182	165	1	He	49.335	1.831	558588	1.54	50	98.7	89.5	110.5	
Tl	205	209	1	He	47.309	1.908	1192879	1.33	50	94.6	89.5	110.5	
Pb	208	209	1	He	48.698	1.370	1616170	0.84	50	97.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1722576	0.96	1803797	95.50	30	120	
Sc	45	1	He	564194	2.60	574766	98.16	30	120	
Sc	45	2	NoGas	4315154	0.19	4296857	100.43	30	120	
Rh	103	1	He	1616566	1.35	1652712	97.81	30	120	
In	115	1	He	824152	0.49	852389	96.69	30	120	
Tb	159	1	He	2469425	1.24	2425956	101.79	30	120	
Ho	165	1	He	2531799	0.99	2452680	103.23	30	120	
Bi	209	1	He	1831269	0.82	1810473	101.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	082_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:44:12-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.106	20.9	593	20.7	1	
B	11	45	2	NoGas	2.714	1.7	15670	1.2	20	
Na	23	45	1	He	35.977	5.1	86722	2.1	400	
Mg	24	45	1	He	1.939	17.5	2552	10.1	1000	
Al	27	45	1	He	8.106	4.7	4319	3.0	50	
K	39	45	1	He	6.506	51.9	67603	3.4	1000	
Ca	44	45	1	He	5.406	20.9	754	6.7	1000	
Ti	47	45	1	He	0.335	17.5	72	18.7	20	
V	51	45	1	He	0.039	180.5	464	80.2	2	
Cr	52	45	1	He	0.022	13.9	3081	1.3	2	
Mn	55	45	1	He	0.284	5.5	1500	5.4	2	
Fe	56	45	1	He	12.204	22.8	80125	19.8	50	
Co	59	103	1	He	0.037	9.5	457	6.7	1	
Ni	60	103	1	He	0.015	76.8	141	22.3	2	
Cu	63	103	1	He	-0.038	-85.5	2278	8.6	2	
Zn	66	103	1	He	0.437	35.3	1526	13.9	20	
As	75	103	1	He	0.186	4.8	379	2.7	2	
Se	78	103	1	He	0.245	57.1	50	21.3	2	
Sr	88	103	1	He	0.069	33.2	537	26.4	10	
Mo	95	103	1	He	0.764	23.7	3031	16.4	2	
Ag	107	103	1	He	0.005	23.3	81	11.9	0.2	
Cd	111	103	1	He	0.114	31.1	1077	7.4	0.2	
Sn	118	115	1	He	0.502	19.1	2752	13.0	10	
Sb	123	115	1	He	0.229	28.4	1812	14.1	1	
Ba	137	115	1	He	0.043	50.3	81	42.2	5	
W	182	165	1	He	1.099	10.3	15326	8.5	10	
Tl	205	209	1	He	0.079	18.2	2500	15.7	0.5	
Pb	208	209	1	He	0.042	5.5	2382	3.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1771092	0.68	1803797	98.19	30	120	
Sc	45	1	He	561275	1.43	574766	97.65	30	120	
Sc	45	2	NoGas	4392850	0.99	4296857	102.23	30	120	
Rh	103	1	He	1701631	2.11	1652712	102.96	30	120	
In	115	1	He	856698	0.22	852389	100.51	30	120	
Tb	159	1	He	2498692	0.11	2425956	103.00	30	120	
Ho	165	1	He	2561509	0.35	2452680	104.44	30	120	
Bi	209	1	He	1902516	0.56	1810473	105.08	30	120	

Sample Report

Sample Table

Sample Name	240-49409-g-6-d msd
Data File Name	083SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:48:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1016.052	1016.052	1.54	5024832	0.02	10000	
B	11	45	2	NoGas	163.713	163.713	1.58	532465	0.03	300	
Na	23	45	1	He	270557.568	270557.568	2.73	371710111	0.07	500000	
Mg	24	45	1	He	32473.827	32473.827	1.80	25297617	0.13	500000	
Al	27	45	1	He	9325.301	9325.301	1.72	3778557	0.25	200000	
K	39	45	1	He	17140.908	17140.908	1.70	10540691	0.16	500000	
Ca	44	45	1	He	69626.377	69626.377	2.48	2270215	3.07	500000	
Ti	47	45	1	He	97.806	97.806	2.53	18986	0.52	2500	
V	51	45	1	He	1008.954	1008.954	2.86	5003937	0.02	10000	
Cr	52	45	1	He	987.675	987.675	1.58	6012190	0.02	10000	
Mn	55	45	1	He	10078.276	10078.276	0.43	43388068	0.02	10000	>LDR
Fe	56	45	1	He	26312.291	26312.291	1.79	146620856	0.02	200000	
Co	59	103	1	He	1596.990	1596.990	0.56	13795805	0.01	10000	
Ni	60	103	1	He	1030.927	1030.927	0.82	2264739	0.05	10000	
Cu	63	103	1	He	987.938	987.938	1.08	5790008	0.02	10000	
Zn	66	103	1	He	964.420	964.420	0.66	1149683	0.08	10000	
As	75	103	1	He	970.897	970.897	0.43	732322	0.13	10000	
Se	78	103	1	He	939.651	939.651	1.96	58683	1.60	10000	
Sr	88	103	1	He	1255.444	1255.444	1.00	5634194	0.02	10000	
Mo	95	103	1	He	113.231	113.231	0.96	274356	0.04	2000	
Ag	107	103	1	He	98.841	98.841	0.57	827555	0.01	300	
Cd	111	103	1	He	974.261	974.261	0.82	1363055	0.07	4000	
Sn	118	115	1	He	1066.161	1066.161	0.32	3312200	0.03	2000	
Sb	123	115	1	He	103.416	103.416	1.54	341256	0.03	300	
Ba	137	115	1	He	1260.843	1260.843	0.70	1641654	0.08	10000	
W	182	165	1	He	95.414	95.414	1.01	999640	0.01	2500	
Tl	205	209	1	He	242.349	242.349	0.78	4988115	0.00	5000	
Pb	208	209	1	He	1024.937	1024.937	0.38	27758291	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1580131	2.03	1803797	87.60	30	120	
Sc	45	1	He	513615	1.58	574766	89.36	30	120	
Sc	45	2	NoGas	3959765	1.27	4296857	92.15	30	120	
Rh	103	1	He	1353815	0.55	1652712	81.91	30	120	
In	115	1	He	709484	0.82	852389	83.23	30	120	
Tb	159	1	He	2253922	0.25	2425956	92.91	30	120	
Ho	165	1	He	2348246	0.57	2452680	95.74	30	120	
Bi	209	1	He	1495119	0.31	1810473	82.58	30	120	

Sample Report

Sample Table

Sample Name	240-49423-i-1-b
Data File Name	084SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:51:44-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.185	0.185	13.62	989	0.02	10000	
B	11	45	2	NoGas	63.592	63.592	1.27	224341	0.03	300	
Na	23	45	1	He	3435.126	3435.126	1.55	4952034	0.07	500000	
Mg	24	45	1	He	10789.554	10789.554	1.82	8764260	0.12	500000	
Al	27	45	1	He	13.428	13.428	4.39	6369	0.21	200000	
K	39	45	1	He	4736.702	4736.702	0.31	3080929	0.15	500000	
Ca	44	45	1	He	69129.098	69129.098	0.52	2350513	2.94	500000	
Ti	47	45	1	He	0.714	0.714	20.33	146	0.49	2500	
V	51	45	1	He	0.375	0.375	17.26	2183	0.02	10000	
Cr	52	45	1	He	1.278	1.278	4.22	10915	0.01	10000	
Mn	55	45	1	He	69.185	69.185	1.77	310662	0.02	10000	
Fe	56	45	1	He	59.864	59.864	2.49	353551	0.02	200000	
Co	59	103	1	He	0.283	0.283	10.55	2834	0.01	10000	
Ni	60	103	1	He	0.706	0.706	7.22	1857	0.04	10000	
Cu	63	103	1	He	1.816	1.816	3.32	14452	0.01	10000	
Zn	66	103	1	He	11.608	11.608	0.31	16556	0.07	10000	
As	75	103	1	He	1.771	1.771	1.93	1706	0.10	10000	
Se	78	103	1	He	0.922	0.922	4.63	93	0.99	10000	
Sr	88	103	1	He	106.702	106.702	0.73	545972	0.02	10000	
Mo	95	103	1	He	0.786	0.786	22.77	2817	0.03	2000	
Ag	107	103	1	He	0.009	0.009	64.65	112	0.01	300	
Cd	111	103	1	He	0.220	0.220	26.27	1144	0.02	4000	
Sn	118	115	1	He	2.568	2.568	16.43	9692	0.03	2000	
Sb	123	115	1	He	0.584	0.584	8.36	2976	0.02	300	
Ba	137	115	1	He	29.460	29.460	2.09	42779	0.07	10000	
W	182	165	1	He	1.198	1.198	21.39	15883	0.01	2500	
Tl	205	209	1	He	0.189	0.189	27.75	5070	0.00	5000	
Pb	208	209	1	He	0.231	0.231	12.06	8424	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1705083	2.10	1803797	94.53	30	120	
Sc	45	1	He	535472	0.84	574766	93.16	30	120	
Sc	45	2	NoGas	4227900	0.55	4296857	98.40	30	120	
Rh	103	1	He	1543224	0.43	1652712	93.38	30	120	
In	115	1	He	791129	1.07	852389	92.81	30	120	
Tb	159	1	He	2379284	1.54	2425956	98.08	30	120	
Ho	165	1	He	2469800	0.43	2452680	100.70	30	120	
Bi	209	1	He	1803450	1.51	1810473	99.61	30	120	

Sample Report

Sample Table

Sample Name	190-7066-a-1-a
Data File Name	085SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:55:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.122	0.122	21.91	630	0.02	10000	
B	11	45	2	NoGas	83.813	83.813	2.45	292463	0.03	300	
Na	23	45	1	He	248255.041	248255.041	0.82	353453364	0.07	500000	
Mg	24	45	1	He	8340.834	8340.834	1.53	6733350	0.12	500000	
Al	27	45	1	He	28.428	28.428	1.52	12627	0.23	200000	
K	39	45	1	He	143291.824	143291.824	1.74	90860124	0.16	500000	
Ca	44	45	1	He	14438.800	14438.800	1.15	488282	2.96	500000	
Ti	47	45	1	He	1.692	1.692	17.51	341	0.50	2500	
V	51	45	1	He	1.957	1.957	6.37	10298	0.02	10000	
Cr	52	45	1	He	1.718	1.718	2.52	13617	0.01	10000	
Mn	55	45	1	He	42.603	42.603	1.22	190172	0.02	10000	
Fe	56	45	1	He	129.264	129.264	0.74	751977	0.02	200000	
Co	59	103	1	He	0.300	0.300	2.54	2754	0.01	10000	
Ni	60	103	1	He	288.952	288.952	0.67	663503	0.04	10000	
Cu	63	103	1	He	2.404	2.404	0.37	16850	0.01	10000	
Zn	66	103	1	He	60.959	60.959	1.36	76629	0.08	10000	
As	75	103	1	He	1.945	1.945	1.93	1702	0.11	10000	
Se	78	103	1	He	0.739	0.739	6.13	74	1.00	10000	
Sr	88	103	1	He	66.661	66.661	0.39	312790	0.02	10000	
Mo	95	103	1	He	9.309	9.309	0.56	24121	0.04	2000	
Ag	107	103	1	He	0.008	0.008	6.13	96	0.01	300	
Cd	111	103	1	He	0.173	0.173	26.14	981	0.02	4000	
Sn	118	115	1	He	2.787	2.787	5.53	10174	0.03	2000	
Sb	123	115	1	He	2.987	2.987	4.00	11478	0.03	300	
Ba	137	115	1	He	2.962	2.962	3.63	4195	0.07	10000	
W	182	165	1	He	0.512	0.512	5.10	8028	0.01	2500	
Tl	205	209	1	He	0.120	0.120	11.67	2987	0.00	5000	
Pb	208	209	1	He	0.242	0.242	1.52	7789	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1635241	0.65	1803797	90.66	30	120	
Sc	45	1	He	532122	0.60	574766	92.58	30	120	
Sc	45	2	NoGas	4208065	0.82	4296857	97.93	30	120	
Rh	103	1	He	1414984	0.52	1652712	85.62	30	120	
In	115	1	He	769373	0.84	852389	90.26	30	120	
Tb	159	1	He	2340454	0.71	2425956	96.48	30	120	
Ho	165	1	He	2380016	0.62	2452680	97.04	30	120	
Bi	209	1	He	1600051	0.20	1810473	88.38	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176522/1-a
Data File Name	086_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T15:59:28-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.101	9.1	552	7.6	1	
B	11	45	2	NoGas	4.115	0.6	20060	2.5	20	
Na	23	45	1	He	104.679	4.3	189293	4.9	400	
Mg	24	45	1	He	51.931	4.2	44945	2.9	1000	
Al	27	45	1	He	4.310	8.2	2629	4.7	50	
K	39	45	1	He	43.645	2.4	92110	2.0	1000	
Ca	44	45	1	He	169.842	2.0	6589	1.7	1000	
Ti	47	45	1	He	0.590	29.8	126	28.4	20	
V	51	45	1	He	0.278	36.1	1758	31.2	2	
Cr	52	45	1	He	1.130	6.0	10409	3.2	2	
Mn	55	45	1	He	0.627	5.2	3103	3.7	2	
Fe	56	45	1	He	12.826	4.7	83732	3.1	50	
Co	59	103	1	He	0.133	0.8	1441	0.7	1	
Ni	60	103	1	He	0.268	8.8	808	7.9	2	
Cu	63	103	1	He	0.506	0.9	6060	0.8	2	
Zn	66	103	1	He	3.565	2.4	5988	2.2	20	
As	75	103	1	He	0.285	11.4	456	6.4	2	
Se	78	103	1	He	0.136	60.5	40	15.7	2	
Sr	88	103	1	He	0.641	6.7	3627	6.4	10	
Mo	95	103	1	He	-0.062	-45.2	510	16.1	2	
Ag	107	103	1	He	0.001	88.3	43	23.1	0.2	
Cd	111	103	1	He	0.118	13.4	1043	2.4	0.2	
Sn	118	115	1	He	0.848	2.4	3952	1.9	10	
Sb	123	115	1	He	0.369	6.5	2311	4.1	1	
Ba	137	115	1	He	1.061	11.0	1640	10.8	5	
W	182	165	1	He	0.135	17.5	4282	5.3	10	
Tl	205	209	1	He	0.022	23.6	996	12.8	0.5	
Pb	208	209	1	He	0.150	1.4	6064	1.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1736362	1.44	1803797	96.26	30	120	
Sc	45	1	He	559280	1.30	574766	97.31	30	120	
Sc	45	2	NoGas	4262211	2.17	4296857	99.19	30	120	
Rh	103	1	He	1640240	0.22	1652712	99.25	30	120	
In	115	1	He	835422	0.02	852389	98.01	30	120	
Tb	159	1	He	2456919	0.11	2425956	101.28	30	120	
Ho	165	1	He	2525394	1.04	2452680	102.96	30	120	
Bi	209	1	He	1888342	1.05	1810473	104.30	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176522/3-a
Data File Name	087_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:03:22-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	984.293	984.293	1.326	4931816	1.01	1000	98.4	79.5	120.5	
B	11	2	NoGas	110.343	110.343	1.621	358741	2.42	100	110.3	79.5	120.5	
Na	23	1	He	10110.072	10110.072	2.028	14076489	0.35	10000	101.1	79.5	120.5	
Mg	24	1	He	9984.358	9984.358	1.707	7866374	0.73	10000	99.8	79.5	120.5	
Al	27	1	He	9258.220	9258.220	2.270	3793434	0.74	10000	92.6	79.5	120.5	
K	39	1	He	9940.367	9940.367	2.725	6205337	0.49	10000	99.4	79.5	120.5	
Ca	44	1	He	9167.062	9167.062	1.821	302752	1.20	10000	91.7	79.5	120.5	
Ti	47	1	He	97.622	97.622	3.496	19160	1.36	100	97.6	79.5	120.5	
V	51	1	He	990.709	990.709	1.533	4969539	1.06	1000	99.1	79.5	120.5	
Cr	52	1	He	995.485	995.485	1.623	6128049	0.86	1000	99.5	79.5	120.5	
Mn	55	1	He	983.431	983.431	2.794	4280359	0.52	1000	98.3	79.5	120.5	
Fe	56	1	He	9988.728	9988.728	1.447	56294417	0.96	10000	99.9	79.5	120.5	
Co	59	1	He	930.372	930.372	2.510	8800922	0.56	1000	93.0	79.5	120.5	
Ni	60	1	He	966.017	966.017	2.443	2323975	1.05	1000	96.6	79.5	120.5	
Cu	63	1	He	948.804	948.804	2.480	6089253	0.47	1000	94.9	79.5	120.5	
Zn	66	1	He	923.171	923.171	2.708	1205084	0.60	1000	92.3	79.5	120.5	
As	75	1	He	898.089	898.089	2.631	741797	0.53	1000	89.8	79.5	120.5	
Se	78	1	He	908.582	908.582	2.107	62145	0.33	1000	90.9	79.5	120.5	
Sr	88	1	He	950.087	950.087	1.991	4669471	0.64	1000	95.0	79.5	120.5	
Mo	95	1	He	100.606	100.606	2.834	267002	0.77	100	100.6	79.5	120.5	
Ag	107	1	He	97.077	97.077	3.220	889962	1.12	100	97.1	79.5	120.5	
Cd	111	1	He	956.731	956.731	2.775	1465754	0.68	1000	95.7	79.5	120.5	
Sn	118	1	He	1055.257	1055.257	0.704	3420737	0.55	1000	105.5	79.5	120.5	
Sb	123	1	He	101.762	101.762	0.128	350435	0.36	100	101.8	79.5	120.5	
Ba	137	1	He	998.836	998.836	1.019	1357067	0.84	1000	99.9	79.5	120.5	
W	182	1	He	92.242	92.242	0.767	997172	1.32	100	92.2	79.5	120.5	
Tl	205	1	He	229.026	229.026	1.373	5512480	0.44	250	91.6	79.5	120.5	
Pb	208	1	He	939.638	939.638	1.165	29759577	0.11	1000	94.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1600653	0.72	1803797	88.74	30	120	
Sc	45	1	He	519458	2.40	574766	90.38	30	120	
Sc	45	2	NoGas	3938908	1.80	4296857	91.67	30	120	
Rh	103	1	He	1483003	2.08	1652712	89.73	30	120	
In	115	1	He	740317	0.26	852389	86.85	30	120	
Tb	159	1	He	2348256	0.67	2425956	96.80	30	120	
Ho	165	1	He	2422702	0.59	2452680	98.78	30	120	
Bi	209	1	He	1748587	1.27	1810473	96.58	30	120	

Sample Report

Sample Table

Sample Name	240-49304-k-1-a
Data File Name	088SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:06:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.252	0.252	8.91	1152	0.02	10000	
B	11	45	2	NoGas	267.730	267.730	0.94	847764	0.03	300	
Na	23	45	1	He	651044.409	651044.409	1.19	850675522	0.08	500000	>LDR
Mg	24	45	1	He	221618.219	221618.219	0.84	164187119	0.13	500000	
Al	27	45	1	He	26.746	26.746	7.38	10944	0.24	200000	
K	39	45	1	He	44784.096	44784.096	0.84	26101937	0.17	500000	
Ca	44	45	1	He	199251.602	199251.602	1.00	6178730	3.22	500000	
Ti	47	45	1	He	1.631	1.631	7.32	302	0.54	2500	
V	51	45	1	He	2.204	2.204	4.02	10617	0.02	10000	
Cr	52	45	1	He	2.988	2.988	2.15	19845	0.02	10000	
Mn	55	45	1	He	3259.670	3259.670	0.67	13344517	0.02	10000	
Fe	56	45	1	He	154342.072	154342.072	0.12	817936963	0.02	200000	
Co	59	103	1	He	24.140	24.140	0.44	197291	0.01	10000	
Ni	60	103	1	He	19.297	19.297	0.07	40172	0.05	10000	
Cu	63	103	1	He	1.692	1.692	16.55	11296	0.01	10000	
Zn	66	103	1	He	32.681	32.681	1.49	37485	0.09	10000	
As	75	103	1	He	3.539	3.539	5.76	2676	0.13	10000	
Se	78	103	1	He	1.988	1.988	18.67	140	1.42	10000	
Sr	88	103	1	He	1722.893	1722.893	1.06	7313327	0.02	10000	
Mo	95	103	1	He	1.134	1.134	14.89	3130	0.04	2000	
Ag	107	103	1	He	0.010	0.010	51.69	108	0.01	300	
Cd	111	103	1	He	2.797	2.797	2.15	4359	0.06	4000	
Sn	118	115	1	He	2.233	2.233	19.01	7584	0.03	2000	
Sb	123	115	1	He	0.665	0.665	10.35	2911	0.02	300	
Ba	137	115	1	He	64.223	64.223	1.03	82881	0.08	10000	
W	182	165	1	He	1.175	1.175	18.89	14237	0.01	2500	
Tl	205	209	1	He	0.210	0.210	31.76	4442	0.00	5000	
Pb	208	209	1	He	0.297	0.297	9.14	8410	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1455203	1.83	1803797	80.67	30	120	
Sc	45	1	He	488399	1.05	574766	84.97	30	120	
Sc	45	2	NoGas	3870338	0.42	4296857	90.07	30	120	
Rh	103	1	He	1280620	1.14	1652712	77.49	30	120	
In	115	1	He	703079	0.51	852389	82.48	30	120	
Tb	159	1	He	2186447	0.63	2425956	90.13	30	120	
Ho	165	1	He	2250664	0.53	2452680	91.76	30	120	
Bi	209	1	He	1433217	0.73	1810473	79.16	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49304-k-1-a@5
Data File Name	089SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:10:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.135	0.135	10.08	689	0.02	10000	
B	11	45	2	NoGas	54.328	54.328	0.54	192757	0.03	300	
Na	23	45	1	He	129767.302	129767.302	1.59	189150607	0.07	500000	
Mg	24	45	1	He	44605.454	44605.454	2.50	36856242	0.12	500000	
Al	27	45	1	He	6.264	6.264	9.54	3401	0.18	200000	
K	39	45	1	He	8981.532	8981.532	0.81	5888253	0.15	500000	
Ca	44	45	1	He	40702.573	40702.573	0.76	1408197	2.89	500000	
Ti	47	45	1	He	0.679	0.679	42.33	141	0.48	2500	
V	51	45	1	He	0.481	0.481	24.92	2784	0.02	10000	
Cr	52	45	1	He	0.609	0.609	9.62	6779	0.01	10000	
Mn	55	45	1	He	665.835	665.835	1.99	3040410	0.02	10000	
Fe	56	45	1	He	30875.427	30875.427	1.43	182499699	0.02	200000	
Co	59	103	1	He	4.634	4.634	0.83	44835	0.01	10000	
Ni	60	103	1	He	3.827	3.827	2.17	9491	0.04	10000	
Cu	63	103	1	He	0.204	0.204	1.56	3616	0.01	10000	
Zn	66	103	1	He	6.478	6.478	2.30	9410	0.07	10000	
As	75	103	1	He	0.462	0.462	3.48	570	0.08	10000	
Se	78	103	1	He	0.339	0.339	4.07	51	0.67	10000	
Sr	88	103	1	He	336.920	336.920	2.60	1691288	0.02	10000	
Mo	95	103	1	He	0.010	0.010	113.73	664	0.00	2000	
Ag	107	103	1	He	0.003	0.003	81.04	53	0.00	300	
Cd	111	103	1	He	0.622	0.622	5.47	1753	0.04	4000	
Sn	118	115	1	He	0.182	0.182	20.29	1463	0.01	2000	
Sb	123	115	1	He	0.114	0.114	11.19	1277	0.01	300	
Ba	137	115	1	He	12.688	12.688	1.57	18799	0.07	10000	
W	182	165	1	He	0.204	0.204	13.25	5068	0.00	2500	
Tl	205	209	1	He	0.030	0.030	17.35	1107	0.00	5000	
Pb	208	209	1	He	0.068	0.068	5.28	3025	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1625837	1.13	1803797	90.13	30	120	
Sc	45	1	He	544771	1.06	574766	94.78	30	120	
Sc	45	2	NoGas	4233285	0.93	4296857	98.52	30	120	
Rh	103	1	He	1514647	1.77	1652712	91.65	30	120	
In	115	1	He	806842	0.41	852389	94.66	30	120	
Tb	159	1	He	2446667	1.60	2425956	100.85	30	120	
Ho	165	1	He	2532488	1.48	2452680	103.25	30	120	
Bi	209	1	He	1750306	0.21	1810473	96.68	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49304-k-1-a
Data File Name	090SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:14:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2143.042	2143.042	0.36	9742743	0.02	10000	
B	11	45	2	NoGas	493.301	493.301	1.99	1537637	0.03	300	>LDR
Na	23	45	1	He	629588.825	629588.825	1.38	832118456	0.08	500000	>LDR
Mg	24	45	1	He	226078.022	226078.022	1.40	169415538	0.13	500000	
Al	27	45	1	He	19154.831	19154.831	1.57	7465766	0.26	200000	
K	39	45	1	He	61733.272	61733.272	1.06	36374290	0.17	500000	
Ca	44	45	1	He	202799.244	202799.244	0.33	6360561	3.19	500000	
Ti	47	45	1	He	205.789	205.789	1.11	38431	0.54	2500	
V	51	45	1	He	2085.203	2085.203	0.97	9949184	0.02	10000	
Cr	52	45	1	He	2031.225	2031.225	0.34	11891372	0.02	10000	
Mn	55	45	1	He	4988.969	4988.969	1.16	20658573	0.02	10000	
Fe	56	45	1	He	161829.842	161829.842	0.71	867458383	0.02	200000	
Co	59	103	1	He	2080.611	2080.611	0.55	16865900	0.01	10000	
Ni	60	103	1	He	2060.785	2060.785	0.81	4248157	0.05	10000	
Cu	63	103	1	He	1993.707	1993.707	0.96	10962490	0.02	10000	
Zn	66	103	1	He	2068.767	2068.767	1.38	2313343	0.09	10000	
As	75	103	1	He	2118.780	2118.780	0.57	1499481	0.14	10000	
Se	78	103	1	He	2125.487	2125.487	1.02	124539	1.71	10000	
Sr	88	103	1	He	3849.942	3849.942	0.55	16212933	0.02	10000	
Mo	95	103	1	He	239.461	239.461	1.09	543864	0.04	2000	
Ag	107	103	1	He	214.980	214.980	1.66	1689047	0.01	300	
Cd	111	103	1	He	2175.912	2175.912	0.93	2855912	0.08	4000	
Sn	118	115	1	He	2361.697	2361.697	1.03	6785763	0.03	2000	>LDR
Sb	123	115	1	He	228.683	228.683	0.48	697245	0.03	300	
Ba	137	115	1	He	2470.265	2470.265	0.30	2975334	0.08	10000	
W	182	165	1	He	216.569	216.569	0.79	2193103	0.01	2500	
Tl	205	209	1	He	539.234	539.234	1.80	10359884	0.01	5000	
Pb	208	209	1	He	2217.361	2217.361	1.36	56056760	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1452282	0.33	1803797	80.51	30	120	
Sc	45	1	He	493998	0.18	574766	85.95	30	120	
Sc	45	2	NoGas	3820963	0.57	4296857	88.92	30	120	
Rh	103	1	He	1270395	0.36	1652712	76.87	30	120	
In	115	1	He	656288	0.56	852389	76.99	30	120	
Tb	159	1	He	2199902	1.33	2425956	90.68	30	120	
Ho	165	1	He	2272853	1.04	2452680	92.67	30	120	
Bi	209	1	He	1395658	0.38	1810473	77.09	30	120	

Sample Report

Sample Table

Sample Name	240-49304-k-1-d ms
Data File Name	091SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:18:09-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1193.098	1193.098	23.33	4944129	0.02	10000	
B	11	45	2	NoGas	419.119	419.119	26.02	1238937	0.03	300	>LDR
Na	23	45	1	He	633260.040	633260.040	0.44	836212559	0.08	500000	>LDR
Mg	24	45	1	He	221546.066	221546.066	0.40	165869405	0.13	500000	
Al	27	45	1	He	10038.341	10038.341	0.78	3909117	0.26	200000	
K	39	45	1	He	53241.179	53241.179	0.40	31349464	0.17	500000	
Ca	44	45	1	He	198254.181	198254.181	1.11	6212156	3.19	500000	
Ti	47	45	1	He	104.255	104.255	1.76	19453	0.54	2500	
V	51	45	1	He	1091.843	1091.843	2.65	5204416	0.02	10000	
Cr	52	45	1	He	1046.493	1046.493	2.25	6121778	0.02	10000	
Mn	55	45	1	He	4149.684	4149.684	0.72	17167477	0.02	10000	
Fe	56	45	1	He	156777.887	156777.887	0.73	839605478	0.02	200000	
Co	59	103	1	He	1072.130	1072.130	1.31	8676508	0.01	10000	
Ni	60	103	1	He	1085.125	1085.125	1.43	2233229	0.05	10000	
Cu	63	103	1	He	1030.067	1030.067	1.78	5655254	0.02	10000	
Zn	66	103	1	He	1008.640	1008.640	1.64	1126325	0.09	10000	
As	75	103	1	He	1075.091	1075.091	1.11	759666	0.14	10000	
Se	78	103	1	He	1074.410	1074.410	1.18	62860	1.71	10000	
Sr	88	103	1	He	2793.700	2793.700	1.22	11745200	0.02	10000	
Mo	95	103	1	He	124.482	124.482	1.06	282516	0.04	2000	
Ag	107	103	1	He	105.567	105.567	1.05	828038	0.01	300	
Cd	111	103	1	He	1039.219	1039.219	1.16	1362059	0.08	4000	
Sn	118	115	1	He	1190.443	1190.443	1.07	3523180	0.03	2000	
Sb	123	115	1	He	112.696	112.696	1.05	354246	0.03	300	
Ba	137	115	1	He	1172.307	1172.307	0.69	1454204	0.08	10000	
W	182	165	1	He	103.784	103.784	1.74	1058473	0.01	2500	
Tl	205	209	1	He	273.802	273.802	0.23	5283524	0.01	5000	
Pb	208	209	1	He	1131.416	1131.416	0.26	28728374	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1375604	24.26	1803797	76.26	30	120	
Sc	45	1	He	493551	0.62	574766	85.87	30	120	
Sc	45	2	NoGas	3799131	27.11	4296857	88.42	30	120	
Rh	103	1	He	1268381	1.17	1652712	76.75	30	120	
In	115	1	He	675914	0.08	852389	79.30	30	120	
Tb	159	1	He	2206064	1.68	2425956	90.94	30	120	
Ho	165	1	He	2286624	1.14	2452680	93.23	30	120	
Bi	209	1	He	1401757	0.49	1810473	77.42	30	120	

Sample Report

Sample Table

Sample Name	240-49304-k-1-e msd
Data File Name	092SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:21:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1075.869	1075.869	1.22	4908918	0.02	10000	
B	11	45	2	NoGas	380.785	380.785	1.21	1216277	0.03	300	>LDR
Na	23	45	1	He	633116.685	633116.685	1.53	835362189	0.08	500000	>LDR
Mg	24	45	1	He	221534.127	221534.127	0.42	165759497	0.13	500000	
Al	27	45	1	He	9844.535	9844.535	0.93	3830947	0.26	200000	
K	39	45	1	He	53086.337	53086.337	1.64	31233084	0.17	500000	
Ca	44	45	1	He	198591.652	198591.652	1.54	6218488	3.19	500000	
Ti	47	45	1	He	104.037	104.037	2.58	19399	0.54	2500	
V	51	45	1	He	1087.355	1087.355	1.78	5179448	0.02	10000	
Cr	52	45	1	He	1034.235	1034.235	0.62	6046144	0.02	10000	
Mn	55	45	1	He	4112.044	4112.044	0.43	17000388	0.02	10000	
Fe	56	45	1	He	156436.691	156436.691	0.60	837192322	0.02	200000	
Co	59	103	1	He	1052.164	1052.164	0.89	8706862	0.01	10000	
Ni	60	103	1	He	1067.103	1067.103	0.29	2245698	0.05	10000	
Cu	63	103	1	He	1006.760	1006.760	0.99	5652531	0.02	10000	
Zn	66	103	1	He	988.586	988.586	0.45	1128932	0.09	10000	
As	75	103	1	He	1049.158	1049.158	0.65	758094	0.14	10000	
Se	78	103	1	He	1055.290	1055.290	0.85	63135	1.67	10000	
Sr	88	103	1	He	2737.543	2737.543	0.60	11769325	0.02	10000	
Mo	95	103	1	He	121.140	121.140	0.41	281159	0.04	2000	
Ag	107	103	1	He	103.009	103.009	0.18	826219	0.01	300	
Cd	111	103	1	He	1017.413	1017.413	0.36	1363603	0.07	4000	
Sn	118	115	1	He	1166.376	1166.376	1.09	3509589	0.03	2000	
Sb	123	115	1	He	110.829	110.829	0.85	354205	0.03	300	
Ba	137	115	1	He	1176.356	1176.356	3.76	1483525	0.08	10000	
W	182	165	1	He	101.301	101.301	1.98	1052169	0.01	2500	
Tl	205	209	1	He	272.985	272.985	0.46	5323433	0.01	5000	
Pb	208	209	1	He	1111.601	1111.601	0.63	28522916	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1457769	2.03	1803797	80.82	30	120	
Sc	45	1	He	493226	1.48	574766	85.81	30	120	
Sc	45	2	NoGas	3911575	0.74	4296857	91.03	30	120	
Rh	103	1	He	1296923	0.64	1652712	78.47	30	120	
In	115	1	He	687224	0.68	852389	80.62	30	120	
Tb	159	1	He	2258071	0.39	2425956	93.08	30	120	
Ho	165	1	He	2328520	0.66	2452680	94.94	30	120	
Bi	209	1	He	1416549	0.45	1810473	78.24	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	093_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:25:25-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.530	3.533	245286	3.36	50	91.1	89.5	110.5	
B	11	45	2	NoGas	56.469	2.413	211302	1.65	50	112.9	89.5	110.5	CCV Failed
Na	23	45	1	He	26029.536	2.208	39796436	0.51	25000	104.1	89.5	110.5	
Mg	24	45	1	He	25864.384	1.421	22405567	0.51	25000	103.5	89.5	110.5	
Al	27	45	1	He	245.948	1.497	111541	0.53	250	98.4	89.5	110.5	
K	39	45	1	He	26503.099	2.409	18085664	0.53	25000	106.0	89.5	110.5	
Ca	44	45	1	He	24989.882	2.203	906412	0.31	25000	100.0	89.5	110.5	
Ti	47	45	1	He	50.933	1.726	10996	1.12	50	101.9	89.5	110.5	
V	51	45	1	He	51.374	0.383	283643	1.75	50	102.7	89.5	110.5	
Cr	52	45	1	He	51.700	1.937	352755	0.25	50	103.4	89.5	110.5	
Mn	55	45	1	He	254.987	2.091	1220580	0.40	250	102.0	89.5	110.5	
Fe	56	45	1	He	13140.785	2.264	81419681	0.38	12500	105.1	89.5	110.5	
Co	59	103	1	He	47.247	1.300	499461	0.36	50	94.5	89.5	110.5	
Ni	60	103	1	He	47.427	1.405	127581	0.96	50	94.9	89.5	110.5	
Cu	63	103	1	He	47.545	1.041	343345	0.69	50	95.1	89.5	110.5	
Zn	66	103	1	He	47.826	1.167	70570	0.21	50	95.7	89.5	110.5	
As	75	103	1	He	47.739	1.170	44249	0.22	50	95.5	89.5	110.5	
Se	78	103	1	He	47.273	3.055	3641	2.11	50	94.5	89.5	110.5	
Sr	88	103	1	He	48.460	2.280	266234	1.32	50	96.9	89.5	110.5	
Mo	95	103	1	He	50.470	0.888	150045	1.77	50	100.9	89.5	110.5	
Ag	107	103	1	He	49.046	1.456	502497	0.67	50	98.1	89.5	110.5	
Cd	111	103	1	He	49.413	1.549	85401	0.59	50	98.8	89.5	110.5	
Sn	118	115	1	He	51.757	0.719	192138	0.82	50	103.5	89.5	110.5	
Sb	123	115	1	He	53.001	0.967	208552	0.63	50	106.0	89.5	110.5	
Ba	137	115	1	He	52.384	0.410	81173	0.47	50	104.8	89.5	110.5	
W	182	165	1	He	48.176	1.455	564832	1.53	50	96.4	89.5	110.5	
Tl	205	209	1	He	47.207	0.538	1220525	0.75	50	94.4	89.5	110.5	
Pb	208	209	1	He	48.563	0.196	1652558	0.41	50	97.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1721021	0.27	1803797	95.41	30	120	
Sc	45	1	He	571138	1.94	574766	99.37	30	120	
Sc	45	2	NoGas	4470459	1.18	4296857	104.04	30	120	
Rh	103	1	He	1656699	0.95	1652712	100.24	30	120	
In	115	1	He	844207	0.33	852389	99.04	30	120	
Tb	159	1	He	2536496	1.25	2425956	104.56	30	120	
Ho	165	1	He	2621254	0.83	2452680	106.87	30	120	
Bi	209	1	He	1877586	0.49	1810473	103.71	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	094_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:29:15-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.181	7.7	1007	7.2	1	
B	11	45	2	NoGas	7.616	2.2	34244	2.6	20	
Na	23	45	1	He	98.434	3.5	181680	2.1	400	
Mg	24	45	1	He	8.303	5.6	8024	4.8	1000	
Al	27	45	1	He	7.965	3.9	4285	2.4	50	
K	39	45	1	He	11.219	10.6	71218	1.3	1000	
Ca	44	45	1	He	11.430	17.9	975	8.3	1000	
Ti	47	45	1	He	0.395	33.9	86	34.0	20	
V	51	45	1	He	0.106	46.1	839	32.6	2	
Cr	52	45	1	He	0.059	19.6	3350	1.7	2	
Mn	55	45	1	He	0.266	11.3	1425	10.0	2	
Fe	56	45	1	He	21.531	19.0	137835	17.3	50	
Co	59	103	1	He	0.037	16.1	471	12.5	1	
Ni	60	103	1	He	0.012	71.2	136	15.8	2	
Cu	63	103	1	He	0.125	16.0	3625	4.6	2	
Zn	66	103	1	He	0.527	11.0	1728	3.3	20	
As	75	103	1	He	0.148	10.4	357	2.6	2	
Se	78	103	1	He	0.316	30.4	58	11.7	2	
Sr	88	103	1	He	0.144	26.1	993	21.1	10	
Mo	95	103	1	He	0.708	26.4	2979	18.4	2	
Ag	107	103	1	He	0.009	11.6	129	10.5	0.2	
Cd	111	103	1	He	0.154	12.8	1193	2.7	0.2	
Sn	118	115	1	He	0.548	8.9	3030	6.5	10	
Sb	123	115	1	He	0.271	12.6	2052	7.2	1	
Ba	137	115	1	He	0.094	25.0	167	22.5	5	
W	182	165	1	He	1.158	12.5	16461	10.9	10	
Tl	205	209	1	He	0.111	9.2	3377	6.5	0.5	
Pb	208	209	1	He	0.070	4.9	3408	5.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1768760	0.82	1803797	98.06	30	120	
Sc	45	1	He	564925	0.80	574766	98.29	30	120	
Sc	45	2	NoGas	4533584	0.80	4296857	105.51	30	120	
Rh	103	1	He	1770958	1.95	1652712	107.15	30	120	
In	115	1	He	887359	0.44	852389	104.10	30	120	
Tb	159	1	He	2558878	0.95	2425956	105.48	30	120	
Ho	165	1	He	2633307	0.63	2452680	107.36	30	120	
Bi	209	1	He	1940025	1.73	1810473	107.16	30	120	

Sample Report

Sample Table

Sample Name	240-49304-m-1-a
Data File Name	095SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:33:06-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.273	0.273	13.82	1289	0.02	10000	
B	11	45	2	NoGas	241.104	241.104	0.94	794309	0.03	300	
Na	23	45	1	He	474436.326	474436.326	2.17	650409396	0.07	500000	
Mg	24	45	1	He	174793.854	174793.854	2.07	135862717	0.13	500000	
Al	27	45	1	He	25.243	25.243	2.26	10876	0.23	200000	
K	39	45	1	He	34340.539	34340.539	1.72	21013595	0.16	500000	
Ca	44	45	1	He	180992.788	180992.788	0.93	5888822	3.07	500000	
Ti	47	45	1	He	1.118	1.118	8.21	218	0.51	2500	
V	51	45	1	He	1.644	1.644	6.34	8374	0.02	10000	
Cr	52	45	1	He	2.862	2.862	2.84	20058	0.01	10000	
Mn	55	45	1	He	3265.258	3265.258	2.22	14024079	0.02	10000	
Fe	56	45	1	He	158781.083	158781.083	1.74	882885618	0.02	200000	
Co	59	103	1	He	71.668	71.668	0.62	612041	0.01	10000	
Ni	60	103	1	He	51.564	51.564	1.10	112051	0.05	10000	
Cu	63	103	1	He	1.906	1.906	3.99	13056	0.01	10000	
Zn	66	103	1	He	79.177	79.177	0.07	93932	0.08	10000	
As	75	103	1	He	2.328	2.328	1.25	1895	0.12	10000	
Se	78	103	1	He	1.411	1.411	7.02	111	1.27	10000	
Sr	88	103	1	He	1388.025	1388.025	1.32	6157650	0.02	10000	
Mo	95	103	1	He	0.471	0.471	10.10	1688	0.03	2000	
Ag	107	103	1	He	0.007	0.007	38.24	83	0.01	300	
Cd	111	103	1	He	6.985	6.985	0.20	10344	0.07	4000	
Sn	118	115	1	He	1.753	1.753	14.91	6372	0.03	2000	
Sb	123	115	1	He	0.447	0.447	3.65	2295	0.02	300	
Ba	137	115	1	He	53.123	53.123	0.41	71482	0.07	10000	
W	182	165	1	He	0.434	0.434	8.91	7057	0.01	2500	
Tl	205	209	1	He	0.095	0.095	7.76	2285	0.00	5000	
Pb	208	209	1	He	0.121	0.121	3.41	4002	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1506893	1.43	1803797	83.54	30	120	
Sc	45	1	He	512513	1.82	574766	89.17	30	120	
Sc	45	2	NoGas	4024032	0.42	4296857	93.65	30	120	
Rh	103	1	He	1338293	0.16	1652712	80.98	30	120	
In	115	1	He	733083	0.40	852389	86.00	30	120	
Tb	159	1	He	2288538	0.50	2425956	94.34	30	120	
Ho	165	1	He	2333205	1.97	2452680	95.13	30	120	
Bi	209	1	He	1495730	0.08	1810473	82.62	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176683/1-a
Data File Name	096_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:36:58-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.126	24.6	641	24.0	1	
B	11	45	2	NoGas	11.698	4.3	45404	2.7	20	
Na	23	45	1	He	174.351	3.7	287023	4.1	400	
Mg	24	45	1	He	81.095	1.9	68160	2.5	1000	
Al	27	45	1	He	3.773	3.3	2340	2.1	50	
K	39	45	1	He	20.482	10.5	74977	2.3	1000	
Ca	44	45	1	He	315.555	0.3	11502	1.0	1000	
Ti	47	45	1	He	0.399	29.1	83	28.0	20	
V	51	45	1	He	0.210	27.5	1360	23.3	2	
Cr	52	45	1	He	1.041	1.7	9607	1.5	2	
Mn	55	45	1	He	0.546	10.6	2664	10.7	2	
Fe	56	45	1	He	40.872	20.5	248589	20.8	50	
Co	59	103	1	He	0.022	13.3	284	10.6	1	
Ni	60	103	1	He	0.129	24.9	441	19.7	2	
Cu	63	103	1	He	0.827	1.8	8408	1.2	2	
Zn	66	103	1	He	4.111	3.7	6830	3.6	20	
As	75	103	1	He	0.204	3.2	385	1.9	2	
Se	78	103	1	He	0.204	63.9	45	22.1	2	
Sr	88	103	1	He	0.640	4.6	3650	4.3	10	
Mo	95	103	1	He	-0.088	-28.3	437	17.1	2	
Ag	107	103	1	He	0.004	35.5	76	20.4	0.2	
Cd	111	103	1	He	0.125	5.9	1064	1.1	0.2	
Sn	118	115	1	He	0.673	11.0	3282	7.8	10	
Sb	123	115	1	He	0.233	9.6	1766	4.5	1	
Ba	137	115	1	He	1.530	5.9	2338	5.7	5	
W	182	165	1	He	0.192	10.7	4879	5.4	10	
Tl	205	209	1	He	0.041	11.0	1468	7.7	0.5	
Pb	208	209	1	He	0.147	3.6	5958	3.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612673	2.19	1803797	89.40	30	120	
Sc	45	1	He	546870	0.79	574766	95.15	30	120	
Sc	45	2	NoGas	4177769	1.10	4296857	97.23	30	120	
Rh	103	1	He	1653576	0.37	1652712	100.05	30	120	
In	115	1	He	828037	0.36	852389	97.14	30	120	
Tb	159	1	He	2463933	0.70	2425956	101.57	30	120	
Ho	165	1	He	2504941	0.91	2452680	102.13	30	120	
Bi	209	1	He	1884418	0.76	1810473	104.08	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176683/3-a
Data File Name	097_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:40:49-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	977.280	977.280	1.971	5057626	0.78	1000	97.7	79.5	120.5	
B	11	2	NoGas	114.073	114.073	0.455	393531	0.60	100	114.1	79.5	120.5	
Na	23	1	He	10047.843	10047.843	2.180	14734098	1.15	10000	100.5	79.5	120.5	
Mg	24	1	He	9912.448	9912.448	2.261	8224776	1.47	10000	99.1	79.5	120.5	
Al	27	1	He	9101.438	9101.438	3.571	3927483	2.84	10000	91.0	79.5	120.5	
K	39	1	He	9856.293	9856.293	3.787	6479745	1.91	10000	98.6	79.5	120.5	
Ca	44	1	He	9268.547	9268.547	0.891	322394	1.01	10000	92.7	79.5	120.5	
Ti	47	1	He	95.580	95.580	4.194	19756	2.60	100	95.6	79.5	120.5	
V	51	1	He	1002.075	1002.075	2.759	5293114	1.65	1000	100.2	79.5	120.5	
Cr	52	1	He	994.390	994.390	2.112	6446203	0.31	1000	99.4	79.5	120.5	
Mn	55	1	He	971.339	971.339	1.863	4453101	0.06	1000	97.1	79.5	120.5	
Fe	56	1	He	10011.131	10011.131	0.978	59422624	1.01	10000	100.1	79.5	120.5	
Co	59	1	He	911.375	911.375	1.082	9172009	0.72	1000	91.1	79.5	120.5	
Ni	60	1	He	956.370	956.370	1.956	2447429	0.47	1000	95.6	79.5	120.5	
Cu	63	1	He	932.614	932.614	2.206	6366952	0.64	1000	93.3	79.5	120.5	
Zn	66	1	He	907.237	907.237	1.416	1259944	0.24	1000	90.7	79.5	120.5	
As	75	1	He	884.465	884.465	1.742	777189	0.75	1000	88.4	79.5	120.5	
Se	78	1	He	886.757	886.757	0.711	64526	0.88	1000	88.7	79.5	120.5	
Sr	88	1	He	941.012	941.012	1.763	4919551	0.18	1000	94.1	79.5	120.5	
Mo	95	1	He	99.553	99.553	2.064	281094	1.44	100	99.6	79.5	120.5	
Ag	107	1	He	96.776	96.776	1.652	943922	0.33	100	96.8	79.5	120.5	
Cd	111	1	He	989.290	989.290	5.987	1611697	4.54	1000	98.9	79.5	120.5	
Sn	118	1	He	1082.917	1082.917	0.662	3689077	0.68	1000	108.3	79.5	120.5	
Sb	123	1	He	102.333	102.333	0.628	370337	0.97	100	102.3	79.5	120.5	
Ba	137	1	He	1000.571	1000.571	1.019	1428590	0.36	1000	100.1	79.5	120.5	
W	182	1	He	93.440	93.440	0.855	1040031	1.01	100	93.4	79.5	120.5	
Tl	205	1	He	231.013	231.013	1.034	5723723	0.92	250	92.4	79.5	120.5	
Pb	208	1	He	949.984	949.984	2.313	30966338	0.68	1000	95.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1653514	1.57	1803797	91.67	30	120	
Sc	45	1	He	547033	1.86	574766	95.17	30	120	
Sc	45	2	NoGas	4181677	0.42	4296857	97.32	30	120	
Rh	103	1	He	1577376	1.60	1652712	95.44	30	120	
In	115	1	He	778017	0.89	852389	91.27	30	120	
Tb	159	1	He	2437946	1.34	2425956	100.49	30	120	
Ho	165	1	He	2494559	0.44	2452680	101.71	30	120	
Bi	209	1	He	1800010	1.89	1810473	99.42	30	120	

Sample Report

Sample Table

Sample Name	240-49299-b-1-a
Data File Name	098SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:44:24-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.310	0.310	1.75	1685	0.02	10000	
B	11	45	2	NoGas	49.965	49.965	2.25	186669	0.03	300	
Na	23	45	1	He	34726.855	34726.855	2.16	52041916	0.07	500000	
Mg	24	45	1	He	161056.298	161056.298	1.91	136767209	0.12	500000	
Al	27	45	1	He	19.745	19.745	1.51	9450	0.21	200000	
K	39	45	1	He	1885.742	1885.742	3.35	1320153	0.14	500000	
Ca	44	45	1	He	243929.547	243929.547	0.79	8670041	2.81	500000	
Ti	47	45	1	He	0.940	0.940	12.27	200	0.47	2500	
V	51	45	1	He	-0.010	-0.010	-1064.43	198	-0.01	10000	
Cr	52	45	1	He	1.396	1.396	2.72	12186	0.01	10000	
Mn	55	45	1	He	6.440	6.440	0.81	30386	0.02	10000	
Fe	56	45	1	He	38.870	38.870	1.52	242086	0.02	200000	
Co	59	103	1	He	0.291	0.291	5.76	2806	0.01	10000	
Ni	60	103	1	He	3.385	3.385	1.68	8256	0.04	10000	
Cu	63	103	1	He	6.057	6.057	1.64	41237	0.01	10000	
Zn	66	103	1	He	11.707	11.707	3.49	16088	0.07	10000	
As	75	103	1	He	2.983	2.983	0.86	2649	0.11	10000	
Se	78	103	1	He	4.032	4.032	8.50	303	1.33	10000	
Sr	88	103	1	He	2046.287	2046.287	1.62	10091505	0.02	10000	
Mo	95	103	1	He	6.657	6.657	3.64	18314	0.04	2000	
Ag	107	103	1	He	0.013	0.013	24.03	148	0.01	300	
Cd	111	103	1	He	0.381	0.381	13.93	1350	0.03	4000	
Sn	118	115	1	He	2.621	2.621	22.34	9807	0.03	2000	
Sb	123	115	1	He	0.567	0.567	1.53	2895	0.02	300	
Ba	137	115	1	He	17.791	17.791	0.89	25673	0.07	10000	
W	182	165	1	He	1.197	1.197	12.67	15927	0.01	2500	
Tl	205	209	1	He	0.299	0.299	19.44	7287	0.00	5000	
Pb	208	209	1	He	0.280	0.280	6.20	9346	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1735434	1.90	1803797	96.21	30	120	
Sc	45	1	He	559855	0.93	574766	97.41	30	120	
Sc	45	2	NoGas	4446201	0.53	4296857	103.48	30	120	
Rh	103	1	He	1487865	1.39	1652712	90.03	30	120	
In	115	1	He	785940	0.74	852389	92.20	30	120	
Tb	159	1	He	2415730	1.01	2425956	99.58	30	120	
Ho	165	1	He	2483085	1.78	2452680	101.24	30	120	
Bi	209	1	He	1680070	1.34	1810473	92.80	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49299-b-1-a@5
Data File Name	099SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:48:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.129	0.129	18.93	763	0.02	10000	
B	11	45	2	NoGas	13.142	13.142	1.00	58381	0.02	300	
Na	23	45	1	He	7015.007	7015.007	2.45	11659568	0.06	500000	
Mg	24	45	1	He	32098.434	32098.434	2.29	30157373	0.11	500000	
Al	27	45	1	He	5.032	5.032	4.50	3266	0.15	200000	
K	39	45	1	He	363.234	363.234	4.15	337676	0.11	500000	
Ca	44	45	1	He	50852.549	50852.549	3.47	1999770	2.54	500000	
Ti	47	45	1	He	0.337	0.337	46.06	80	0.42	2500	
V	51	45	1	He	0.018	0.018	299.17	395	0.00	10000	
Cr	52	45	1	He	0.309	0.309	8.06	5509	0.01	10000	
Mn	55	45	1	He	1.424	1.424	3.65	7578	0.02	10000	
Fe	56	45	1	He	9.062	9.062	7.12	67501	0.01	200000	
Co	59	103	1	He	0.062	0.062	2.87	750	0.01	10000	
Ni	60	103	1	He	0.642	0.642	0.91	1916	0.03	10000	
Cu	63	103	1	He	1.053	1.053	2.86	10569	0.01	10000	
Zn	66	103	1	He	2.295	2.295	1.68	4414	0.05	10000	
As	75	103	1	He	0.454	0.454	8.17	648	0.07	10000	
Se	78	103	1	He	0.830	0.830	6.18	98	0.85	10000	
Sr	88	103	1	He	407.687	407.687	0.78	2355348	0.02	10000	
Mo	95	103	1	He	1.041	1.041	3.61	3974	0.03	2000	
Ag	107	103	1	He	0.003	0.003	109.87	64	0.00	300	
Cd	111	103	1	He	0.138	0.138	3.74	1145	0.01	4000	
Sn	118	115	1	He	0.249	0.249	29.11	1874	0.01	2000	
Sb	123	115	1	He	0.063	0.063	17.41	1198	0.01	300	
Ba	137	115	1	He	3.388	3.388	2.65	5542	0.06	10000	
W	182	165	1	He	0.170	0.170	6.91	5020	0.00	2500	
Tl	205	209	1	He	0.058	0.058	10.67	1953	0.00	5000	
Pb	208	209	1	He	0.072	0.072	3.77	3459	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1879999	0.60	1803797	104.22	30	120	
Sc	45	1	He	619489	1.74	574766	107.78	30	120	
Sc	45	2	NoGas	4846778	0.90	4296857	112.80	30	120	
Rh	103	1	He	1742824	1.10	1652712	105.45	30	120	
In	115	1	He	889185	0.62	852389	104.32	30	120	
Tb	159	1	He	2617283	1.44	2425956	107.89	30	120	
Ho	165	1	He	2708624	0.53	2452680	110.44	30	120	
Bi	209	1	He	1922467	1.45	1810473	106.19	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49299-b-1-a
Data File Name	100SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:52:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2079.618	2079.618	3.20	10544984	0.02	10000	
B	11	45	2	NoGas	283.806	283.806	0.52	969997	0.03	300	
Na	23	45	1	He	53677.200	53677.200	3.02	76902714	0.07	500000	
Mg	24	45	1	He	170889.408	170889.408	1.60	138789217	0.12	500000	
Al	27	45	1	He	19424.280	19424.280	2.56	8204269	0.24	200000	
K	39	45	1	He	22663.478	22663.478	2.32	14509355	0.16	500000	
Ca	44	45	1	He	253714.114	253714.114	3.21	8622127	2.94	500000	
Ti	47	45	1	He	207.775	207.775	3.06	42043	0.49	2500	
V	51	45	1	He	2111.670	2111.670	1.61	10919380	0.02	10000	
Cr	52	45	1	He	2108.845	2108.845	2.18	13378906	0.02	10000	
Mn	55	45	1	He	2075.353	2075.353	1.79	9313480	0.02	10000	
Fe	56	45	1	He	20795.684	20795.684	1.29	120817662	0.02	200000	
Co	59	103	1	He	2072.625	2072.625	0.45	18658985	0.01	10000	
Ni	60	103	1	He	2082.135	2082.135	1.53	4766801	0.04	10000	
Cu	63	103	1	He	2075.182	2075.182	1.18	12672186	0.02	10000	
Zn	66	103	1	He	2071.385	2071.385	0.67	2572511	0.08	10000	
As	75	103	1	He	2230.462	2230.462	1.03	1753108	0.13	10000	
Se	78	103	1	He	2075.620	2075.620	0.38	135069	1.54	10000	
Sr	88	103	1	He	4136.158	4136.158	0.64	19344324	0.02	10000	
Mo	95	103	1	He	244.152	244.152	0.30	615848	0.04	2000	
Ag	107	103	1	He	221.681	221.681	0.63	1934273	0.01	300	
Cd	111	103	1	He	2195.107	2195.107	1.11	3199720	0.07	4000	
Sn	118	115	1	He	2351.487	2351.487	0.14	7454191	0.03	2000	>LDR
Sb	123	115	1	He	227.662	227.662	0.38	765807	0.03	300	
Ba	137	115	1	He	2397.114	2397.114	0.95	3185269	0.08	10000	
W	182	165	1	He	218.381	218.381	0.85	2376888	0.01	2500	
Tl	205	209	1	He	542.637	542.637	0.90	11502659	0.00	5000	
Pb	208	209	1	He	2223.929	2223.929	0.47	62030009	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1620460	2.06	1803797	89.84	30	120	
Sc	45	1	He	535484	1.91	574766	93.17	30	120	
Sc	45	2	NoGas	4179097	0.89	4296857	97.26	30	120	
Rh	103	1	He	1410884	0.11	1652712	85.37	30	120	
In	115	1	He	724041	0.11	852389	84.94	30	120	
Tb	159	1	He	2384973	0.39	2425956	98.31	30	120	
Ho	165	1	He	2443225	1.48	2452680	99.61	30	120	
Bi	209	1	He	1539817	0.91	1810473	85.05	30	120	

Sample Report

Sample Table

Sample Name	240-49299-b-1-d ms
Data File Name	101SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:55:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1096.396	1096.396	2.13	5681633	0.02	10000	
B	11	45	2	NoGas	168.859	168.859	0.74	591610	0.03	300	
Na	23	45	1	He	44947.255	44947.255	1.47	64909955	0.07	500000	
Mg	24	45	1	He	168153.216	168153.216	1.09	137625406	0.12	500000	
Al	27	45	1	He	10290.431	10290.431	2.94	4380060	0.23	200000	
K	39	45	1	He	12879.944	12879.944	1.26	8336430	0.15	500000	
Ca	44	45	1	He	251991.135	251991.135	0.63	8631910	2.92	500000	
Ti	47	45	1	He	108.391	108.391	1.39	22107	0.49	2500	
V	51	45	1	He	1130.310	1130.310	0.91	5890256	0.02	10000	
Cr	52	45	1	He	1097.510	1097.510	2.16	7018067	0.02	10000	
Mn	55	45	1	He	1081.160	1081.160	2.54	4889333	0.02	10000	
Fe	56	45	1	He	10979.896	10979.896	1.31	64283995	0.02	200000	
Co	59	103	1	He	1069.546	1069.546	0.38	9779412	0.01	10000	
Ni	60	103	1	He	1081.521	1081.521	0.91	2514814	0.04	10000	
Cu	63	103	1	He	1054.476	1054.476	0.82	6541055	0.02	10000	
Zn	66	103	1	He	1014.478	1014.478	0.22	1280000	0.08	10000	
As	75	103	1	He	1086.777	1086.777	0.17	867641	0.13	10000	
Se	78	103	1	He	1081.847	1081.847	0.71	71514	1.51	10000	
Sr	88	103	1	He	3170.790	3170.790	0.71	15061534	0.02	10000	
Mo	95	103	1	He	130.539	130.539	0.87	334702	0.04	2000	
Ag	107	103	1	He	108.606	108.606	1.05	962470	0.01	300	
Cd	111	103	1	He	1129.433	1129.433	1.38	1672422	0.07	4000	
Sn	118	115	1	He	1206.158	1206.158	0.41	3929646	0.03	2000	
Sb	123	115	1	He	115.811	115.811	1.23	400718	0.03	300	
Ba	137	115	1	He	1244.474	1244.474	1.71	1699397	0.07	10000	
W	182	165	1	He	108.035	108.035	0.78	1174028	0.01	2500	
Tl	205	209	1	He	269.010	269.010	3.22	6001421	0.00	5000	
Pb	208	209	1	He	1097.682	1097.682	3.83	32216871	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1655761	1.87	1803797	91.79	30	120	
Sc	45	1	He	539565	1.11	574766	93.88	30	120	
Sc	45	2	NoGas	4266978	0.70	4296857	99.30	30	120	
Rh	103	1	He	1432971	0.35	1652712	86.70	30	120	
In	115	1	He	744072	0.45	852389	87.29	30	120	
Tb	159	1	He	2370115	1.24	2425956	97.70	30	120	
Ho	165	1	He	2436391	0.60	2452680	99.34	30	120	
Bi	209	1	He	1621902	3.98	1810473	89.58	30	120	

Sample Report

Sample Table

Sample Name	240-49299-b-1-e msd
Data File Name	102SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T16:59:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1066.218	1066.218	1.52	5596908	0.02	10000	
B	11	45	2	NoGas	161.770	161.770	1.78	587899	0.03	300	
Na	23	45	1	He	43666.438	43666.438	0.58	63888007	0.07	500000	
Mg	24	45	1	He	162913.892	162913.892	1.62	135074691	0.12	500000	
Al	27	45	1	He	10102.469	10102.469	1.02	4356883	0.23	200000	
K	39	45	1	He	12551.035	12551.035	1.39	8231171	0.15	500000	
Ca	44	45	1	He	247679.675	247679.675	0.39	8595380	2.88	500000	
Ti	47	45	1	He	106.033	106.033	1.18	21910	0.48	2500	
V	51	45	1	He	1111.116	1111.116	0.40	5865968	0.02	10000	
Cr	52	45	1	He	1058.224	1058.224	0.31	6856169	0.02	10000	
Mn	55	45	1	He	1056.409	1056.409	0.97	4840311	0.02	10000	
Fe	56	45	1	He	10576.379	10576.379	0.70	62732475	0.02	200000	
Co	59	103	1	He	1013.490	1013.490	3.87	9534070	0.01	10000	
Ni	60	103	1	He	1033.056	1033.056	4.38	2471028	0.04	10000	
Cu	63	103	1	He	1008.090	1008.090	2.72	6435031	0.02	10000	
Zn	66	103	1	He	966.444	966.444	3.47	1254635	0.08	10000	
As	75	103	1	He	1041.167	1041.167	2.99	855323	0.12	10000	
Se	78	103	1	He	1037.704	1037.704	3.61	70575	1.47	10000	
Sr	88	103	1	He	3067.206	3067.206	3.83	14989001	0.02	10000	
Mo	95	103	1	He	123.539	123.539	2.65	325995	0.04	2000	
Ag	107	103	1	He	103.386	103.386	3.00	942793	0.01	300	
Cd	111	103	1	He	1069.211	1069.211	4.24	1628779	0.07	4000	
Sn	118	115	1	He	1178.907	1178.907	1.00	3901274	0.03	2000	
Sb	123	115	1	He	112.596	112.596	1.68	395760	0.03	300	
Ba	137	115	1	He	1204.943	1204.943	1.33	1671353	0.07	10000	
W	182	165	1	He	102.816	102.816	1.02	1124901	0.01	2500	
Tl	205	209	1	He	271.134	271.134	0.87	5813507	0.00	5000	
Pb	208	209	1	He	1117.270	1117.270	0.75	31521802	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1677050	1.44	1803797	92.97	30	120	
Sc	45	1	He	546600	0.84	574766	95.10	30	120	
Sc	45	2	NoGas	4424644	1.61	4296857	102.97	30	120	
Rh	103	1	He	1475431	3.23	1652712	89.27	30	120	
In	115	1	He	755785	0.32	852389	88.67	30	120	
Tb	159	1	He	2378442	1.17	2425956	98.04	30	120	
Ho	165	1	He	2452813	0.90	2452680	100.01	30	120	
Bi	209	1	He	1557511	0.26	1810473	86.03	30	120	

Sample Report

Sample Table

Sample Name	190-7047-d-1-a
Data File Name	103SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:02:39-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.474	0.474	8.50	2452	0.02	10000	
B	11	45	2	NoGas	57391.495	57391.495	0.25	209281866	0.03	300	>LDR
Na	23	45	1	He	545121.262	545121.262	1.90	809792086	0.07	500000	>LDR
Mg	24	45	1	He	40397.433	40397.433	1.60	34026821	0.12	500000	
Al	27	45	1	He	980.820	980.820	1.30	430375	0.23	200000	
K	39	45	1	He	30888.457	30888.457	0.51	20491838	0.15	500000	
Ca	44	45	1	He	104133.073	104133.073	1.71	3671272	2.84	500000	
Ti	47	45	1	He	1.185	1.185	4.73	250	0.47	2500	
V	51	45	1	He	2.895	2.895	3.07	15776	0.02	10000	
Cr	52	45	1	He	1.946	1.946	0.75	15709	0.01	10000	
Mn	55	45	1	He	453.439	453.439	0.17	2110862	0.02	10000	
Fe	56	45	1	He	628.025	628.025	0.46	3790076	0.02	200000	
Co	59	103	1	He	3.114	3.114	2.86	28544	0.01	10000	
Ni	60	103	1	He	12.643	12.643	1.34	29505	0.04	10000	
Cu	63	103	1	He	9.561	9.561	2.38	61506	0.02	10000	
Zn	66	103	1	He	230.600	230.600	0.68	291783	0.08	10000	
As	75	103	1	He	3.986	3.986	2.68	3356	0.12	10000	
Se	78	103	1	He	1.937	1.937	7.09	154	1.26	10000	
Sr	88	103	1	He	474.241	474.241	0.93	2254910	0.02	10000	
Mo	95	103	1	He	210.104	210.104	0.85	538814	0.04	2000	
Ag	107	103	1	He	0.013	0.013	18.89	141	0.01	300	
Cd	111	103	1	He	0.512	0.512	6.15	1496	0.03	4000	
Sn	118	115	1	He	4.755	4.755	14.03	17098	0.03	2000	
Sb	123	115	1	He	17.230	17.230	1.79	63462	0.03	300	
Ba	137	115	1	He	26.848	26.848	2.22	38604	0.07	10000	
W	182	165	1	He	11.208	11.208	1.15	125668	0.01	2500	
Tl	205	209	1	He	0.357	0.357	23.36	8003	0.00	5000	
Pb	208	209	1	He	8.757	8.757	0.66	248253	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1649483	1.37	1803797	91.45	30	120	
Sc	45	1	He	555331	1.52	574766	96.62	30	120	
Sc	45	2	NoGas	4484840	0.31	4296857	104.37	30	120	
Rh	103	1	He	1434259	0.53	1652712	86.78	30	120	
In	115	1	He	783249	0.22	852389	91.89	30	120	
Tb	159	1	He	2386941	1.37	2425956	98.39	30	120	
Ho	165	1	He	2465536	1.14	2452680	100.52	30	120	
Bi	209	1	He	1560191	0.63	1810473	86.18	30	120	

Sample Report

Sample Table

Sample Name	190-7048-d-1-a
Data File Name	104SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:06:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.266	0.266	4.77	1311	0.02	10000	
B	11	45	2	NoGas	836.118	836.118	2.01	2923019	0.03	300	>LDR
Na	23	45	1	He	232235.327	232235.327	0.88	337807313	0.07	500000	
Mg	24	45	1	He	8277.821	8277.821	0.64	6827469	0.12	500000	
Al	27	45	1	He	26.504	26.504	3.50	12073	0.22	200000	
K	39	45	1	He	145499.014	145499.014	2.42	94241700	0.15	500000	
Ca	44	45	1	He	14720.538	14720.538	1.73	508526	2.89	500000	
Ti	47	45	1	He	1.132	1.132	10.46	233	0.48	2500	
V	51	45	1	He	1.585	1.585	4.73	8566	0.02	10000	
Cr	52	45	1	He	1.581	1.581	8.25	13021	0.01	10000	
Mn	55	45	1	He	45.644	45.644	1.48	208139	0.02	10000	
Fe	56	45	1	He	144.632	144.632	1.68	858825	0.02	200000	
Co	59	103	1	He	0.235	0.235	6.29	2238	0.01	10000	
Ni	60	103	1	He	310.390	310.390	2.73	736919	0.04	10000	
Cu	63	103	1	He	2.871	2.871	2.19	20385	0.01	10000	
Zn	66	103	1	He	64.139	64.139	2.52	83329	0.08	10000	
As	75	103	1	He	1.904	1.904	4.03	1726	0.11	10000	
Se	78	103	1	He	0.601	0.601	10.75	67	0.90	10000	
Sr	88	103	1	He	72.316	72.316	2.74	350824	0.02	10000	
Mo	95	103	1	He	10.120	10.120	5.13	27051	0.04	2000	
Ag	107	103	1	He	0.006	0.006	33.94	84	0.01	300	
Cd	111	103	1	He	0.288	0.288	11.80	1187	0.02	4000	
Sn	118	115	1	He	2.474	2.474	11.52	9292	0.03	2000	
Sb	123	115	1	He	2.953	2.953	0.53	11577	0.03	300	
Ba	137	115	1	He	2.510	2.510	2.94	3625	0.07	10000	
W	182	165	1	He	0.874	0.874	4.86	12153	0.01	2500	
Tl	205	209	1	He	0.186	0.186	7.13	4512	0.00	5000	
Pb	208	209	1	He	0.880	0.880	3.28	26718	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1570825	0.89	1803797	87.08	30	120	
Sc	45	1	He	543686	1.88	574766	94.59	30	120	
Sc	45	2	NoGas	4291845	1.33	4296857	99.88	30	120	
Rh	103	1	He	1463727	2.81	1652712	88.57	30	120	
In	115	1	He	784450	1.08	852389	92.03	30	120	
Tb	159	1	He	2368945	0.98	2425956	97.65	30	120	
Ho	165	1	He	2439121	0.53	2452680	99.45	30	120	
Bi	209	1	He	1627596	1.87	1810473	89.90	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	105_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:10:23-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	45.977	1.740	246859	1.85	50	92.0	89.5	110.5	
B	11	45	2	NoGas	449.267	0.872	1696560	0.63	50	898.5	89.5	110.5	CCV Failed
Na	23	45	1	He	25168.663	1.804	40213285	1.36	25000	100.7	89.5	110.5	
Mg	24	45	1	He	25071.008	1.951	22692948	1.23	25000	100.3	89.5	110.5	
Al	27	45	1	He	246.819	2.214	116951	1.00	250	98.7	89.5	110.5	
K	39	45	1	He	26259.996	2.731	18723864	0.50	25000	105.0	89.5	110.5	
Ca	44	45	1	He	24916.251	2.409	944299	0.69	25000	99.7	89.5	110.5	
Ti	47	45	1	He	50.942	1.594	11494	2.75	50	101.9	89.5	110.5	
V	51	45	1	He	50.838	0.647	293318	2.59	50	101.7	89.5	110.5	
Cr	52	45	1	He	50.277	1.967	358545	1.15	50	100.6	89.5	110.5	
Mn	55	45	1	He	249.890	2.141	1249936	1.26	250	100.0	89.5	110.5	
Fe	56	45	1	He	12761.879	2.220	82625477	1.07	12500	102.1	89.5	110.5	
Co	59	103	1	He	47.503	0.265	506392	0.63	50	95.0	89.5	110.5	
Ni	60	103	1	He	47.253	0.839	128185	1.33	50	94.5	89.5	110.5	
Cu	63	103	1	He	47.614	0.991	346727	1.49	50	95.2	89.5	110.5	
Zn	66	103	1	He	47.726	1.420	71016	1.74	50	95.5	89.5	110.5	
As	75	103	1	He	49.219	0.874	45996	0.31	50	98.4	89.5	110.5	
Se	78	103	1	He	49.151	2.175	3816	1.60	50	98.3	89.5	110.5	
Sr	88	103	1	He	50.127	0.344	277721	0.87	50	100.3	89.5	110.5	
Mo	95	103	1	He	49.355	1.222	147955	0.73	50	98.7	89.5	110.5	
Ag	107	103	1	He	49.377	0.740	510137	0.68	50	98.8	89.5	110.5	
Cd	111	103	1	He	49.900	0.216	86961	0.58	50	99.8	89.5	110.5	
Sn	118	115	1	He	50.580	1.330	194091	0.57	50	101.2	89.5	110.5	
Sb	123	115	1	He	52.674	1.421	214231	0.73	50	105.3	89.5	110.5	
Ba	137	115	1	He	52.250	2.152	83680	1.43	50	104.5	89.5	110.5	
W	182	165	1	He	47.280	1.017	559504	1.28	50	94.6	89.5	110.5	
Tl	205	209	1	He	47.079	1.012	1221793	0.77	50	94.2	89.5	110.5	
Pb	208	209	1	He	48.574	0.503	1659224	1.10	50	97.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1715286	1.63	1803797	95.09	30	120	
Sc	45	1	He	596895	3.11	574766	103.85	30	120	
Sc	45	2	NoGas	4627468	0.87	4296857	107.69	30	120	
Rh	103	1	He	1670495	0.56	1652712	101.08	30	120	
In	115	1	He	872608	0.77	852389	102.37	30	120	
Tb	159	1	He	2551361	1.25	2425956	105.17	30	120	
Ho	165	1	He	2645392	0.49	2452680	107.86	30	120	
Bi	209	1	He	1884809	1.48	1810473	104.11	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	106_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:14:13-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.144	9.6	796	10.5	1	
B	11	45	2	NoGas	301.880	1.4	1171581	1.7	20	CCB Failed
Na	23	45	1	He	58.995	8.3	123023	5.4	400	
Mg	24	45	1	He	8.043	21.3	7861	18.6	1000	
Al	27	45	1	He	8.330	1.9	4483	0.3	50	
K	39	45	1	He	22.373	21.2	79317	3.0	1000	
Ca	44	45	1	He	11.350	10.4	980	4.8	1000	
Ti	47	45	1	He	0.470	69.7	102	68.7	20	
V	51	45	1	He	0.075	108.9	673	66.7	2	
Cr	52	45	1	He	0.040	35.1	3254	4.2	2	
Mn	55	45	1	He	0.242	22.6	1323	19.9	2	
Fe	56	45	1	He	16.569	33.2	108287	31.0	50	
Co	59	103	1	He	0.041	21.6	518	18.8	1	
Ni	60	103	1	He	0.022	18.5	163	7.1	2	
Cu	63	103	1	He	-0.054	-33.1	2219	6.1	2	
Zn	66	103	1	He	0.474	11.7	1622	5.3	20	
As	75	103	1	He	0.131	22.2	336	8.0	2	
Se	78	103	1	He	0.280	25.7	54	10.3	2	
Sr	88	103	1	He	0.158	29.9	1063	25.3	10	
Mo	95	103	1	He	0.675	21.8	2835	15.7	2	
Ag	107	103	1	He	0.008	35.3	126	26.2	0.2	
Cd	111	103	1	He	0.166	4.0	1196	0.6	0.2	
Sn	118	115	1	He	0.302	19.0	2100	10.6	10	
Sb	123	115	1	He	0.178	23.8	1686	10.3	1	
Ba	137	115	1	He	0.069	35.3	128	31.1	5	
W	182	165	1	He	1.124	14.1	15823	12.0	10	
Tl	205	209	1	He	0.082	12.4	2617	10.6	0.5	
Pb	208	209	1	He	0.058	9.8	2978	7.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1751754	1.64	1803797	97.11	30	120	
Sc	45	1	He	569378	1.30	574766	99.06	30	120	
Sc	45	2	NoGas	4747127	1.43	4296857	110.48	30	120	
Rh	103	1	He	1744534	0.47	1652712	105.56	30	120	
In	115	1	He	898155	0.34	852389	105.37	30	120	
Tb	159	1	He	2570920	1.27	2425956	105.98	30	120	
Ho	165	1	He	2594199	0.44	2452680	105.77	30	120	
Bi	209	1	He	1942969	0.57	1810473	107.32	30	120	

Sample Report

Sample Table

Sample Name	240-49336-d-1-a
Data File Name	107SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:18:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.169	0.169	7.32	878	0.02	10000	
B	11	45	2	NoGas	513.857	513.857	0.08	1840043	0.03	300	>LDR
Na	23	45	1	He	45657.033	45657.033	3.32	67760499	0.07	500000	
Mg	24	45	1	He	21905.416	21905.416	2.71	18428058	0.12	500000	
Al	27	45	1	He	165.230	165.230	2.23	73014	0.23	200000	
K	39	45	1	He	7750.139	7750.139	3.71	5179671	0.15	500000	
Ca	44	45	1	He	64097.077	64097.077	2.62	2257220	2.84	500000	
Ti	47	45	1	He	3.806	3.806	9.02	798	0.48	2500	
V	51	45	1	He	0.713	0.713	45.07	4047	0.02	10000	
Cr	52	45	1	He	1.457	1.457	7.01	12469	0.01	10000	
Mn	55	45	1	He	46.021	46.021	3.75	214030	0.02	10000	
Fe	56	45	1	He	579.542	579.542	2.85	3492911	0.02	200000	
Co	59	103	1	He	0.240	0.240	4.01	2358	0.01	10000	
Ni	60	103	1	He	1.344	1.344	6.58	3373	0.04	10000	
Cu	63	103	1	He	1.806	1.806	2.60	14041	0.01	10000	
Zn	66	103	1	He	10.509	10.509	1.90	14707	0.07	10000	
As	75	103	1	He	2.695	2.695	3.93	2440	0.11	10000	
Se	78	103	1	He	0.535	0.535	24.60	64	0.83	10000	
Sr	88	103	1	He	382.057	382.057	4.32	1907252	0.02	10000	
Mo	95	103	1	He	1.167	1.167	4.23	3774	0.03	2000	
Ag	107	103	1	He	0.008	0.008	29.17	108	0.01	300	
Cd	111	103	1	He	0.230	0.230	7.74	1132	0.02	4000	
Sn	118	115	1	He	1.022	1.022	7.90	4404	0.02	2000	
Sb	123	115	1	He	0.336	0.336	8.63	2097	0.02	300	
Ba	137	115	1	He	95.609	95.609	0.31	140717	0.07	10000	
W	182	165	1	He	0.406	0.406	15.29	7146	0.01	2500	
Tl	205	209	1	He	0.079	0.079	4.14	2271	0.00	5000	
Pb	208	209	1	He	0.401	0.401	4.45	13528	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1649480	1.63	1803797	91.44	30	120	
Sc	45	1	He	554851	3.23	574766	96.54	30	120	
Sc	45	2	NoGas	4389861	1.47	4296857	102.16	30	120	
Rh	103	1	He	1507029	3.08	1652712	91.19	30	120	
In	115	1	He	801904	0.47	852389	94.08	30	120	
Tb	159	1	He	2409153	1.49	2425956	99.31	30	120	
Ho	165	1	He	2465198	1.64	2452680	100.51	30	120	
Bi	209	1	He	1744869	1.90	1810473	96.38	30	120	

Sample Report

Sample Table

Sample Name	HIGH STD
Data File Name	108SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:21:54-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2220.142	2220.142	1.76	11078639	0.02	10000	
B	11	45	2	NoGas	417.929	417.929	1.72	1477963	0.03	300	>LDR
Na	23	45	1	He	20593.751	20593.751	2.34	30802055	0.07	500000	
Mg	24	45	1	He	20642.304	20642.304	3.64	17482778	0.12	500000	
Al	27	45	1	He	19827.816	19827.816	3.39	8734202	0.23	200000	
K	39	45	1	He	21146.186	21146.186	3.91	14121533	0.15	500000	
Ca	44	45	1	He	19056.439	19056.439	3.51	675987	2.82	500000	
Ti	47	45	1	He	202.463	202.463	3.38	42737	0.47	2500	
V	51	45	1	He	2071.583	2071.583	2.25	11174091	0.02	10000	
Cr	52	45	1	He	2053.917	2053.917	2.83	13591618	0.02	10000	
Mn	55	45	1	He	2078.128	2078.128	3.32	9725868	0.02	10000	
Fe	56	45	1	He	20990.355	20990.355	2.53	127194133	0.02	200000	
Co	59	103	1	He	1971.095	1971.095	1.34	19476386	0.01	10000	
Ni	60	103	1	He	1973.336	1973.336	0.85	4958742	0.04	10000	
Cu	63	103	1	He	1956.187	1956.187	1.99	13110661	0.01	10000	
Zn	66	103	1	He	2039.397	2039.397	2.08	2779717	0.07	10000	
As	75	103	1	He	2111.886	2111.886	1.72	1821909	0.12	10000	
Se	78	103	1	He	1974.979	1974.979	1.30	141060	1.40	10000	
Sr	88	103	1	He	2130.844	2130.844	1.38	10938296	0.02	10000	
Mo	95	103	1	He	203.221	203.221	3.32	562674	0.04	2000	
Ag	107	103	1	He	213.211	213.211	1.00	2042004	0.01	300	
Cd	111	103	1	He	2163.403	2163.403	1.24	3461301	0.06	4000	
Sn	118	115	1	He	2329.288	2329.288	0.49	7940822	0.03	2000	>LDR
Sb	123	115	1	He	232.771	232.771	0.25	842038	0.03	300	
Ba	137	115	1	He	2416.867	2416.867	0.64	3453752	0.07	10000	
W	182	165	1	He	209.629	209.629	0.90	2369712	0.01	2500	
Tl	205	209	1	He	495.457	495.457	0.97	12397051	0.00	5000	
Pb	208	209	1	He	2050.697	2050.697	1.08	67517706	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1594450	2.16	1803797	88.39	30	120	
Sc	45	1	He	558755	3.49	574766	97.21	30	120	
Sc	45	2	NoGas	4332447	0.71	4296857	100.83	30	120	
Rh	103	1	He	1548718	1.39	1652712	93.71	30	120	
In	115	1	He	778660	0.29	852389	91.35	30	120	
Tb	159	1	He	2469878	1.03	2425956	101.81	30	120	
Ho	165	1	He	2537241	0.51	2452680	103.45	30	120	
Bi	209	1	He	1817701	0.68	1810473	100.40	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176157/1-a
Data File Name	109_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:25:20-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.405	8.6	2130	7.8	1	
B	11	45	2	NoGas	192.068	1.4	687355	0.5	20	Blank Failed
Na	23	45	1	He	51.376	1.3	106349	1.4	400	
Mg	24	45	1	He	4.225	3.8	4356	2.4	1000	
Al	27	45	1	He	4.209	4.4	2511	2.1	50	
K	39	45	1	He	32.429	7.1	82204	0.3	1000	
Ca	44	45	1	He	14.339	28.6	1038	13.9	1000	
Ti	47	45	1	He	0.476	40.4	99	40.5	20	
V	51	45	1	He	0.519	26.4	2970	24.1	2	
Cr	52	45	1	He	1.270	4.6	11017	2.1	2	
Mn	55	45	1	He	0.377	1.5	1873	1.4	2	
Fe	56	45	1	He	16.628	29.1	103843	27.9	50	
Co	59	103	1	He	0.388	6.2	4056	5.9	1	
Ni	60	103	1	He	0.309	0.7	902	1.1	2	
Cu	63	103	1	He	1.090	23.4	10044	17.2	2	
Zn	66	103	1	He	2.852	5.0	4882	3.8	20	
As	75	103	1	He	1.841	4.7	1849	3.7	2	
Se	78	103	1	He	1.614	17.4	149	13.7	2	
Sr	88	103	1	He	0.498	7.1	2807	6.3	10	
Mo	95	103	1	He	3.575	32.3	10984	29.8	2	Blank Failed
Ag	107	103	1	He	0.016	28.2	196	23.2	0.2	
Cd	111	103	1	He	0.605	20.1	1840	10.5	0.2	Blank Failed
Sn	118	115	1	He	17.082	27.3	62536	26.3	10	Blank Failed
Sb	123	115	1	He	0.616	5.6	3230	3.6	1	
Ba	137	115	1	He	0.577	28.8	887	27.8	5	
W	182	165	1	He	3.786	30.0	44484	26.9	10	
Tl	205	209	1	He	0.471	27.2	12652	25.9	0.5	
Pb	208	209	1	He	0.408	25.8	14876	23.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1678893	0.94	1803797	93.08	30	120	
Sc	45	1	He	543321	1.45	574766	94.53	30	120	
Sc	45	2	NoGas	4363868	0.92	4296857	101.56	30	120	
Rh	103	1	He	1615230	0.51	1652712	97.73	30	120	
In	115	1	He	825817	0.53	852389	96.88	30	120	
Tb	159	1	He	2406986	1.63	2425956	99.22	30	120	
Ho	165	1	He	2485252	1.57	2452680	101.33	30	120	
Bi	209	1	He	1888304	1.51	1810473	104.30	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176157/2-a
Data File Name	110_LCS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:29:12-04:00
Sample Type	LCSW
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1098.732	1098.732	0.998	5461126	0.41	1000	109.9	79.5	120.5	
B	11	2	NoGas	288.796	288.796	1.898	1004893	0.74	100	288.8	79.5	120.5	LCS Failed
Na	23	1	He	10742.126	10742.126	1.488	15503534	1.22	10000	107.4	79.5	120.5	
Mg	24	1	He	10635.175	10635.175	2.019	8685308	0.62	10000	106.4	79.5	120.5	
Al	27	1	He	9930.616	9930.616	0.796	4218934	2.06	10000	99.3	79.5	120.5	
K	39	1	He	10862.340	10862.340	2.816	7023356	0.80	10000	108.6	79.5	120.5	
Ca	44	1	He	9679.676	9679.676	2.400	331307	0.22	10000	96.8	79.5	120.5	
Ti	47	1	He	103.144	103.144	2.415	20991	2.12	100	103.1	79.5	120.5	
V	51	1	He	1081.739	1081.739	3.007	5623273	0.61	1000	108.2	79.5	120.5	
Cr	52	1	He	1062.800	1062.800	2.960	6780105	0.35	1000	106.3	79.5	120.5	
Mn	55	1	He	1074.059	1074.059	1.531	4846904	1.09	1000	107.4	79.5	120.5	
Fe	56	1	He	10719.137	10719.137	2.144	62615155	0.81	10000	107.2	79.5	120.5	
Co	59	1	He	992.937	992.937	1.491	9747571	0.72	1000	99.3	79.5	120.5	
Ni	60	1	He	1017.755	1017.755	2.119	2540696	1.04	1000	101.8	79.5	120.5	
Cu	63	1	He	998.314	998.314	1.240	6648956	0.36	1000	99.8	79.5	120.5	
Zn	66	1	He	976.988	976.988	1.171	1323534	0.53	1000	97.7	79.5	120.5	
As	75	1	He	979.827	979.827	1.159	839896	0.32	1000	98.0	79.5	120.5	
Se	78	1	He	990.580	990.580	0.575	70310	0.66	1000	99.1	79.5	120.5	
Sr	88	1	He	1046.088	1046.088	0.959	5335231	0.36	1000	104.6	79.5	120.5	
Mo	95	1	He	110.528	110.528	1.314	304366	0.29	100	110.5	79.5	120.5	
Ag	107	1	He	104.360	104.360	1.094	993007	0.67	100	104.4	79.5	120.5	
Cd	111	1	He	1087.866	1087.866	2.228	1729524	1.53	1000	108.8	79.5	120.5	
Sn	118	1	He	1168.905	1168.905	0.275	3956441	0.46	1000	116.9	79.5	120.5	
Sb	123	1	He	111.634	111.634	0.342	401326	0.03	100	111.6	79.5	120.5	
Ba	137	1	He	1177.022	1177.022	0.250	1669809	0.43	1000	117.7	79.5	120.5	
W	182	1	He	100.875	100.875	2.268	1113342	1.44	100	100.9	79.5	120.5	
Tl	205	1	He	249.659	249.659	1.393	6136518	1.50	250	99.9	79.5	120.5	
Pb	208	1	He	1020.055	1020.055	1.408	32989638	0.86	1000	102.0	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1587831	0.59	1803797	88.03	30	120	
Sc	45	1	He	538488	2.64	574766	93.69	30	120	
Sc	45	2	NoGas	4255606	1.21	4296857	99.04	30	120	
Rh	103	1	He	1538661	1.23	1652712	93.10	30	120	
In	115	1	He	773014	0.32	852389	90.69	30	120	
Tb	159	1	He	2397388	0.60	2425956	98.82	30	120	
Ho	165	1	He	2474380	0.84	2452680	100.88	30	120	
Bi	209	1	He	1785487	0.61	1810473	98.62	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-a
Data File Name	111SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:32:47-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.272	0.272	7.01	1430	0.02	10000	
B	11	45	2	NoGas	284.911	284.911	0.79	1016825	0.03	300	
Na	23	45	1	He	46635.736	46635.736	2.32	67960712	0.07	500000	
Mg	24	45	1	He	32088.529	32088.529	1.68	26503938	0.12	500000	
Al	27	45	1	He	7.754	7.754	3.46	4042	0.19	200000	
K	39	45	1	He	3089.103	3089.103	2.59	2064211	0.15	500000	
Ca	44	45	1	He	19977.796	19977.796	1.30	691107	2.89	500000	
Ti	47	45	1	He	0.420	0.420	30.23	88	0.48	2500	
V	51	45	1	He	0.222	0.222	87.26	1424	0.02	10000	
Cr	52	45	1	He	1.338	1.338	5.20	11480	0.01	10000	
Mn	55	45	1	He	0.504	0.504	3.14	2461	0.02	10000	
Fe	56	45	1	He	29.907	29.907	1.73	182507	0.02	200000	
Co	59	103	1	He	0.295	0.295	20.36	2871	0.01	10000	
Ni	60	103	1	He	0.208	0.208	6.66	594	0.03	10000	
Cu	63	103	1	He	1.475	1.475	8.50	11879	0.01	10000	
Zn	66	103	1	He	3.871	3.871	3.11	5906	0.07	10000	
As	75	103	1	He	2.036	2.036	6.22	1887	0.11	10000	
Se	78	103	1	He	1.171	1.171	24.90	108	1.08	10000	
Sr	88	103	1	He	392.819	392.819	4.85	1960216	0.02	10000	
Mo	95	103	1	He	0.862	0.862	17.43	2948	0.03	2000	
Ag	107	103	1	He	0.010	0.010	70.22	124	0.01	300	
Cd	111	103	1	He	0.394	0.394	12.20	1388	0.03	4000	
Sn	118	115	1	He	3.161	3.161	16.75	11823	0.03	2000	
Sb	123	115	1	He	0.514	0.514	3.48	2739	0.02	300	
Ba	137	115	1	He	20.513	20.513	2.50	29989	0.07	10000	
W	182	165	1	He	1.306	1.306	16.49	17069	0.01	2500	
Tl	205	209	1	He	0.251	0.251	25.61	6514	0.00	5000	
Pb	208	209	1	He	0.197	0.197	16.20	7177	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1673645	0.48	1803797	92.78	30	120	
Sc	45	1	He	544552	1.47	574766	94.74	30	120	
Sc	45	2	NoGas	4364121	1.71	4296857	101.57	30	120	
Rh	103	1	He	1506919	3.36	1652712	91.18	30	120	
In	115	1	He	796326	0.66	852389	93.42	30	120	
Tb	159	1	He	2421015	1.30	2425956	99.80	30	120	
Ho	165	1	He	2472647	0.72	2452680	100.81	30	120	
Bi	209	1	He	1769341	0.46	1810473	97.73	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49236-d-3-a@5
Data File Name	112SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:36:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.175	0.175	6.39	963	0.02	10000	
B	11	45	2	NoGas	127.538	127.538	1.27	477310	0.03	300	
Na	23	45	1	He	9370.894	9370.894	2.40	14568840	0.06	500000	
Mg	24	45	1	He	6574.639	6574.639	3.43	5782118	0.11	500000	
Al	27	45	1	He	25.009	25.009	2.83	12194	0.21	200000	
K	39	45	1	He	601.695	601.695	3.46	480729	0.13	500000	
Ca	44	45	1	He	4051.648	4051.648	1.33	149729	2.71	500000	
Ti	47	45	1	He	0.197	0.197	28.74	44	0.44	2500	
V	51	45	1	He	0.131	0.131	67.38	1006	0.01	10000	
Cr	52	45	1	He	0.313	0.313	7.71	5184	0.01	10000	
Mn	55	45	1	He	0.397	0.397	3.92	2101	0.02	10000	
Fe	56	45	1	He	6.462	6.462	2.98	46789	0.01	200000	
Co	59	103	1	He	0.059	0.059	3.13	678	0.01	10000	
Ni	60	103	1	He	0.057	0.057	16.88	251	0.02	10000	
Cu	63	103	1	He	0.228	0.228	11.20	4138	0.01	10000	
Zn	66	103	1	He	1.551	1.551	11.09	3118	0.05	10000	
As	75	103	1	He	0.421	0.421	6.18	587	0.07	10000	
Se	78	103	1	He	0.350	0.350	21.67	57	0.62	10000	
Sr	88	103	1	He	72.266	72.266	0.52	398083	0.02	10000	
Mo	95	103	1	He	-0.009	-0.009	-478.63	673	0.00	2000	
Ag	107	103	1	He	0.002	0.002	72.51	54	0.00	300	
Cd	111	103	1	He	0.177	0.177	21.24	1157	0.02	4000	
Sn	118	115	1	He	0.515	0.515	6.90	2849	0.02	2000	
Sb	123	115	1	He	0.084	0.084	24.07	1257	0.01	300	
Ba	137	115	1	He	3.929	3.929	5.17	6296	0.06	10000	
W	182	165	1	He	0.318	0.318	9.26	6416	0.00	2500	
Tl	205	209	1	He	0.075	0.075	6.67	2389	0.00	5000	
Pb	208	209	1	He	0.067	0.067	5.65	3231	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1747707	0.38	1803797	96.89	30	120	
Sc	45	1	He	579969	2.38	574766	100.91	30	120	
Sc	45	2	NoGas	4543396	0.45	4296857	105.74	30	120	
Rh	103	1	He	1661241	0.87	1652712	100.52	30	120	
In	115	1	He	871276	0.46	852389	102.22	30	120	
Tb	159	1	He	2519071	0.61	2425956	103.84	30	120	
Ho	165	1	He	2558703	0.39	2452680	104.32	30	120	
Bi	209	1	He	1906119	0.76	1810473	105.28	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49236-d-3-a
Data File Name	113SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:40:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1117.225	1117.225	1.45	5445363	0.02	10000	
B	11	45	2	NoGas	367.964	367.964	0.49	1222712	0.03	300	>LDR
Na	23	45	1	He	57358.757	57358.757	2.03	79472414	0.07	500000	
Mg	24	45	1	He	42952.258	42952.258	1.52	33732221	0.13	500000	
Al	27	45	1	He	10454.709	10454.709	0.98	4270884	0.24	200000	
K	39	45	1	He	14156.988	14156.988	1.25	8786875	0.16	500000	
Ca	44	45	1	He	29811.020	29811.020	1.33	980301	3.04	500000	
Ti	47	45	1	He	105.874	105.874	1.41	20722	0.51	2500	
V	51	45	1	He	1120.888	1120.888	0.81	5605541	0.02	10000	
Cr	52	45	1	He	1102.820	1102.820	1.83	6767007	0.02	10000	
Mn	55	45	1	He	1097.287	1097.287	3.03	4761195	0.02	10000	
Fe	56	45	1	He	11030.197	11030.197	2.44	61961335	0.02	200000	
Co	59	103	1	He	1070.361	1070.361	0.43	9481711	0.01	10000	
Ni	60	103	1	He	1085.956	1085.956	0.61	2446380	0.04	10000	
Cu	63	103	1	He	1074.079	1074.079	2.80	6454048	0.02	10000	
Zn	66	103	1	He	1050.116	1050.116	1.49	1283522	0.08	10000	
As	75	103	1	He	1085.522	1085.522	0.98	839577	0.13	10000	
Se	78	103	1	He	1078.894	1078.894	1.27	69091	1.56	10000	
Sr	88	103	1	He	1540.170	1540.170	0.62	7088013	0.02	10000	
Mo	95	103	1	He	122.322	122.322	0.93	303881	0.04	2000	
Ag	107	103	1	He	111.938	111.938	1.33	961014	0.01	300	
Cd	111	103	1	He	1179.348	1179.348	2.54	1691813	0.07	4000	
Sn	118	115	1	He	1216.722	1216.722	0.89	3906951	0.03	2000	
Sb	123	115	1	He	115.816	115.816	0.28	394974	0.03	300	
Ba	137	115	1	He	1262.653	1262.653	0.99	1699374	0.07	10000	
W	182	165	1	He	105.588	105.588	1.84	1129440	0.01	2500	
Tl	205	209	1	He	270.590	270.590	4.45	6063143	0.00	5000	
Pb	208	209	1	He	1112.893	1112.893	4.38	32813595	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1557148	1.34	1803797	86.33	30	120	
Sc	45	1	He	517782	1.68	574766	90.09	30	120	
Sc	45	2	NoGas	4068413	1.19	4296857	94.68	30	120	
Rh	103	1	He	1388310	1.03	1652712	84.00	30	120	
In	115	1	He	733359	0.21	852389	86.04	30	120	
Tb	159	1	He	2333422	0.55	2425956	96.19	30	120	
Ho	165	1	He	2398377	1.03	2452680	97.79	30	120	
Bi	209	1	He	1629611	4.00	1810473	90.01	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-b du
Data File Name	114SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:44:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.303	0.303	18.98	1593	0.02	10000	
B	11	45	2	NoGas	211.289	211.289	1.81	744039	0.03	300	
Na	23	45	1	He	42934.049	42934.049	1.37	60947912	0.07	500000	
Mg	24	45	1	He	29538.562	29538.562	2.38	23761462	0.12	500000	
Al	27	45	1	He	5.609	5.609	7.86	3037	0.18	200000	
K	39	45	1	He	2787.543	2787.543	0.63	1820502	0.15	500000	
Ca	44	45	1	He	18151.201	18151.201	1.92	611605	2.97	500000	
Ti	47	45	1	He	0.383	0.383	9.79	78	0.49	2500	
V	51	45	1	He	0.301	0.301	21.30	1786	0.02	10000	
Cr	52	45	1	He	1.311	1.311	5.05	11010	0.01	10000	
Mn	55	45	1	He	0.579	0.579	8.65	2729	0.02	10000	
Fe	56	45	1	He	27.578	27.578	4.90	164353	0.02	200000	
Co	59	103	1	He	0.236	0.236	17.14	2244	0.01	10000	
Ni	60	103	1	He	0.207	0.207	15.01	574	0.04	10000	
Cu	63	103	1	He	1.217	1.217	8.90	9895	0.01	10000	
Zn	66	103	1	He	8.314	8.314	4.07	11444	0.07	10000	
As	75	103	1	He	1.638	1.638	5.87	1507	0.11	10000	
Se	78	103	1	He	0.982	0.982	17.29	92	1.06	10000	
Sr	88	103	1	He	365.406	365.406	2.40	1770495	0.02	10000	
Mo	95	103	1	He	0.628	0.628	23.67	2252	0.03	2000	
Ag	107	103	1	He	0.008	0.008	56.02	103	0.01	300	
Cd	111	103	1	He	0.347	0.347	24.05	1275	0.03	4000	
Sn	118	115	1	He	2.335	2.335	16.96	8847	0.03	2000	
Sb	123	115	1	He	0.405	0.405	14.16	2310	0.02	300	
Ba	137	115	1	He	18.288	18.288	1.88	26436	0.07	10000	
W	182	165	1	He	1.141	1.141	18.13	15052	0.01	2500	
Tl	205	209	1	He	0.227	0.227	24.41	5809	0.00	5000	
Pb	208	209	1	He	0.185	0.185	15.88	6686	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1679284	1.07	1803797	93.10	30	120	
Sc	45	1	He	530406	1.70	574766	92.28	30	120	
Sc	45	2	NoGas	4297488	1.59	4296857	100.01	30	120	
Rh	103	1	He	1462001	1.81	1652712	88.46	30	120	
In	115	1	He	787340	1.10	852389	92.37	30	120	
Tb	159	1	He	2362658	0.58	2425956	97.39	30	120	
Ho	165	1	He	2442586	2.08	2452680	99.59	30	120	
Bi	209	1	He	1738307	1.03	1810473	96.01	30	120	

Sample Report

Sample Table

Sample Name	240-49236-d-3-c ms
Data File Name	115SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:47:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	106.109	106.109	1.95	525835	0.02	10000	
B	11	45	2	NoGas	334.863	334.863	1.14	1126415	0.03	300	>LDR
Na	23	45	1	He	54834.012	54834.012	1.81	76987223	0.07	500000	
Mg	24	45	1	He	41077.815	41077.815	2.00	32687499	0.13	500000	
Al	27	45	1	He	9949.764	9949.764	1.35	4118498	0.24	200000	
K	39	45	1	He	13664.869	13664.869	1.82	8595967	0.16	500000	
Ca	44	45	1	He	28774.415	28774.415	1.80	958789	3.00	500000	
Ti	47	45	1	He	101.438	101.438	3.53	20111	0.50	2500	
V	51	45	1	He	104.324	104.324	1.67	528795	0.02	10000	
Cr	52	45	1	He	104.692	104.692	1.60	653447	0.02	10000	
Mn	55	45	1	He	102.953	102.953	1.59	452860	0.02	10000	
Fe	56	45	1	He	10664.153	10664.153	2.01	60706378	0.02	200000	
Co	59	103	1	He	102.412	102.412	1.01	919400	0.01	10000	
Ni	60	103	1	He	101.393	101.393	0.31	231552	0.04	10000	
Cu	63	103	1	He	102.726	102.726	0.25	627549	0.02	10000	
Zn	66	103	1	He	106.576	106.576	0.90	132668	0.08	10000	
As	75	103	1	He	108.521	108.521	0.83	85214	0.13	10000	
Se	78	103	1	He	106.750	106.750	0.94	6951	1.54	10000	
Sr	88	103	1	He	495.572	495.572	1.43	2311250	0.02	10000	
Mo	95	103	1	He	115.600	115.600	0.45	291076	0.04	2000	
Ag	107	103	1	He	109.609	109.609	0.56	953703	0.01	300	
Cd	111	103	1	He	109.439	109.439	1.71	159759	0.07	4000	
Sn	118	115	1	He	105.996	105.996	0.26	352915	0.03	2000	
Sb	123	115	1	He	108.895	108.895	0.70	384344	0.03	300	
Ba	137	115	1	He	129.515	129.515	1.09	180386	0.07	10000	
W	182	165	1	He	100.530	100.530	0.63	1081136	0.01	2500	
Tl	205	209	1	He	107.991	107.991	3.31	2442167	0.00	5000	
Pb	208	209	1	He	108.312	108.312	2.88	3223726	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1583166	1.07	1803797	87.77	30	120	
Sc	45	1	He	524691	2.00	574766	91.29	30	120	
Sc	45	2	NoGas	4116560	0.41	4296857	95.80	30	120	
Rh	103	1	He	1406916	0.42	1652712	85.13	30	120	
In	115	1	He	758895	0.64	852389	89.03	30	120	
Tb	159	1	He	2337521	0.16	2425956	96.35	30	120	
Ho	165	1	He	2410876	1.39	2452680	98.30	30	120	
Bi	209	1	He	1643649	2.97	1810473	90.79	30	120	

Sample Report

Sample Table

Sample Name	240-49236-a-4-a
Data File Name	116SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:51:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.163	0.163	18.05	841	0.02	10000	
B	11	45	2	NoGas	75.630	75.630	1.04	269107	0.03	300	
Na	23	45	1	He	905.906	905.906	1.47	1344804	0.07	500000	
Mg	24	45	1	He	28.348	28.348	4.39	24180	0.12	500000	
Al	27	45	1	He	52.968	52.968	2.09	23347	0.23	200000	
K	39	45	1	He	47.548	47.548	5.27	91742	0.05	500000	
Ca	44	45	1	He	175.734	175.734	3.66	6587	2.67	500000	
Ti	47	45	1	He	0.407	0.407	6.41	84	0.48	2500	
V	51	45	1	He	0.101	0.101	219.83	777	0.01	10000	
Cr	52	45	1	He	2.001	2.001	3.05	15684	0.01	10000	
Mn	55	45	1	He	5.911	5.911	0.66	27004	0.02	10000	
Fe	56	45	1	He	57.791	57.791	1.54	345543	0.02	200000	
Co	59	103	1	He	0.139	0.139	3.71	1506	0.01	10000	
Ni	60	103	1	He	2.502	2.502	1.18	6748	0.04	10000	
Cu	63	103	1	He	0.426	0.426	7.81	5489	0.01	10000	
Zn	66	103	1	He	3.466	3.466	2.46	5837	0.06	10000	
As	75	103	1	He	0.615	0.615	3.10	757	0.08	10000	
Se	78	103	1	He	0.446	0.446	17.42	63	0.71	10000	
Sr	88	103	1	He	0.707	0.707	2.17	3979	0.02	10000	
Mo	95	103	1	He	0.866	0.866	24.49	3225	0.03	2000	
Ag	107	103	1	He	0.007	0.007	25.24	102	0.01	300	
Cd	111	103	1	He	0.121	0.121	30.79	1047	0.01	4000	
Sn	118	115	1	He	0.850	0.850	21.17	3901	0.02	2000	
Sb	123	115	1	He	0.695	0.695	4.90	3523	0.02	300	
Ba	137	115	1	He	0.713	0.713	7.39	1090	0.07	10000	
W	182	165	1	He	1.472	1.472	14.38	19005	0.01	2500	
Tl	205	209	1	He	0.139	0.139	18.42	4003	0.00	5000	
Pb	208	209	1	He	0.118	0.118	5.44	4916	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1643436	2.47	1803797	91.11	30	120	
Sc	45	1	He	541834	0.95	574766	94.27	30	120	
Sc	45	2	NoGas	4281634	0.11	4296857	99.65	30	120	
Rh	103	1	He	1638439	0.59	1652712	99.14	30	120	
In	115	1	He	823286	0.27	852389	96.59	30	120	
Tb	159	1	He	2433599	1.67	2425956	100.32	30	120	
Ho	165	1	He	2488125	1.17	2452680	101.45	30	120	
Bi	209	1	He	1869843	0.94	1810473	103.28	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	117_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:55:34-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.286	1.916	240641	2.19	50	92.6	89.5	110.5	
B	11	45	2	NoGas	101.835	1.236	365100	1.41	50	203.7	89.5	110.5	CCV Failed
Na	23	45	1	He	25038.435	3.087	38307111	0.45	25000	100.2	89.5	110.5	
Mg	24	45	1	He	25070.174	1.973	21735258	1.57	25000	100.3	89.5	110.5	
Al	27	45	1	He	245.209	2.134	111298	1.67	250	98.1	89.5	110.5	
K	39	45	1	He	25771.782	3.474	17598920	0.72	25000	103.1	89.5	110.5	
Ca	44	45	1	He	24886.976	2.421	903403	1.00	25000	99.5	89.5	110.5	
Ti	47	45	1	He	50.092	4.890	10819	3.41	50	100.2	89.5	110.5	
V	51	45	1	He	50.881	3.396	281020	1.00	50	101.8	89.5	110.5	
Cr	52	45	1	He	49.901	2.398	340849	1.08	50	99.8	89.5	110.5	
Mn	55	45	1	He	249.101	2.925	1193213	0.77	250	99.6	89.5	110.5	
Fe	56	45	1	He	12691.732	3.162	78689837	0.97	12500	101.5	89.5	110.5	
Co	59	103	1	He	47.784	1.525	482107	0.86	50	95.6	89.5	110.5	
Ni	60	103	1	He	47.083	1.884	120875	1.01	50	94.2	89.5	110.5	
Cu	63	103	1	He	47.212	2.123	325396	1.58	50	94.4	89.5	110.5	
Zn	66	103	1	He	48.496	2.691	68282	2.23	50	97.0	89.5	110.5	
As	75	103	1	He	49.258	1.042	43572	1.17	50	98.5	89.5	110.5	
Se	78	103	1	He	49.771	1.646	3657	1.55	50	99.5	89.5	110.5	
Sr	88	103	1	He	50.136	0.860	262915	1.23	50	100.3	89.5	110.5	
Mo	95	103	1	He	49.828	1.721	141375	1.36	50	99.7	89.5	110.5	
Ag	107	103	1	He	49.611	0.943	485120	0.39	50	99.2	89.5	110.5	
Cd	111	103	1	He	50.158	0.950	82729	0.72	50	100.3	89.5	110.5	
Sn	118	115	1	He	50.218	1.066	183693	1.64	50	100.4	89.5	110.5	
Sb	123	115	1	He	53.380	0.460	206927	0.89	50	106.8	89.5	110.5	
Ba	137	115	1	He	52.965	1.444	80852	0.86	50	105.9	89.5	110.5	
W	182	165	1	He	47.587	0.864	540410	0.71	50	95.2	89.5	110.5	
Tl	205	209	1	He	47.224	1.152	1190823	0.85	50	94.4	89.5	110.5	
Pb	208	209	1	He	48.786	1.025	1619185	0.80	50	97.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1660732	0.30	1803797	92.07	30	120	
Sc	45	1	He	571748	3.44	574766	99.47	30	120	
Sc	45	2	NoGas	4338189	0.25	4296857	100.96	30	120	
Rh	103	1	He	1581149	0.87	1652712	95.67	30	120	
In	115	1	He	831692	0.58	852389	97.57	30	120	
Tb	159	1	He	2494625	1.37	2425956	102.83	30	120	
Ho	165	1	He	2538792	0.16	2452680	103.51	30	120	
Bi	209	1	He	1831339	0.83	1810473	101.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	118_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T17:59:24-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.107	23.0	559	21.9	1	
B	11	45	2	NoGas	48.854	2.0	181480	1.7	20	CCB Failed
Na	23	45	1	He	25.669	6.0	69413	0.9	400	
Mg	24	45	1	He	2.905	20.9	3286	13.8	1000	
Al	27	45	1	He	7.635	6.3	4004	2.7	50	
K	39	45	1	He	13.638	28.6	70489	1.1	1000	
Ca	44	45	1	He	4.859	33.3	715	5.6	1000	
Ti	47	45	1	He	0.230	37.7	49	38.8	20	
V	51	45	1	He	0.051	115.8	514	57.9	2	
Cr	52	45	1	He	0.049	30.4	3179	2.0	2	
Mn	55	45	1	He	0.125	11.0	732	7.9	2	
Fe	56	45	1	He	12.286	33.1	78324	28.0	50	
Co	59	103	1	He	0.026	9.5	328	7.2	1	
Ni	60	103	1	He	0.022	24.2	156	8.7	2	
Cu	63	103	1	He	-0.115	-12.9	1665	7.4	2	
Zn	66	103	1	He	0.465	17.9	1518	7.2	20	
As	75	103	1	He	0.088	7.1	277	1.1	2	
Se	78	103	1	He	0.252	19.8	49	8.9	2	
Sr	88	103	1	He	0.079	26.0	573	20.0	10	
Mo	95	103	1	He	0.670	21.0	2667	16.8	2	
Ag	107	103	1	He	0.005	50.4	82	30.7	0.2	
Cd	111	103	1	He	0.138	22.9	1082	5.3	0.2	
Sn	118	115	1	He	0.297	8.3	2004	5.0	10	
Sb	123	115	1	He	0.168	31.6	1585	13.7	1	
Ba	137	115	1	He	0.101	6.5	173	5.8	5	
W	182	165	1	He	1.028	12.2	14496	9.0	10	
Tl	205	209	1	He	0.065	6.9	2122	4.9	0.5	
Pb	208	209	1	He	0.037	10.3	2203	7.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1669206	1.03	1803797	92.54	30	120	
Sc	45	1	He	546969	2.43	574766	95.16	30	120	
Sc	45	2	NoGas	4417705	0.36	4296857	102.81	30	120	
Rh	103	1	He	1646928	1.17	1652712	99.65	30	120	
In	115	1	He	864099	0.35	852389	101.37	30	120	
Tb	159	1	He	2495588	1.26	2425956	102.87	30	120	
Ho	165	1	He	2559122	0.81	2452680	104.34	30	120	
Bi	209	1	He	1897239	2.04	1810473	104.79	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	119_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:03:16-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.862	1.858	241359	2.08	50	93.7	89.5	110.5	
B	11	45	2	NoGas	89.686	1.094	332876	2.05	50	179.4	89.5	110.5	CCV Failed
Na	23	45	1	He	24817.600	3.023	38068348	1.23	25000	99.3	89.5	110.5	
Mg	24	45	1	He	25166.565	5.146	21856723	1.14	25000	100.7	89.5	110.5	
Al	27	45	1	He	246.838	2.993	112297	1.27	250	98.7	89.5	110.5	
K	39	45	1	He	25875.077	4.612	17709033	1.10	25000	103.5	89.5	110.5	
Ca	44	45	1	He	24968.136	3.178	908523	0.99	25000	99.9	89.5	110.5	
Ti	47	45	1	He	49.747	0.799	10780	3.34	50	99.5	89.5	110.5	
V	51	45	1	He	50.611	3.764	280245	1.86	50	101.2	89.5	110.5	
Cr	52	45	1	He	49.894	3.803	341562	0.67	50	99.8	89.5	110.5	
Mn	55	45	1	He	249.702	4.128	1198767	0.11	250	99.9	89.5	110.5	
Fe	56	45	1	He	12657.151	4.396	78648641	0.63	12500	101.3	89.5	110.5	
Co	59	103	1	He	47.716	1.835	479266	0.38	50	95.4	89.5	110.5	
Ni	60	103	1	He	47.703	1.439	121930	1.05	50	95.4	89.5	110.5	
Cu	63	103	1	He	47.222	1.683	324018	0.55	50	94.4	89.5	110.5	
Zn	66	103	1	He	48.950	3.026	68598	1.50	50	97.9	89.5	110.5	
As	75	103	1	He	49.558	1.742	43637	0.48	50	99.1	89.5	110.5	
Se	78	103	1	He	49.383	1.305	3613	0.71	50	98.8	89.5	110.5	
Sr	88	103	1	He	51.298	1.778	267776	0.38	50	102.6	89.5	110.5	
Mo	95	103	1	He	49.926	2.267	141058	3.32	50	99.9	89.5	110.5	
Ag	107	103	1	He	49.611	1.563	482944	0.15	50	99.2	89.5	110.5	
Cd	111	103	1	He	50.559	1.749	83009	0.92	50	101.1	89.5	110.5	
Sn	118	115	1	He	50.293	1.581	186431	1.03	50	100.6	89.5	110.5	
Sb	123	115	1	He	52.889	1.431	207790	0.83	50	105.8	89.5	110.5	
Ba	137	115	1	He	52.737	2.596	81588	2.08	50	105.5	89.5	110.5	
W	182	165	1	He	47.748	1.468	541947	2.01	50	95.5	89.5	110.5	
Tl	205	209	1	He	46.717	0.145	1185453	0.50	50	93.4	89.5	110.5	
Pb	208	209	1	He	48.295	0.065	1612958	0.34	50	96.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1645271	1.19	1803797	91.21	30	120	
Sc	45	1	He	573298	4.11	574766	99.74	30	120	
Sc	45	2	NoGas	4481057	1.01	4296857	104.29	30	120	
Rh	103	1	He	1574234	1.57	1652712	95.25	30	120	
In	115	1	He	842922	0.61	852389	98.89	30	120	
Tb	159	1	He	2478723	1.59	2425956	102.18	30	120	
Ho	165	1	He	2537291	0.56	2452680	103.45	30	120	
Bi	209	1	He	1842752	0.36	1810473	101.78	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	120_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:07:08-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.100	19.8	522	18.9	1	
B	11	45	2	NoGas	39.350	2.1	148336	1.3	20	CCB Failed
Na	23	45	1	He	23.215	9.3	66595	3.1	400	
Mg	24	45	1	He	2.529	30.8	3008	20.0	1000	
Al	27	45	1	He	7.841	2.6	4145	3.6	50	
K	39	45	1	He	16.257	25.3	73054	1.9	1000	
Ca	44	45	1	He	6.081	15.9	767	4.5	1000	
Ti	47	45	1	He	0.128	47.6	28	45.4	20	
V	51	45	1	He	0.071	52.2	632	30.7	2	
Cr	52	45	1	He	0.000	14032.2	2898	5.2	2	
Mn	55	45	1	He	0.092	21.6	588	14.5	2	
Fe	56	45	1	He	11.936	32.3	77248	28.0	50	
Co	59	103	1	He	0.017	15.3	233	12.4	1	
Ni	60	103	1	He	0.007	21.7	118	4.3	2	
Cu	63	103	1	He	-0.109	-21.4	1733	9.4	2	
Zn	66	103	1	He	0.428	7.1	1493	2.4	20	
As	75	103	1	He	0.096	40.2	289	12.0	2	
Se	78	103	1	He	0.321	31.3	55	14.0	2	
Sr	88	103	1	He	0.038	11.3	357	6.5	10	
Mo	95	103	1	He	0.623	24.3	2577	18.2	2	
Ag	107	103	1	He	0.005	29.2	80	16.7	0.2	
Cd	111	103	1	He	0.103	45.8	1041	7.4	0.2	
Sn	118	115	1	He	0.370	16.5	2293	9.8	10	
Sb	123	115	1	He	0.166	28.3	1585	11.9	1	
Ba	137	115	1	He	0.059	21.3	108	18.1	5	
W	182	165	1	He	0.978	14.8	14129	12.1	10	
Tl	205	209	1	He	0.061	20.8	2015	16.2	0.5	
Pb	208	209	1	He	0.035	8.8	2143	4.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1655035	0.94	1803797	91.75	30	120	
Sc	45	1	He	553418	1.97	574766	96.29	30	120	
Sc	45	2	NoGas	4447790	0.94	4296857	103.51	30	120	
Rh	103	1	He	1678863	0.65	1652712	101.58	30	120	
In	115	1	He	869433	0.54	852389	102.00	30	120	
Tb	159	1	He	2481605	0.83	2425956	102.29	30	120	
Ho	165	1	He	2594555	0.40	2452680	105.78	30	120	
Bi	209	1	He	1900457	0.24	1810473	104.97	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	121CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:11:01-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.994	0.994	8.030	5182	6.93	1	99.4	69.5	130.5	
B	11	2	NoGas	53.832	53.832	0.677	201680	1.46	20	269.2	69.5	130.5	6020A CR1 Failed
Na	23	1	He	1085.782	1085.782	1.207	1693350	0.77	1000	108.6	69.5	130.5	
Mg	24	1	He	1038.751	1038.751	1.505	901462	2.00	1000	103.9	69.5	130.5	
Al	27	1	He	50.135	50.135	1.056	23349	1.96	50	100.3	69.5	130.5	
K	39	1	He	1071.265	1071.265	0.963	793468	0.51	1000	107.1	69.5	130.5	
Ca	44	1	He	1036.926	1036.926	2.272	38188	1.68	1000	103.7	69.5	130.5	
Ti	47	1	He	9.727	9.727	6.517	2103	7.58	10	97.3	69.5	130.5	
V	51	1	He	5.229	5.229	3.481	29112	2.22	5	104.6	69.5	130.5	
Cr	52	1	He	3.726	3.726	1.490	28224	2.48	2	186.3	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	5.469	5.469	2.676	26361	1.86	5	109.4	69.5	130.5	
Fe	56	1	He	111.843	111.843	1.068	699554	0.21	100	111.8	69.5	130.5	
Co	59	1	He	0.974	0.974	1.666	10333	1.80	1	97.4	69.5	130.5	
Ni	60	1	He	2.649	2.649	2.308	7209	2.38	2	132.5	69.5	130.5	6020A CR1 Failed
Cu	63	1	He	1.820	1.820	0.732	15525	0.76	2	91.0	69.5	130.5	
Zn	66	1	He	19.517	19.517	1.586	29267	1.69	20	97.6	69.5	130.5	
As	75	1	He	4.937	4.937	2.097	4748	2.08	5	98.7	69.5	130.5	
Se	78	1	He	4.889	4.889	1.269	403	1.32	5	97.8	69.5	130.5	
Sr	88	1	He	9.959	9.959	0.992	54768	1.13	10	99.6	69.5	130.5	
Mo	95	1	He	10.091	10.091	1.433	30517	1.39	10	100.9	69.5	130.5	
Ag	107	1	He	1.001	1.001	3.643	10278	3.58	1	100.1	69.5	130.5	
Cd	111	1	He	1.079	1.079	2.477	2695	1.79	1	107.9	69.5	130.5	
Sn	118	1	He	9.929	9.929	1.107	38964	0.78	10	99.3	69.5	130.5	
Sb	123	1	He	1.913	1.913	1.071	8699	1.00	2	95.6	69.5	130.5	
Ba	137	1	He	5.239	5.239	1.497	8436	1.42	5	104.8	69.5	130.5	
W	182	1	He	9.545	9.545	2.887	112547	2.18	10	95.4	69.5	130.5	
Tl	205	1	He	1.912	1.912	1.290	50996	1.10	2	95.6	69.5	130.5	
Pb	208	1	He	1.066	1.066	0.623	38046	0.60	1	106.6	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1665038	1.06	1803797	92.31	30	120	
Sc	45	1	He	571497	1.22	574766	99.43	30	120	
Sc	45	2	NoGas	4468930	1.13	4296857	104.00	30	120	
Rh	103	1	He	1654602	0.15	1652712	100.11	30	120	
In	115	1	He	875951	0.31	852389	102.76	30	120	
Tb	159	1	He	2540368	1.29	2425956	104.72	30	120	
Ho	165	1	He	2583572	1.61	2452680	105.34	30	120	
Bi	209	1	He	1922056	0.28	1810473	106.16	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176562/1-a@2
Data File Name	122_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:14:54-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.106	10.8	544	10.8	1	
B	11	45	2	NoGas	41.570	0.1	148499	0.3	20	Blank Failed
Na	23	45	1	He	57.383	1.0	114977	1.8	400	
Mg	24	45	1	He	30.969	1.5	26376	2.3	1000	
Al	27	45	1	He	6.330	3.0	3417	1.4	50	
K	39	45	1	He	42.305	6.1	88530	2.8	1000	
Ca	44	45	1	He	99.269	5.3	3962	3.8	1000	
Ti	47	45	1	He	0.581	97.5	120	96.6	20	
V	51	45	1	He	0.291	10.9	1774	9.7	2	
Cr	52	45	1	He	1.174	5.5	10386	3.3	2	
Mn	55	45	1	He	0.555	6.8	2685	5.5	2	
Fe	56	45	1	He	14.559	2.0	91505	2.7	50	
Co	59	103	1	He	0.047	15.5	534	14.0	1	
Ni	60	103	1	He	0.206	8.9	627	7.5	2	
Cu	63	103	1	He	0.334	9.5	4720	3.6	2	
Zn	66	103	1	He	2.418	4.6	4227	4.9	20	
As	75	103	1	He	0.346	12.8	500	9.1	2	
Se	78	103	1	He	0.325	16.1	53	6.5	2	
Sr	88	103	1	He	0.606	3.6	3354	3.6	10	
Mo	95	103	1	He	0.234	25.1	1340	11.6	2	
Ag	107	103	1	He	0.006	22.0	88	13.3	0.2	
Cd	111	103	1	He	0.116	39.3	1015	8.2	0.2	
Sn	118	115	1	He	17.586	2.5	64259	2.6	10	Blank Failed
Sb	123	115	1	He	0.102	21.1	1257	6.3	1	
Ba	137	115	1	He	1.144	7.0	1741	6.3	5	
W	182	165	1	He	0.570	19.7	9021	12.7	10	
Tl	205	209	1	He	0.087	14.4	2698	13.2	0.5	
Pb	208	209	1	He	0.237	7.2	9122	5.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1633978	0.54	1803797	90.59	30	120	
Sc	45	1	He	542783	1.07	574766	94.44	30	120	
Sc	45	2	NoGas	4223623	0.24	4296857	98.30	30	120	
Rh	103	1	He	1600315	1.18	1652712	96.83	30	120	
In	115	1	He	823806	0.72	852389	96.65	30	120	
Tb	159	1	He	2420800	0.63	2425956	99.79	30	120	
Ho	165	1	He	2486334	1.08	2452680	101.37	30	120	
Bi	209	1	He	1908848	1.14	1810473	105.43	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176562/2-a@2
Data File Name	123LCSS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:18:45-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	516.347	516.347	0.859	2559295	0.76	500	103.3	78.6	110.5	
B	11	2	NoGas	92.160	92.160	1.001	315678	1.77	50	184.3	79.5	120.5	LCSS Failed
Na	23	1	He	5217.730	5217.730	1.660	7414099	0.31	5000	104.4	79.5	120.5	
Mg	24	1	He	5162.824	5162.824	0.588	4143484	0.78	5000	103.3	79.5	120.5	
Al	27	1	He	4988.215	4988.215	0.881	2082183	0.53	5000	99.8	79.5	120.5	
K	39	1	He	5346.061	5346.061	1.334	3427097	0.48	5000	106.9	79.5	120.5	
Ca	44	1	He	4819.061	4819.061	1.177	162352	1.13	5000	96.4	79.5	120.5	
Ti	47	1	He	50.934	50.934	3.193	10183	1.85	50	101.9	79.5	120.5	
V	51	1	He	530.696	530.696	1.988	2711106	0.85	500	106.1	71.5	110.5	
Cr	52	1	He	522.413	522.413	1.428	3276698	1.16	500	104.5	69.5	110.5	
Mn	55	1	He	522.104	522.104	1.008	2315019	0.83	500	104.4	79.5	120.5	
Fe	56	1	He	5232.765	5232.765	2.103	30035104	0.80	5000	104.7	79.5	120.5	
Co	59	1	He	472.206	472.206	2.918	4634869	1.32	500	94.4	73.9	110.5	
Ni	60	1	He	457.963	457.963	2.614	1143198	0.90	500	91.6	74.9	110.5	
Cu	63	1	He	480.194	480.194	1.931	3199190	0.68	500	96.0	72.6	110.5	
Zn	66	1	He	450.887	450.887	2.402	611161	0.70	500	90.2	71.5	113.4	
As	75	1	He	452.289	452.289	2.019	387760	0.28	500	90.5	73.4	110.5	
Se	78	1	He	444.767	444.767	1.928	31581	0.59	500	89.0	64.6	110.5	
Sr	88	1	He	509.195	509.195	1.445	2597024	0.95	500	101.8	79.5	120.5	
Mo	95	1	He	52.584	52.584	1.683	145137	0.27	50	105.2	29.5	140.5	
Ag	107	1	He	49.779	49.779	2.224	473609	0.41	50	99.6	59.5	114.5	
Cd	111	1	He	477.150	477.150	1.853	759014	0.09	500	95.4	73.5	110.5	
Sn	118	1	He	576.661	576.661	0.382	1977986	0.71	500	115.3	79.5	120.5	
Sb	123	1	He	51.944	51.944	0.149	189643	0.33	50	103.9	67.5	113.4	
Ba	137	1	He	523.849	523.849	0.658	752957	0.23	500	104.8	69.5	110.5	
W	182	1	He	48.016	48.016	1.196	533197	1.17	50	96.0	74.6	125.4	
Tl	205	1	He	119.087	119.087	0.939	2995799	1.03	125	95.3	70.6	110.5	
Pb	208	1	He	483.840	483.840	0.783	16015057	0.72	500	96.8	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1583484	1.59	1803797	87.79	30	120	
Sc	45	1	He	528977	1.36	574766	92.03	30	120	
Sc	45	2	NoGas	4137546	0.83	4296857	96.29	30	120	
Rh	103	1	He	1538755	1.81	1652712	93.10	30	120	
In	115	1	He	783201	0.43	852389	91.88	30	120	
Tb	159	1	He	2392760	0.61	2425956	98.63	30	120	
Ho	165	1	He	2482621	0.53	2452680	101.22	30	120	
Bi	209	1	He	1827238	0.09	1810473	100.93	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-j@2
Data File Name	124SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:22:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.086	2.086	1.81	10529	0.02	10000	
B	11	45	2	NoGas	40.212	40.212	0.85	147627	0.03	300	
Na	23	45	1	He	144.209	144.209	1.67	244431	0.06	500000	
Mg	24	45	1	He	7238.128	7238.128	0.51	6043868	0.12	500000	
Al	27	45	1	He	48705.616	48705.616	1.01	21146937	0.23	200000	
K	39	45	1	He	2435.041	2435.041	1.56	1658136	0.15	500000	
Ca	44	45	1	He	10696.980	10696.980	0.74	374293	2.86	500000	
Ti	47	45	1	He	351.954	351.954	1.10	73222	0.48	2500	
V	51	45	1	He	101.943	101.943	0.95	542118	0.02	10000	
Cr	52	45	1	He	73.538	73.538	0.39	482400	0.02	10000	
Mn	55	45	1	He	1986.143	1986.143	0.69	9162585	0.02	10000	
Fe	56	45	1	He	90959.767	90959.767	0.50	543192458	0.02	200000	
Co	59	103	1	He	29.692	29.692	1.85	287694	0.01	10000	
Ni	60	103	1	He	188.498	188.498	1.94	464465	0.04	10000	
Cu	63	103	1	He	48.884	48.884	2.34	323454	0.02	10000	
Zn	66	103	1	He	285.908	285.908	1.75	382774	0.07	10000	
As	75	103	1	He	42.147	42.147	2.22	35824	0.12	10000	
Se	78	103	1	He	4.366	4.366	7.12	333	1.31	10000	
Sr	88	103	1	He	36.181	36.181	1.75	182227	0.02	10000	
Mo	95	103	1	He	7.197	7.197	1.22	20160	0.04	2000	
Ag	107	103	1	He	0.222	0.222	6.78	2118	0.01	300	
Cd	111	103	1	He	0.953	0.953	7.90	2276	0.04	4000	
Sn	118	115	1	He	20.320	20.320	1.56	72388	0.03	2000	
Sb	123	115	1	He	0.712	0.712	3.22	3507	0.02	300	
Ba	137	115	1	He	262.761	262.761	0.59	387974	0.07	10000	
W	182	165	1	He	0.899	0.899	11.47	13043	0.01	2500	
Tl	205	209	1	He	0.811	0.811	4.68	21303	0.00	5000	
Pb	208	209	1	He	78.710	78.710	0.86	2669772	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612005	1.23	1803797	89.37	30	120	
Sc	45	1	He	550359	0.67	574766	95.75	30	120	
Sc	45	2	NoGas	4335213	1.20	4296857	100.89	30	120	
Rh	103	1	He	1518486	1.24	1652712	91.88	30	120	
In	115	1	He	804528	0.55	852389	94.39	30	120	
Tb	159	1	He	2492632	1.03	2425956	102.75	30	120	
Ho	165	1	He	2559650	0.94	2452680	104.36	30	120	
Bi	209	1	He	1871968	0.54	1810473	103.40	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49071-a-2-j@10
Data File Name	125SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:26:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.476	0.476	9.16	2478	0.02	10000	
B	11	45	2	NoGas	27.767	27.767	1.88	105951	0.03	300	
Na	23	45	1	He	42.461	42.461	0.27	98461	0.04	500000	
Mg	24	45	1	He	1502.358	1502.358	1.57	1306064	0.12	500000	
Al	27	45	1	He	10100.842	10100.842	2.02	4563868	0.22	200000	
K	39	45	1	He	478.721	478.721	2.29	391005	0.12	500000	
Ca	44	45	1	He	2181.674	2181.674	2.25	79880	2.73	500000	
Ti	47	45	1	He	72.918	72.918	0.68	15789	0.46	2500	
V	51	45	1	He	20.438	20.438	1.69	113303	0.02	10000	
Cr	52	45	1	He	14.931	14.931	0.93	104318	0.01	10000	
Mn	55	45	1	He	419.953	419.953	2.39	2015767	0.02	10000	
Fe	56	45	1	He	18609.963	18609.963	1.92	115638315	0.02	200000	
Co	59	103	1	He	5.884	5.884	1.69	62660	0.01	10000	
Ni	60	103	1	He	36.738	36.738	2.49	99501	0.04	10000	
Cu	63	103	1	He	9.551	9.551	1.70	71439	0.01	10000	
Zn	66	103	1	He	57.865	57.865	2.91	85766	0.07	10000	
As	75	103	1	He	8.341	8.341	2.70	7946	0.10	10000	
Se	78	103	1	He	1.052	1.052	15.67	111	0.95	10000	
Sr	88	103	1	He	7.169	7.169	0.69	39779	0.02	10000	
Mo	95	103	1	He	1.223	1.223	3.45	4344	0.03	2000	
Ag	107	103	1	He	0.042	0.042	9.06	462	0.01	300	
Cd	111	103	1	He	0.180	0.180	19.36	1167	0.02	4000	
Sn	118	115	1	He	3.795	3.795	3.94	15259	0.02	2000	
Sb	123	115	1	He	0.045	0.045	33.84	1091	0.00	300	
Ba	137	115	1	He	52.205	52.205	0.71	82940	0.06	10000	
W	182	165	1	He	0.190	0.190	11.22	5157	0.00	2500	
Tl	205	209	1	He	0.172	0.172	3.08	5071	0.00	5000	
Pb	208	209	1	He	16.090	16.090	0.46	571543	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1659497	0.68	1803797	92.00	30	120	
Sc	45	1	He	572793	2.28	574766	99.66	30	120	
Sc	45	2	NoGas	4426783	1.22	4296857	103.02	30	120	
Rh	103	1	He	1667816	1.21	1652712	100.91	30	120	
In	115	1	He	865547	0.23	852389	101.54	30	120	
Tb	159	1	He	2580498	0.78	2425956	106.37	30	120	
Ho	165	1	He	2659740	1.70	2452680	108.44	30	120	
Bi	209	1	He	1957705	0.34	1810473	108.13	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49071-a-2-j@2
Data File Name	126SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:30:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1089.759	1089.759	1.07	5282455	0.02	10000	
B	11	45	2	NoGas	141.655	141.655	0.65	494548	0.03	300	
Na	23	45	1	He	10410.586	10410.586	0.75	15339449	0.07	500000	
Mg	24	45	1	He	17029.083	17029.083	1.34	14196926	0.12	500000	
Al	27	45	1	He	56498.854	56498.854	1.42	24495098	0.23	200000	
K	39	45	1	He	12808.907	12808.907	2.26	8444310	0.15	500000	
Ca	44	45	1	He	19743.551	19743.551	1.38	689403	2.86	500000	
Ti	47	45	1	He	443.533	443.533	1.25	92142	0.48	2500	
V	51	45	1	He	1151.361	1151.361	1.55	6111120	0.02	10000	
Cr	52	45	1	He	1109.198	1109.198	0.88	7225981	0.02	10000	
Mn	55	45	1	He	2963.396	2963.396	1.74	13650115	0.02	10000	
Fe	56	45	1	He	97519.255	97519.255	1.71	581485470	0.02	200000	
Co	59	103	1	He	1052.184	1052.184	1.27	9942371	0.01	10000	
Ni	60	103	1	He	1228.029	1228.029	1.65	2950790	0.04	10000	
Cu	63	103	1	He	1062.625	1062.625	1.76	6811624	0.02	10000	
Zn	66	103	1	He	1317.487	1317.487	2.03	1717525	0.08	10000	
As	75	103	1	He	1039.844	1039.844	0.82	857947	0.12	10000	
Se	78	103	1	He	995.610	995.610	0.92	68017	1.46	10000	
Sr	88	103	1	He	1134.538	1134.538	1.35	5569574	0.02	10000	
Mo	95	103	1	He	122.895	122.895	1.52	325664	0.04	2000	
Ag	107	103	1	He	106.500	106.500	1.28	975371	0.01	300	
Cd	111	103	1	He	1099.641	1099.641	0.99	1682836	0.07	4000	
Sn	118	115	1	He	1205.385	1205.385	1.25	4076586	0.03	2000	
Sb	123	115	1	He	112.774	112.774	0.52	405094	0.03	300	
Ba	137	115	1	He	1491.513	1491.513	1.34	2114289	0.07	10000	
W	182	165	1	He	101.861	101.861	0.79	1143237	0.01	2500	
Tl	205	209	1	He	252.906	252.906	0.87	6277613	0.00	5000	
Pb	208	209	1	He	1108.993	1108.993	0.14	36221982	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1548432	0.33	1803797	85.84	30	120	
Sc	45	1	He	549628	1.80	574766	95.63	30	120	
Sc	45	2	NoGas	4243862	0.55	4296857	98.77	30	120	
Rh	103	1	He	1480982	1.14	1652712	89.61	30	120	
In	115	1	He	772408	0.32	852389	90.62	30	120	
Tb	159	1	He	2456849	0.54	2425956	101.27	30	120	
Ho	165	1	He	2515978	0.06	2452680	102.58	30	120	
Bi	209	1	He	1803121	0.34	1810473	99.59	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-k du@2
Data File Name	127SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:33:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.163	2.163	1.50	10926	0.02	10000	
B	11	45	2	NoGas	35.147	35.147	0.47	130354	0.03	300	
Na	23	45	1	He	136.094	136.094	1.99	231309	0.06	500000	
Mg	24	45	1	He	7255.861	7255.861	1.31	6028418	0.12	500000	
Al	27	45	1	He	48732.536	48732.536	1.30	21053596	0.23	200000	
K	39	45	1	He	2500.649	2500.649	1.33	1692595	0.15	500000	
Ca	44	45	1	He	4960.156	4960.156	1.69	172984	2.87	500000	
Ti	47	45	1	He	363.752	363.752	1.53	75297	0.48	2500	
V	51	45	1	He	105.622	105.622	0.74	558895	0.02	10000	
Cr	52	45	1	He	76.472	76.472	1.08	499038	0.02	10000	
Mn	55	45	1	He	1736.328	1736.328	2.05	7969608	0.02	10000	
Fe	56	45	1	He	95214.256	95214.256	2.09	565720991	0.02	200000	
Co	59	103	1	He	27.832	27.832	1.52	270612	0.01	10000	
Ni	60	103	1	He	137.234	137.234	0.81	339380	0.04	10000	
Cu	63	103	1	He	48.909	48.909	2.03	324726	0.02	10000	
Zn	66	103	1	He	282.797	282.797	2.55	379873	0.07	10000	
As	75	103	1	He	43.570	43.570	2.15	37154	0.12	10000	
Se	78	103	1	He	4.582	4.582	9.94	349	1.31	10000	
Sr	88	103	1	He	21.355	21.355	2.36	107964	0.02	10000	
Mo	95	103	1	He	8.206	8.206	3.67	22966	0.04	2000	
Ag	107	103	1	He	0.225	0.225	6.18	2150	0.01	300	
Cd	111	103	1	He	1.026	1.026	2.86	2399	0.04	4000	
Sn	118	115	1	He	23.015	23.015	1.83	81483	0.03	2000	
Sb	123	115	1	He	0.883	0.883	8.31	4123	0.02	300	
Ba	137	115	1	He	251.270	251.270	0.15	369239	0.07	10000	
W	182	165	1	He	1.366	1.366	16.48	18445	0.01	2500	
Tl	205	209	1	He	0.953	0.953	8.12	24427	0.00	5000	
Pb	208	209	1	He	81.552	81.552	1.60	2707805	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1613038	0.90	1803797	89.42	30	120	
Sc	45	1	He	547646	1.21	574766	95.28	30	120	
Sc	45	2	NoGas	4354249	0.25	4296857	101.34	30	120	
Rh	103	1	He	1523837	2.18	1652712	92.20	30	120	
In	115	1	He	800681	0.47	852389	93.93	30	120	
Tb	159	1	He	2474587	1.19	2425956	102.00	30	120	
Ho	165	1	He	2569674	1.61	2452680	104.77	30	120	
Bi	209	1	He	1832758	1.66	1810473	101.23	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-I ms@2
Data File Name	128SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:37:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	50.079	50.079	2.50	248821	0.02	10000	
B	11	45	2	NoGas	69.678	69.678	0.72	247642	0.03	300	
Na	23	45	1	He	4854.949	4854.949	0.90	7217822	0.07	500000	
Mg	24	45	1	He	12540.664	12540.664	0.44	10524837	0.12	500000	
Al	27	45	1	He	58146.294	58146.294	0.59	25377165	0.23	200000	
K	39	45	1	He	7126.149	7126.149	1.63	4757187	0.15	500000	
Ca	44	45	1	He	9925.244	9925.244	1.25	349131	2.84	500000	
Ti	47	45	1	He	436.432	436.432	0.53	91268	0.48	2500	
V	51	45	1	He	159.909	159.909	0.22	854645	0.02	10000	
Cr	52	45	1	He	122.541	122.541	0.39	806089	0.02	10000	
Mn	55	45	1	He	2103.593	2103.593	0.78	9754809	0.02	10000	
Fe	56	45	1	He	101343.029	101343.029	0.50	608334180	0.02	200000	
Co	59	103	1	He	77.167	77.167	2.01	738552	0.01	10000	
Ni	60	103	1	He	205.448	205.448	2.07	500085	0.04	10000	
Cu	63	103	1	He	96.759	96.759	1.65	630305	0.02	10000	
Zn	66	103	1	He	357.279	357.279	1.58	472352	0.08	10000	
As	75	103	1	He	90.746	90.746	2.10	75992	0.12	10000	
Se	78	103	1	He	45.863	45.863	2.21	3200	1.43	10000	
Sr	88	103	1	He	72.976	72.976	2.44	362927	0.02	10000	
Mo	95	103	1	He	56.957	56.957	1.87	153215	0.04	2000	
Ag	107	103	1	He	47.494	47.494	1.79	440576	0.01	300	
Cd	111	103	1	He	48.087	48.087	1.88	75271	0.06	4000	
Sn	118	115	1	He	56.204	56.204	0.92	196316	0.03	2000	
Sb	123	115	1	He	13.890	13.890	0.35	52065	0.03	300	
Ba	137	115	1	He	326.148	326.148	1.77	475624	0.07	10000	
W	182	165	1	He	35.307	35.307	1.27	403360	0.01	2500	
Tl	205	209	1	He	43.484	43.484	1.35	1091260	0.00	5000	
Pb	208	209	1	He	134.115	134.115	0.13	4428217	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1587718	2.67	1803797	88.02	30	120	
Sc	45	1	He	553202	0.13	574766	96.25	30	120	
Sc	45	2	NoGas	4268910	0.98	4296857	99.35	30	120	
Rh	103	1	He	1500216	1.87	1652712	90.77	30	120	
In	115	1	He	794631	0.60	852389	93.22	30	120	
Tb	159	1	He	2493470	0.69	2425956	102.78	30	120	
Ho	165	1	He	2549533	0.62	2452680	103.95	30	120	
Bi	209	1	He	1822449	0.43	1810473	100.66	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-3-b@2
Data File Name	129SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:41:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.660	2.660	6.19	13383	0.02	10000	
B	11	45	2	NoGas	35.959	35.959	0.34	132489	0.03	300	
Na	23	45	1	He	174.972	174.972	1.23	287615	0.06	500000	
Mg	24	45	1	He	14055.169	14055.169	0.81	11650132	0.12	500000	
Al	27	45	1	He	45099.527	45099.527	1.53	19439627	0.23	200000	
K	39	45	1	He	3564.486	3564.486	1.68	2380871	0.15	500000	
Ca	44	45	1	He	26378.766	26378.766	0.65	915513	2.88	500000	
Ti	47	45	1	He	376.389	376.389	0.44	77739	0.48	2500	
V	51	45	1	He	94.513	94.513	0.87	498988	0.02	10000	
Cr	52	45	1	He	86.613	86.613	1.00	563546	0.02	10000	
Mn	55	45	1	He	3514.509	3514.509	1.36	16095846	0.02	10000	
Fe	56	45	1	He	106876.772	106876.772	0.28	633618855	0.02	200000	
Co	59	103	1	He	41.541	41.541	3.71	405243	0.01	10000	
Ni	60	103	1	He	98.597	98.597	3.93	244643	0.04	10000	
Cu	63	103	1	He	61.276	61.276	3.88	407638	0.02	10000	
Zn	66	103	1	He	289.760	289.760	3.91	390551	0.07	10000	
As	75	103	1	He	52.943	52.943	3.92	45261	0.12	10000	
Se	78	103	1	He	4.170	4.170	3.75	322	1.30	10000	
Sr	88	103	1	He	55.449	55.449	4.15	281070	0.02	10000	
Mo	95	103	1	He	7.095	7.095	3.79	20024	0.04	2000	
Ag	107	103	1	He	0.168	0.168	10.72	1616	0.01	300	
Cd	111	103	1	He	0.868	0.868	7.82	2155	0.04	4000	
Sn	118	115	1	He	17.085	17.085	0.96	60549	0.03	2000	
Sb	123	115	1	He	0.591	0.591	1.44	3033	0.02	300	
Ba	137	115	1	He	290.298	290.298	0.80	425528	0.07	10000	
W	182	165	1	He	0.739	0.739	11.65	11268	0.01	2500	
Tl	205	209	1	He	0.816	0.816	2.95	20731	0.00	5000	
Pb	208	209	1	He	90.961	90.961	0.92	2983051	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1607789	1.22	1803797	89.13	30	120	
Sc	45	1	He	546363	0.29	574766	95.06	30	120	
Sc	45	2	NoGas	4330184	1.03	4296857	100.78	30	120	
Rh	103	1	He	1530182	4.08	1652712	92.59	30	120	
In	115	1	He	798671	0.63	852389	93.70	30	120	
Tb	159	1	He	2485280	0.57	2425956	102.45	30	120	
Ho	165	1	He	2571701	1.23	2452680	104.85	30	120	
Bi	209	1	He	1810020	0.68	1810473	99.97	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-4-b@2
Data File Name	130SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:45:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.626	2.626	0.87	13265	0.02	10000	
B	11	45	2	NoGas	34.590	34.590	2.39	129072	0.03	300	
Na	23	45	1	He	169.366	169.366	1.68	283335	0.06	500000	
Mg	24	45	1	He	13330.450	13330.450	0.81	11204402	0.12	500000	
Al	27	45	1	He	46166.447	46166.447	1.14	20178982	0.23	200000	
K	39	45	1	He	3948.787	3948.787	0.60	2667940	0.15	500000	
Ca	44	45	1	He	32257.121	32257.121	1.13	1135194	2.84	500000	
Ti	47	45	1	He	355.796	355.796	0.56	74520	0.48	2500	
V	51	45	1	He	93.288	93.288	1.42	499439	0.02	10000	
Cr	52	45	1	He	88.434	88.434	0.21	583427	0.02	10000	
Mn	55	45	1	He	2310.727	2310.727	0.89	10731489	0.02	10000	
Fe	56	45	1	He	109326.927	109326.927	0.17	657268881	0.02	200000	
Co	59	103	1	He	36.743	36.743	2.98	352913	0.01	10000	
Ni	60	103	1	He	101.450	101.450	2.92	247850	0.04	10000	
Cu	63	103	1	He	76.833	76.833	3.35	502661	0.02	10000	
Zn	66	103	1	He	310.567	310.567	2.98	412106	0.08	10000	
As	75	103	1	He	58.634	58.634	2.53	49343	0.12	10000	
Se	78	103	1	He	4.398	4.398	9.94	332	1.32	10000	
Sr	88	103	1	He	73.145	73.145	3.67	364998	0.02	10000	
Mo	95	103	1	He	6.795	6.795	3.86	18902	0.04	2000	
Ag	107	103	1	He	0.177	0.177	6.59	1681	0.01	300	
Cd	111	103	1	He	0.905	0.905	1.48	2182	0.04	4000	
Sn	118	115	1	He	18.797	18.797	1.19	66044	0.03	2000	
Sb	123	115	1	He	0.625	0.625	3.31	3135	0.02	300	
Ba	137	115	1	He	301.016	301.016	1.07	437909	0.07	10000	
W	182	165	1	He	0.433	0.433	3.11	7591	0.01	2500	
Tl	205	209	1	He	0.800	0.800	1.56	20246	0.00	5000	
Pb	208	209	1	He	100.024	100.024	0.14	3267824	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612968	2.41	1803797	89.42	30	120	
Sc	45	1	He	554048	0.62	574766	96.40	30	120	
Sc	45	2	NoGas	4378193	0.93	4296857	101.89	30	120	
Rh	103	1	He	1506091	3.42	1652712	91.13	30	120	
In	115	1	He	792737	1.24	852389	93.00	30	120	
Tb	159	1	He	2472482	0.23	2425956	101.92	30	120	
Ho	165	1	He	2512012	0.48	2452680	102.42	30	120	
Bi	209	1	He	1803136	0.36	1810473	99.59	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	131_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:48:53-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.404	2.860	236833	2.46	50	92.8	89.5	110.5	
B	11	45	2	NoGas	61.180	0.997	224311	0.76	50	122.4	89.5	110.5	CCV Failed
Na	23	45	1	He	25188.343	3.269	38025132	0.87	25000	100.8	89.5	110.5	
Mg	24	45	1	He	25062.730	2.267	21438500	0.39	25000	100.3	89.5	110.5	
Al	27	45	1	He	248.870	1.522	111454	0.95	250	99.5	89.5	110.5	
K	39	45	1	He	25994.556	3.034	17517078	0.68	25000	104.0	89.5	110.5	
Ca	44	45	1	He	24797.395	2.089	888254	0.47	25000	99.2	89.5	110.5	
Ti	47	45	1	He	50.154	2.571	10697	4.03	50	100.3	89.5	110.5	
V	51	45	1	He	51.056	1.712	278358	1.91	50	102.1	89.5	110.5	
Cr	52	45	1	He	50.285	1.529	338934	0.99	50	100.6	89.5	110.5	
Mn	55	45	1	He	251.786	1.873	1190326	1.09	250	100.7	89.5	110.5	
Fe	56	45	1	He	12734.251	2.135	77921379	0.78	12500	101.9	89.5	110.5	
Co	59	103	1	He	46.571	1.557	482503	1.46	50	93.1	89.5	110.5	
Ni	60	103	1	He	46.464	2.089	122495	1.85	50	92.9	89.5	110.5	
Cu	63	103	1	He	46.367	0.782	328209	0.60	50	92.7	89.5	110.5	
Zn	66	103	1	He	47.286	1.625	68389	1.33	50	94.6	89.5	110.5	
As	75	103	1	He	47.806	0.462	43428	0.33	50	95.6	89.5	110.5	
Se	78	103	1	He	47.908	1.450	3616	1.44	50	95.8	89.5	110.5	
Sr	88	103	1	He	49.094	0.415	264356	0.41	50	98.2	89.5	110.5	
Mo	95	103	1	He	49.054	2.476	142931	2.50	50	98.1	89.5	110.5	
Ag	107	103	1	He	48.948	0.798	491491	0.66	50	97.9	89.5	110.5	
Cd	111	103	1	He	49.251	0.686	83428	0.41	50	98.5	89.5	110.5	
Sn	118	115	1	He	49.828	0.818	185330	1.28	50	99.7	89.5	110.5	
Sb	123	115	1	He	52.714	0.800	207780	0.39	50	105.4	89.5	110.5	
Ba	137	115	1	He	52.718	1.690	81826	1.33	50	105.4	89.5	110.5	
W	182	165	1	He	47.081	0.269	545141	1.33	50	94.2	89.5	110.5	
Tl	205	209	1	He	47.134	1.635	1207231	1.06	50	94.3	89.5	110.5	
Pb	208	209	1	He	48.396	0.994	1631499	0.45	50	96.8	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1630467	0.75	1803797	90.39	30	120	
Sc	45	1	He	564070	2.47	574766	98.14	30	120	
Sc	45	2	NoGas	4389487	0.66	4296857	102.16	30	120	
Rh	103	1	He	1623545	0.29	1652712	98.24	30	120	
In	115	1	He	845652	0.68	852389	99.21	30	120	
Tb	159	1	He	2531013	1.35	2425956	104.33	30	120	
Ho	165	1	He	2588366	1.23	2452680	105.53	30	120	
Bi	209	1	He	1860133	0.57	1810473	102.74	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	132_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:52:45-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.072	21.0	382	22.1	1	
B	11	45	2	NoGas	15.957	2.4	64163	1.6	20	
Na	23	45	1	He	16.112	10.5	56075	3.2	400	
Mg	24	45	1	He	2.148	28.2	2689	17.7	1000	
Al	27	45	1	He	9.840	0.4	5015	1.0	50	
K	39	45	1	He	7.201	12.4	67091	0.7	1000	
Ca	44	45	1	He	4.533	9.2	712	3.0	1000	
Ti	47	45	1	He	0.165	15.9	36	14.3	20	
V	51	45	1	He	0.060	200.0	568	111.6	2	
Cr	52	45	1	He	-0.054	-28.7	2541	4.2	2	
Mn	55	45	1	He	0.202	13.4	1098	10.3	2	
Fe	56	45	1	He	18.127	22.2	114493	20.0	50	
Co	59	103	1	He	0.015	24.4	223	18.3	1	
Ni	60	103	1	He	0.016	38.8	142	12.0	2	
Cu	63	103	1	He	-0.157	-7.9	1408	6.3	2	
Zn	66	103	1	He	0.504	16.3	1626	8.1	20	
As	75	103	1	He	0.025	19.4	226	1.5	2	
Se	78	103	1	He	0.240	31.5	49	12.6	2	
Sr	88	103	1	He	0.025	94.3	284	45.2	10	
Mo	95	103	1	He	0.567	36.1	2437	25.5	2	
Ag	107	103	1	He	0.002	102.3	52	37.4	0.2	
Cd	111	103	1	He	0.045	27.3	953	2.9	0.2	
Sn	118	115	1	He	0.245	12.5	1837	6.2	10	
Sb	123	115	1	He	0.101	43.7	1339	13.3	1	
Ba	137	115	1	He	0.038	60.7	74	49.3	5	
W	182	165	1	He	0.875	17.9	13136	14.2	10	
Tl	205	209	1	He	0.043	21.3	1572	15.3	0.5	
Pb	208	209	1	He	0.037	4.9	2246	2.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1663877	1.21	1803797	92.24	30	120	
Sc	45	1	He	553222	1.28	574766	96.25	30	120	
Sc	45	2	NoGas	4477033	2.02	4296857	104.19	30	120	
Rh	103	1	He	1699587	0.66	1652712	102.84	30	120	
In	115	1	He	879114	0.22	852389	103.14	30	120	
Tb	159	1	He	2567816	1.41	2425956	105.85	30	120	
Ho	165	1	He	2632850	0.48	2452680	107.35	30	120	
Bi	209	1	He	1946129	0.26	1810473	107.49	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-8-d@2
Data File Name	133SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T18:56:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.450	1.450	2.83	7346	0.02	10000	
B	11	45	2	NoGas	31.456	31.456	0.84	119289	0.03	300	
Na	23	45	1	He	322.490	322.490	2.07	520460	0.06	500000	
Mg	24	45	1	He	17840.962	17840.962	1.30	15295830	0.12	500000	
Al	27	45	1	He	23681.301	23681.301	2.07	10557134	0.22	200000	
K	39	45	1	He	4230.697	4230.697	1.21	2910882	0.15	500000	
Ca	44	45	1	He	21749.058	21749.058	1.07	780822	2.79	500000	
Ti	47	45	1	He	220.968	220.968	1.31	47204	0.47	2500	
V	51	45	1	He	45.215	45.215	2.56	246995	0.02	10000	
Cr	52	45	1	He	41.717	41.717	1.36	282266	0.01	10000	
Mn	55	45	1	He	1777.706	1777.706	0.98	8420999	0.02	10000	
Fe	56	45	1	He	103105.501	103105.501	1.52	632195513	0.02	200000	
Co	59	103	1	He	33.701	33.701	2.30	334124	0.01	10000	
Ni	60	103	1	He	73.481	73.481	1.23	185345	0.04	10000	
Cu	63	103	1	He	83.640	83.640	1.85	564666	0.01	10000	
Zn	66	103	1	He	226.106	226.106	1.29	309945	0.07	10000	
As	75	103	1	He	95.321	95.321	2.23	82673	0.12	10000	
Se	78	103	1	He	2.794	2.794	6.91	228	1.23	10000	
Sr	88	103	1	He	45.242	45.242	2.16	233124	0.02	10000	
Mo	95	103	1	He	5.199	5.199	1.88	15080	0.03	2000	
Ag	107	103	1	He	0.085	0.085	6.83	848	0.01	300	
Cd	111	103	1	He	0.552	0.552	3.34	1684	0.03	4000	
Sn	118	115	1	He	16.844	16.844	3.63	61025	0.03	2000	
Sb	123	115	1	He	0.440	0.440	8.12	2528	0.02	300	
Ba	137	115	1	He	134.136	134.136	0.53	200952	0.07	10000	
W	182	165	1	He	0.432	0.432	15.09	7787	0.01	2500	
Tl	205	209	1	He	0.520	0.520	0.52	13740	0.00	5000	
Pb	208	209	1	He	48.585	48.585	1.13	1641146	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1617333	1.25	1803797	89.66	30	120	
Sc	45	1	He	565171	1.74	574766	98.33	30	120	
Sc	45	2	NoGas	4428912	1.60	4296857	103.07	30	120	
Rh	103	1	He	1553946	1.79	1652712	94.02	30	120	
In	115	1	He	816276	0.61	852389	95.76	30	120	
Tb	159	1	He	2515756	1.19	2425956	103.70	30	120	
Ho	165	1	He	2584166	1.79	2452680	105.36	30	120	
Bi	209	1	He	1863955	1.26	1810473	102.95	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-15-f@2
Data File Name	134SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:00:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.163	2.163	6.36	11252	0.02	10000	
B	11	45	2	NoGas	37.263	37.263	0.31	141684	0.03	300	
Na	23	45	1	He	346.941	346.941	0.68	562829	0.06	500000	
Mg	24	45	1	He	26250.821	26250.821	0.88	22719845	0.12	500000	
Al	27	45	1	He	38189.763	38189.763	0.20	17189991	0.22	200000	
K	39	45	1	He	6290.078	6290.078	0.83	4338115	0.14	500000	
Ca	44	45	1	He	32941.619	32941.619	1.24	1193678	2.76	500000	
Ti	47	45	1	He	294.058	294.058	0.72	63422	0.46	2500	
V	51	45	1	He	64.265	64.265	1.06	354397	0.02	10000	
Cr	52	45	1	He	62.855	62.855	0.71	427870	0.01	10000	
Mn	55	45	1	He	1053.316	1053.316	1.97	5037163	0.02	10000	
Fe	56	45	1	He	125536.520	125536.520	1.38	777133622	0.02	200000	
Co	59	103	1	He	46.976	46.976	0.99	472352	0.01	10000	
Ni	60	103	1	He	107.315	107.315	0.88	274472	0.04	10000	
Cu	63	103	1	He	99.548	99.548	1.15	681158	0.01	10000	
Zn	66	103	1	He	288.395	288.395	1.78	400675	0.07	10000	
As	75	103	1	He	70.189	70.189	1.90	61789	0.11	10000	
Se	78	103	1	He	3.797	3.797	5.47	304	1.25	10000	
Sr	88	103	1	He	83.702	83.702	1.13	437332	0.02	10000	
Mo	95	103	1	He	5.332	5.332	2.51	15669	0.03	2000	
Ag	107	103	1	He	0.097	0.097	8.65	971	0.01	300	
Cd	111	103	1	He	0.596	0.596	4.56	1781	0.03	4000	
Sn	118	115	1	He	16.733	16.733	2.88	61044	0.03	2000	
Sb	123	115	1	He	0.305	0.305	10.38	2028	0.02	300	
Ba	137	115	1	He	169.246	169.246	0.90	255317	0.07	10000	
W	182	165	1	He	0.229	0.229	13.22	5560	0.00	2500	
Tl	205	209	1	He	0.553	0.553	1.98	14385	0.00	5000	
Pb	208	209	1	He	54.332	54.332	0.65	1808411	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1661686	1.44	1803797	92.12	30	120	
Sc	45	1	He	570539	0.63	574766	99.26	30	120	
Sc	45	2	NoGas	4475522	0.53	4296857	104.16	30	120	
Rh	103	1	He	1575789	1.01	1652712	95.35	30	120	
In	115	1	He	821967	0.39	852389	96.43	30	120	
Tb	159	1	He	2551547	0.59	2425956	105.18	30	120	
Ho	165	1	He	2631023	1.02	2452680	107.27	30	120	
Bi	209	1	He	1836634	0.22	1810473	101.45	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-22-d@2
Data File Name	135SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:04:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.909	2.909	4.07	15014	0.02	10000	
B	11	45	2	NoGas	44.096	44.096	1.48	167550	0.03	300	
Na	23	45	1	He	340.549	340.549	0.92	560946	0.06	500000	
Mg	24	45	1	He	27770.576	27770.576	0.95	24378031	0.11	500000	
Al	27	45	1	He	44707.682	44707.682	1.24	20409595	0.22	200000	
K	39	45	1	He	7971.479	7971.479	1.01	5558522	0.14	500000	
Ca	44	45	1	He	27344.818	27344.818	0.34	1005128	2.72	500000	
Ti	47	45	1	He	305.773	305.773	0.56	66887	0.46	2500	
V	51	45	1	He	74.075	74.075	1.38	414237	0.02	10000	
Cr	52	45	1	He	71.897	71.897	0.25	495969	0.01	10000	
Mn	55	45	1	He	1679.229	1679.229	0.84	8145104	0.02	10000	
Fe	56	45	1	He	138871.775	138871.775	0.29	871976339	0.02	200000	
Co	59	103	1	He	55.390	55.390	1.13	556542	0.01	10000	
Ni	60	103	1	He	134.692	134.692	1.25	344213	0.04	10000	
Cu	63	103	1	He	92.706	92.706	1.01	634046	0.01	10000	
Zn	66	103	1	He	302.906	302.906	1.13	420509	0.07	10000	
As	75	103	1	He	83.556	83.556	0.68	73474	0.11	10000	
Se	78	103	1	He	4.106	4.106	4.76	326	1.26	10000	
Sr	88	103	1	He	86.782	86.782	0.54	453094	0.02	10000	
Mo	95	103	1	He	5.282	5.282	1.33	15519	0.03	2000	
Ag	107	103	1	He	0.117	0.117	0.52	1171	0.01	300	
Cd	111	103	1	He	0.629	0.629	8.27	1833	0.03	4000	
Sn	118	115	1	He	16.895	16.895	2.15	61378	0.03	2000	
Sb	123	115	1	He	0.341	0.341	8.08	2159	0.02	300	
Ba	137	115	1	He	218.343	218.343	0.27	328019	0.07	10000	
W	182	165	1	He	0.192	0.192	20.56	5160	0.00	2500	
Tl	205	209	1	He	0.675	0.675	1.97	17358	0.00	5000	
Pb	208	209	1	He	59.969	59.969	1.00	1982774	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1647773	1.35	1803797	91.35	30	120	
Sc	45	1	He	578671	0.78	574766	100.68	30	120	
Sc	45	2	NoGas	4502588	1.18	4296857	104.79	30	120	
Rh	103	1	He	1574630	0.89	1652712	95.28	30	120	
In	115	1	He	818567	0.36	852389	96.03	30	120	
Tb	159	1	He	2573351	0.65	2425956	106.08	30	120	
Ho	165	1	He	2647566	0.78	2452680	107.95	30	120	
Bi	209	1	He	1824660	1.35	1810473	100.78	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-34-d@2
Data File Name	136SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:08:03-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.220	2.220	2.75	11523	0.02	10000	
B	11	45	2	NoGas	33.688	33.688	1.76	130218	0.03	300	
Na	23	45	1	He	289.655	289.655	1.30	475459	0.06	500000	
Mg	24	45	1	He	26103.968	26103.968	1.23	22596583	0.12	500000	
Al	27	45	1	He	38204.831	38204.831	1.96	17198001	0.22	200000	
K	39	45	1	He	6005.610	6005.610	0.64	4145599	0.14	500000	
Ca	44	45	1	He	49250.666	49250.666	2.04	1785027	2.76	500000	
Ti	47	45	1	He	327.079	327.079	1.19	70554	0.46	2500	
V	51	45	1	He	63.942	63.942	2.38	352637	0.02	10000	
Cr	52	45	1	He	62.292	62.292	1.27	424125	0.01	10000	
Mn	55	45	1	He	1569.814	1569.814	1.55	7508762	0.02	10000	
Fe	56	45	1	He	121171.414	121171.414	0.48	750287810	0.02	200000	
Co	59	103	1	He	45.624	45.624	2.82	462307	0.01	10000	
Ni	60	103	1	He	107.866	107.866	3.13	277997	0.04	10000	
Cu	63	103	1	He	83.243	83.243	2.72	574404	0.01	10000	
Zn	66	103	1	He	265.976	265.976	2.88	372467	0.07	10000	
As	75	103	1	He	72.278	72.278	2.67	64121	0.11	10000	
Se	78	103	1	He	3.616	3.616	2.23	293	1.23	10000	
Sr	88	103	1	He	84.978	84.978	2.56	447445	0.02	10000	
Mo	95	103	1	He	4.360	4.360	1.44	13036	0.03	2000	
Ag	107	103	1	He	0.087	0.087	4.77	881	0.01	300	
Cd	111	103	1	He	0.502	0.502	5.13	1641	0.03	4000	
Sn	118	115	1	He	16.945	16.945	1.28	62063	0.03	2000	
Sb	123	115	1	He	0.267	0.267	15.38	1890	0.01	300	
Ba	137	115	1	He	197.830	197.830	1.57	299618	0.07	10000	
W	182	165	1	He	0.176	0.176	14.21	4945	0.00	2500	
Tl	205	209	1	He	0.654	0.654	1.44	17150	0.00	5000	
Pb	208	209	1	He	45.566	45.566	0.62	1535580	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1657471	1.12	1803797	91.89	30	120	
Sc	45	1	He	570659	1.10	574766	99.29	30	120	
Sc	45	2	NoGas	4529560	0.85	4296857	105.42	30	120	
Rh	103	1	He	1588661	2.66	1652712	96.12	30	120	
In	115	1	He	825268	0.77	852389	96.82	30	120	
Tb	159	1	He	2572580	1.08	2425956	106.04	30	120	
Ho	165	1	He	2636397	1.00	2452680	107.49	30	120	
Bi	209	1	He	1859376	0.30	1810473	102.70	30	120	

Sample Report

Sample Table

Sample Name	240-49171-b-19-a@2
Data File Name	137SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:11:51-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.465	0.465	14.25	2345	0.02	10000	
B	11	45	2	NoGas	17.344	17.344	2.16	67174	0.03	300	
Na	23	45	1	He	90.631	90.631	1.46	165331	0.05	500000	
Mg	24	45	1	He	882.472	882.472	0.79	736703	0.12	500000	
Al	27	45	1	He	5253.318	5253.318	0.93	2278649	0.23	200000	
K	39	45	1	He	943.895	943.895	1.00	679803	0.14	500000	
Ca	44	45	1	He	361.121	361.121	2.63	13151	2.75	500000	
Ti	47	45	1	He	83.466	83.466	4.09	17342	0.48	2500	
V	51	45	1	He	14.258	14.258	2.94	75935	0.02	10000	
Cr	52	45	1	He	12.334	12.334	0.26	83200	0.01	10000	
Mn	55	45	1	He	132.324	132.324	0.39	609841	0.02	10000	
Fe	56	45	1	He	15703.982	15703.982	0.71	93666950	0.02	200000	
Co	59	103	1	He	5.416	5.416	1.42	57063	0.01	10000	
Ni	60	103	1	He	15.065	15.065	1.54	40424	0.04	10000	
Cu	63	103	1	He	7.527	7.527	2.91	56214	0.01	10000	
Zn	66	103	1	He	133.058	133.058	1.95	194000	0.07	10000	
As	75	103	1	He	19.409	19.409	1.91	18030	0.11	10000	
Se	78	103	1	He	0.837	0.837	21.34	93	0.90	10000	
Sr	88	103	1	He	6.102	6.102	1.30	33513	0.02	10000	
Mo	95	103	1	He	2.994	2.994	3.40	9516	0.03	2000	
Ag	107	103	1	He	0.011	0.011	9.03	149	0.01	300	
Cd	111	103	1	He	0.117	0.117	29.67	1048	0.01	4000	
Sn	118	115	1	He	17.978	17.978	2.25	66750	0.03	2000	
Sb	123	115	1	He	0.172	0.172	9.77	1549	0.01	300	
Ba	137	115	1	He	27.736	27.736	0.77	42634	0.07	10000	
W	182	165	1	He	0.143	0.143	18.56	4497	0.00	2500	
Tl	205	209	1	He	0.148	0.148	1.31	4273	0.00	5000	
Pb	208	209	1	He	8.833	8.833	0.66	303606	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1611819	2.78	1803797	89.36	30	120	
Sc	45	1	He	549665	0.69	574766	95.63	30	120	
Sc	45	2	NoGas	4344376	1.54	4296857	101.11	30	120	
Rh	103	1	He	1649935	1.84	1652712	99.83	30	120	
In	115	1	He	837321	0.12	852389	98.23	30	120	
Tb	159	1	He	2538010	0.46	2425956	104.62	30	120	
Ho	165	1	He	2599745	1.00	2452680	106.00	30	120	
Bi	209	1	He	1891716	0.41	1810473	104.49	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-6-h@2
Data File Name	138SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:15:43-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4.020	4.020	2.74	20382	0.02	10000	
B	11	45	2	NoGas	21.004	21.004	0.32	83093	0.03	300	
Na	23	45	1	He	169.299	169.299	0.82	302233	0.06	500000	
Mg	24	45	1	He	10592.111	10592.111	0.53	9499575	0.11	500000	
Al	27	45	1	He	61338.254	61338.254	0.83	28606862	0.21	200000	
K	39	45	1	He	3807.753	3807.753	1.15	2747310	0.14	500000	
Ca	44	45	1	He	859.367	859.367	0.98	32843	2.62	500000	
Ti	47	45	1	He	525.817	525.817	1.03	117506	0.45	2500	
V	51	45	1	He	130.305	130.305	0.74	744273	0.02	10000	
Cr	52	45	1	He	100.147	100.147	0.36	704553	0.01	10000	
Mn	55	45	1	He	4279.221	4279.221	1.33	21205339	0.02	10000	
Fe	56	45	1	He	127276.121	127276.121	0.87	816421870	0.02	200000	
Co	59	103	1	He	59.050	59.050	1.48	607452	0.01	10000	
Ni	60	103	1	He	86.153	86.153	2.53	225434	0.04	10000	
Cu	63	103	1	He	72.162	72.162	1.43	505842	0.01	10000	
Zn	66	103	1	He	279.149	279.149	0.92	396845	0.07	10000	
As	75	103	1	He	61.550	61.550	1.52	55462	0.11	10000	
Se	78	103	1	He	5.932	5.932	5.49	470	1.26	10000	
Sr	88	103	1	He	17.804	17.804	1.58	95276	0.02	10000	
Mo	95	103	1	He	8.198	8.198	2.61	24279	0.03	2000	
Ag	107	103	1	He	0.178	0.178	1.76	1810	0.01	300	
Cd	111	103	1	He	0.725	0.725	2.86	2036	0.04	4000	
Sn	118	115	1	He	20.419	20.419	1.56	74564	0.03	2000	
Sb	123	115	1	He	0.501	0.501	10.67	2787	0.02	300	
Ba	137	115	1	He	468.205	468.205	0.56	708706	0.07	10000	
W	182	165	1	He	0.306	0.306	11.01	6435	0.00	2500	
Tl	205	209	1	He	0.843	0.843	0.86	22157	0.00	5000	
Pb	208	209	1	He	90.386	90.386	2.81	3067850	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1619480	1.17	1803797	89.78	30	120	
Sc	45	1	He	591161	0.45	574766	102.85	30	120	
Sc	45	2	NoGas	4506475	0.92	4296857	104.88	30	120	
Rh	103	1	He	1612241	1.26	1652712	97.55	30	120	
In	115	1	He	824777	0.67	852389	96.76	30	120	
Tb	159	1	He	2544432	0.72	2425956	104.88	30	120	
Ho	165	1	He	2618299	1.36	2452680	106.75	30	120	
Bi	209	1	He	1873904	1.88	1810473	103.50	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-8-f@2
Data File Name	139SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:19:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.908	3.908	2.53	18907	0.02	10000	
B	11	45	2	NoGas	22.320	22.320	0.50	83331	0.03	300	
Na	23	45	1	He	151.440	151.440	0.76	256549	0.06	500000	
Mg	24	45	1	He	11062.525	11062.525	1.20	9290142	0.12	500000	
Al	27	45	1	He	63111.826	63111.826	1.47	27562142	0.23	200000	
K	39	45	1	He	4053.661	4053.661	0.54	2734697	0.15	500000	
Ca	44	45	1	He	1296.503	1296.503	1.27	46114	2.81	500000	
Ti	47	45	1	He	567.558	567.558	0.21	118764	0.48	2500	
V	51	45	1	He	128.398	128.398	0.52	686712	0.02	10000	
Cr	52	45	1	He	89.418	89.418	0.28	589356	0.02	10000	
Mn	55	45	1	He	3154.505	3154.505	0.12	14637105	0.02	10000	
Fe	56	45	1	He	129056.212	129056.212	0.37	775172627	0.02	200000	
Co	59	103	1	He	52.604	52.604	1.86	495907	0.01	10000	
Ni	60	103	1	He	104.488	104.488	2.94	250523	0.04	10000	
Cu	63	103	1	He	83.764	83.764	2.59	537680	0.02	10000	
Zn	66	103	1	He	294.505	294.505	1.68	383627	0.08	10000	
As	75	103	1	He	59.071	59.071	1.81	48786	0.12	10000	
Se	78	103	1	He	5.981	5.981	7.00	434	1.38	10000	
Sr	88	103	1	He	25.244	25.244	2.48	123739	0.02	10000	
Mo	95	103	1	He	8.706	8.706	0.98	23596	0.04	2000	
Ag	107	103	1	He	0.121	0.121	8.71	1136	0.01	300	
Cd	111	103	1	He	0.966	0.966	8.80	2236	0.04	4000	
Sn	118	115	1	He	17.631	17.631	2.73	60873	0.03	2000	
Sb	123	115	1	He	0.626	0.626	7.46	3079	0.02	300	
Ba	137	115	1	He	449.679	449.679	0.86	642391	0.07	10000	
W	182	165	1	He	0.300	0.300	17.43	6224	0.00	2500	
Tl	205	209	1	He	0.892	0.892	0.15	22744	0.00	5000	
Pb	208	209	1	He	67.012	67.012	0.50	2209785	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1545131	0.87	1803797	85.66	30	120	
Sc	45	1	He	553548	0.28	574766	96.31	30	120	
Sc	45	2	NoGas	4271688	2.12	4296857	99.41	30	120	
Rh	103	1	He	1477601	1.70	1652712	89.40	30	120	
In	115	1	He	778419	0.70	852389	91.32	30	120	
Tb	159	1	He	2489118	1.54	2425956	102.60	30	120	
Ho	165	1	He	2561616	1.50	2452680	104.44	30	120	
Bi	209	1	He	1819757	0.28	1810473	100.51	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-10-h@2
Data File Name	140SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:23:17-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.876	1.876	8.11	8658	0.02	10000	
B	11	45	2	NoGas	17.910	17.910	3.67	62197	0.03	300	
Na	23	45	1	He	118.821	118.821	1.89	191046	0.06	500000	
Mg	24	45	1	He	6223.547	6223.547	1.75	4795372	0.13	500000	
Al	27	45	1	He	30542.849	30542.849	0.83	12237621	0.25	200000	
K	39	45	1	He	2762.665	2762.665	3.40	1728233	0.16	500000	
Ca	44	45	1	He	690.098	690.098	1.90	22759	3.03	500000	
Ti	47	45	1	He	430.993	430.993	0.88	82746	0.52	2500	
V	51	45	1	He	80.181	80.181	0.53	393516	0.02	10000	
Cr	52	45	1	He	92.557	92.557	0.18	559593	0.02	10000	
Mn	55	45	1	He	1528.935	1528.935	0.70	6508825	0.02	10000	
Fe	56	45	1	He	79971.608	79971.608	0.40	440711894	0.02	200000	
Co	59	103	1	He	32.009	32.009	0.31	288337	0.01	10000	
Ni	60	103	1	He	66.644	66.644	0.34	152720	0.04	10000	
Cu	63	103	1	He	28.478	28.478	0.18	176075	0.02	10000	
Zn	66	103	1	He	164.046	164.046	0.11	204487	0.08	10000	
As	75	103	1	He	59.589	59.589	0.62	47020	0.13	10000	
Se	78	103	1	He	2.894	2.894	3.76	214	1.35	10000	
Sr	88	103	1	He	11.679	11.679	1.61	54767	0.02	10000	
Mo	95	103	1	He	5.856	5.856	2.23	15356	0.04	2000	
Ag	107	103	1	He	0.103	0.103	2.78	930	0.01	300	
Cd	111	103	1	He	0.434	0.434	12.78	1359	0.03	4000	
Sn	118	115	1	He	17.568	17.568	1.15	59278	0.03	2000	
Sb	123	115	1	He	0.249	0.249	18.20	1681	0.01	300	
Ba	137	115	1	He	184.264	184.264	0.33	257262	0.07	10000	
W	182	165	1	He	0.231	0.231	7.37	5223	0.00	2500	
Tl	205	209	1	He	0.439	0.439	1.93	11052	0.00	5000	
Pb	208	209	1	He	38.395	38.395	0.39	1227105	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1474507	0.77	1803797	81.74	30	120	
Sc	45	1	He	507861	0.67	574766	88.36	30	120	
Sc	45	2	NoGas	3906392	0.33	4296857	90.91	30	120	
Rh	103	1	He	1411483	0.15	1652712	85.40	30	120	
In	115	1	He	760712	0.38	852389	89.24	30	120	
Tb	159	1	He	2366204	0.79	2425956	97.54	30	120	
Ho	165	1	He	2457831	1.24	2452680	100.21	30	120	
Bi	209	1	He	1763199	0.49	1810473	97.39	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	141_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:27:07-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.563	2.440	218793	2.32	50	95.1	89.5	110.5	
B	11	45	2	NoGas	54.852	0.407	185136	1.62	50	109.7	89.5	110.5	
Na	23	45	1	He	25341.469	0.985	34638207	0.26	25000	101.4	89.5	110.5	
Mg	24	45	1	He	25150.968	1.411	19475654	0.56	25000	100.6	89.5	110.5	
Al	27	45	1	He	248.630	2.912	100778	2.07	250	99.5	89.5	110.5	
K	39	45	1	He	25710.268	2.375	15686033	1.67	25000	102.8	89.5	110.5	
Ca	44	45	1	He	24938.475	1.753	808632	0.91	25000	99.8	89.5	110.5	
Ti	47	45	1	He	50.278	2.499	9702	1.52	50	100.6	89.5	110.5	
V	51	45	1	He	51.840	1.891	255815	1.80	50	103.7	89.5	110.5	
Cr	52	45	1	He	50.700	1.675	309298	1.07	50	101.4	89.5	110.5	
Mn	55	45	1	He	252.603	1.397	1080945	0.36	250	101.0	89.5	110.5	
Fe	56	45	1	He	12886.016	1.527	71377699	1.00	12500	103.1	89.5	110.5	
Co	59	103	1	He	48.379	0.499	440483	0.99	50	96.8	89.5	110.5	
Ni	60	103	1	He	48.123	0.878	111488	0.27	50	96.2	89.5	110.5	
Cu	63	103	1	He	47.945	0.554	298170	0.90	50	95.9	89.5	110.5	
Zn	66	103	1	He	48.998	0.233	62250	0.84	50	98.0	89.5	110.5	
As	75	103	1	He	49.704	0.473	39671	0.85	50	99.4	89.5	110.5	
Se	78	103	1	He	48.890	2.175	3242	1.41	50	97.8	89.5	110.5	
Sr	88	103	1	He	51.182	0.696	242178	0.74	50	102.4	89.5	110.5	
Mo	95	103	1	He	51.802	2.025	132610	2.41	50	103.6	89.5	110.5	
Ag	107	103	1	He	52.306	0.648	461541	0.81	50	104.6	89.5	110.5	
Cd	111	103	1	He	51.888	0.922	77198	0.45	50	103.8	89.5	110.5	
Sn	118	115	1	He	50.954	1.162	176486	0.93	50	101.9	89.5	110.5	
Sb	123	115	1	He	53.045	1.634	194716	0.17	50	106.1	89.5	110.5	
Ba	137	115	1	He	53.000	0.846	76620	0.83	50	106.0	89.5	110.5	
W	182	165	1	He	47.275	0.826	528246	1.99	50	94.5	89.5	110.5	
Tl	205	209	1	He	46.726	0.432	1162876	0.20	50	93.5	89.5	110.5	
Pb	208	209	1	He	48.474	0.199	1587810	0.24	50	96.9	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1469499	0.77	1803797	81.47	30	120	
Sc	45	1	He	510487	1.06	574766	88.82	30	120	
Sc	45	2	NoGas	4028305	1.36	4296857	93.75	30	120	
Rh	103	1	He	1426736	0.75	1652712	86.33	30	120	
In	115	1	He	787665	1.51	852389	92.41	30	120	
Tb	159	1	He	2430305	1.78	2425956	100.18	30	120	
Ho	165	1	He	2497875	1.62	2452680	101.84	30	120	
Bi	209	1	He	1807345	0.44	1810473	99.83	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	142_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:30:59-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.056	16.9	267	15.0	1	
B	11	45	2	NoGas	9.279	3.0	36047	1.8	20	
Na	23	45	1	He	14.810	11.3	49806	4.0	400	
Mg	24	45	1	He	2.121	13.6	2456	8.5	1000	
Al	27	45	1	He	9.571	2.3	4504	1.6	50	
K	39	45	1	He	12.625	28.0	64980	2.9	1000	
Ca	44	45	1	He	2.300	42.8	583	4.9	1000	
Ti	47	45	1	He	0.151	52.9	30	50.9	20	
V	51	45	1	He	0.047	214.7	460	106.9	2	
Cr	52	45	1	He	-0.046	-19.6	2388	1.7	2	
Mn	55	45	1	He	0.278	5.6	1335	4.4	2	
Fe	56	45	1	He	17.359	20.6	101148	19.0	50	
Co	59	103	1	He	0.008	42.4	129	24.0	1	
Ni	60	103	1	He	0.008	67.6	112	12.0	2	
Cu	63	103	1	He	-0.180	-6.7	1149	8.2	2	
Zn	66	103	1	He	0.456	5.3	1446	1.9	20	
As	75	103	1	He	-0.010	-326.6	180	15.6	2	
Se	78	103	1	He	0.052	152.6	32	17.0	2	
Sr	88	103	1	He	0.009	15.4	184	2.8	10	
Mo	95	103	1	He	0.678	29.4	2584	22.5	2	
Ag	107	103	1	He	0.001	192.9	39	40.5	0.2	
Cd	111	103	1	He	0.012	189.4	833	3.4	0.2	
Sn	118	115	1	He	0.189	13.5	1522	5.5	10	
Sb	123	115	1	He	0.089	45.7	1208	12.3	1	
Ba	137	115	1	He	0.024	51.1	49	37.6	5	
W	182	165	1	He	0.886	20.7	12743	16.1	10	
Tl	205	209	1	He	0.036	28.1	1330	20.5	0.5	
Pb	208	209	1	He	0.028	3.6	1878	2.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1502860	1.99	1803797	83.32	30	120	
Sc	45	1	He	508736	0.61	574766	88.51	30	120	
Sc	45	2	NoGas	4048664	0.75	4296857	94.22	30	120	
Rh	103	1	He	1581362	1.25	1652712	95.68	30	120	
In	115	1	He	824787	0.56	852389	96.76	30	120	
Tb	159	1	He	2456737	0.48	2425956	101.27	30	120	
Ho	165	1	He	2530352	0.50	2452680	103.17	30	120	
Bi	209	1	He	1869272	1.34	1810473	103.25	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	143CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:34:50-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.916	0.916	7.960	4475	6.43	1	91.6	69.5	130.5	
B	11	2	NoGas	25.682	25.682	1.150	92164	1.82	20	128.4	69.5	130.5	
Na	23	1	He	1075.838	1075.838	2.302	1546021	0.75	1000	107.6	69.5	130.5	
Mg	24	1	He	1040.414	1040.414	1.186	831839	0.55	1000	104.0	69.5	130.5	
Al	27	1	He	50.777	50.777	1.348	21777	0.51	50	101.6	69.5	130.5	
K	39	1	He	1051.449	1051.449	2.032	718599	0.63	1000	105.1	69.5	130.5	
Ca	44	1	He	1018.792	1018.792	1.540	34579	0.34	1000	101.9	69.5	130.5	
Ti	47	1	He	10.709	10.709	1.839	2132	1.15	10	107.1	69.5	130.5	
V	51	1	He	5.407	5.407	1.312	27737	1.16	5	108.1	69.5	130.5	
Cr	52	1	He	3.941	3.941	1.119	27341	0.69	2	197.0	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	5.629	5.629	0.604	25000	1.64	5	112.6	69.5	130.5	
Fe	56	1	He	116.909	116.909	1.185	673498	0.54	100	116.9	69.5	130.5	
Co	59	1	He	0.938	0.938	3.271	9543	2.84	1	93.8	69.5	130.5	
Ni	60	1	He	2.685	2.685	2.295	6997	1.27	2	134.3	69.5	130.5	6020A CR1 Failed
Cu	63	1	He	1.676	1.676	4.068	13880	3.01	2	83.8	69.5	130.5	
Zn	66	1	He	18.670	18.670	2.184	26851	1.07	20	93.4	69.5	130.5	
As	75	1	He	4.710	4.710	1.835	4348	1.05	5	94.2	69.5	130.5	
Se	78	1	He	4.866	4.866	1.757	384	2.56	5	97.3	69.5	130.5	
Sr	88	1	He	9.693	9.693	1.646	51062	1.38	10	96.9	69.5	130.5	
Mo	95	1	He	9.789	9.789	3.002	28376	1.99	10	97.9	69.5	130.5	
Ag	107	1	He	0.990	0.990	5.954	9735	4.90	1	99.0	69.5	130.5	
Cd	111	1	He	1.068	1.068	1.798	2564	0.96	1	106.8	69.5	130.5	
Sn	118	1	He	10.055	10.055	1.981	37524	2.09	10	100.5	69.5	130.5	
Sb	123	1	He	1.857	1.857	0.696	8059	0.29	2	92.9	69.5	130.5	
Ba	137	1	He	5.390	5.390	3.069	8255	3.39	5	107.8	69.5	130.5	
W	182	1	He	9.698	9.698	1.349	110292	0.59	10	97.0	69.5	130.5	
Tl	205	1	He	1.897	1.897	2.272	49093	1.02	2	94.8	69.5	130.5	
Pb	208	1	He	1.057	1.057	2.489	36602	0.49	1	105.7	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1560031	2.32	1803797	86.49	30	120	
Sc	45	1	He	526590	1.69	574766	91.62	30	120	
Sc	45	2	NoGas	4143717	1.12	4296857	96.44	30	120	
Rh	103	1	He	1585090	1.03	1652712	95.91	30	120	
In	115	1	He	833194	0.34	852389	97.75	30	120	
Tb	159	1	He	2440507	0.82	2425956	100.60	30	120	
Ho	165	1	He	2492603	1.18	2452680	101.63	30	120	
Bi	209	1	He	1865108	2.56	1810473	103.02	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176698/1-a@2
Data File Name	144_Blk.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:38:41-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.081	36.1	382	33.8	1	
B	11	45	2	NoGas	12.008	3.0	43957	1.9	20	
Na	23	45	1	He	47.714	3.2	95204	0.9	400	
Mg	24	45	1	He	38.006	2.7	30341	0.7	1000	
Al	27	45	1	He	27.423	1.2	11746	1.8	50	
K	39	45	1	He	41.625	4.6	83097	1.5	1000	
Ca	44	45	1	He	130.372	5.3	4752	5.9	1000	
Ti	47	45	1	He	0.461	27.3	90	25.9	20	
V	51	45	1	He	0.278	17.4	1604	13.1	2	
Cr	52	45	1	He	0.998	2.5	8734	1.4	2	
Mn	55	45	1	He	0.568	3.7	2586	3.4	2	
Fe	56	45	1	He	17.787	3.9	104318	5.6	50	
Co	59	103	1	He	0.098	2.6	986	4.2	1	
Ni	60	103	1	He	0.284	15.1	778	15.2	2	
Cu	63	103	1	He	0.311	13.4	4262	5.3	2	
Zn	66	103	1	He	3.366	3.9	5198	3.0	20	
As	75	103	1	He	0.504	7.5	598	6.5	2	
Se	78	103	1	He	0.480	10.2	60	6.3	2	
Sr	88	103	1	He	0.388	5.7	2052	7.1	10	
Mo	95	103	1	He	0.406	21.8	1711	12.1	2	
Ag	107	103	1	He	0.009	22.2	108	14.6	0.2	
Cd	111	103	1	He	0.043	20.5	836	1.5	0.2	
Sn	118	115	1	He	17.180	1.3	60691	1.5	10	Blank Failed
Sb	123	115	1	He	0.080	19.3	1135	5.3	1	
Ba	137	115	1	He	0.966	6.0	1423	5.7	5	
W	182	165	1	He	0.494	12.1	8228	7.7	10	
Tl	205	209	1	He	0.328	3.9	8717	4.5	0.5	
Pb	208	209	1	He	0.253	2.5	9342	2.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1501941	2.48	1803797	83.27	30	120	
Sc	45	1	He	512125	1.92	574766	89.10	30	120	
Sc	45	2	NoGas	3952267	1.01	4296857	91.98	30	120	
Rh	103	1	He	1495999	1.90	1652712	90.52	30	120	
In	115	1	He	796188	0.24	852389	93.41	30	120	
Tb	159	1	He	2409514	1.17	2425956	99.32	30	120	
Ho	165	1	He	2499075	0.44	2452680	101.89	30	120	
Bi	209	1	He	1839140	0.74	1810473	101.58	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176698/2-a@2
Data File Name	145LCSS.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:42:33-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	507.000	507.000	1.603	2363052	0.92	500	101.4	78.6	110.5	
B	11	2	NoGas	62.481	62.481	1.107	203655	0.49	50	125.0	79.5	120.5	LCSS Failed
Na	23	1	He	5041.215	5041.215	2.014	6825828	1.41	5000	100.8	79.5	120.5	
Mg	24	1	He	5022.529	5022.529	1.214	3840168	0.22	5000	100.5	79.5	120.5	
Al	27	1	He	4750.560	4750.560	1.852	1889127	0.66	5000	95.0	79.5	120.5	
K	39	1	He	5087.953	5087.953	1.256	3110208	0.11	5000	101.8	79.5	120.5	
Ca	44	1	He	4549.425	4549.425	0.913	146053	0.91	5000	91.0	79.5	120.5	
Ti	47	1	He	49.039	49.039	2.704	9341	1.56	50	98.1	79.5	120.5	
V	51	1	He	515.100	515.100	0.504	2507395	1.00	500	103.0	71.5	110.5	
Cr	52	1	He	508.692	508.692	1.044	3039902	0.73	500	101.7	69.5	110.5	
Mn	55	1	He	518.128	518.128	2.236	2188538	1.06	500	103.6	79.5	120.5	
Fe	56	1	He	5069.998	5069.998	1.787	27726301	0.49	5000	101.4	79.5	120.5	
Co	59	1	He	460.465	460.465	3.367	4325926	0.86	500	92.1	73.9	110.5	
Ni	60	1	He	450.424	450.424	3.533	1076111	0.56	500	90.1	74.9	110.5	
Cu	63	1	He	471.608	471.608	4.026	3006587	1.03	500	94.3	72.6	110.5	
Zn	66	1	He	444.310	444.310	2.076	576564	1.13	500	88.9	71.5	113.4	
As	75	1	He	439.435	439.435	2.662	360614	0.66	500	87.9	73.4	110.5	
Se	78	1	He	436.920	436.920	2.528	29696	0.48	500	87.4	64.6	110.5	
Sr	88	1	He	501.508	501.508	3.102	2448107	1.89	500	100.3	79.5	120.5	
Mo	95	1	He	51.639	51.639	2.836	136426	0.22	50	103.3	29.5	140.5	
Ag	107	1	He	49.212	49.212	2.801	448173	0.91	50	98.4	59.5	114.5	
Cd	111	1	He	475.790	475.790	2.006	724517	0.96	500	95.2	73.5	110.5	
Sn	118	1	He	558.568	558.568	2.642	1867209	2.02	500	111.7	79.5	120.5	
Sb	123	1	He	50.703	50.703	0.872	180435	0.26	50	101.4	67.5	113.4	
Ba	137	1	He	512.752	512.752	1.392	718306	0.53	500	102.6	69.5	110.5	
W	182	1	He	47.113	47.113	1.695	522524	0.98	50	94.2	74.6	125.4	
Tl	205	1	He	117.905	117.905	1.031	2924891	0.06	125	94.3	70.6	110.5	
Pb	208	1	He	479.461	479.461	0.991	15650206	0.60	500	95.9	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1489093	1.57	1803797	82.55	30	120	
Sc	45	1	He	503973	1.34	574766	87.68	30	120	
Sc	45	2	NoGas	3904705	1.44	4296857	90.87	30	120	
Rh	103	1	He	1473260	2.93	1652712	89.14	30	120	
In	115	1	He	763377	0.90	852389	89.56	30	120	
Tb	159	1	He	2407021	0.69	2425956	99.22	30	120	
Ho	165	1	He	2479712	1.71	2452680	101.10	30	120	
Bi	209	1	He	1802017	1.07	1810473	99.53	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-1-d@2
Data File Name	146SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:46:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.060	3.060	2.17	14343	0.02	10000	
B	11	45	2	NoGas	18.400	18.400	0.56	67330	0.03	300	
Na	23	45	1	He	121.408	121.408	1.14	206555	0.06	500000	
Mg	24	45	1	He	7393.597	7393.597	0.95	6048255	0.12	500000	
Al	27	45	1	He	39097.121	39097.121	0.77	16630609	0.24	200000	
K	39	45	1	He	3254.573	3254.573	1.41	2150402	0.15	500000	
Ca	44	45	1	He	619.993	619.993	2.48	21757	2.85	500000	
Ti	47	45	1	He	322.651	322.651	1.36	65758	0.49	2500	
V	51	45	1	He	109.797	109.797	0.73	572003	0.02	10000	
Cr	52	45	1	He	93.403	93.403	0.42	599519	0.02	10000	
Mn	55	45	1	He	7886.754	7886.754	0.80	35644560	0.02	10000	
Fe	56	45	1	He	193623.303	193623.303	0.87	1132755191	0.02	200000	
Co	59	103	1	He	58.043	58.043	0.57	524675	0.01	10000	
Ni	60	103	1	He	87.116	87.116	0.37	200317	0.04	10000	
Cu	63	103	1	He	56.993	56.993	0.88	351492	0.02	10000	
Zn	66	103	1	He	198.387	198.387	0.63	248026	0.08	10000	
As	75	103	1	He	73.410	73.410	0.70	58093	0.13	10000	
Se	78	103	1	He	5.192	5.192	4.42	365	1.42	10000	
Sr	88	103	1	He	22.704	22.704	1.05	106733	0.02	10000	
Mo	95	103	1	He	7.767	7.767	0.07	20246	0.04	2000	
Ag	107	103	1	He	0.095	0.095	3.12	857	0.01	300	
Cd	111	103	1	He	0.602	0.602	8.19	1609	0.04	4000	
Sn	118	115	1	He	18.076	18.076	1.90	61609	0.03	2000	
Sb	123	115	1	He	0.748	0.748	1.78	3478	0.02	300	
Ba	137	115	1	He	314.440	314.440	0.38	443587	0.07	10000	
W	182	165	1	He	0.714	0.714	14.42	10656	0.01	2500	
Tl	205	209	1	He	0.837	0.837	2.95	21004	0.00	5000	
Pb	208	209	1	He	68.699	68.699	0.36	2226032	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1497607	2.15	1803797	83.03	30	120	
Sc	45	1	He	539209	1.76	574766	93.81	30	120	
Sc	45	2	NoGas	4125599	1.33	4296857	96.01	30	120	
Rh	103	1	He	1416499	0.69	1652712	85.71	30	120	
In	115	1	He	768669	0.29	852389	90.18	30	120	
Tb	159	1	He	2438038	2.56	2425956	100.50	30	120	
Ho	165	1	He	2494561	0.84	2452680	101.71	30	120	
Bi	209	1	He	1788168	0.70	1810473	98.77	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49171-a-1-d@10
Data File Name	147SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:50:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.623	0.623	2.96	2826	0.02	10000	
B	11	45	2	NoGas	9.176	9.176	2.74	34447	0.03	300	
Na	23	45	1	He	31.918	31.918	4.84	72479	0.04	500000	
Mg	24	45	1	He	1555.011	1555.011	4.29	1190492	0.13	500000	
Al	27	45	1	He	8281.975	8281.975	3.91	3295998	0.25	200000	
K	39	45	1	He	660.173	660.173	2.82	453474	0.15	500000	
Ca	44	45	1	He	123.468	123.468	4.50	4457	2.77	500000	
Ti	47	45	1	He	67.930	67.930	4.49	12954	0.52	2500	
V	51	45	1	He	23.012	23.012	3.30	112329	0.02	10000	
Cr	52	45	1	He	19.676	19.676	2.91	120238	0.02	10000	
Mn	55	45	1	He	1666.115	1666.115	3.20	7044336	0.02	10000	
Fe	56	45	1	He	41676.731	41676.731	3.08	228120009	0.02	200000	
Co	59	103	1	He	11.482	11.482	1.02	104003	0.01	10000	
Ni	60	103	1	He	17.303	17.303	1.10	39919	0.04	10000	
Cu	63	103	1	He	11.469	11.469	0.66	72555	0.02	10000	
Zn	66	103	1	He	41.101	41.101	0.73	52046	0.08	10000	
As	75	103	1	He	14.723	14.723	1.15	11805	0.12	10000	
Se	78	103	1	He	1.123	1.123	2.84	99	1.13	10000	
Sr	88	103	1	He	4.465	4.465	1.58	21123	0.02	10000	
Mo	95	103	1	He	1.316	1.316	1.02	3933	0.03	2000	
Ag	107	103	1	He	0.015	0.015	36.06	156	0.01	300	
Cd	111	103	1	He	0.141	0.141	28.09	937	0.02	4000	
Sn	118	115	1	He	3.314	3.314	5.24	12072	0.03	2000	
Sb	123	115	1	He	0.029	0.029	85.08	924	0.00	300	
Ba	137	115	1	He	62.978	62.978	1.10	89880	0.07	10000	
W	182	165	1	He	0.112	0.112	17.04	3908	0.00	2500	
Tl	205	209	1	He	0.166	0.166	3.73	4607	0.00	5000	
Pb	208	209	1	He	13.520	13.520	0.84	450542	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1447831	0.45	1803797	80.27	30	120	
Sc	45	1	He	504705	2.96	574766	87.81	30	120	
Sc	45	2	NoGas	3904967	0.50	4296857	90.88	30	120	
Rh	103	1	He	1418832	0.55	1652712	85.85	30	120	
In	115	1	He	777547	0.16	852389	91.22	30	120	
Tb	159	1	He	2405165	0.59	2425956	99.14	30	120	
Ho	165	1	He	2454504	1.18	2452680	100.07	30	120	
Bi	209	1	He	1836129	1.06	1810473	101.42	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49171-a-1-d@2
Data File Name	148SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:53:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1110.767	1110.767	1.79	4939763	0.02	10000	
B	11	45	2	NoGas	119.174	119.174	1.35	396476	0.03	300	
Na	23	45	1	He	9868.949	9868.949	1.67	13448211	0.07	500000	
Mg	24	45	1	He	16999.070	16999.070	1.52	13106090	0.13	500000	
Al	27	45	1	He	46700.653	46700.653	2.79	18722535	0.25	200000	
K	39	45	1	He	13123.286	13123.286	2.52	7999242	0.16	500000	
Ca	44	45	1	He	9646.112	9646.112	1.97	311722	3.09	500000	
Ti	47	45	1	He	410.821	410.821	1.11	78932	0.52	2500	
V	51	45	1	He	1138.722	1138.722	2.67	5589216	0.02	10000	
Cr	52	45	1	He	1109.367	1109.367	3.31	6681566	0.02	10000	
Mn	55	45	1	He	8654.903	8654.903	1.40	36870552	0.02	10000	
Fe	56	45	1	He	199915.534	199915.534	2.07	1102401343	0.02	200000	
Co	59	103	1	He	1080.915	1080.915	0.83	9194584	0.01	10000	
Ni	60	103	1	He	1131.710	1131.710	0.83	2448123	0.05	10000	
Cu	63	103	1	He	1091.632	1091.632	1.70	6299017	0.02	10000	
Zn	66	103	1	He	1187.218	1187.218	1.96	1393359	0.09	10000	
As	75	103	1	He	1070.692	1070.692	1.00	795198	0.13	10000	
Se	78	103	1	He	986.079	986.079	0.70	60642	1.63	10000	
Sr	88	103	1	He	1137.063	1137.063	0.97	5024760	0.02	10000	
Mo	95	103	1	He	125.776	125.776	0.68	300040	0.04	2000	
Ag	107	103	1	He	109.237	109.237	0.60	900575	0.01	300	
Cd	111	103	1	He	1097.754	1097.754	2.64	1512078	0.07	4000	
Sn	118	115	1	He	1212.764	1212.764	0.55	3761767	0.03	2000	
Sb	123	115	1	He	113.455	113.455	1.02	373782	0.03	300	
Ba	137	115	1	He	1558.586	1558.586	1.54	2026333	0.08	10000	
W	182	165	1	He	99.960	99.960	1.20	1081641	0.01	2500	
Tl	205	209	1	He	272.197	272.197	1.83	5914638	0.00	5000	
Pb	208	209	1	He	1198.967	1198.967	1.44	34282838	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1420627	0.28	1803797	78.76	30	120	
Sc	45	1	He	508308	1.85	574766	88.44	30	120	
Sc	45	2	NoGas	4035111	0.11	4296857	93.91	30	120	
Rh	103	1	He	1333082	0.73	1652712	80.66	30	120	
In	115	1	He	708415	0.46	852389	83.11	30	120	
Tb	159	1	He	2352986	0.08	2425956	96.99	30	120	
Ho	165	1	He	2425697	1.31	2452680	98.90	30	120	
Bi	209	1	He	1578808	1.93	1810473	87.20	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-1-e du@2
Data File Name	149SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T19:57:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.338	3.338	1.49	15251	0.02	10000	
B	11	45	2	NoGas	19.038	19.038	0.84	70478	0.03	300	
Na	23	45	1	He	127.362	127.362	2.72	210064	0.06	500000	
Mg	24	45	1	He	7797.777	7797.777	2.33	6227798	0.13	500000	
Al	27	45	1	He	43650.943	43650.943	1.43	18131508	0.24	200000	
K	39	45	1	He	3788.002	3788.002	2.25	2434348	0.16	500000	
Ca	44	45	1	He	667.941	667.941	1.30	22852	2.92	500000	
Ti	47	45	1	He	304.584	304.584	1.65	60616	0.50	2500	
V	51	45	1	He	115.724	115.724	1.77	588653	0.02	10000	
Cr	52	45	1	He	101.627	101.627	1.91	636657	0.02	10000	
Mn	55	45	1	He	6413.884	6413.884	1.48	28304731	0.02	10000	
Fe	56	45	1	He	191143.318	191143.318	2.10	1091862001	0.02	200000	
Co	59	103	1	He	50.903	50.903	1.10	445079	0.01	10000	
Ni	60	103	1	He	87.821	87.821	0.87	195338	0.04	10000	
Cu	63	103	1	He	57.737	57.737	0.44	344411	0.02	10000	
Zn	66	103	1	He	204.667	204.667	1.23	247467	0.08	10000	
As	75	103	1	He	71.574	71.574	0.56	54790	0.13	10000	
Se	78	103	1	He	5.873	5.873	8.18	396	1.48	10000	
Sr	88	103	1	He	25.274	25.274	0.52	114917	0.02	10000	
Mo	95	103	1	He	8.451	8.451	4.64	21253	0.04	2000	
Ag	107	103	1	He	0.100	0.100	8.90	870	0.01	300	
Cd	111	103	1	He	0.708	0.708	5.85	1707	0.04	4000	
Sn	118	115	1	He	18.452	18.452	2.71	61270	0.03	2000	
Sb	123	115	1	He	0.974	0.974	3.47	4176	0.02	300	
Ba	137	115	1	He	313.060	313.060	0.26	430404	0.07	10000	
W	182	165	1	He	1.555	1.555	22.00	19709	0.01	2500	
Tl	205	209	1	He	1.135	1.135	9.97	27010	0.00	5000	
Pb	208	209	1	He	71.333	71.333	1.94	2206227	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1459037	1.36	1803797	80.89	30	120	
Sc	45	1	He	526534	1.47	574766	91.61	30	120	
Sc	45	2	NoGas	4185602	1.15	4296857	97.41	30	120	
Rh	103	1	He	1370222	1.03	1652712	82.91	30	120	
In	115	1	He	749111	0.40	852389	87.88	30	120	
Tb	159	1	He	2407056	0.84	2425956	99.22	30	120	
Ho	165	1	He	2463407	1.24	2452680	100.44	30	120	
Bi	209	1	He	1707271	2.11	1810473	94.30	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-1-f ms@2
Data File Name	150SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:01:18-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	51.285	51.285	1.53	222658	0.02	10000	
B	11	45	2	NoGas	53.938	53.938	1.14	181053	0.03	300	
Na	23	45	1	He	4563.767	4563.767	1.53	6297244	0.07	500000	
Mg	24	45	1	He	12261.050	12261.050	2.14	9547637	0.13	500000	
Al	27	45	1	He	48951.408	48951.408	0.85	19824263	0.25	200000	
K	39	45	1	He	7333.256	7333.256	1.38	4541351	0.16	500000	
Ca	44	45	1	He	4985.415	4985.415	0.89	162979	3.06	500000	
Ti	47	45	1	He	409.332	409.332	0.86	79431	0.52	2500	
V	51	45	1	He	167.737	167.737	1.54	831789	0.02	10000	
Cr	52	45	1	He	141.865	141.865	1.27	865469	0.02	10000	
Mn	55	45	1	He	7666.386	7666.386	0.11	32988613	0.02	10000	
Fe	56	45	1	He	204035.068	204035.068	0.87	1136469075	0.02	200000	>LDR
Co	59	103	1	He	105.135	105.135	0.23	919739	0.01	10000	
Ni	60	103	1	He	130.042	130.042	1.04	289366	0.04	10000	
Cu	63	103	1	He	101.404	101.404	0.56	603662	0.02	10000	
Zn	66	103	1	He	249.323	249.323	0.59	301498	0.08	10000	
As	75	103	1	He	120.511	120.511	0.25	92193	0.13	10000	
Se	78	103	1	He	47.132	47.132	1.22	3004	1.57	10000	
Sr	88	103	1	He	72.062	72.062	0.27	327605	0.02	10000	
Mo	95	103	1	He	58.155	58.155	0.27	142978	0.04	2000	
Ag	107	103	1	He	47.562	47.562	0.53	403273	0.01	300	
Cd	111	103	1	He	47.641	47.641	1.11	68171	0.07	4000	
Sn	118	115	1	He	57.476	57.476	1.00	187789	0.03	2000	
Sb	123	115	1	He	16.383	16.383	1.20	57304	0.03	300	
Ba	137	115	1	He	363.683	363.683	1.20	496144	0.07	10000	
W	182	165	1	He	32.760	32.760	2.02	361592	0.01	2500	
Tl	205	209	1	He	41.972	41.972	1.14	1008183	0.00	5000	
Pb	208	209	1	He	121.500	121.500	1.94	3839589	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1387034	2.00	1803797	76.90	30	120	
Sc	45	1	He	513341	0.97	574766	89.31	30	120	
Sc	45	2	NoGas	4004541	1.99	4296857	93.20	30	120	
Rh	103	1	He	1370951	0.35	1652712	82.95	30	120	
In	115	1	He	743328	0.28	852389	87.21	30	120	
Tb	159	1	He	2401698	1.35	2425956	99.00	30	120	
Ho	165	1	He	2461879	0.44	2452680	100.38	30	120	
Bi	209	1	He	1744499	1.49	1810473	96.36	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-2-b@2
Data File Name	151SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:05:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.425	3.425	1.30	15136	0.02	10000	
B	11	45	2	NoGas	20.684	20.684	1.61	74940	0.03	300	
Na	23	45	1	He	166.010	166.010	1.49	262935	0.06	500000	
Mg	24	45	1	He	11633.430	11633.430	0.25	9236410	0.13	500000	
Al	27	45	1	He	59081.083	59081.083	0.81	24392191	0.24	200000	
K	39	45	1	He	5204.087	5204.087	2.04	3302052	0.16	500000	
Ca	44	45	1	He	906.704	906.704	2.24	30643	2.96	500000	
Ti	47	45	1	He	344.747	344.747	1.62	68196	0.51	2500	
V	51	45	1	He	119.352	119.352	0.79	603482	0.02	10000	
Cr	52	45	1	He	104.174	104.174	1.44	648625	0.02	10000	
Mn	55	45	1	He	3181.564	3181.564	1.89	13955437	0.02	10000	
Fe	56	45	1	He	176164.622	176164.622	1.33	1000299054	0.02	200000	
Co	59	103	1	He	48.291	48.291	0.52	426745	0.01	10000	
Ni	60	103	1	He	101.890	101.890	0.54	229025	0.04	10000	
Cu	63	103	1	He	87.957	87.957	0.17	529178	0.02	10000	
Zn	66	103	1	He	255.635	255.635	0.15	312228	0.08	10000	
As	75	103	1	He	78.379	78.379	0.26	60624	0.13	10000	
Se	78	103	1	He	6.442	6.442	5.87	436	1.48	10000	
Sr	88	103	1	He	36.576	36.576	0.86	168012	0.02	10000	
Mo	95	103	1	He	8.793	8.793	0.32	22331	0.04	2000	
Ag	107	103	1	He	0.087	0.087	4.13	774	0.01	300	
Cd	111	103	1	He	0.753	0.753	3.18	1790	0.04	4000	
Sn	118	115	1	He	17.497	17.497	2.62	58304	0.03	2000	
Sb	123	115	1	He	0.915	0.915	2.90	3981	0.02	300	
Ba	137	115	1	He	387.123	387.123	0.30	533691	0.07	10000	
W	182	165	1	He	0.688	0.688	12.96	10471	0.01	2500	
Tl	205	209	1	He	1.039	1.039	0.31	25567	0.00	5000	
Pb	208	209	1	He	89.585	89.585	1.67	2857317	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1411718	1.81	1803797	78.26	30	120	
Sc	45	1	He	523339	0.99	574766	91.05	30	120	
Sc	45	2	NoGas	4122314	0.74	4296857	95.94	30	120	
Rh	103	1	He	1384783	0.29	1652712	83.79	30	120	
In	115	1	He	751176	0.30	852389	88.13	30	120	
Tb	159	1	He	2458106	1.23	2425956	101.33	30	120	
Ho	165	1	He	2519458	0.61	2452680	102.72	30	120	
Bi	209	1	He	1760655	1.89	1810473	97.25	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-4-b@2
Data File Name	152SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:08:54-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.885	2.885	3.40	12653	0.02	10000	
B	11	45	2	NoGas	62.968	62.968	1.16	207552	0.03	300	
Na	23	45	1	He	1804.266	1804.266	2.15	2462404	0.07	500000	
Mg	24	45	1	He	12413.228	12413.228	0.88	9492095	0.13	500000	
Al	27	45	1	He	44862.271	44862.271	0.60	17839933	0.25	200000	
K	39	45	1	He	16499.826	16499.826	1.19	9961888	0.17	500000	
Ca	44	45	1	He	133.747	133.747	25.27	4779	2.80	500000	
Ti	47	45	1	He	397.708	397.708	0.18	75782	0.52	2500	
V	51	45	1	He	79.346	79.346	1.94	386482	0.02	10000	
Cr	52	45	1	He	81.609	81.609	0.35	490012	0.02	10000	
Mn	55	45	1	He	6276.349	6276.349	0.99	26517594	0.02	10000	
Fe	56	45	1	He	112422.379	112422.379	0.96	614903069	0.02	200000	
Co	59	103	1	He	42.601	42.601	0.69	371283	0.01	10000	
Ni	60	103	1	He	106.250	106.250	0.37	235531	0.05	10000	
Cu	63	103	1	He	95.820	95.820	0.20	568344	0.02	10000	
Zn	66	103	1	He	241.121	241.121	0.82	290474	0.08	10000	
As	75	103	1	He	200.770	200.770	0.22	152894	0.13	10000	
Se	78	103	1	He	3.755	3.755	3.57	261	1.44	10000	
Sr	88	103	1	He	2336.345	2336.345	0.63	10576956	0.02	10000	
Mo	95	103	1	He	672.381	672.381	0.43	1640651	0.04	2000	
Ag	107	103	1	He	0.082	0.082	11.67	716	0.01	300	
Cd	111	103	1	He	0.546	0.546	9.90	1472	0.04	4000	
Sn	118	115	1	He	17.020	17.020	3.09	55818	0.03	2000	
Sb	123	115	1	He	0.410	0.410	4.46	2186	0.02	300	
Ba	137	115	1	He	339.309	339.309	0.45	460267	0.07	10000	
W	182	165	1	He	11.235	11.235	1.95	124575	0.01	2500	
Tl	205	209	1	He	0.575	0.575	1.82	14103	0.00	5000	
Pb	208	209	1	He	403.796	403.796	2.49	12670338	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1400460	0.97	1803797	77.64	30	120	
Sc	45	1	He	504055	0.70	574766	87.70	30	120	
Sc	45	2	NoGas	3949519	1.59	4296857	91.92	30	120	
Rh	103	1	He	1365683	0.34	1652712	82.63	30	120	
In	115	1	He	739114	0.43	852389	86.71	30	120	
Tb	159	1	He	2366157	0.47	2425956	97.54	30	120	
Ho	165	1	He	2438442	1.07	2452680	99.42	30	120	
Bi	209	1	He	1732691	1.91	1810473	95.70	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	153_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:12:39-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.286	0.842	209416	0.53	50	94.6	89.5	110.5	
B	11	45	2	NoGas	50.892	1.149	164509	0.89	50	101.8	89.5	110.5	
Na	23	45	1	He	25530.690	2.179	33417129	0.81	25000	102.1	89.5	110.5	
Mg	24	45	1	He	25411.837	0.818	18847152	1.34	25000	101.6	89.5	110.5	
Al	27	45	1	He	251.070	1.353	97466	0.89	250	100.4	89.5	110.5	
K	39	45	1	He	26173.217	2.630	15290331	0.80	25000	104.7	89.5	110.5	
Ca	44	45	1	He	25412.811	2.323	789077	0.60	25000	101.7	89.5	110.5	
Ti	47	45	1	He	52.106	3.527	9627	1.47	50	104.2	89.5	110.5	
V	51	45	1	He	52.296	1.233	247148	1.22	50	104.6	89.5	110.5	
Cr	52	45	1	He	52.019	1.472	303855	0.72	50	104.0	89.5	110.5	
Mn	55	45	1	He	261.140	1.257	1070246	0.90	250	104.5	89.5	110.5	
Fe	56	45	1	He	13253.887	1.672	70307191	0.46	12500	106.0	89.5	110.5	
Co	59	103	1	He	47.367	0.849	426282	0.95	50	94.7	89.5	110.5	
Ni	60	103	1	He	47.384	0.817	108513	0.89	50	94.8	89.5	110.5	
Cu	63	103	1	He	47.449	0.653	291694	0.54	50	94.9	89.5	110.5	
Zn	66	103	1	He	49.169	0.537	61743	0.66	50	98.3	89.5	110.5	
As	75	103	1	He	49.429	0.606	38997	0.46	50	98.9	89.5	110.5	
Se	78	103	1	He	48.683	0.258	3191	0.20	50	97.4	89.5	110.5	
Sr	88	103	1	He	51.753	0.481	242055	0.31	50	103.5	89.5	110.5	
Mo	95	103	1	He	59.063	1.621	149364	1.59	50	118.1	89.5	110.5	CCV Failed
Ag	107	103	1	He	51.806	1.150	451846	1.08	50	103.6	89.5	110.5	
Cd	111	103	1	He	52.944	0.981	77847	0.80	50	105.9	89.5	110.5	
Sn	118	115	1	He	50.499	0.239	173524	0.08	50	101.0	89.5	110.5	
Sb	123	115	1	He	53.108	0.981	193406	0.81	50	106.2	89.5	110.5	
Ba	137	115	1	He	52.677	0.571	75546	0.34	50	105.4	89.5	110.5	
W	182	165	1	He	47.627	2.696	526952	2.23	50	95.3	89.5	110.5	
Tl	205	209	1	He	47.096	0.906	1162368	0.43	50	94.2	89.5	110.5	
Pb	208	209	1	He	48.315	0.881	1569511	0.80	50	96.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1414837	1.36	1803797	78.44	30	120	
Sc	45	1	He	488953	2.15	574766	85.07	30	120	
Sc	45	2	NoGas	3849288	0.63	4296857	89.58	30	120	
Rh	103	1	He	1410251	0.17	1652712	85.33	30	120	
In	115	1	He	781330	0.32	852389	91.66	30	120	
Tb	159	1	He	2406374	0.09	2425956	99.19	30	120	
Ho	165	1	He	2473678	0.50	2452680	100.86	30	120	
Bi	209	1	He	1792403	0.58	1810473	99.00	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	154_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:16:29-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.112	22.8	504	22.6	1	
B	11	45	2	NoGas	6.124	2.0	24825	2.3	20	
Na	23	45	1	He	11.034	12.2	43256	2.7	400	
Mg	24	45	1	He	2.147	33.4	2393	20.7	1000	
Al	27	45	1	He	9.205	6.3	4218	3.7	50	
K	39	45	1	He	10.887	14.1	61921	0.3	1000	
Ca	44	45	1	He	1.652	81.4	545	9.5	1000	
Ti	47	45	1	He	0.073	39.0	14	35.3	20	
V	51	45	1	He	0.036	139.9	393	59.2	2	
Cr	52	45	1	He	-0.048	-47.7	2300	4.4	2	
Mn	55	45	1	He	1.413	3.9	5978	2.5	2	
Fe	56	45	1	He	24.518	15.4	136110	13.2	50	
Co	59	103	1	He	0.024	25.6	279	21.7	1	
Ni	60	103	1	He	0.016	76.8	123	24.0	2	
Cu	63	103	1	He	-0.150	-9.4	1265	6.6	2	
Zn	66	103	1	He	0.436	13.8	1325	6.6	20	
As	75	103	1	He	0.028	71.8	200	9.2	2	
Se	78	103	1	He	0.173	69.5	38	20.9	2	
Sr	88	103	1	He	0.044	19.0	341	12.8	10	
Mo	95	103	1	He	1.496	15.1	4568	13.1	2	
Ag	107	103	1	He	0.005	32.4	71	19.0	0.2	
Cd	111	103	1	He	0.042	20.7	823	0.8	0.2	
Sn	118	115	1	He	0.200	31.0	1522	13.7	10	
Sb	123	115	1	He	0.062	50.6	1078	10.2	1	
Ba	137	115	1	He	0.040	42.7	72	35.9	5	
W	182	165	1	He	0.919	13.8	12761	9.9	10	
Tl	205	209	1	He	0.054	16.1	1797	11.9	0.5	
Pb	208	209	1	He	0.053	7.2	2682	5.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1425765	0.59	1803797	79.04	30	120	
Sc	45	1	He	492810	1.71	574766	85.74	30	120	
Sc	45	2	NoGas	3915603	0.87	4296857	91.13	30	120	
Rh	103	1	He	1476997	0.84	1652712	89.37	30	120	
In	115	1	He	804165	0.78	852389	94.34	30	120	
Tb	159	1	He	2382992	1.17	2425956	98.23	30	120	
Ho	165	1	He	2464316	0.99	2452680	100.47	30	120	
Bi	209	1	He	1856986	0.93	1810473	102.57	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-11-b@2
Data File Name	155SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:20:21-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.487	2.487	6.45	10800	0.02	10000	
B	11	45	2	NoGas	18.078	18.078	2.73	63435	0.03	300	
Na	23	45	1	He	312.853	312.853	1.94	458972	0.07	500000	
Mg	24	45	1	He	8600.712	8600.712	1.70	6689326	0.13	500000	
Al	27	45	1	He	55390.135	55390.135	3.27	22397015	0.25	200000	
K	39	45	1	He	3590.297	3590.297	2.22	2249582	0.16	500000	
Ca	44	45	1	He	5080.485	5080.485	1.85	165856	3.06	500000	
Ti	47	45	1	He	602.527	602.527	2.29	116756	0.52	2500	
V	51	45	1	He	106.100	106.100	3.05	525466	0.02	10000	
Cr	52	45	1	He	82.952	82.952	2.53	506475	0.02	10000	
Mn	55	45	1	He	4407.583	4407.583	2.99	18936670	0.02	10000	
Fe	56	45	1	He	84230.347	84230.347	2.46	468505741	0.02	200000	
Co	59	103	1	He	39.237	39.237	0.72	344693	0.01	10000	
Ni	60	103	1	He	104.275	104.275	0.54	233001	0.04	10000	
Cu	63	103	1	He	47.889	47.889	0.60	287352	0.02	10000	
Zn	66	103	1	He	243.420	243.420	0.70	295579	0.08	10000	
As	75	103	1	He	77.284	77.284	0.31	59426	0.13	10000	
Se	78	103	1	He	5.136	5.136	3.72	351	1.46	10000	
Sr	88	103	1	He	78.935	78.935	1.81	360305	0.02	10000	
Mo	95	103	1	He	8.879	8.879	0.79	22411	0.04	2000	
Ag	107	103	1	He	0.147	0.147	3.15	1278	0.01	300	
Cd	111	103	1	He	0.676	0.676	10.54	1668	0.04	4000	
Sn	118	115	1	He	16.812	16.812	0.40	56268	0.03	2000	
Sb	123	115	1	He	0.573	0.573	7.58	2799	0.02	300	
Ba	137	115	1	He	395.576	395.576	0.30	547477	0.07	10000	
W	182	165	1	He	0.571	0.571	4.02	8947	0.01	2500	
Tl	205	209	1	He	0.912	0.912	0.89	22499	0.00	5000	
Pb	208	209	1	He	48.339	48.339	1.35	1543359	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1387539	2.84	1803797	76.92	30	120	
Sc	45	1	He	512778	2.24	574766	89.21	30	120	
Sc	45	2	NoGas	3950202	0.30	4296857	91.93	30	120	
Rh	103	1	He	1376598	0.54	1652712	83.29	30	120	
In	115	1	He	754109	0.18	852389	88.47	30	120	
Tb	159	1	He	2389935	1.26	2425956	98.52	30	120	
Ho	165	1	He	2460509	1.41	2452680	100.32	30	120	
Bi	209	1	He	1761828	1.18	1810473	97.31	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-13-b@2
Data File Name	156SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:24:09-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.047	2.047	4.87	8936	0.02	10000	
B	11	45	2	NoGas	13.639	13.639	1.31	48761	0.03	300	
Na	23	45	1	He	86.286	86.286	1.25	143548	0.06	500000	
Mg	24	45	1	He	5045.036	5045.036	1.21	3800046	0.13	500000	
Al	27	45	1	He	32635.648	32635.648	0.88	12782406	0.26	200000	
K	39	45	1	He	2556.891	2556.891	0.29	1567674	0.16	500000	
Ca	44	45	1	He	875.000	875.000	1.25	28073	3.12	500000	
Ti	47	45	1	He	355.348	355.348	1.83	66688	0.53	2500	
V	51	45	1	He	66.597	66.597	0.70	319562	0.02	10000	
Cr	52	45	1	He	61.400	61.400	0.55	363752	0.02	10000	
Mn	55	45	1	He	1778.231	1778.231	1.02	7399852	0.02	10000	
Fe	56	45	1	He	83373.230	83373.230	0.99	449121982	0.02	200000	
Co	59	103	1	He	36.484	36.484	0.22	321629	0.01	10000	
Ni	60	103	1	He	74.577	74.577	0.68	167242	0.04	10000	
Cu	63	103	1	He	40.526	40.526	0.48	244341	0.02	10000	
Zn	66	103	1	He	250.410	250.410	0.71	305109	0.08	10000	
As	75	103	1	He	98.629	98.629	0.74	76056	0.13	10000	
Se	78	103	1	He	3.409	3.409	5.40	242	1.41	10000	
Sr	88	103	1	He	16.387	16.387	0.84	75154	0.02	10000	
Mo	95	103	1	He	7.891	7.891	1.07	20052	0.04	2000	
Ag	107	103	1	He	0.094	0.094	3.74	827	0.01	300	
Cd	111	103	1	He	0.654	0.654	11.85	1643	0.04	4000	
Sn	118	115	1	He	14.589	14.589	1.42	48541	0.03	2000	
Sb	123	115	1	He	0.376	0.376	6.07	2093	0.02	300	
Ba	137	115	1	He	223.322	223.322	1.00	306618	0.07	10000	
W	182	165	1	He	0.339	0.339	7.82	6346	0.01	2500	
Tl	205	209	1	He	0.607	0.607	2.42	15064	0.00	5000	
Pb	208	209	1	He	46.188	46.188	0.80	1471121	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1393754	1.71	1803797	77.27	30	120	
Sc	45	1	He	496458	0.73	574766	86.38	30	120	
Sc	45	2	NoGas	3916784	0.22	4296857	91.15	30	120	
Rh	103	1	He	1381395	0.34	1652712	83.58	30	120	
In	115	1	He	748107	0.22	852389	87.77	30	120	
Tb	159	1	He	2365877	0.27	2425956	97.52	30	120	
Ho	165	1	He	2435760	0.98	2452680	99.31	30	120	
Bi	209	1	He	1757398	0.71	1810473	97.07	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-14-b@2
Data File Name	157SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:27:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.408	2.408	3.59	10474	0.02	10000	
B	11	45	2	NoGas	18.935	18.935	1.84	65868	0.03	300	
Na	23	45	1	He	158.411	158.411	3.47	243599	0.07	500000	
Mg	24	45	1	He	8381.278	8381.278	2.68	6425368	0.13	500000	
Al	27	45	1	He	41445.460	41445.460	0.30	16525274	0.25	200000	
K	39	45	1	He	4097.537	4097.537	0.54	2523149	0.16	500000	
Ca	44	45	1	He	1116.676	1116.676	1.61	36336	3.07	500000	
Ti	47	45	1	He	499.482	499.482	0.50	95421	0.52	2500	
V	51	45	1	He	92.653	92.653	0.72	452477	0.02	10000	
Cr	52	45	1	He	80.343	80.343	0.49	483722	0.02	10000	
Mn	55	45	1	He	3055.772	3055.772	1.57	12943751	0.02	10000	
Fe	56	45	1	He	108295.817	108295.817	0.48	593899870	0.02	200000	
Co	59	103	1	He	116.726	116.726	0.38	1017910	0.01	10000	
Ni	60	103	1	He	135.371	135.371	0.29	300270	0.05	10000	
Cu	63	103	1	He	61.251	61.251	0.47	364296	0.02	10000	
Zn	66	103	1	He	613.970	613.970	0.55	739086	0.08	10000	
As	75	103	1	He	499.570	499.570	0.15	380463	0.13	10000	
Se	78	103	1	He	4.354	4.354	5.15	299	1.46	10000	
Sr	88	103	1	He	54.178	54.178	0.56	245554	0.02	10000	
Mo	95	103	1	He	9.940	9.940	0.81	24838	0.04	2000	
Ag	107	103	1	He	0.291	0.291	3.59	2488	0.01	300	
Cd	111	103	1	He	1.311	1.311	5.51	2554	0.05	4000	
Sn	118	115	1	He	16.646	16.646	1.66	55030	0.03	2000	
Sb	123	115	1	He	0.887	0.887	7.08	3850	0.02	300	
Ba	137	115	1	He	308.007	308.007	2.08	420992	0.07	10000	
W	182	165	1	He	0.340	0.340	5.65	6409	0.01	2500	
Tl	205	209	1	He	1.200	1.200	2.03	29183	0.00	5000	
Pb	208	209	1	He	75.112	75.112	2.33	2373756	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1389527	1.77	1803797	77.03	30	120	
Sc	45	1	He	505384	1.12	574766	87.93	30	120	
Sc	45	2	NoGas	3931376	1.06	4296857	91.49	30	120	
Rh	103	1	He	1366629	0.26	1652712	82.69	30	120	
In	115	1	He	744866	1.20	852389	87.39	30	120	
Tb	159	1	He	2398971	1.17	2425956	98.89	30	120	
Ho	165	1	He	2458853	0.52	2452680	100.25	30	120	
Bi	209	1	He	1744766	2.62	1810473	96.37	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-15-b@2
Data File Name	158SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:31:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.721	3.721	4.02	16178	0.02	10000	
B	11	45	2	NoGas	18.190	18.190	2.28	65564	0.03	300	
Na	23	45	1	He	179.768	179.768	1.16	277774	0.06	500000	
Mg	24	45	1	He	15200.870	15200.870	1.31	11878510	0.13	500000	
Al	27	45	1	He	67676.624	67676.624	1.55	27502185	0.25	200000	
K	39	45	1	He	4911.555	4911.555	2.29	3070728	0.16	500000	
Ca	44	45	1	He	1865.256	1865.256	2.11	61507	3.03	500000	
Ti	47	45	1	He	699.757	699.757	1.27	136255	0.51	2500	
V	51	45	1	He	136.041	136.041	1.24	677056	0.02	10000	
Cr	52	45	1	He	121.859	121.859	0.70	746448	0.02	10000	
Mn	55	45	1	He	2310.856	2310.856	0.86	9978121	0.02	10000	
Fe	56	45	1	He	163533.524	163533.524	0.88	914071928	0.02	200000	
Co	59	103	1	He	57.061	57.061	0.13	493919	0.01	10000	
Ni	60	103	1	He	129.237	129.237	0.54	284528	0.05	10000	
Cu	63	103	1	He	135.028	135.028	0.27	794651	0.02	10000	
Zn	66	103	1	He	415.272	415.272	0.10	496388	0.08	10000	
As	75	103	1	He	97.694	97.694	0.63	73977	0.13	10000	
Se	78	103	1	He	6.427	6.427	3.55	426	1.51	10000	
Sr	88	103	1	He	26.798	26.798	0.70	120614	0.02	10000	
Mo	95	103	1	He	10.895	10.895	0.60	26968	0.04	2000	
Ag	107	103	1	He	0.133	0.133	5.04	1143	0.01	300	
Cd	111	103	1	He	1.104	1.104	4.01	2244	0.05	4000	
Sn	118	115	1	He	16.396	16.396	3.27	53834	0.03	2000	
Sb	123	115	1	He	0.949	0.949	2.76	4037	0.02	300	
Ba	137	115	1	He	370.487	370.487	0.66	502938	0.07	10000	
W	182	165	1	He	0.296	0.296	4.35	5961	0.00	2500	
Tl	205	209	1	He	1.231	1.231	2.09	29433	0.00	5000	
Pb	208	209	1	He	111.203	111.203	1.96	3454186	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1389087	2.02	1803797	77.01	30	120	
Sc	45	1	He	515157	1.40	574766	89.63	30	120	
Sc	45	2	NoGas	4059769	0.60	4296857	94.48	30	120	
Rh	103	1	He	1356434	0.33	1652712	82.07	30	120	
In	115	1	He	739697	0.93	852389	86.78	30	120	
Tb	159	1	He	2385858	0.96	2425956	98.35	30	120	
Ho	165	1	He	2469305	0.90	2452680	100.68	30	120	
Bi	209	1	He	1714841	1.96	1810473	94.72	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-16-b@2
Data File Name	159SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:35:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.974	2.974	5.02	12634	0.02	10000	
B	11	45	2	NoGas	18.615	18.615	1.89	64029	0.03	300	
Na	23	45	1	He	207.807	207.807	1.11	308853	0.07	500000	
Mg	24	45	1	He	13254.839	13254.839	1.37	10108976	0.13	500000	
Al	27	45	1	He	46157.819	46157.819	1.86	18305893	0.25	200000	
K	39	45	1	He	4922.202	4922.202	0.86	3003864	0.16	500000	
Ca	44	45	1	He	3344.483	3344.483	1.31	107241	3.12	500000	
Ti	47	45	1	He	427.974	427.974	1.37	81331	0.53	2500	
V	51	45	1	He	92.013	92.013	1.37	446984	0.02	10000	
Cr	52	45	1	He	80.669	80.669	1.13	483125	0.02	10000	
Mn	55	45	1	He	2830.060	2830.060	0.93	11926017	0.02	10000	
Fe	56	45	1	He	121515.946	121515.946	0.77	662904205	0.02	200000	
Co	59	103	1	He	47.495	47.495	0.52	411820	0.01	10000	
Ni	60	103	1	He	104.662	104.662	1.04	230829	0.05	10000	
Cu	63	103	1	He	85.914	85.914	0.27	507225	0.02	10000	
Zn	66	103	1	He	285.432	285.432	0.85	341990	0.08	10000	
As	75	103	1	He	61.117	61.117	0.34	46420	0.13	10000	
Se	78	103	1	He	4.413	4.413	6.57	301	1.47	10000	
Sr	88	103	1	He	31.942	31.942	1.00	143986	0.02	10000	
Mo	95	103	1	He	6.296	6.296	3.37	15851	0.04	2000	
Ag	107	103	1	He	0.102	0.102	2.34	883	0.01	300	
Cd	111	103	1	He	0.651	0.651	8.64	1612	0.04	4000	
Sn	118	115	1	He	16.558	16.558	2.09	54495	0.03	2000	
Sb	123	115	1	He	0.506	0.506	4.46	2521	0.02	300	
Ba	137	115	1	He	327.114	327.114	0.53	445075	0.07	10000	
W	182	165	1	He	0.251	0.251	10.51	5423	0.00	2500	
Tl	205	209	1	He	0.780	0.780	0.81	19100	0.00	5000	
Pb	208	209	1	He	77.044	77.044	0.51	2434023	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1356506	1.77	1803797	75.20	30	120	
Sc	45	1	He	502760	1.11	574766	87.47	30	120	
Sc	45	2	NoGas	3882319	1.36	4296857	90.35	30	120	
Rh	103	1	He	1358767	0.42	1652712	82.21	30	120	
In	115	1	He	741371	0.47	852389	86.98	30	120	
Tb	159	1	He	2410100	0.62	2425956	99.35	30	120	
Ho	165	1	He	2452679	1.16	2452680	100.00	30	120	
Bi	209	1	He	1743536	0.51	1810473	96.30	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-17-b@2
Data File Name	160SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:39:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.917	3.917	0.69	16875	0.02	10000	
B	11	45	2	NoGas	19.158	19.158	2.13	67690	0.03	300	
Na	23	45	1	He	192.233	192.233	0.88	290601	0.07	500000	
Mg	24	45	1	He	13403.669	13403.669	0.57	10320355	0.13	500000	
Al	27	45	1	He	61441.034	61441.034	1.16	24599865	0.25	200000	
K	39	45	1	He	5197.381	5197.381	0.93	3198516	0.16	500000	
Ca	44	45	1	He	4992.634	4992.634	0.68	161370	3.09	500000	
Ti	47	45	1	He	419.259	419.259	1.08	80434	0.52	2500	
V	51	45	1	He	121.488	121.488	1.95	595665	0.02	10000	
Cr	52	45	1	He	92.700	92.700	1.40	560051	0.02	10000	
Mn	55	45	1	He	4285.749	4285.749	2.45	18230390	0.02	10000	
Fe	56	45	1	He	174147.746	174147.746	0.82	959032602	0.02	200000	
Co	59	103	1	He	56.015	56.015	0.40	485344	0.01	10000	
Ni	60	103	1	He	107.166	107.166	1.37	236184	0.05	10000	
Cu	63	103	1	He	96.692	96.692	0.18	570190	0.02	10000	
Zn	66	103	1	He	317.928	317.928	0.39	380573	0.08	10000	
As	75	103	1	He	75.920	75.920	0.15	57583	0.13	10000	
Se	78	103	1	He	6.311	6.311	4.20	420	1.50	10000	
Sr	88	103	1	He	43.300	43.300	0.22	195008	0.02	10000	
Mo	95	103	1	He	8.797	8.797	3.71	21905	0.04	2000	
Ag	107	103	1	He	0.194	0.194	4.11	1658	0.01	300	
Cd	111	103	1	He	1.048	1.048	9.72	2168	0.05	4000	
Sn	118	115	1	He	17.744	17.744	1.09	58204	0.03	2000	
Sb	123	115	1	He	0.539	0.539	9.01	2629	0.02	300	
Ba	137	115	1	He	522.051	522.051	1.00	708632	0.07	10000	
W	182	165	1	He	0.257	0.257	9.78	5460	0.00	2500	
Tl	205	209	1	He	0.920	0.920	1.31	22539	0.00	5000	
Pb	208	209	1	He	82.433	82.433	1.17	2611157	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1375901	1.73	1803797	76.28	30	120	
Sc	45	1	He	507543	1.25	574766	88.30	30	120	
Sc	45	2	NoGas	3996541	0.30	4296857	93.01	30	120	
Rh	103	1	He	1357798	0.43	1652712	82.16	30	120	
In	115	1	He	739630	0.24	852389	86.77	30	120	
Tb	159	1	He	2387688	0.13	2425956	98.42	30	120	
Ho	165	1	He	2439760	0.18	2452680	99.47	30	120	
Bi	209	1	He	1748363	1.56	1810473	96.57	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-18-b@2
Data File Name	161SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:43:15-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.409	3.409	7.22	14666	0.02	10000	
B	11	45	2	NoGas	16.206	16.206	2.86	56672	0.03	300	
Na	23	45	1	He	195.530	195.530	1.07	290984	0.07	500000	
Mg	24	45	1	He	14468.590	14468.590	1.39	10984688	0.13	500000	
Al	27	45	1	He	58587.212	58587.212	1.29	23130974	0.25	200000	
K	39	45	1	He	4426.885	4426.885	0.71	2694876	0.16	500000	
Ca	44	45	1	He	4085.583	4085.583	0.61	130310	3.14	500000	
Ti	47	45	1	He	453.566	453.566	1.75	85803	0.53	2500	
V	51	45	1	He	109.256	109.256	0.58	528323	0.02	10000	
Cr	52	45	1	He	92.387	92.387	0.78	550430	0.02	10000	
Mn	55	45	1	He	2705.723	2705.723	0.80	11350503	0.02	10000	
Fe	56	45	1	He	140669.109	140669.109	0.26	763910387	0.02	200000	
Co	59	103	1	He	51.336	51.336	0.52	446261	0.01	10000	
Ni	60	103	1	He	112.686	112.686	0.92	249155	0.05	10000	
Cu	63	103	1	He	96.378	96.378	0.41	570202	0.02	10000	
Zn	66	103	1	He	414.502	414.502	0.20	497593	0.08	10000	
As	75	103	1	He	68.972	68.972	0.89	52500	0.13	10000	
Se	78	103	1	He	4.747	4.747	4.42	323	1.47	10000	
Sr	88	103	1	He	29.571	29.571	0.28	133650	0.02	10000	
Mo	95	103	1	He	7.393	7.393	2.54	18559	0.04	2000	
Ag	107	103	1	He	0.149	0.149	5.75	1285	0.01	300	
Cd	111	103	1	He	0.880	0.880	3.07	1938	0.05	4000	
Sn	118	115	1	He	16.254	16.254	1.67	53415	0.03	2000	
Sb	123	115	1	He	0.414	0.414	5.48	2202	0.02	300	
Ba	137	115	1	He	365.707	365.707	0.78	496759	0.07	10000	
W	182	165	1	He	0.259	0.259	4.25	5572	0.00	2500	
Tl	205	209	1	He	0.937	0.937	0.82	22823	0.00	5000	
Pb	208	209	1	He	73.743	73.743	2.43	2323630	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1374355	1.58	1803797	76.19	30	120	
Sc	45	1	He	500473	0.77	574766	87.07	30	120	
Sc	45	2	NoGas	3898311	0.34	4296857	90.72	30	120	
Rh	103	1	He	1362258	0.80	1652712	82.43	30	120	
In	115	1	He	740118	0.44	852389	86.83	30	120	
Tb	159	1	He	2423316	0.54	2425956	99.89	30	120	
Ho	165	1	He	2480377	0.96	2452680	101.13	30	120	
Bi	209	1	He	1739499	2.12	1810473	96.08	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-20-b@2
Data File Name	162SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:47:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.667	3.667	3.79	15366	0.02	10000	
B	11	45	2	NoGas	22.863	22.863	1.53	78722	0.03	300	
Na	23	45	1	He	280.990	280.990	1.97	406818	0.07	500000	
Mg	24	45	1	He	18053.817	18053.817	1.44	13755089	0.13	500000	
Al	27	45	1	He	60907.186	60907.186	1.76	24131828	0.25	200000	
K	39	45	1	He	6796.864	6796.864	1.16	4122126	0.16	500000	
Ca	44	45	1	He	7590.547	7590.547	0.68	242528	3.13	500000	
Ti	47	45	1	He	430.615	430.615	1.46	81760	0.53	2500	
V	51	45	1	He	109.211	109.211	0.91	530004	0.02	10000	
Cr	52	45	1	He	100.981	100.981	0.81	603534	0.02	10000	
Mn	55	45	1	He	2727.788	2727.788	1.39	11483582	0.02	10000	
Fe	56	45	1	He	147497.968	147497.968	0.18	803868697	0.02	200000	
Co	59	103	1	He	65.425	65.425	1.00	564806	0.01	10000	
Ni	60	103	1	He	145.118	145.118	1.19	318636	0.05	10000	
Cu	63	103	1	He	105.715	105.715	1.95	620918	0.02	10000	
Zn	66	103	1	He	331.847	331.847	0.65	395762	0.08	10000	
As	75	103	1	He	68.659	68.659	1.13	51900	0.13	10000	
Se	78	103	1	He	4.930	4.930	2.51	332	1.49	10000	
Sr	88	103	1	He	43.313	43.313	0.35	194356	0.02	10000	
Mo	95	103	1	He	6.638	6.638	2.32	16609	0.04	2000	
Ag	107	103	1	He	0.108	0.108	10.46	933	0.01	300	
Cd	111	103	1	He	0.733	0.733	6.56	1720	0.04	4000	
Sn	118	115	1	He	17.569	17.569	1.02	57610	0.03	2000	
Sb	123	115	1	He	0.480	0.480	2.41	2427	0.02	300	
Ba	137	115	1	He	422.113	422.113	0.67	572706	0.07	10000	
W	182	165	1	He	0.176	0.176	18.88	4649	0.00	2500	
Tl	205	209	1	He	0.988	0.988	0.33	23645	0.00	5000	
Pb	208	209	1	He	67.098	67.098	1.56	2079648	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1338294	0.71	1803797	74.19	30	120	
Sc	45	1	He	502272	1.11	574766	87.39	30	120	
Sc	45	2	NoGas	3945985	0.31	4296857	91.83	30	120	
Rh	103	1	He	1352871	0.41	1652712	81.86	30	120	
In	115	1	He	739281	0.57	852389	86.73	30	120	
Tb	159	1	He	2413295	1.23	2425956	99.48	30	120	
Ho	165	1	He	2475295	0.70	2452680	100.92	30	120	
Bi	209	1	He	1710746	1.95	1810473	94.49	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-21-b@2
Data File Name	163SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:50:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.723	3.723	1.73	15885	0.02	10000	
B	11	45	2	NoGas	28.405	28.405	2.81	95596	0.03	300	
Na	23	45	1	He	319.778	319.778	0.78	456703	0.07	500000	
Mg	24	45	1	He	18946.028	18946.028	1.14	14363800	0.13	500000	
Al	27	45	1	He	68941.452	68941.452	0.38	27183096	0.25	200000	
K	39	45	1	He	7838.773	7838.773	0.39	4721960	0.17	500000	
Ca	44	45	1	He	10159.266	10159.266	0.10	322839	3.15	500000	
Ti	47	45	1	He	455.934	455.934	0.27	86139	0.53	2500	
V	51	45	1	He	122.939	122.939	0.72	593659	0.02	10000	
Cr	52	45	1	He	123.244	123.244	0.25	732400	0.02	10000	
Mn	55	45	1	He	2933.271	2933.271	2.23	12287465	0.02	10000	
Fe	56	45	1	He	165001.202	165001.202	1.25	894765813	0.02	200000	
Co	59	103	1	He	78.903	78.903	0.44	663129	0.01	10000	
Ni	60	103	1	He	160.438	160.438	0.86	342937	0.05	10000	
Cu	63	103	1	He	130.354	130.354	0.60	744924	0.02	10000	
Zn	66	103	1	He	390.505	390.505	0.63	453271	0.09	10000	
As	75	103	1	He	89.514	89.514	0.21	65827	0.14	10000	
Se	78	103	1	He	7.542	7.542	1.29	482	1.57	10000	
Sr	88	103	1	He	52.245	52.245	1.22	228210	0.02	10000	
Mo	95	103	1	He	8.623	8.623	1.91	20837	0.04	2000	
Ag	107	103	1	He	0.132	0.132	6.66	1100	0.01	300	
Cd	111	103	1	He	0.942	0.942	7.08	1959	0.05	4000	
Sn	118	115	1	He	18.400	18.400	1.83	59063	0.03	2000	
Sb	123	115	1	He	0.653	0.653	6.28	2959	0.02	300	
Ba	137	115	1	He	417.422	417.422	0.52	554677	0.08	10000	
W	182	165	1	He	0.208	0.208	2.91	4986	0.00	2500	
Tl	205	209	1	He	1.059	1.059	1.72	25626	0.00	5000	
Pb	208	209	1	He	78.938	78.938	1.10	2477060	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1362488	0.92	1803797	75.53	30	120	
Sc	45	1	He	499779	1.04	574766	86.95	30	120	
Sc	45	2	NoGas	3910184	1.81	4296857	91.00	30	120	
Rh	103	1	He	1317026	0.54	1652712	79.69	30	120	
In	115	1	He	724059	0.63	852389	84.94	30	120	
Tb	159	1	He	2463940	0.46	2425956	101.57	30	120	
Ho	165	1	He	2468613	0.27	2452680	100.65	30	120	
Bi	209	1	He	1731930	1.53	1810473	95.66	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-1-b@2
Data File Name	164SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:54:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.802	3.802	2.70	15759	0.02	10000	
B	11	45	2	NoGas	23.072	23.072	1.15	74327	0.03	300	
Na	23	45	1	He	282.778	282.778	2.07	379577	0.07	500000	
Mg	24	45	1	He	19137.935	19137.935	1.01	13525213	0.14	500000	
Al	27	45	1	He	70981.379	70981.379	1.42	26085855	0.27	200000	
K	39	45	1	He	6227.329	6227.329	0.55	3507394	0.18	500000	
Ca	44	45	1	He	31519.139	31519.139	0.58	932642	3.38	500000	
Ti	47	45	1	He	391.656	391.656	0.61	68972	0.57	2500	
V	51	45	1	He	138.714	138.714	0.70	624327	0.02	10000	
Cr	52	45	1	He	109.947	109.947	0.54	609302	0.02	10000	
Mn	55	45	1	He	4471.797	4471.797	0.64	17461873	0.03	10000	
Fe	56	45	1	He	156699.212	156699.212	1.64	792075240	0.02	200000	
Co	59	103	1	He	58.565	58.565	0.80	475184	0.01	10000	
Ni	60	103	1	He	123.341	123.341	1.00	254534	0.05	10000	
Cu	63	103	1	He	74.313	74.313	0.69	410800	0.02	10000	
Zn	66	103	1	He	344.415	344.415	0.12	386025	0.09	10000	
As	75	103	1	He	72.249	72.249	0.57	51322	0.14	10000	
Se	78	103	1	He	5.373	5.373	10.09	338	1.59	10000	
Sr	88	103	1	He	89.548	89.548	1.36	377539	0.02	10000	
Mo	95	103	1	He	8.108	8.108	1.57	18947	0.04	2000	
Ag	107	103	1	He	0.335	0.335	3.97	2659	0.01	300	
Cd	111	103	1	He	1.135	1.135	5.29	2144	0.05	4000	
Sn	118	115	1	He	17.371	17.371	1.21	53448	0.03	2000	
Sb	123	115	1	He	14.053	14.053	0.50	45969	0.03	300	
Ba	137	115	1	He	473.422	473.422	0.65	602614	0.08	10000	
W	182	165	1	He	0.249	0.249	10.03	5086	0.00	2500	
Tl	205	209	1	He	1.032	1.032	1.03	22516	0.00	5000	
Pb	208	209	1	He	98.363	98.363	0.33	2780526	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1323810	1.38	1803797	73.39	30	120	
Sc	45	1	He	465860	0.78	574766	81.05	30	120	
Sc	45	2	NoGas	3694430	0.46	4296857	85.98	30	120	
Rh	103	1	He	1271498	0.95	1652712	76.93	30	120	
In	115	1	He	693593	0.69	852389	81.37	30	120	
Tb	159	1	He	2239287	0.66	2425956	92.31	30	120	
Ho	165	1	He	2311554	1.03	2452680	94.25	30	120	
Bi	209	1	He	1560160	0.29	1810473	86.17	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	165_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T20:58:30-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.046	2.975	192199	2.75	50	92.1	89.5	110.5	
B	11	45	2	NoGas	47.676	1.270	147313	1.08	50	95.4	89.5	110.5	
Na	23	45	1	He	25475.839	1.678	31512394	2.04	25000	101.9	89.5	110.5	
Mg	24	45	1	He	25473.088	0.804	17850494	1.10	25000	101.9	89.5	110.5	
Al	27	45	1	He	252.874	1.143	92752	1.05	250	101.1	89.5	110.5	
K	39	45	1	He	26330.803	0.429	14536977	0.54	25000	105.3	89.5	110.5	
Ca	44	45	1	He	25413.402	0.402	745719	0.74	25000	101.7	89.5	110.5	
Ti	47	45	1	He	52.313	0.628	9136	0.97	50	104.6	89.5	110.5	
V	51	45	1	He	51.563	0.416	230251	0.15	50	103.1	89.5	110.5	
Cr	52	45	1	He	51.634	0.807	285013	0.96	50	103.3	89.5	110.5	
Mn	55	45	1	He	260.489	0.748	1008723	0.38	250	104.2	89.5	110.5	
Fe	56	45	1	He	13170.637	0.065	66019142	0.35	12500	105.4	89.5	110.5	
Co	59	103	1	He	47.228	0.847	405369	0.44	50	94.5	89.5	110.5	
Ni	60	103	1	He	47.151	0.682	102983	0.35	50	94.3	89.5	110.5	
Cu	63	103	1	He	47.038	0.316	275815	0.74	50	94.1	89.5	110.5	
Zn	66	103	1	He	48.495	0.644	58090	0.90	50	97.0	89.5	110.5	
As	75	103	1	He	49.178	0.897	37005	0.52	50	98.4	89.5	110.5	
Se	78	103	1	He	49.339	0.984	3085	1.23	50	98.7	89.5	110.5	
Sr	88	103	1	He	51.163	0.401	228234	0.84	50	102.3	89.5	110.5	
Mo	95	103	1	He	51.935	1.475	125330	1.41	50	103.9	89.5	110.5	
Ag	107	103	1	He	51.472	0.528	428181	0.65	50	102.9	89.5	110.5	
Cd	111	103	1	He	52.217	0.991	73236	0.57	50	104.4	89.5	110.5	
Sn	118	115	1	He	50.029	0.285	162659	0.35	50	100.1	89.5	110.5	
Sb	123	115	1	He	53.541	0.371	184478	0.50	50	107.1	89.5	110.5	
Ba	137	115	1	He	53.357	0.953	72402	1.30	50	106.7	89.5	110.5	
W	182	165	1	He	46.220	1.129	494790	1.46	50	92.4	89.5	110.5	
Tl	205	209	1	He	47.032	1.531	1105123	0.40	50	94.1	89.5	110.5	
Pb	208	209	1	He	48.830	1.713	1510120	0.58	50	97.7	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1333599	1.99	1803797	73.93	30	120	
Sc	45	1	He	461923	0.37	574766	80.37	30	120	
Sc	45	2	NoGas	3671477	0.21	4296857	85.45	30	120	
Rh	103	1	He	1345038	0.44	1652712	81.38	30	120	
In	115	1	He	739252	0.56	852389	86.73	30	120	
Tb	159	1	He	2313565	0.98	2425956	95.37	30	120	
Ho	165	1	He	2392744	0.36	2452680	97.56	30	120	
Bi	209	1	He	1706601	1.27	1810473	94.26	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	166_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:02:23-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.048	16.0	196	16.3	1	
B	11	45	2	NoGas	4.230	5.7	17298	3.6	20	
Na	23	45	1	He	9.744	8.2	37398	1.6	400	
Mg	24	45	1	He	2.840	13.6	2623	8.8	1000	
Al	27	45	1	He	10.077	4.9	4103	4.5	50	
K	39	45	1	He	13.984	8.8	57351	0.2	1000	
Ca	44	45	1	He	2.900	54.2	525	9.3	1000	
Ti	47	45	1	He	0.221	61.2	38	58.7	20	
V	51	45	1	He	0.092	90.5	593	58.7	2	
Cr	52	45	1	He	-0.045	-24.2	2082	2.2	2	
Mn	55	45	1	He	1.432	3.7	5451	3.1	2	
Fe	56	45	1	He	35.854	9.0	177094	7.7	50	
Co	59	103	1	He	0.028	21.4	287	17.6	1	
Ni	60	103	1	He	0.049	29.4	186	16.7	2	
Cu	63	103	1	He	-0.184	-12.3	953	13.9	2	
Zn	66	103	1	He	0.506	5.1	1290	2.5	20	
As	75	103	1	He	-0.010	-135.9	153	6.9	2	
Se	78	103	1	He	0.152	75.0	34	21.3	2	
Sr	88	103	1	He	0.013	19.7	172	5.9	10	
Mo	95	103	1	He	0.760	22.0	2394	16.3	2	
Ag	107	103	1	He	0.000	-453.4	24	34.3	0.2	
Cd	111	103	1	He	0.015	40.4	713	0.9	0.2	
Sn	118	115	1	He	0.248	18.5	1545	8.7	10	
Sb	123	115	1	He	0.061	99.1	983	20.2	1	
Ba	137	115	1	He	0.042	18.7	68	14.2	5	
W	182	165	1	He	0.824	10.7	10934	9.0	10	
Tl	205	209	1	He	0.035	32.0	1171	22.2	0.5	
Pb	208	209	1	He	0.034	10.2	1840	7.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1298093	1.06	1803797	71.96	30	120	
Sc	45	1	He	443378	0.98	574766	77.14	30	120	
Sc	45	2	NoGas	3604638	0.55	4296857	83.89	30	120	
Rh	103	1	He	1346889	0.58	1652712	81.50	30	120	
In	115	1	He	735660	1.50	852389	86.31	30	120	
Tb	159	1	He	2231203	0.19	2425956	91.97	30	120	
Ho	165	1	He	2294535	0.89	2452680	93.55	30	120	
Bi	209	1	He	1661870	2.94	1810473	91.79	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-2-b@2
Data File Name	167SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:06:16-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.579	3.579	0.60	14847	0.02	10000	
B	11	45	2	NoGas	13.514	13.514	3.24	47120	0.03	300	
Na	23	45	1	He	147.719	147.719	1.55	223292	0.07	500000	
Mg	24	45	1	He	10355.212	10355.212	1.58	7735005	0.13	500000	
Al	27	45	1	He	63224.773	63224.773	1.11	24559510	0.26	200000	
K	39	45	1	He	3960.994	3960.994	0.46	2378243	0.17	500000	
Ca	44	45	1	He	2245.321	2245.321	1.91	70673	3.18	500000	
Ti	47	45	1	He	364.667	364.667	2.43	67871	0.54	2500	
V	51	45	1	He	134.067	134.067	0.78	637812	0.02	10000	
Cr	52	45	1	He	95.420	95.420	0.51	559259	0.02	10000	
Mn	55	45	1	He	5016.494	5016.494	0.44	20705928	0.02	10000	
Fe	56	45	1	He	131210.953	131210.953	0.60	701044523	0.02	200000	
Co	59	103	1	He	52.826	52.826	0.42	445962	0.01	10000	
Ni	60	103	1	He	100.539	100.539	0.55	215899	0.05	10000	
Cu	63	103	1	He	64.839	64.839	1.32	373196	0.02	10000	
Zn	66	103	1	He	291.375	291.375	0.46	339885	0.09	10000	
As	75	103	1	He	60.699	60.699	0.82	44887	0.14	10000	
Se	78	103	1	He	5.265	5.265	4.19	345	1.53	10000	
Sr	88	103	1	He	24.773	24.773	0.60	108749	0.02	10000	
Mo	95	103	1	He	7.906	7.906	0.69	19236	0.04	2000	
Ag	107	103	1	He	0.268	0.268	2.59	2222	0.01	300	
Cd	111	103	1	He	0.946	0.946	7.99	1973	0.05	4000	
Sn	118	115	1	He	18.345	18.345	1.37	58851	0.03	2000	
Sb	123	115	1	He	3.884	3.884	2.26	13808	0.03	300	
Ba	137	115	1	He	438.917	438.917	0.21	582902	0.08	10000	
W	182	165	1	He	0.546	0.546	4.86	8325	0.01	2500	
Tl	205	209	1	He	0.941	0.941	1.25	22351	0.00	5000	
Pb	208	209	1	He	97.273	97.273	1.28	2989640	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1324770	1.65	1803797	73.44	30	120	
Sc	45	1	He	492412	1.07	574766	85.67	30	120	
Sc	45	2	NoGas	3817322	1.75	4296857	88.84	30	120	
Rh	103	1	He	1322918	0.35	1652712	80.05	30	120	
In	115	1	He	723623	0.28	852389	84.89	30	120	
Tb	159	1	He	2287066	1.44	2425956	94.27	30	120	
Ho	165	1	He	2362232	1.04	2452680	96.31	30	120	
Bi	209	1	He	1696276	0.53	1810473	93.69	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-3-b@2
Data File Name	168SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:10:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4.727	4.727	4.79	19541	0.02	10000	
B	11	45	2	NoGas	14.909	14.909	2.76	50979	0.03	300	
Na	23	45	1	He	168.721	168.721	0.49	248211	0.07	500000	
Mg	24	45	1	He	13318.593	13318.593	0.44	9839626	0.14	500000	
Al	27	45	1	He	68672.422	68672.422	0.33	26383485	0.26	200000	
K	39	45	1	He	4662.002	4662.002	0.95	2758595	0.17	500000	
Ca	44	45	1	He	2029.101	2029.101	0.57	63218	3.21	500000	
Ti	47	45	1	He	456.738	456.738	0.54	84080	0.54	2500	
V	51	45	1	He	160.077	160.077	0.41	753120	0.02	10000	
Cr	52	45	1	He	115.603	115.603	0.39	669562	0.02	10000	
Mn	55	45	1	He	6920.000	6920.000	0.42	28247447	0.02	10000	
Fe	56	45	1	He	169332.268	169332.268	0.36	894773084	0.02	200000	
Co	59	103	1	He	73.891	73.891	0.75	615803	0.01	10000	
Ni	60	103	1	He	138.875	138.875	0.25	294384	0.05	10000	
Cu	63	103	1	He	78.885	78.885	0.44	447811	0.02	10000	
Zn	66	103	1	He	357.091	357.091	0.40	411071	0.09	10000	
As	75	103	1	He	74.867	74.867	0.76	54620	0.14	10000	
Se	78	103	1	He	6.242	6.242	7.56	400	1.56	10000	
Sr	88	103	1	He	31.168	31.168	0.48	135047	0.02	10000	
Mo	95	103	1	He	9.619	9.619	1.91	22988	0.04	2000	
Ag	107	103	1	He	0.270	0.270	3.88	2206	0.01	300	
Cd	111	103	1	He	1.120	1.120	9.02	2183	0.05	4000	
Sn	118	115	1	He	17.881	17.881	3.02	56821	0.03	2000	
Sb	123	115	1	He	0.972	0.972	0.23	3986	0.02	300	
Ba	137	115	1	He	609.896	609.896	0.93	802000	0.08	10000	
W	182	165	1	He	0.298	0.298	13.89	5790	0.01	2500	
Tl	205	209	1	He	1.039	1.039	0.97	24549	0.00	5000	
Pb	208	209	1	He	103.053	103.053	2.29	3157453	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1321506	2.82	1803797	73.26	30	120	
Sc	45	1	He	486979	0.21	574766	84.73	30	120	
Sc	45	2	NoGas	3780997	0.47	4296857	87.99	30	120	
Rh	103	1	He	1306035	0.57	1652712	79.02	30	120	
In	115	1	He	716526	0.40	852389	84.06	30	120	
Tb	159	1	He	2312364	0.40	2425956	95.32	30	120	
Ho	165	1	He	2392961	1.14	2452680	97.57	30	120	
Bi	209	1	He	1691320	1.16	1810473	93.42	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-4-b@2
Data File Name	169SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:13:53-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.358	3.358	5.93	13895	0.02	10000	
B	11	45	2	NoGas	10.486	10.486	2.32	37788	0.03	300	
Na	23	45	1	He	153.698	153.698	2.90	227981	0.07	500000	
Mg	24	45	1	He	11512.465	11512.465	1.59	8481549	0.14	500000	
Al	27	45	1	He	72345.877	72345.877	2.48	27713863	0.26	200000	
K	39	45	1	He	3560.711	3560.711	1.19	2114136	0.17	500000	
Ca	44	45	1	He	2431.127	2431.127	0.52	75453	3.22	500000	
Ti	47	45	1	He	402.007	402.007	1.57	73799	0.54	2500	
V	51	45	1	He	155.629	155.629	1.55	730155	0.02	10000	
Cr	52	45	1	He	101.451	101.451	1.96	586234	0.02	10000	
Mn	55	45	1	He	4322.049	4322.049	2.59	17591924	0.02	10000	
Fe	56	45	1	He	141730.918	141730.918	1.89	746807739	0.02	200000	
Co	59	103	1	He	54.674	54.674	0.60	461911	0.01	10000	
Ni	60	103	1	He	95.885	95.885	0.62	206064	0.05	10000	
Cu	63	103	1	He	54.642	54.642	0.86	315053	0.02	10000	
Zn	66	103	1	He	377.215	377.215	1.22	440141	0.09	10000	
As	75	103	1	He	62.523	62.523	0.85	46265	0.14	10000	
Se	78	103	1	He	5.600	5.600	1.33	366	1.53	10000	
Sr	88	103	1	He	23.501	23.501	0.31	103252	0.02	10000	
Mo	95	103	1	He	9.236	9.236	0.20	22398	0.04	2000	
Ag	107	103	1	He	0.251	0.251	4.75	2081	0.01	300	
Cd	111	103	1	He	1.089	1.089	2.22	2170	0.05	4000	
Sn	118	115	1	He	18.215	18.215	2.66	58743	0.03	2000	
Sb	123	115	1	He	0.712	0.712	2.28	3168	0.02	300	
Ba	137	115	1	He	400.066	400.066	0.78	534044	0.07	10000	
W	182	165	1	He	0.317	0.317	15.81	5979	0.01	2500	
Tl	205	209	1	He	1.020	1.020	0.57	24638	0.00	5000	
Pb	208	209	1	He	111.225	111.225	1.07	3480793	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1321466	1.45	1803797	73.26	30	120	
Sc	45	1	He	485712	1.90	574766	84.51	30	120	
Sc	45	2	NoGas	3822367	0.47	4296857	88.96	30	120	
Rh	103	1	He	1323926	0.34	1652712	80.11	30	120	
In	115	1	He	727352	0.20	852389	85.33	30	120	
Tb	159	1	He	2323854	0.91	2425956	95.79	30	120	
Ho	165	1	He	2387542	1.12	2452680	97.34	30	120	
Bi	209	1	He	1727326	0.47	1810473	95.41	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-5-b@2
Data File Name	170SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:17:40-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.299	3.299	1.31	13131	0.03	10000	
B	11	45	2	NoGas	14.420	14.420	2.24	48200	0.03	300	
Na	23	45	1	He	152.375	152.375	0.64	220017	0.07	500000	
Mg	24	45	1	He	10116.816	10116.816	1.01	7247108	0.14	500000	
Al	27	45	1	He	62995.138	62995.138	0.51	23466591	0.27	200000	
K	39	45	1	He	3794.556	3794.556	2.16	2186879	0.17	500000	
Ca	44	45	1	He	5261.809	5261.809	0.66	158199	3.33	500000	
Ti	47	45	1	He	491.857	491.857	0.99	87793	0.56	2500	
V	51	45	1	He	136.222	136.222	1.03	621432	0.02	10000	
Cr	52	45	1	He	94.538	94.538	1.06	531350	0.02	10000	
Mn	55	45	1	He	7250.436	7250.436	0.91	28696296	0.03	10000	
Fe	56	45	1	He	119421.988	119421.988	0.43	611860545	0.02	200000	
Co	59	103	1	He	53.202	53.202	0.55	446842	0.01	10000	
Ni	60	103	1	He	94.402	94.402	0.17	201690	0.05	10000	
Cu	63	103	1	He	50.922	50.922	0.66	292008	0.02	10000	
Zn	66	103	1	He	306.290	306.290	1.15	355404	0.09	10000	
As	75	103	1	He	52.711	52.711	0.54	38802	0.14	10000	
Se	78	103	1	He	5.382	5.382	5.76	350	1.54	10000	
Sr	88	103	1	He	34.156	34.156	0.64	149135	0.02	10000	
Mo	95	103	1	He	8.427	8.427	0.71	20364	0.04	2000	
Ag	107	103	1	He	0.276	0.276	7.83	2271	0.01	300	
Cd	111	103	1	He	1.249	1.249	5.27	2376	0.05	4000	
Sn	118	115	1	He	18.535	18.535	3.06	59370	0.03	2000	
Sb	123	115	1	He	1.050	1.050	3.79	4282	0.02	300	
Ba	137	115	1	He	520.529	520.529	0.72	690334	0.08	10000	
W	182	165	1	He	0.360	0.360	4.71	6413	0.01	2500	
Tl	205	209	1	He	0.978	0.978	0.32	23730	0.00	5000	
Pb	208	209	1	He	103.746	103.746	1.48	3260028	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1271373	1.16	1803797	70.48	30	120	
Sc	45	1	He	472180	0.43	574766	82.15	30	120	
Sc	45	2	NoGas	3683767	0.84	4296857	85.73	30	120	
Rh	103	1	He	1316175	0.97	1652712	79.64	30	120	
In	115	1	He	722641	0.37	852389	84.78	30	120	
Tb	159	1	He	2287517	0.25	2425956	94.29	30	120	
Ho	165	1	He	2378723	0.77	2452680	96.98	30	120	
Bi	209	1	He	1734465	0.99	1810473	95.80	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-6-b@2
Data File Name	171SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:21:29-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.975	2.975	2.83	12097	0.02	10000	
B	11	45	2	NoGas	14.427	14.427	0.33	48111	0.03	300	
Na	23	45	1	He	169.569	169.569	3.26	240115	0.07	500000	
Mg	24	45	1	He	10530.657	10530.657	0.87	7494159	0.14	500000	
Al	27	45	1	He	57820.990	57820.990	1.70	21398125	0.27	200000	
K	39	45	1	He	3670.110	3670.110	1.05	2103298	0.17	500000	
Ca	44	45	1	He	10716.845	10716.845	0.60	319622	3.35	500000	
Ti	47	45	1	He	414.830	414.830	1.38	73556	0.56	2500	
V	51	45	1	He	124.368	124.368	1.01	563659	0.02	10000	
Cr	52	45	1	He	92.969	92.969	0.83	519171	0.02	10000	
Mn	55	45	1	He	3410.503	3410.503	1.50	13409488	0.03	10000	
Fe	56	45	1	He	108976.940	108976.940	0.91	554685845	0.02	200000	
Co	59	103	1	He	42.212	42.212	0.68	352128	0.01	10000	
Ni	60	103	1	He	97.632	97.632	0.23	207165	0.05	10000	
Cu	63	103	1	He	66.325	66.325	1.23	377154	0.02	10000	
Zn	66	103	1	He	350.033	350.033	0.61	403323	0.09	10000	
As	75	103	1	He	50.329	50.329	0.32	36804	0.14	10000	
Se	78	103	1	He	4.740	4.740	8.45	309	1.53	10000	
Sr	88	103	1	He	69.941	69.941	0.78	303176	0.02	10000	
Mo	95	103	1	He	7.633	7.633	2.62	18371	0.04	2000	
Ag	107	103	1	He	0.240	0.240	4.90	1966	0.01	300	
Cd	111	103	1	He	1.123	1.123	6.06	2188	0.05	4000	
Sn	118	115	1	He	26.173	26.173	2.36	83241	0.03	2000	
Sb	123	115	1	He	1.569	1.569	2.34	6002	0.03	300	
Ba	137	115	1	He	595.383	595.383	0.73	786792	0.08	10000	
W	182	165	1	He	0.303	0.303	4.63	5772	0.01	2500	
Tl	205	209	1	He	0.860	0.860	0.49	20351	0.00	5000	
Pb	208	209	1	He	120.278	120.278	1.23	3676742	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1298633	1.07	1803797	71.99	30	120	
Sc	45	1	He	469112	1.17	574766	81.62	30	120	
Sc	45	2	NoGas	3675269	1.29	4296857	85.53	30	120	
Rh	103	1	He	1307209	0.45	1652712	79.09	30	120	
In	115	1	He	720072	0.77	852389	84.48	30	120	
Tb	159	1	He	2301234	0.47	2425956	94.86	30	120	
Ho	165	1	He	2360709	0.35	2452680	96.25	30	120	
Bi	209	1	He	1687296	1.00	1810473	93.20	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-7-b@2
Data File Name	172SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:25:16-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.403	3.403	5.86	13646	0.02	10000	
B	11	45	2	NoGas	16.469	16.469	1.67	56256	0.03	300	
Na	23	45	1	He	204.671	204.671	2.37	293054	0.07	500000	
Mg	24	45	1	He	10952.409	10952.409	0.90	8037442	0.14	500000	
Al	27	45	1	He	45267.250	45267.250	1.13	17274445	0.26	200000	
K	39	45	1	He	6065.549	6065.549	1.53	3548474	0.17	500000	
Ca	44	45	1	He	2076.771	2076.771	0.89	64258	3.23	500000	
Ti	47	45	1	He	339.899	339.899	1.03	62151	0.55	2500	
V	51	45	1	He	85.011	85.011	0.29	397379	0.02	10000	
Cr	52	45	1	He	133.592	133.592	0.28	768172	0.02	10000	
Mn	55	45	1	He	1608.248	1608.248	1.89	6520538	0.02	10000	
Fe	56	45	1	He	122640.860	122640.860	1.24	643684703	0.02	200000	
Co	59	103	1	He	44.149	44.149	0.67	368255	0.01	10000	
Ni	60	103	1	He	133.312	133.312	1.10	282802	0.05	10000	
Cu	63	103	1	He	82.023	82.023	0.97	465892	0.02	10000	
Zn	66	103	1	He	213.719	213.719	0.95	246484	0.09	10000	
As	75	103	1	He	53.091	53.091	1.15	38808	0.14	10000	
Se	78	103	1	He	4.797	4.797	2.53	313	1.53	10000	
Sr	88	103	1	He	24.653	24.653	0.53	106925	0.02	10000	
Mo	95	103	1	He	4.251	4.251	2.74	10477	0.04	2000	
Ag	107	103	1	He	0.161	0.161	3.28	1323	0.01	300	
Cd	111	103	1	He	0.618	0.618	8.84	1507	0.04	4000	
Sn	118	115	1	He	17.094	17.094	0.50	54210	0.03	2000	
Sb	123	115	1	He	0.361	0.361	13.89	1951	0.02	300	
Ba	137	115	1	He	272.189	272.189	0.48	357018	0.08	10000	
W	182	165	1	He	0.145	0.145	28.82	4164	0.00	2500	
Tl	205	209	1	He	0.716	0.716	1.26	16823	0.00	5000	
Pb	208	209	1	He	77.370	77.370	0.93	2339599	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1281548	1.69	1803797	71.05	30	120	
Sc	45	1	He	483721	0.70	574766	84.16	30	120	
Sc	45	2	NoGas	3813521	1.11	4296857	88.75	30	120	
Rh	103	1	He	1307080	0.83	1652712	79.09	30	120	
In	115	1	He	714690	0.62	852389	83.85	30	120	
Tb	159	1	He	2327964	0.68	2425956	95.96	30	120	
Ho	165	1	He	2394413	1.30	2452680	97.62	30	120	
Bi	209	1	He	1668906	0.87	1810473	92.18	30	120	

Sample Report

Sample Table

Sample Name	240-49172-a-8-b@2
Data File Name	173SMPL.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:29:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.558	3.558	3.75	14262	0.02	10000	
B	11	45	2	NoGas	18.928	18.928	0.85	64446	0.03	300	
Na	23	45	1	He	184.224	184.224	1.49	270993	0.07	500000	
Mg	24	45	1	He	12623.840	12623.840	2.02	9415455	0.13	500000	
Al	27	45	1	He	73834.871	73834.871	2.25	28638152	0.26	200000	
K	39	45	1	He	6297.212	6297.212	2.55	3742135	0.17	500000	
Ca	44	45	1	He	1318.867	1318.867	1.22	41660	3.17	500000	
Ti	47	45	1	He	388.970	388.970	2.57	72285	0.54	2500	
V	51	45	1	He	131.159	131.159	2.37	622975	0.02	10000	
Cr	52	45	1	He	106.231	106.231	1.51	621398	0.02	10000	
Mn	55	45	1	He	790.292	790.292	2.17	3256844	0.02	10000	
Fe	56	45	1	He	146871.366	146871.366	2.00	783507293	0.02	200000	
Co	59	103	1	He	39.156	39.156	0.78	326502	0.01	10000	
Ni	60	103	1	He	92.766	92.766	0.69	196762	0.05	10000	
Cu	63	103	1	He	92.994	92.994	0.82	527796	0.02	10000	
Zn	66	103	1	He	256.430	256.430	1.15	295520	0.09	10000	
As	75	103	1	He	70.655	70.655	0.74	51582	0.14	10000	
Se	78	103	1	He	5.994	5.994	3.44	385	1.56	10000	
Sr	88	103	1	He	22.482	22.482	0.94	97491	0.02	10000	
Mo	95	103	1	He	5.767	5.767	2.62	14008	0.04	2000	
Ag	107	103	1	He	0.199	0.199	0.35	1633	0.01	300	
Cd	111	103	1	He	0.647	0.647	8.19	1545	0.04	4000	
Sn	118	115	1	He	17.294	17.294	0.90	54756	0.03	2000	
Sb	123	115	1	He	0.688	0.688	7.51	3030	0.02	300	
Ba	137	115	1	He	342.913	342.913	0.61	449110	0.08	10000	
W	182	165	1	He	0.190	0.190	17.26	4668	0.00	2500	
Tl	205	209	1	He	1.007	1.007	5.02	23369	0.00	5000	
Pb	208	209	1	He	70.385	70.385	2.81	2116525	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1280505	0.93	1803797	70.99	30	120	
Sc	45	1	He	491737	1.69	574766	85.55	30	120	
Sc	45	2	NoGas	3847437	0.86	4296857	89.54	30	120	
Rh	103	1	He	1306689	0.68	1652712	79.06	30	120	
In	115	1	He	713625	0.30	852389	83.72	30	120	
Tb	159	1	He	2333982	0.88	2425956	96.21	30	120	
Ho	165	1	He	2406314	0.79	2452680	98.11	30	120	
Bi	209	1	He	1660275	2.59	1810473	91.70	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	174_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:32:54-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.915	2.210	187100	1.42	50	93.8	89.5	110.5	
B	11	45	2	NoGas	44.488	1.130	137537	1.47	50	89.0	89.5	110.5	CCV Failed
Na	23	45	1	He	25059.587	1.208	31044540	1.02	25000	100.2	89.5	110.5	
Mg	24	45	1	He	24991.094	1.973	17537764	0.68	25000	100.0	89.5	110.5	
Al	27	45	1	He	250.300	1.553	91952	0.69	250	100.1	89.5	110.5	
K	39	45	1	He	26137.765	2.377	14450898	0.81	25000	104.6	89.5	110.5	
Ca	44	45	1	He	25258.170	1.807	742247	0.74	25000	101.0	89.5	110.5	
Ti	47	45	1	He	52.010	3.619	9095	2.41	50	104.0	89.5	110.5	
V	51	45	1	He	51.498	0.338	230351	2.01	50	103.0	89.5	110.5	
Cr	52	45	1	He	51.240	1.570	283274	0.78	50	102.5	89.5	110.5	
Mn	55	45	1	He	260.516	1.725	1010341	0.84	250	104.2	89.5	110.5	
Fe	56	45	1	He	13265.508	1.930	66591617	0.88	12500	106.1	89.5	110.5	
Co	59	103	1	He	46.867	0.852	403474	0.36	50	93.7	89.5	110.5	
Ni	60	103	1	He	46.342	0.768	101526	1.12	50	92.7	89.5	110.5	
Cu	63	103	1	He	46.780	1.173	275131	0.64	50	93.6	89.5	110.5	
Zn	66	103	1	He	48.329	0.110	58068	0.75	50	96.7	89.5	110.5	
As	75	103	1	He	48.206	0.981	36385	0.15	50	96.4	89.5	110.5	
Se	78	103	1	He	47.975	4.327	3008	3.48	50	95.9	89.5	110.5	
Sr	88	103	1	He	51.302	0.650	229534	0.24	50	102.6	89.5	110.5	
Mo	95	103	1	He	51.474	2.633	124582	1.83	50	102.9	89.5	110.5	
Ag	107	103	1	He	51.220	0.775	427358	0.34	50	102.4	89.5	110.5	
Cd	111	103	1	He	52.590	1.984	73972	1.30	50	105.2	89.5	110.5	
Sn	118	115	1	He	51.216	0.912	168455	0.82	50	102.4	89.5	110.5	
Sb	123	115	1	He	53.252	0.639	185641	0.61	50	106.5	89.5	110.5	
Ba	137	115	1	He	52.955	0.573	72698	0.50	50	105.9	89.5	110.5	
W	182	165	1	He	46.719	1.525	506865	0.67	50	93.4	89.5	110.5	
Tl	205	209	1	He	46.593	0.668	1127597	0.32	50	93.2	89.5	110.5	
Pb	208	209	1	He	48.113	0.877	1532540	0.68	50	96.2	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1274108	0.94	1803797	70.63	30	120	
Sc	45	1	He	462718	2.22	574766	80.51	30	120	
Sc	45	2	NoGas	3664641	1.32	4296857	85.29	30	120	
Rh	103	1	He	1349104	0.84	1652712	81.63	30	120	
In	115	1	He	747931	0.36	852389	87.75	30	120	
Tb	159	1	He	2323275	0.75	2425956	95.77	30	120	
Ho	165	1	He	2425399	1.00	2452680	98.89	30	120	
Bi	209	1	He	1757560	0.94	1810473	97.08	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	175_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:36:44-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.041	25.5	163	25.8	1	
B	11	45	2	NoGas	3.020	2.8	13424	2.1	20	
Na	23	45	1	He	7.071	15.6	33992	2.6	400	
Mg	24	45	1	He	2.876	26.6	2626	18.0	1000	
Al	27	45	1	He	10.556	8.9	4238	6.4	50	
K	39	45	1	He	10.130	52.3	54925	3.9	1000	
Ca	44	45	1	He	4.079	34.2	555	8.0	1000	
Ti	47	45	1	He	0.222	22.0	38	22.2	20	
V	51	45	1	He	0.104	39.6	642	26.2	2	
Cr	52	45	1	He	-0.040	-37.1	2096	4.6	2	
Mn	55	45	1	He	1.630	4.7	6147	5.1	2	
Fe	56	45	1	He	42.457	11.1	207349	9.5	50	
Co	59	103	1	He	0.021	18.8	222	14.8	1	
Ni	60	103	1	He	0.038	2.2	162	1.2	2	
Cu	63	103	1	He	-0.198	-1.4	880	1.9	2	
Zn	66	103	1	He	0.470	14.7	1257	6.8	20	
As	75	103	1	He	-0.012	-73.6	153	4.7	2	
Se	78	103	1	He	0.162	77.8	34	22.6	2	
Sr	88	103	1	He	0.005	148.2	141	25.3	10	
Mo	95	103	1	He	0.681	25.2	2220	18.6	2	
Ag	107	103	1	He	0.001	299.5	36	76.4	0.2	
Cd	111	103	1	He	0.019	114.3	724	4.3	0.2	
Sn	118	115	1	He	0.217	22.5	1459	10.4	10	
Sb	123	115	1	He	0.021	126.1	854	11.0	1	
Ba	137	115	1	He	0.066	12.9	101	11.6	5	
W	182	165	1	He	0.815	15.8	10986	11.5	10	
Tl	205	209	1	He	0.036	37.4	1222	23.9	0.5	
Pb	208	209	1	He	0.032	6.0	1848	1.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1239406	0.65	1803797	68.71	30	120	
Sc	45	1	He	440384	1.32	574766	76.62	30	120	
Sc	45	2	NoGas	3518380	1.00	4296857	81.88	30	120	
Rh	103	1	He	1356792	0.26	1652712	82.09	30	120	
In	115	1	He	741406	0.49	852389	86.98	30	120	
Tb	159	1	He	2259452	0.45	2425956	93.14	30	120	
Ho	165	1	He	2327815	0.83	2452680	94.91	30	120	
Bi	209	1	He	1719357	2.57	1810473	94.97	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	176CRIA.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:40:37-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.919	0.919	1.471	3719	1.94	1	91.9	69.5	130.5	
B	11	2	NoGas	19.039	19.039	2.988	60350	2.41	20	95.2	69.5	130.5	
Na	23	1	He	1059.350	1059.350	2.871	1327698	3.10	1000	105.9	69.5	130.5	
Mg	24	1	He	1013.643	1013.643	0.603	706509	0.85	1000	101.4	69.5	130.5	
Al	27	1	He	49.764	49.764	1.970	18618	2.36	50	99.5	69.5	130.5	
K	39	1	He	1039.115	1039.115	1.087	619711	0.58	1000	103.9	69.5	130.5	
Ca	44	1	He	1030.015	1030.015	0.510	30472	0.55	1000	103.0	69.5	130.5	
Ti	47	1	He	10.384	10.384	9.112	1802	8.88	10	103.8	69.5	130.5	
V	51	1	He	5.196	5.196	3.761	23242	3.74	5	103.9	69.5	130.5	
Cr	52	1	He	3.938	3.938	0.669	23821	1.11	2	196.9	69.5	130.5	6020A CR1 Failed
Mn	55	1	He	6.946	6.946	0.786	26859	1.21	5	138.9	69.5	130.5	6020A CR1 Failed
Fe	56	1	He	141.348	141.348	0.317	708825	0.21	100	141.3	69.5	130.5	6020A CR1 Failed
Co	59	1	He	0.967	0.967	0.507	8504	0.45	1	96.7	69.5	130.5	
Ni	60	1	He	2.711	2.711	0.749	6111	0.66	2	135.5	69.5	130.5	6020A CR1 Failed
Cu	63	1	He	1.740	1.740	0.542	12390	0.53	2	87.0	69.5	130.5	
Zn	66	1	He	19.415	19.415	1.334	24133	1.21	20	97.1	69.5	130.5	
As	75	1	He	4.834	4.834	2.628	3856	2.49	5	96.7	69.5	130.5	
Se	78	1	He	4.850	4.850	0.973	331	0.84	5	97.0	69.5	130.5	
Sr	88	1	He	10.127	10.127	1.218	46153	1.18	10	101.3	69.5	130.5	
Mo	95	1	He	10.304	10.304	1.339	25815	1.23	10	103.0	69.5	130.5	
Ag	107	1	He	1.053	1.053	2.461	8955	2.52	1	105.3	69.5	130.5	
Cd	111	1	He	1.036	1.036	2.829	2172	1.85	1	103.6	69.5	130.5	
Sn	118	1	He	9.960	9.960	1.415	33913	1.76	10	99.6	69.5	130.5	
Sb	123	1	He	1.868	1.868	1.205	7392	1.26	2	93.4	69.5	130.5	
Ba	137	1	He	5.372	5.372	2.860	7505	2.76	5	107.4	69.5	130.5	
W	182	1	He	9.125	9.125	2.826	100492	2.50	10	91.3	69.5	130.5	
Tl	205	1	He	1.874	1.874	1.319	46262	1.31	2	93.7	69.5	130.5	
Pb	208	1	He	1.029	1.029	1.391	34013	1.40	1	102.9	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1291839	1.03	1803797	71.62	30	120	
Sc	45	1	He	458988	0.51	574766	79.86	30	120	
Sc	45	2	NoGas	3584060	1.00	4296857	83.41	30	120	
Rh	103	1	He	1371334	0.08	1652712	82.97	30	120	
In	115	1	He	760046	0.40	852389	89.17	30	120	
Tb	159	1	He	2295040	1.43	2425956	94.60	30	120	
Ho	165	1	He	2409961	1.63	2452680	98.26	30	120	
Bi	209	1	He	1778455	0.21	1810473	98.23	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	177_CCV.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:44:29-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.990	1.158	191710	0.48	50	96.0	89.5	110.5	
B	11	45	2	NoGas	44.576	1.906	139789	0.97	50	89.2	89.5	110.5	CCV Failed
Na	23	45	1	He	24325.585	2.590	31186375	1.09	25000	97.3	89.5	110.5	
Mg	24	45	1	He	24343.227	3.402	17676828	0.52	25000	97.4	89.5	110.5	
Al	27	45	1	He	239.470	2.681	91069	1.00	250	95.8	89.5	110.5	
K	39	45	1	He	25558.928	4.222	14621541	1.33	25000	102.2	89.5	110.5	
Ca	44	45	1	He	24687.458	3.155	750726	0.66	25000	98.7	89.5	110.5	
Ti	47	45	1	He	49.721	4.575	8997	2.58	50	99.4	89.5	110.5	
V	51	45	1	He	50.868	3.100	235399	0.38	50	101.7	89.5	110.5	
Cr	52	45	1	He	50.027	3.156	286240	0.22	50	100.1	89.5	110.5	
Mn	55	45	1	He	252.019	2.675	1011466	0.35	250	100.8	89.5	110.5	
Fe	56	45	1	He	12797.300	2.065	66491017	1.01	12500	102.4	89.5	110.5	
Co	59	103	1	He	46.945	1.062	404687	0.96	50	93.9	89.5	110.5	
Ni	60	103	1	He	46.566	0.404	102148	0.46	50	93.1	89.5	110.5	
Cu	63	103	1	He	46.655	0.634	274765	0.60	50	93.3	89.5	110.5	
Zn	66	103	1	He	48.142	0.372	57921	0.29	50	96.3	89.5	110.5	
As	75	103	1	He	49.028	0.609	37053	0.70	50	98.1	89.5	110.5	
Se	78	103	1	He	48.987	1.949	3076	2.08	50	98.0	89.5	110.5	
Sr	88	103	1	He	51.979	0.185	232871	0.21	50	104.0	89.5	110.5	
Mo	95	103	1	He	51.372	1.149	124514	1.05	50	102.7	89.5	110.5	
Ag	107	103	1	He	51.204	0.656	427792	0.69	50	102.4	89.5	110.5	
Cd	111	103	1	He	52.682	0.655	74203	0.63	50	105.4	89.5	110.5	
Sn	118	115	1	He	50.251	0.512	166546	0.26	50	100.5	89.5	110.5	
Sb	123	115	1	He	53.039	0.636	186305	0.75	50	106.1	89.5	110.5	
Ba	137	115	1	He	53.227	0.876	73624	0.63	50	106.5	89.5	110.5	
W	182	165	1	He	46.163	1.328	498353	1.86	50	92.3	89.5	110.5	
Tl	205	209	1	He	46.406	1.576	1117624	0.74	50	92.8	89.5	110.5	
Pb	208	209	1	He	48.034	1.575	1522589	0.52	50	96.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1276176	0.80	1803797	70.75	30	120	
Sc	45	1	He	478993	3.04	574766	83.34	30	120	
Sc	45	2	NoGas	3717911	0.89	4296857	86.53	30	120	
Rh	103	1	He	1350846	0.16	1652712	81.74	30	120	
In	115	1	He	753599	0.42	852389	88.41	30	120	
Tb	159	1	He	2325124	1.48	2425956	95.84	30	120	
Ho	165	1	He	2412946	1.05	2452680	98.38	30	120	
Bi	209	1	He	1749142	1.06	1810473	96.61	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	178_CCB.d
Data Path Name	D:\Analytical Runs\I10042015B.b
Acq Date Time	2015-04-20T21:48:20-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.047	15.6	189	15.6	1	
B	11	45	2	NoGas	3.671	5.8	15592	3.4	20	
Na	23	45	1	He	6.744	26.4	34099	4.3	400	
Mg	24	45	1	He	2.188	23.4	2200	14.2	1000	
Al	27	45	1	He	8.269	1.7	3499	3.2	50	
K	39	45	1	He	12.698	34.4	57117	2.3	1000	
Ca	44	45	1	He	2.941	49.0	530	6.9	1000	
Ti	47	45	1	He	0.153	23.2	27	21.7	20	
V	51	45	1	He	0.043	38.7	389	16.5	2	
Cr	52	45	1	He	-0.055	-18.7	2047	4.5	2	
Mn	55	45	1	He	1.302	6.5	5007	4.6	2	
Fe	56	45	1	He	26.098	12.3	131143	10.0	50	
Co	59	103	1	He	0.025	9.7	258	8.6	1	
Ni	60	103	1	He	0.039	25.3	164	12.9	2	
Cu	63	103	1	He	-0.202	-5.5	857	6.9	2	
Zn	66	103	1	He	0.479	13.8	1269	6.8	20	
As	75	103	1	He	-0.013	-249.6	152	16.2	2	
Se	78	103	1	He	0.198	41.6	37	14.6	2	
Sr	88	103	1	He	0.005	92.4	138	14.2	10	
Mo	95	103	1	He	0.615	24.7	2061	17.1	2	
Ag	107	103	1	He	0.005	73.8	64	43.1	0.2	
Cd	111	103	1	He	0.020	180.3	726	6.4	0.2	
Sn	118	115	1	He	0.282	44.2	1678	24.3	10	
Sb	123	115	1	He	0.084	39.1	1073	10.6	1	
Ba	137	115	1	He	0.032	35.9	56	28.4	5	
W	182	165	1	He	0.812	10.6	11001	8.6	10	
Tl	205	209	1	He	0.036	13.0	1248	8.2	0.5	
Pb	208	209	1	He	0.026	2.0	1683	1.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1269006	1.86	1803797	70.35	30	120	
Sc	45	1	He	447049	1.88	574766	77.78	30	120	
Sc	45	2	NoGas	3588925	0.94	4296857	83.52	30	120	
Rh	103	1	He	1357847	0.70	1652712	82.16	30	120	
In	115	1	He	744739	0.24	852389	87.37	30	120	
Tb	159	1	He	2293378	1.16	2425956	94.54	30	120	
Ho	165	1	He	2335119	0.51	2452680	95.21	30	120	
Bi	209	1	He	1740382	0.94	1810473	96.13	30	120	

MTMSCCBDILH20-192 EPA Tune Solution Spex CL11-62YPY

TestAmerica ICP/MS Data Review Checklist

Run Date: 4/21/15 **Analyst:** AMM **Instrument:** I10

Review Items

A. Tune/Daily performance	Yes	No	N/A	2nd Level
1. Resolution </= 0.9 AMU full width at 10% peak height, and within +/- 0.1 AMU of true mass?	✓			✓
B. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? Correlation coefficient ≥ 0.995?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits? (*ICV:* = 90 – 110%) (*CCV:* 90 – 110%, 200.8 = 85 -115%)	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRI run and recovered within QC limits (+/-50%) or project limits?	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP control limits?	✓			✓
C. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Were the internal standards within acceptance criteria for all results reported?	✓			✓
4. Sample analyses done within holding time?	✓			✓
D. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
5. Serial dilution done per prep batch?	✓			✓
6. Post digest spike analyzed if required?	✓			
E. Other				
1. Are all nonconformance's documented appropriately?	✓			✓
2. Current IDL/LR data on file?	✓			✓
3. Calculations checked for error?	✓			✓
4. Transcriptions checked for error?	✓			✓
5. All client/project specific requirements met?	✓			✓
6. Date/time of analysis verified as correct?	✓			✓

Level I Analyst: [signature] Date: 4/22/15 Time: 17:45-23:53
Level I Analyst: Date: Time:
Level II Reviewer: [signature] Date: 04/22/2015 Time: 17:45- 23:53
Level II Reviewer: Date: Time:

Comments:

L:/Metals/ICPMS /ICPMS Data Review Checklist
Revised (3)2013

Current Signal

[NoGas]

Mass	Range	Count	Avg. Count	RSD [%]
7	5000	3333	3382.8	1.11
89	10000	5189	5183.9	2.27
205	10000	5294	5236.8	1.72
156/140	1	0.576 %	0.720 %	14.24
70/140	2	1.187 %	1.247 %	16.06
115	100	54	66.6	23.06
63	5000	3765	3726.2	1.80
60	200	106	95.4	14.15
121	100	60	47.2	20.51
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

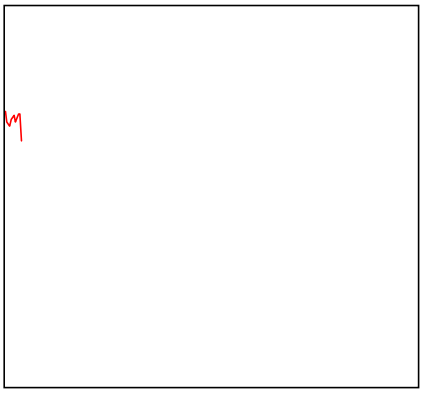
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	14.96	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	5.91E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	2000	1294	1400.0	3.33
51	50	34	33.4	22.38
52	200	127	125.4	10.73
51/59	5	2.627 %	2.392 %	22.86
52/59	20	9.811 %	8.983 %	12.49
7	50	16	16.7	29.09
89	2000	1416	1475.1	4.52
205	5000	3140	3199.3	3.06
6	20	2	1.6	72.67
Integration Time [sec]			0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	-2.0	V
Extract 2	-185.0	V	Cell Entrance	-50	V	Plate Bias	-70	V
Omega Bias	-85	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	4.0	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

Aux Gas	0.90	L/min	Carrier Gas	0.55	L/min	Plasma Gas	15.02	L/min
MU./Dil. Gas	0.55	L/min	Ar Gas Tank Press	5.90E+2	kPa			

US EPA Tune Check Sample Report

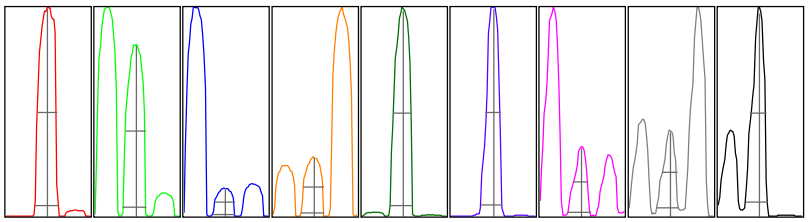
Batch Folder D:\Analytical Runs\I10042115D.b
Report Comment
Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	45211	0.81	5.00	
24	143706	0.28	5.00	
25	18828	0.36	5.00	
26	22218	1.17	5.00	
59	171716	0.67	5.00	
115	247671	0.88	5.00	
206	84419	0.99	5.00	
207	75415	0.96	5.00	
208	176538	0.66	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	45806	45269	45040	45114	44828
24	144382	143608	143591	143664	143284
25	18852	18819	18796	18927	18748
26	22637	22145	22231	22151	21926
59	173715	171718	171032	171025	171088
115	251268	246666	248129	246022	246268
206	85547	84949	83800	84312	83486
207	76556	75356	75529	74973	74661
208	178561	176041	175954	175733	176402

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
9	6993	9.00	8.9 - 9.1		0.801	0.850	
24	22556	24.00	23.9 - 24.1		0.791	0.850	
25	3021	25.00	24.9 - 25.1		0.787	0.850	
26	3492	26.00	25.9 - 26.1		0.798	0.850	
59	27999	59.00	58.9 - 59.1		0.798	0.850	
115	47255	115.05	114.9 - 115.1		0.743	0.850	
206	16318	206.00	205.9 - 206.1		0.766	0.850	
207	14393	207.00	206.9 - 207.1		0.761	0.850	
208	34958	208.00	207.9 - 208.1		0.780	0.850	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 235 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.55	L/min	S/C Temp	2	℃
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.9	V	Deflect	15.0	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-40	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

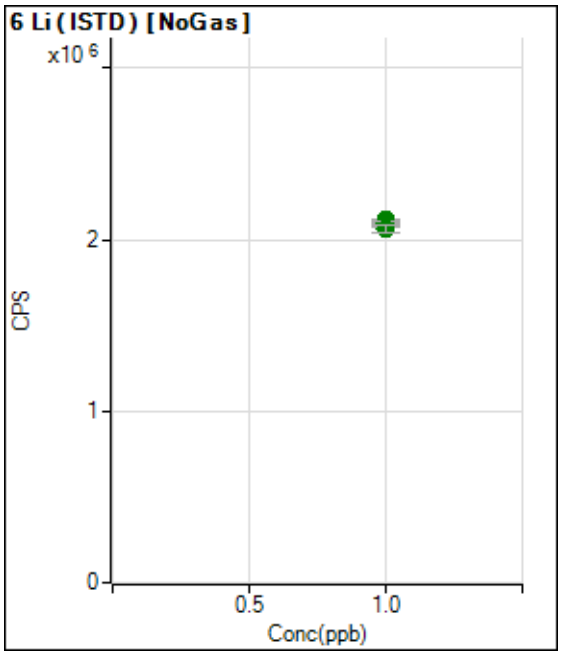
US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
ParameterName	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**	**ParameterName**	**Value**	**Unit**
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

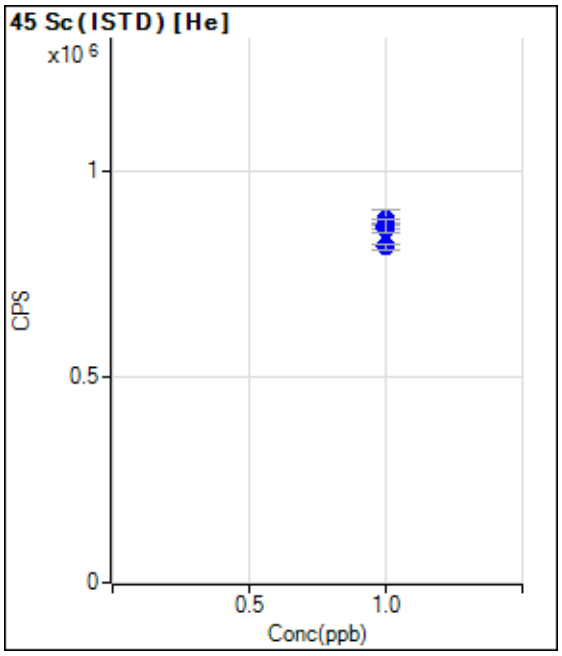
Calibration for 073_CCB.d

Batch Folder: D:\Analytical Runs\I10042115G.b\
Analysis File: I10042115G.batch.bin
DA Date-Time: 4/21/2015 10:21:56 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

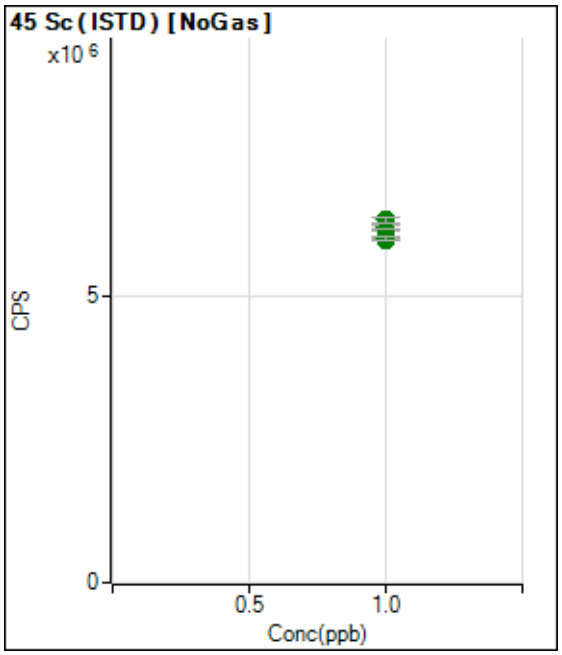
Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	ICIS	4/21/2015 5:49:31 PM
2	003CALS.d	STD1-1906323	4/21/2015 5:53:22 PM
3	004CALS.d	STD2-1904110	4/21/2015 5:57:14 PM
4	005CALS.d	STD3-1906333	4/21/2015 6:00:59 PM
5	006CALS.d	STD4-1906536	4/21/2015 6:04:43 PM



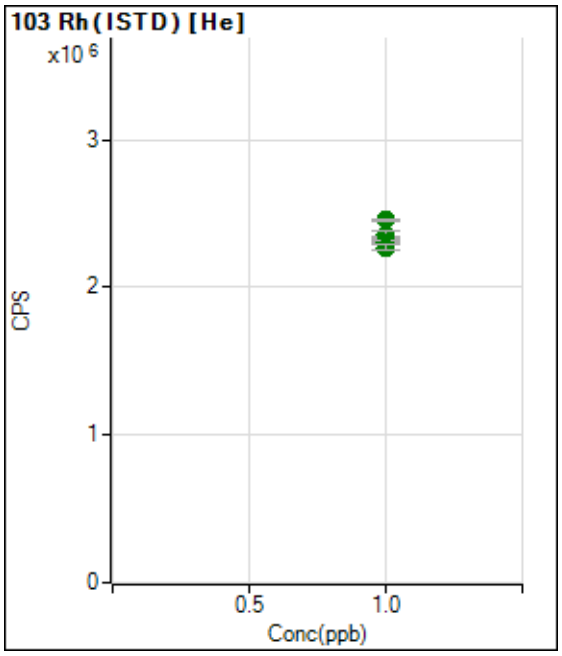
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2077022.29		A	0.5
2	☐	1.000		2083752.45		A	0.9
3	☐	1.000		2114345.94		A	0.9
4	☐	1.000		2097365.32		A	1.0
5	☐	1.000		2059994.29		A	2.3



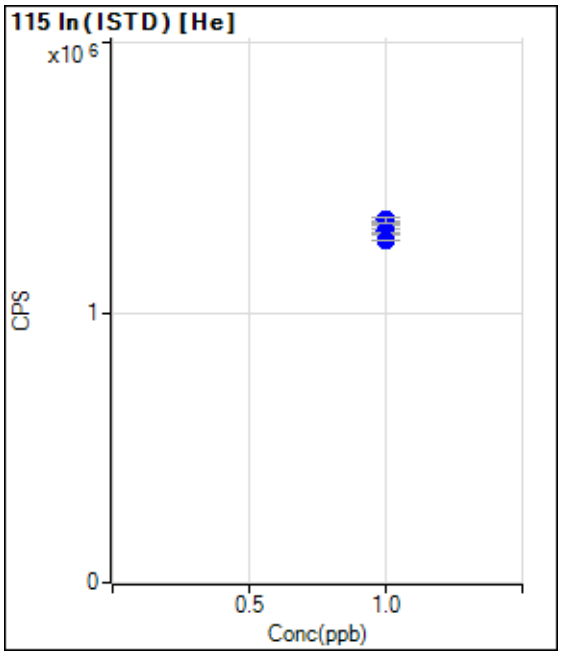
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		817535.90		P	1.5
2	☐	1.000		868165.85		P	2.1
3	☐	1.000		883361.31		P	5.4
4	☐	1.000		861888.03		P	1.8
5	☐	1.000		868761.89		P	3.4



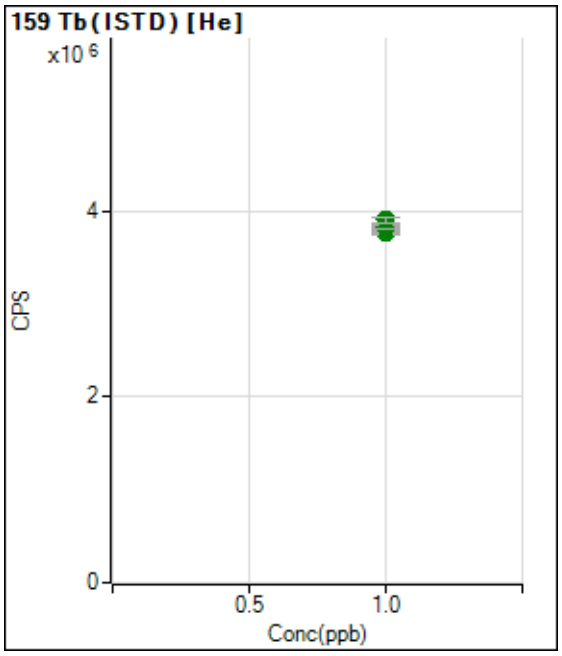
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5970055.04		A	0.8
2	☐	1.000		6171681.42		A	1.4
3	☐	1.000		6194629.48		A	1.5
4	☐	1.000		6317963.78		A	1.5
5	☐	1.000		5991955.46		A	1.5



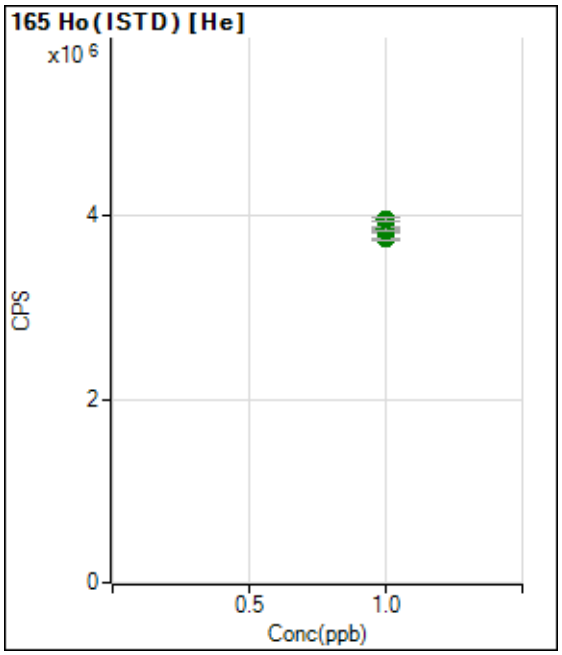
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2327919.49		A	1.5
2	☐	1.000		2356981.43		A	2.2
3	☐	1.000		2301167.68		A	1.0
4	☐	1.000		2272303.87		A	1.3
5	☐	1.000		2457674.14		A	0.8



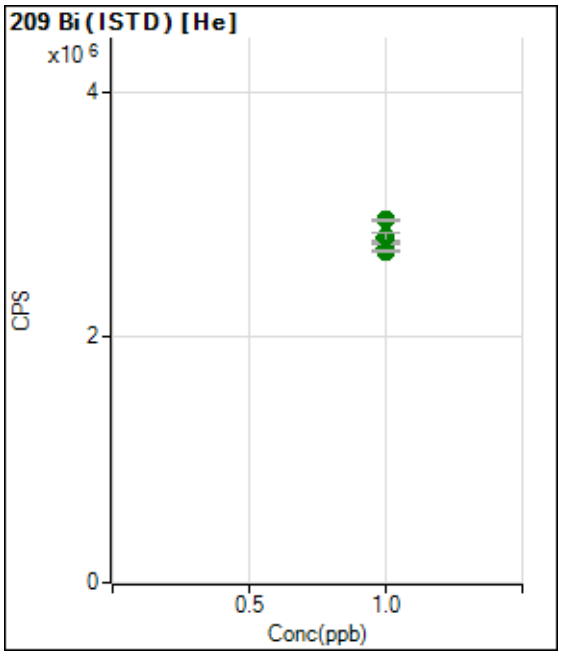
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1305097.89		P	1.0
2	☐	1.000		1333258.40		P	0.8
3	☐	1.000		1293840.69		P	0.2
4	☐	1.000		1269568.95		P	0.0
5	☐	1.000		1344824.64		P	1.3



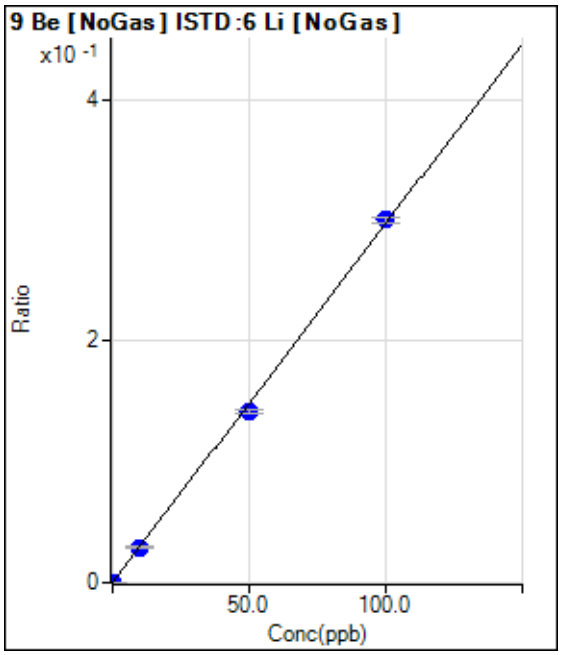
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3765959.30		A	1.1
2	☐	1.000		3812068.32		A	1.7
3	☐	1.000		3828003.18		A	0.5
4	☐	1.000		3830837.35		A	0.7
5	☐	1.000		3907041.51		A	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3748206.38		A	0.4
2	☐	1.000		3837590.54		A	0.8
3	☐	1.000		3866033.88		A	0.3
4	☐	1.000		3860975.40		A	0.7
5	☐	1.000		3958788.32		A	1.0



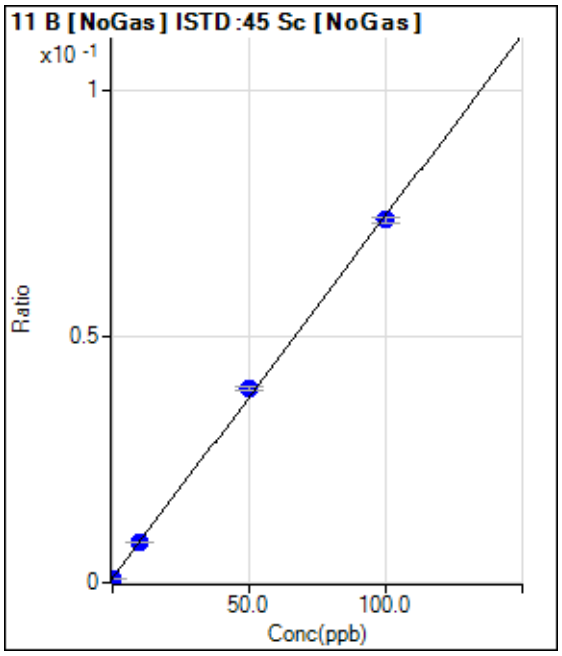
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2822318.15		A	1.7
2	☐	1.000		2814413.64		A	2.3
3	☐	1.000		2731366.77		A	1.7
4	☐	1.000		2698896.77		A	0.7
5	☐	1.000		2958207.94		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.15	0.0000	P	53.8
2	☐	10.000	9.863	61104.54	0.0293	P	2.6
3	☐	50.000	47.845	300578.33	0.1422	P	2.5
4	☐	100.000	101.091	629972.18	0.3004	P	1.4
5	☐			114.82	0.0001	P	5.0

y = 0.0030 * x + 2.3218E-005
R = 0.9996
DL = 0.01261
BEC = 0.007814

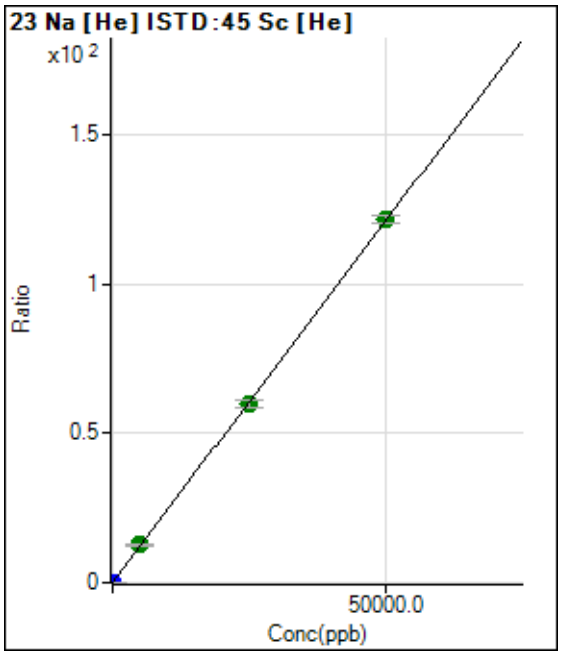
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5664.07	0.0009	P	2.9
2	☐	10.000	9.998	51238.50	0.0083	P	1.6
3	☐	50.000	52.272	244014.67	0.0394	P	1.6
4	☐			8754.29	0.0014	P	7.6
5	☐	100.000	98.864	441329.37	0.0737	P	1.8

y = 7.3553E-004 * x + 9.4887E-004
R = 0.9995
DL = 0.1131
BEC = 1.29

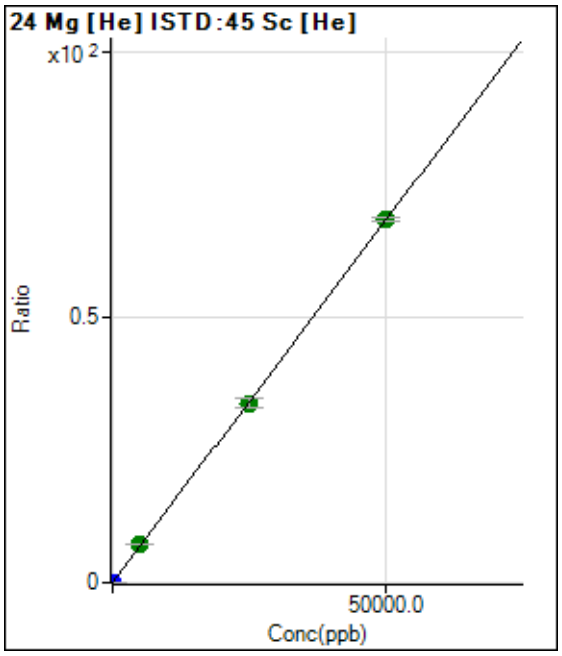
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17579.41	0.0215	P	1.7
2	☐	5000.000	5179.458	10909770.40	12.5689	A	2.3
3	☐	25000.000	24628.295	52641027.54	59.6844	A	4.3
4	☐	50000.000	50167.907	104738710.65	121.5549	A	2.2
5	☐			55361.99	0.0637	P	2.5

y = 0.0024 * x + 0.0215
R = 0.9999
DL = 0.4437
BEC = 8.876

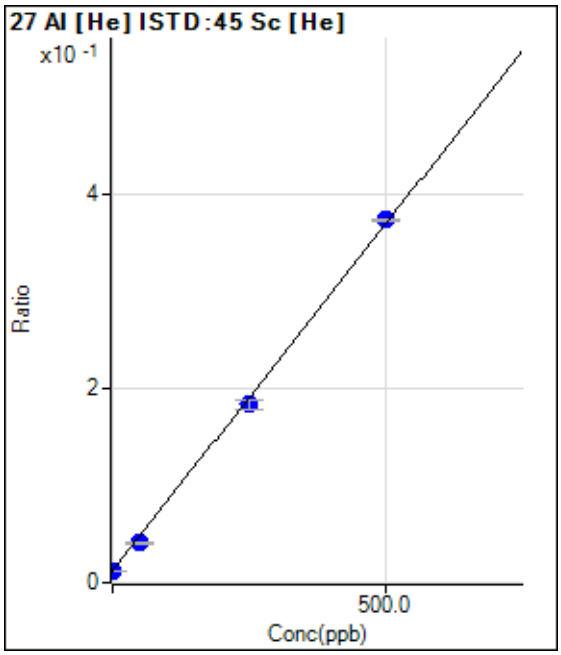
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	514.85	0.0006	P	25.9
2	☐	5000.000	5272.760	6255359.47	7.2069	A	2.6
3	☐	25000.000	24746.166	29823171.04	33.8211	A	5.1
4	☐	50000.000	50099.641	59007925.43	68.4716	A	1.0
5	☐			5541.87	0.0063	P	24.7

y = 0.0014 * x + 6.3039E-004
R = 1.0000
DL = 0.359
BEC = 0.4613

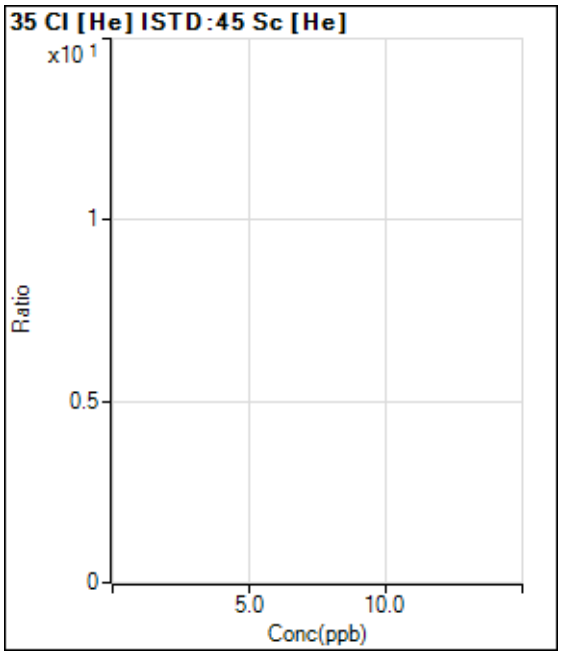
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10168.46	0.0124	P	1.7
2	☐	50.000	39.497	35271.41	0.0406	P	1.3
3	☐	250.000	239.702	161807.37	0.1835	P	5.2
4	☐	500.000	506.199	322082.47	0.3737	P	0.7
5	☐			2801.36	0.0032	P	6.9

y = 7.1367E-004 * x + 0.0124
R = 0.9995
DL = 0.9007
BEC = 17.43

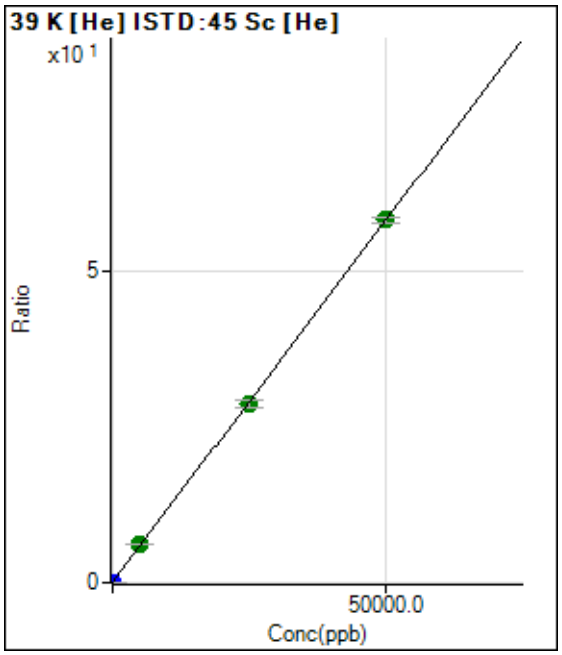
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13621830.01	16.6636	A	0.9
2	☐			14332375.36	16.5124	A	1.7
3	☐			14415385.07	16.3509	A	5.6
4	☐			14093835.55	16.3527	A	0.5
5	☐			14612346.18	16.8302	A	2.8

Excluded

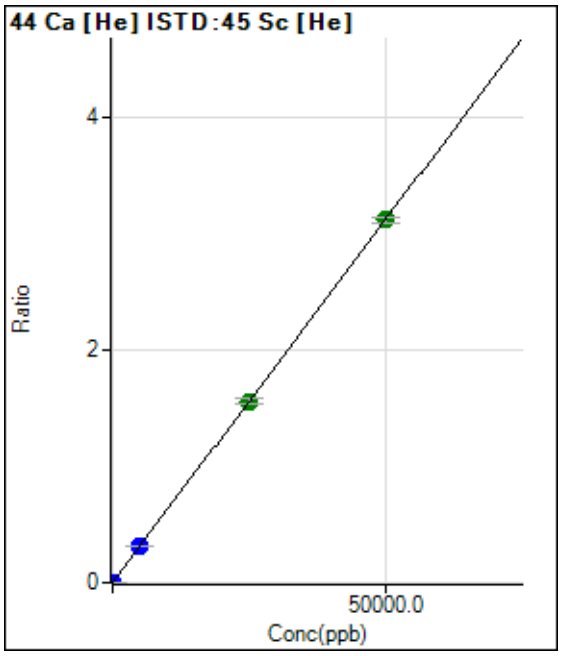
Calibration for 073_CCB.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38378.82	0.0470	P	4.6
2	☐	5000.000	5225.103	5292446.78	6.0971	A	1.6
3	☐	25000.000	24748.892	25316589.74	28.7034	A	4.5
4	☐	50000.000	50103.044	50031738.75	58.0607	A	1.7
5	☐			48461.95	0.0558	P	3.1

y = 0.0012 * x + 0.0470
R = 1.0000
DL = 5.609
BEC = 40.56

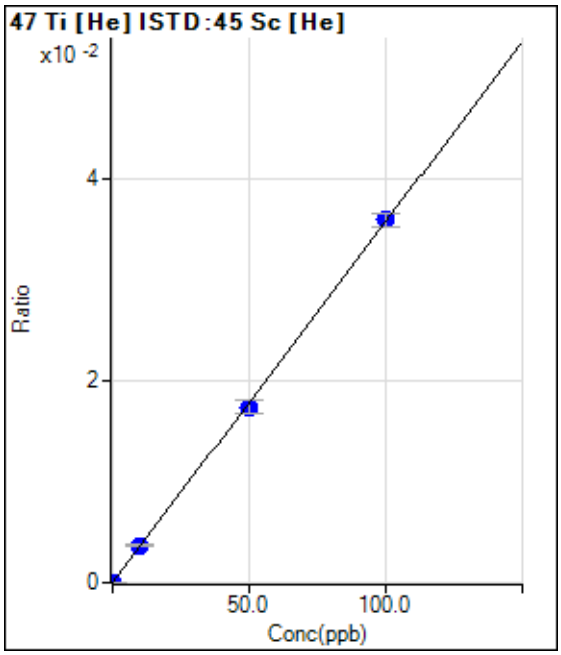
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	714.55	0.0009	P	11.3
2	☐	5000.000	5093.089	276726.29	0.3188	P	1.3
3	☐	25000.000	25020.072	1378439.12	1.5627	A	4.0
4	☐	50000.000	49980.655	2689231.35	3.1208	A	1.8
5	☐			1236.69	0.0014	P	4.1

y = 6.2423E-005 * x + 8.7421E-004
R = 1.0000
DL = 4.764
BEC = 14

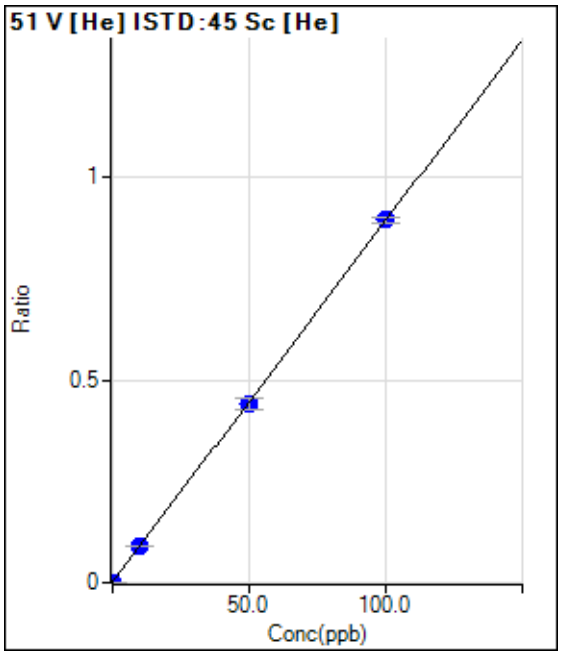
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	15.4
2	☐	10.000	10.148	3154.76	0.0036	P	4.9
3	☐	50.000	48.763	15344.44	0.0174	P	6.9
4	☐			27.78	0.0000	P	8.7
5	☐	100.000	100.604	31175.75	0.0359	P	3.8

y = 3.5680E-004 * x + 1.4942E-005
R = 0.9999
DL = 0.01929
BEC = 0.04188

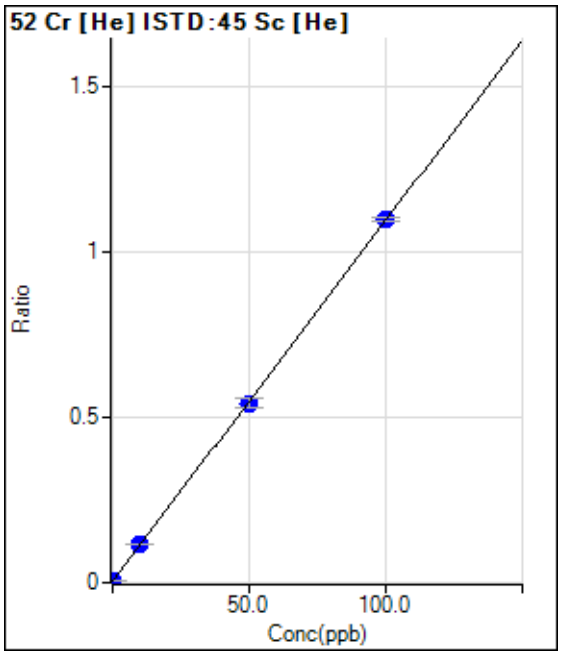
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	652.08	0.0008	P	28.4
2	☐	10.000	10.081	78780.24	0.0908	P	1.8
3	☐	50.000	49.457	389738.88	0.4421	P	5.8
4	☐	100.000	100.263	771662.80	0.8955	P	1.4
5	☐			672.02	0.0008	P	92.4

y = 0.0089 * x + 7.9957E-004
R = 1.0000
DL = 0.07641
BEC = 0.08961

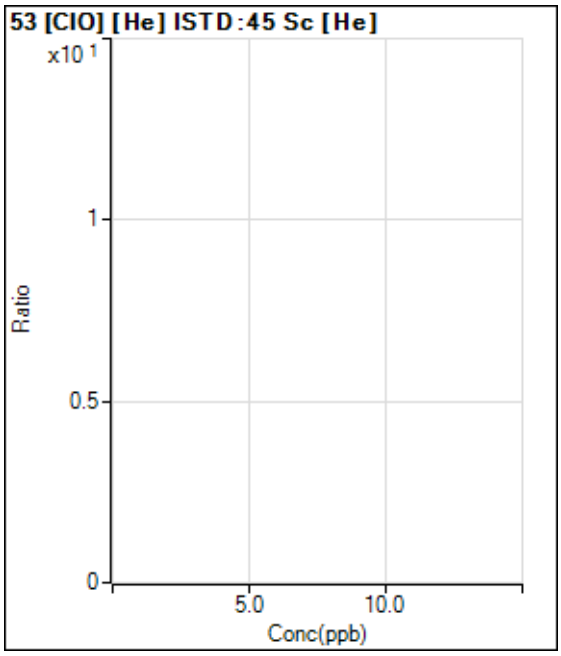
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2644.68	0.0032	P	8.1
2	☐	10.000	10.441	101681.06	0.1171	P	0.9
3	☐	50.000	49.504	479076.16	0.5433	P	4.8
4	☐	100.000	100.204	944823.33	1.0963	P	1.2
5	☐			3976.04	0.0046	P	8.9

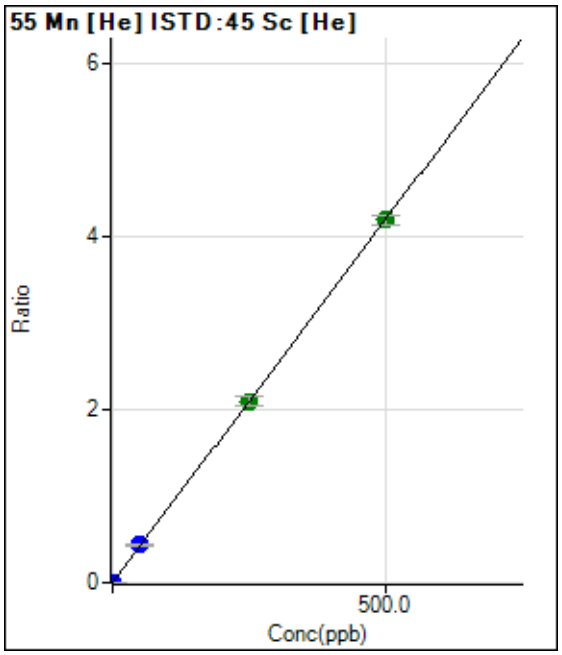
y = 0.0109 * x + 0.0032
R = 1.0000
DL = 0.07238
BEC = 0.2964

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			685.23	0.0008	P	9.9
2	☐			12819.87	0.0148	P	2.1
3	☐			58035.43	0.0658	P	3.4
4	☐			115803.91	0.1344	P	1.4
5	☐			781.54	0.0009	P	28.1

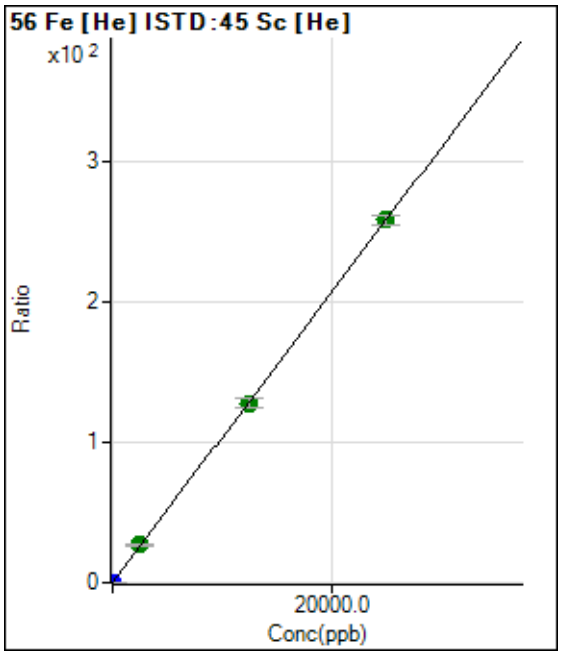
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	467.79	0.0006	P	8.3
2	☐	50.000	51.657	376642.77	0.4339	P	1.4
3	☐	250.000	250.245	1851360.97	2.0999	A	5.4
4	☐	500.000	499.712	3612538.05	4.1927	A	2.8
5	☐			1656.77	0.0019	P	3.3

y = 0.0084 * x + 5.7244E-004
R = 1.0000
DL = 0.01706
BEC = 0.06824

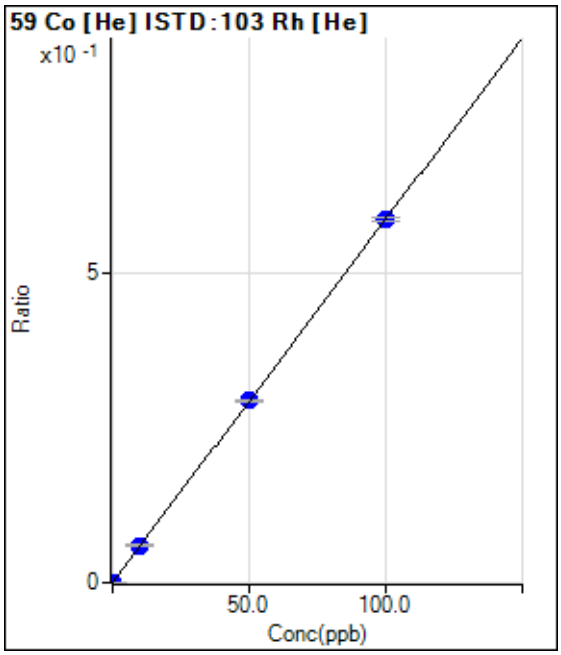
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13476.31	0.0165	P	2.9
2	☐	2500.000	2596.690	23252513.52	26.7880	A	1.9
3	☐	12500.000	12365.767	112418062.20	127.5057	A	5.4
4	☐	25000.000	25057.447	222606364.49	258.3551	A	2.6
5	☐			204783.86	0.2343	P	29.8

y = 0.0103 * x + 0.0165
R = 1.0000
DL = 0.1394
BEC = 1.599

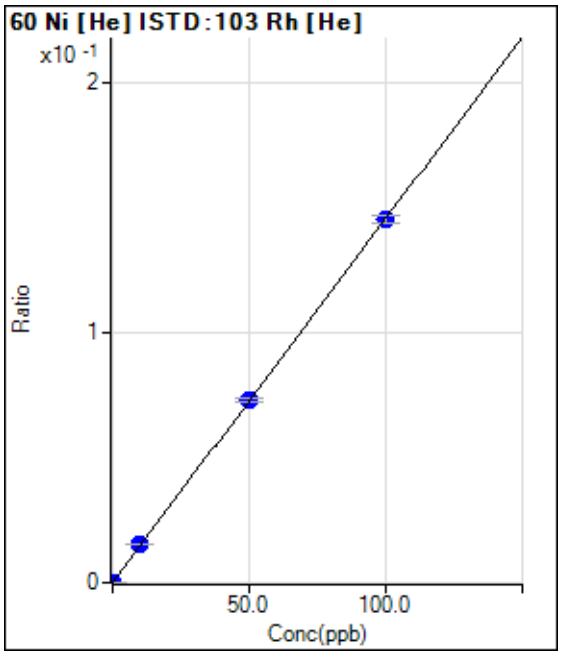
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	20.7
2	☐	10.000	10.298	142637.88	0.0605	P	3.4
3	☐	50.000	50.074	677222.91	0.2943	P	1.8
4	☐	100.000	99.933	1334585.02	0.5874	P	1.2
5	☐			151.11	0.0001	P	29.2

y = 0.0059 * x + 1.6197E-005
R = 1.0000
DL = 0.001711
BEC = 0.002756

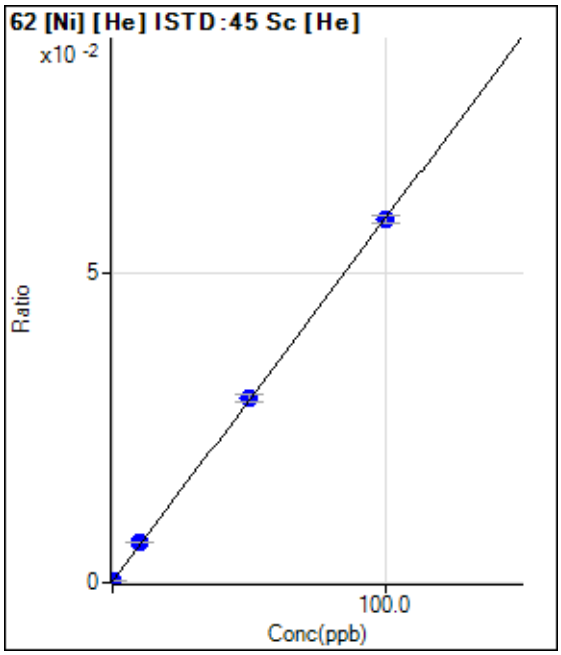
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.34	0.0000	P	12.1
2	☐	10.000	10.566	36359.02	0.0154	P	2.3
3	☐	50.000	50.407	169021.92	0.0735	P	2.1
4	☐	100.000	99.740	330150.67	0.1453	P	2.2
5	☐			246.67	0.0001	P	14.4

y = 0.0015 * x + 4.0142E-005
R = 1.0000
DL = 0.009969
BEC = 0.02756

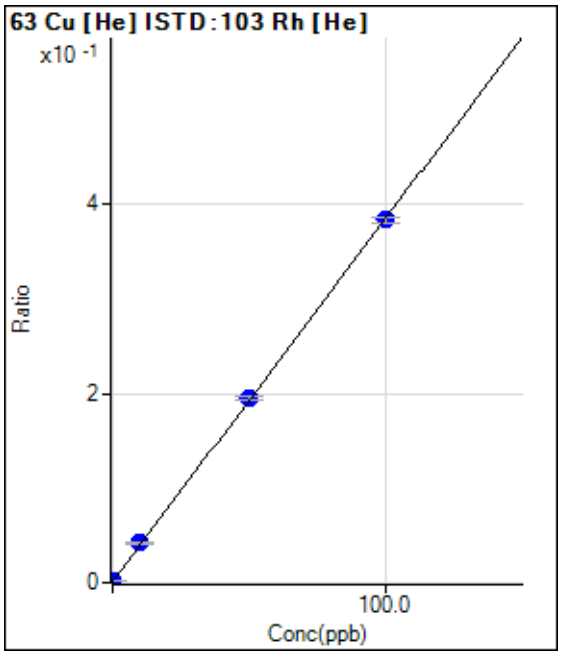
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.89	0.0002	P	16.3
2	☐	10.000	10.806	5670.98	0.0065	P	2.1
3	☐	50.000	50.683	26445.18	0.0300	P	4.0
4	☐	100.000	99.578	50596.38	0.0587	P	2.0
5	☐			183.34	0.0002	P	13.6

y = 5.8785E-004 * x + 1.8198E-004
R = 0.9999
DL = 0.1517
BEC = 0.3096

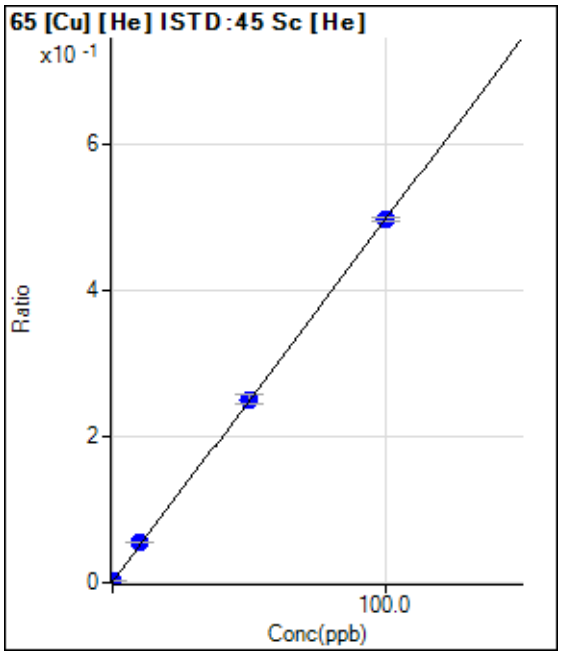
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3293.68	0.0014	P	3.2
2	☐	10.000	10.541	98656.99	0.0419	P	2.7
3	☐	50.000	50.673	450755.78	0.1959	P	1.8
4	☐	100.000	99.609	871823.26	0.3837	P	1.7
5	☐			3093.64	0.0013	P	5.1

y = 0.0038 * x + 0.0014
R = 1.0000
DL = 0.03509
BEC = 0.3687

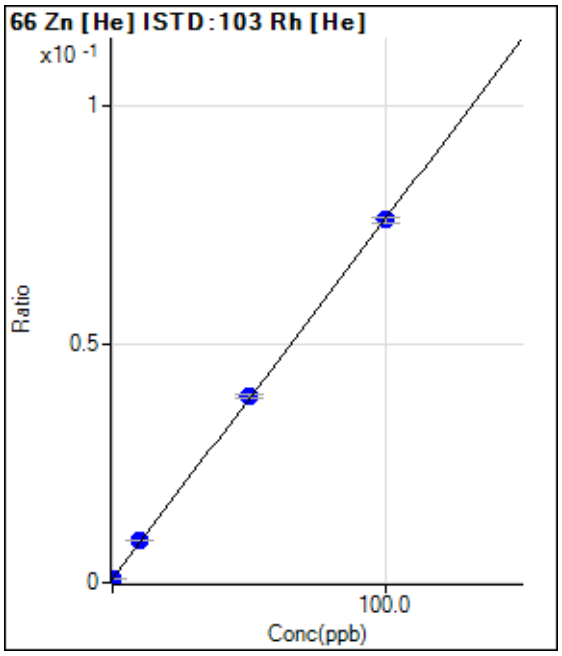
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1524.53	0.0019	P	7.5
2	☐	10.000	10.863	48407.23	0.0558	P	2.4
3	☐	50.000	50.231	221477.10	0.2511	P	4.9
4	☐	100.000	99.798	428402.52	0.4971	P	1.1
5	☐			1434.52	0.0017	P	2.9

y = 0.0050 * x + 0.0019
R = 1.0000
DL = 0.08474
BEC = 0.376

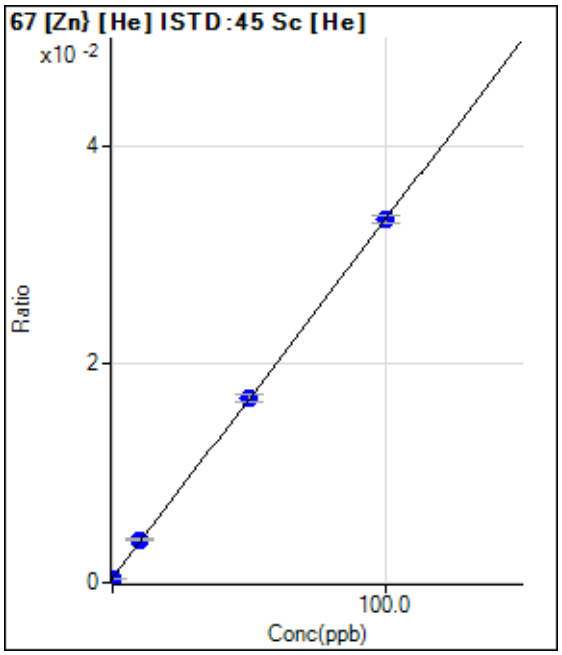
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2124.60	0.0009	P	3.0
2	☐	10.000	10.500	20803.33	0.0088	P	1.2
3	☐	50.000	50.616	89876.31	0.0391	P	2.0
4	☐	100.000	99.642	172705.99	0.0760	P	1.5
5	☐			2592.45	0.0011	P	2.9

y = 7.5372E-004 * x + 9.1238E-004
R = 1.0000
DL = 0.1099
BEC = 1.211

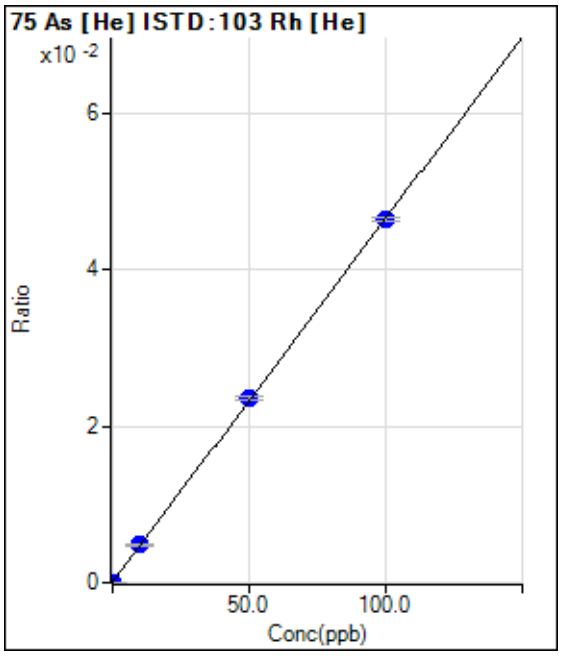
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0004	P	9.7
2	☐	10.000	10.708	3408.15	0.0039	P	3.4
3	☐	50.000	50.141	14895.25	0.0169	P	4.6
4	☐	100.000	99.859	28635.25	0.0332	P	2.2
5	☐			407.79	0.0005	P	4.7

y = 3.2871E-004 * x + 4.0735E-004
R = 1.0000
DL = 0.3615
BEC = 1.239

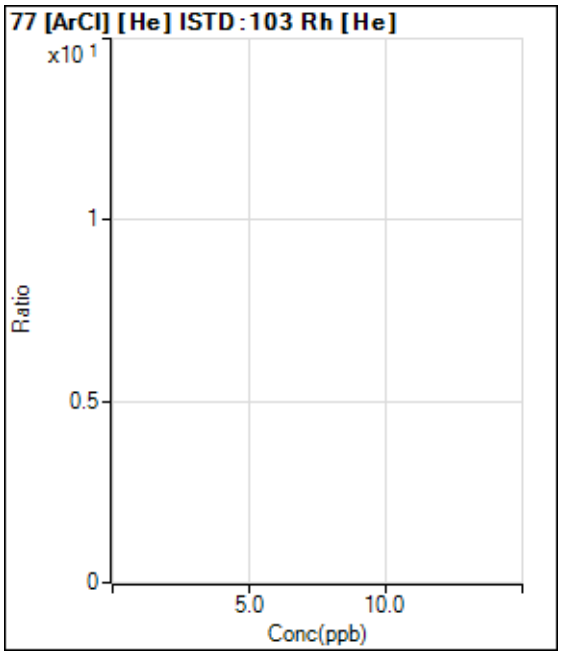
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.21	0.0000	P	3.8
2	☐	10.000	10.313	11396.10	0.0048	P	2.6
3	☐	50.000	50.574	54208.01	0.0236	P	1.6
4	☐	100.000	99.681	105414.88	0.0464	P	1.2
5	☐			344.56	0.0001	P	6.5

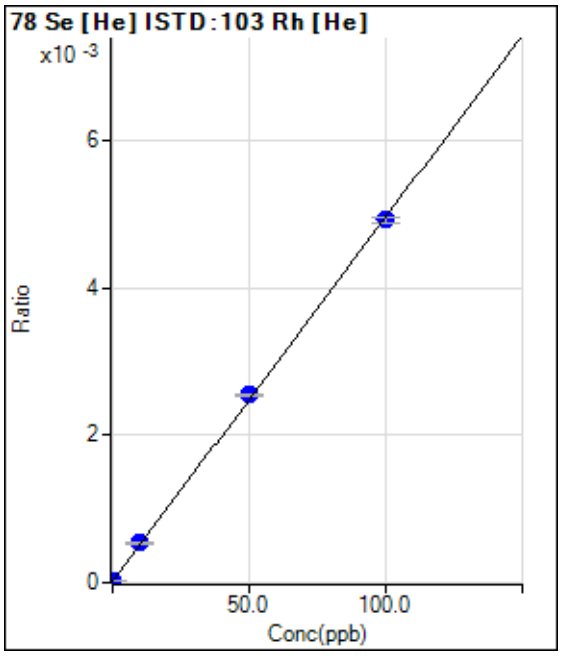
y = 4.6504E-004 * x + 4.0484E-005
R = 1.0000
DL = 0.009993
BEC = 0.08705

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			29.63	0.0000	P	41.6
2	☐			296.32	0.0001	P	23.3
3	☐			1522.36	0.0007	P	3.0
4	☐			3363.45	0.0015	P	6.6
5	☐			37.04	0.0000	P	34.3

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.15	0.0000	P	1.5
2	☐	10.000	10.522	1260.58	0.0005	P	6.3
3	☐	50.000	51.244	5856.36	0.0025	P	0.3
4	☐	100.000	99.326	11173.31	0.0049	P	1.4
5	☐			70.65	0.0000	P	14.6

y = 4.9351E-005 * x + 1.5957E-005

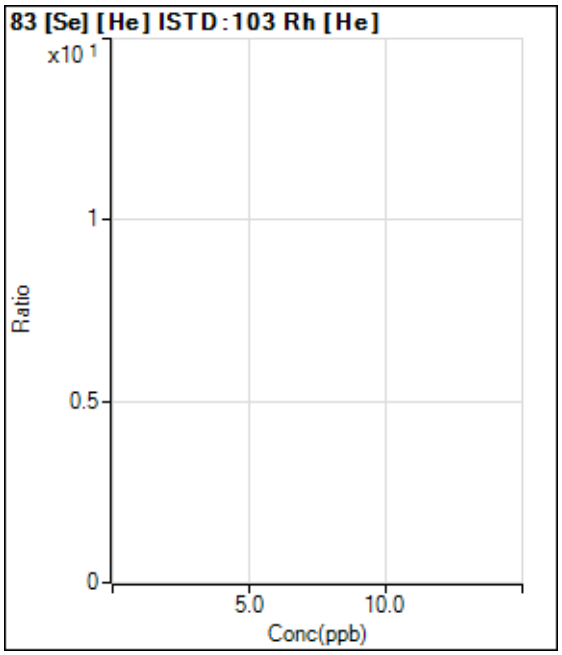
R = 0.9999

DL = 0.01428

BEC = 0.3233

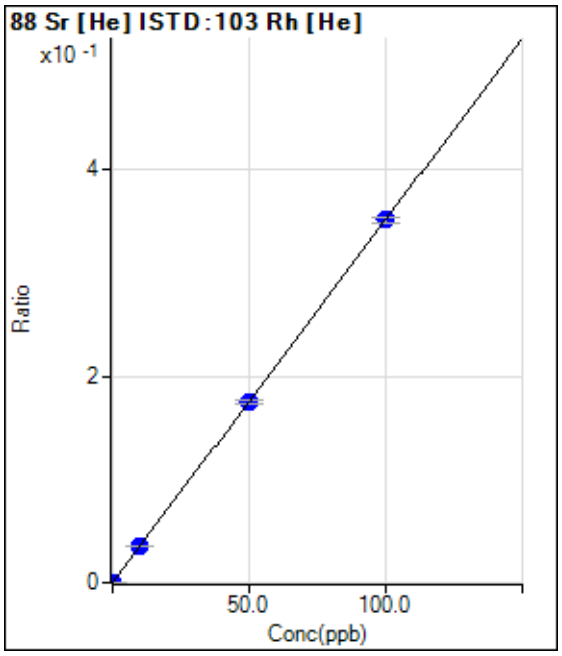
Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			244.11	0.0001	P	3.6
2	☐			238.39	0.0001	P	4.4
3	☐			231.32	0.0001	P	6.2
4	☐			226.60	0.0001	P	9.9
5	☐			224.58	0.0001	P	2.2

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0001	P	9.3
2	☐	10.000	10.134	84092.35	0.0357	P	3.0
3	☐	50.000	49.917	403659.05	0.1754	P	2.0
4	☐	100.000	100.028	798513.67	0.3515	P	1.9
5	☐			224.45	0.0001	P	6.5

y = 0.0035 * x + 9.3082E-005

R = 1.0000

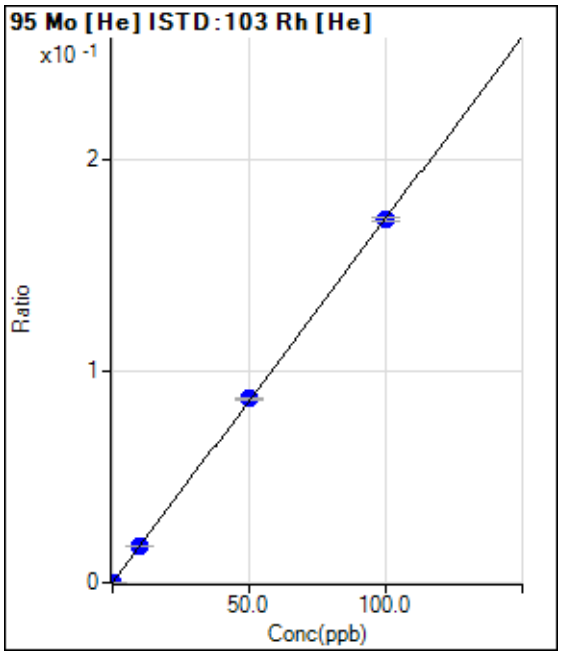
DL = 0.007399

BEC = 0.0265

Weight: <None>

Min Conc: <None>

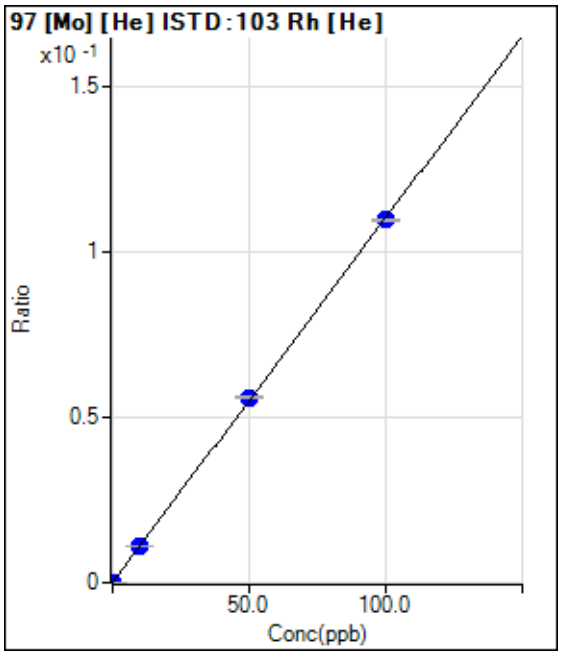
Calibration for 073_CCB.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0000	P	7.3
2	☐	10.000	10.131	41059.20	0.0174	P	1.9
3	☐	50.000	50.628	200078.32	0.0869	P	0.8
4	☐			3776.03	0.0017	P	19.7
5	☐	100.000	99.673	420606.55	0.1711	P	1.2

y = 0.0017 * x + 2.5308E-005
R = 1.0000
DL = 0.003238
BEC = 0.01474

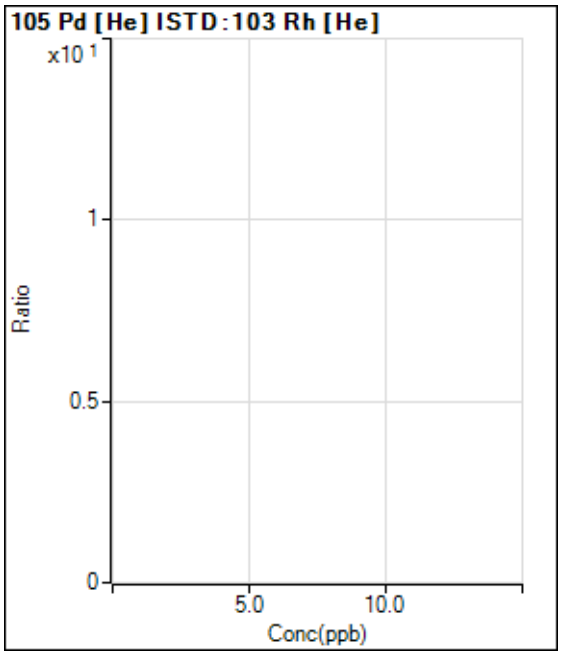
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.86	0.0000	P	32.9
2	☐	10.000	10.008	26016.68	0.0110	P	3.1
3	☐	50.000	50.904	129045.58	0.0561	P	1.5
4	☐			2667.03	0.0012	P	11.8
5	☐	100.000	99.547	269438.76	0.1096	P	0.7

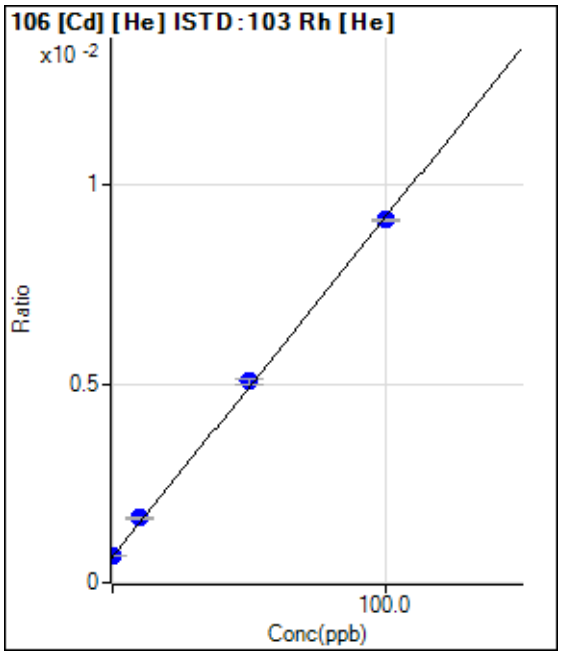
y = 0.0011 * x + 2.2272E-005
R = 0.9999
DL = 0.01995
BEC = 0.02023

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1507.55	0.0006	P	6.8
2	☐			1722.40	0.0007	P	9.4
3	☐			1877.98	0.0008	P	14.0
4	☐			2296.56	0.0010	P	4.5
5	☐			1685.35	0.0007	P	5.3

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1549.23	0.0007	P	1.2
2	☐	10.000	11.373	3856.33	0.0016	P	2.3
3	☐	50.000	51.447	11638.58	0.0051	P	2.3
4	☐	100.000	99.139	20747.69	0.0091	P	0.6
5	☐			1741.84	0.0007	P	3.1

y = 8.5390E-005 * x + 6.6544E-004

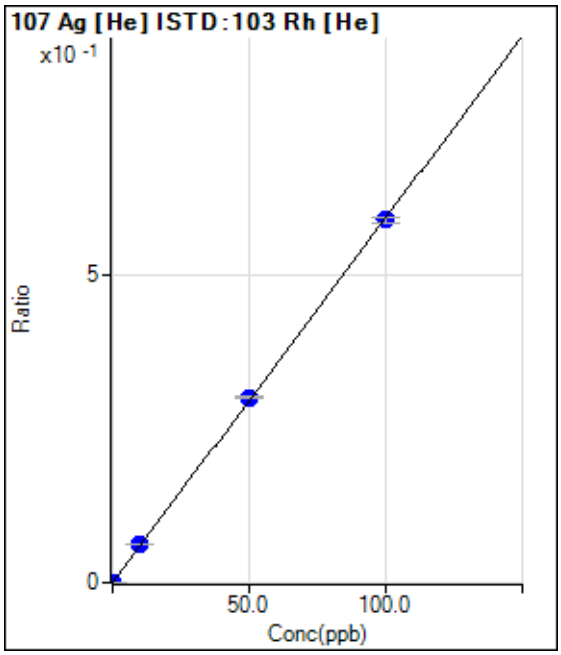
R = 0.9998

DL = 0.2758

BEC = 7.793

Weight: <None>

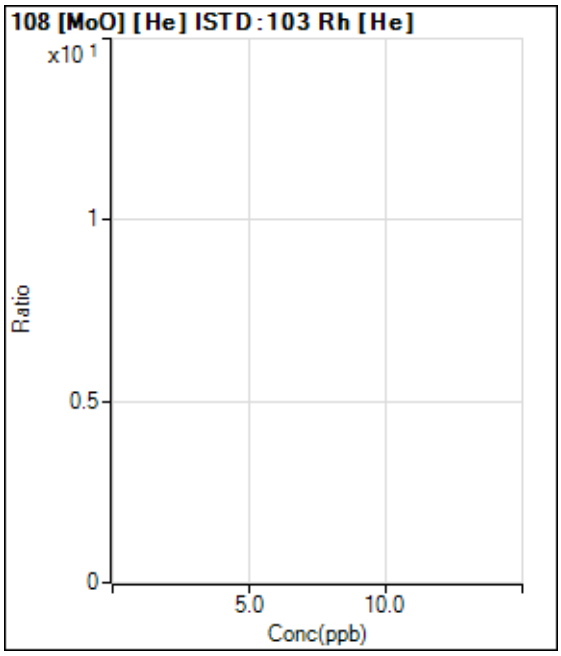
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	21.1
2	☐	10.000	10.529	147154.93	0.0625	P	2.8
3	☐	50.000	50.773	692946.33	0.3012	P	1.5
4	☐	100.000	99.560	1341659.70	0.5905	P	1.6
5	☐			371.12	0.0002	P	16.1

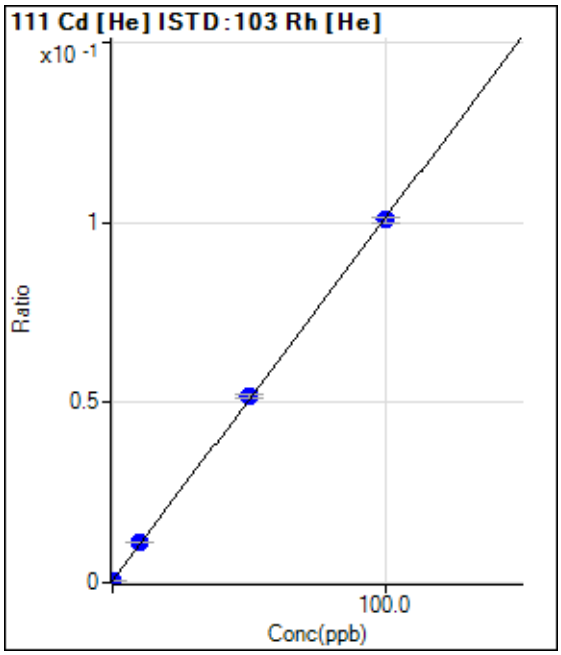
y = 0.0059 * x + 8.1230E-006
R = 0.9999
DL = 0.0008668
BEC = 0.00137

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.41	0.0000	P	173.2
2	☐			1670.55	0.0007	P	13.7
3	☐			7635.43	0.0033	P	4.7
4	☐			15085.00	0.0066	P	6.1
5	☐			211.12	0.0001	P	22.6

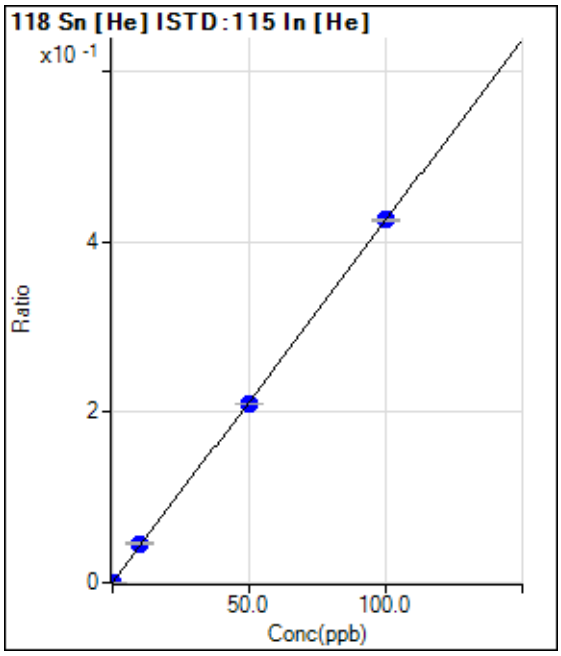
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1180.38	0.0005	P	1.5
2	☐	10.000	10.543	26236.12	0.0111	P	2.2
3	☐	50.000	50.981	119406.26	0.0519	P	1.6
4	☐	100.000	99.455	228925.25	0.1008	P	1.3
5	☐			1257.44	0.0005	P	4.2

y = 0.0010 * x + 5.0698E-004
R = 0.9999
DL = 0.02261
BEC = 0.503

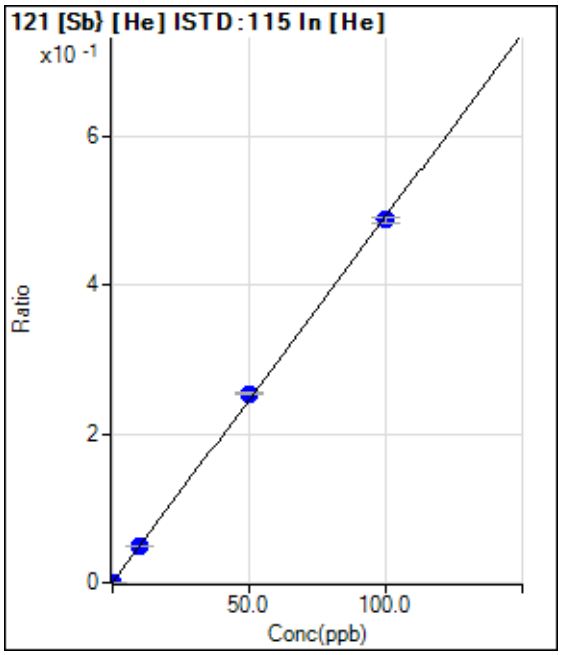
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	311.13	0.0002	P	12.4
2	☐	10.000	10.796	61422.61	0.0461	P	1.3
3	☐	50.000	49.478	272059.03	0.2103	P	0.3
4	☐			4237.77	0.0033	P	6.2
5	☐	100.000	100.181	572212.96	0.4255	P	0.5

y = 0.0042 * x + 2.3840E-004
R = 0.9999
DL = 0.02088
BEC = 0.05616

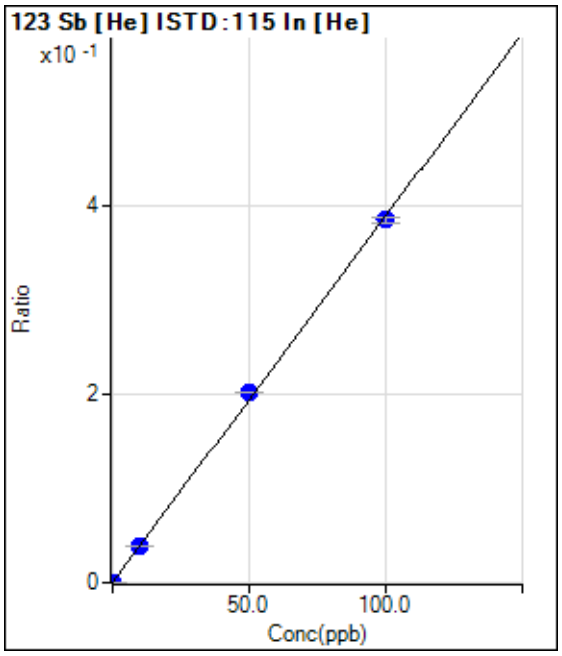
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	271.12	0.0002	P	3.7
2	☐	10.000	10.058	66159.00	0.0496	P	0.6
3	☐	50.000	51.723	329039.99	0.2543	P	0.4
4	☐			2655.81	0.0021	P	8.9
5	☐	100.000	99.132	655159.42	0.4872	P	1.2

y = 0.0049 * x + 2.0778E-004
R = 0.9997
DL = 0.004706
BEC = 0.04229

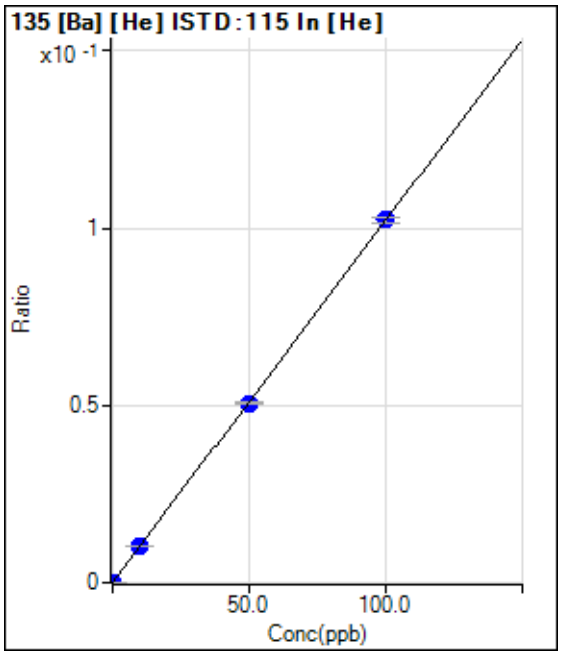
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0001	P	7.4
2	☐	10.000	9.928	51504.99	0.0386	P	1.0
3	☐	50.000	51.911	260596.65	0.2014	P	0.5
4	☐			2145.72	0.0017	P	9.0
5	☐	100.000	99.052	516595.95	0.3842	P	1.6

y = 0.0039 * x + 1.4041E-004
R = 0.9997
DL = 0.008055
BEC = 0.03621

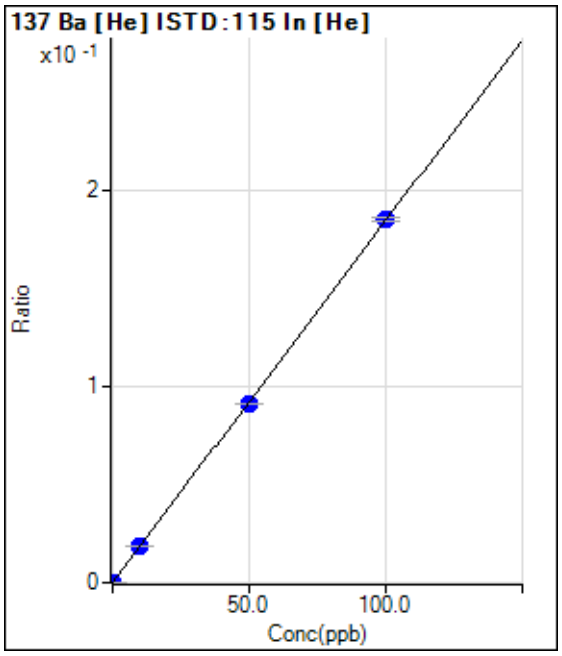
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	1.0
2	☐	10.000	10.081	13750.18	0.0103	P	2.7
3	☐	50.000	49.596	65550.43	0.0507	P	0.8
4	☐	100.000	100.194	129916.03	0.1023	P	1.5
5	☐			78.89	0.0001	P	7.5

y = 0.0010 * x + 2.0437E-005
R = 1.0000
DL = 0.0005789
BEC = 0.02001

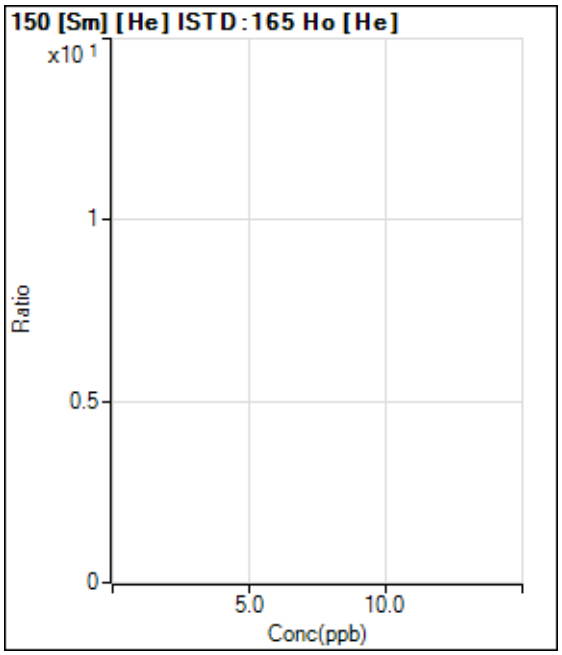
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	30.0
2	☐	10.000	9.872	24353.25	0.0183	P	0.9
3	☐	50.000	49.389	118080.69	0.0913	P	0.7
4	☐	100.000	100.318	235303.04	0.1853	P	1.2
5	☐			225.56	0.0002	P	18.3

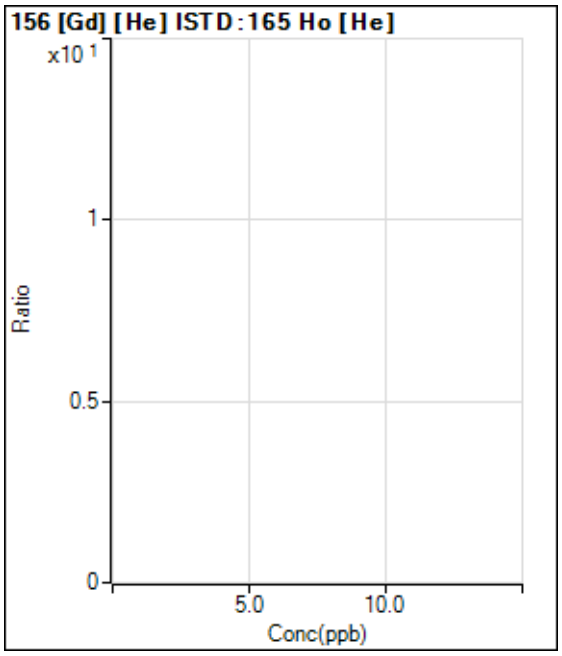
y = 0.0018 * x + 2.8892E-005
R = 1.0000
DL = 0.0141
BEC = 0.01564

Weight: <None>
Min Conc: <None>



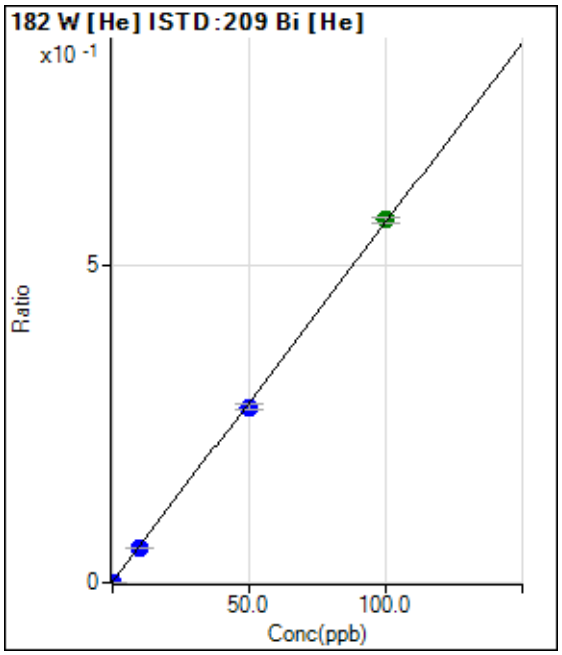
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5.33	0.0000	P	21.8
2	☐			6.67	0.0000	P	91.3
3	☐			13.33	0.0000	P	46.1
4	☐			14.67	0.0000	P	8.3
5	☐			6.67	0.0000	P	62.4

Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			16.67	0.0000	P	18.7
2	☐			10.00	0.0000	P	20.7
3	☐			20.00	0.0000	P	20.3
4	☐			24.00	0.0000	P	13.7
5	☐			5.33	0.0000	P	115.2

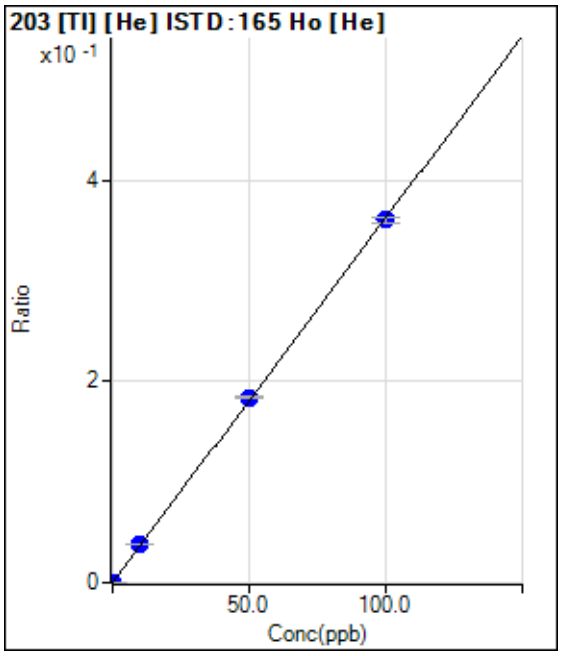
Excluded



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3830.30	0.0014	P	4.7
2	☐	10.000	9.200	150146.57	0.0534	P	1.3
3	☐	50.000	48.723	755610.07	0.2767	P	2.8
4	☐			18062.73	0.0067	P	13.5
5	☐	100.000	100.719	1687997.04	0.5706	A	1.5

y = 0.0057 * x + 0.0014
R = 0.9999
DL = 0.03381
BEC = 0.24

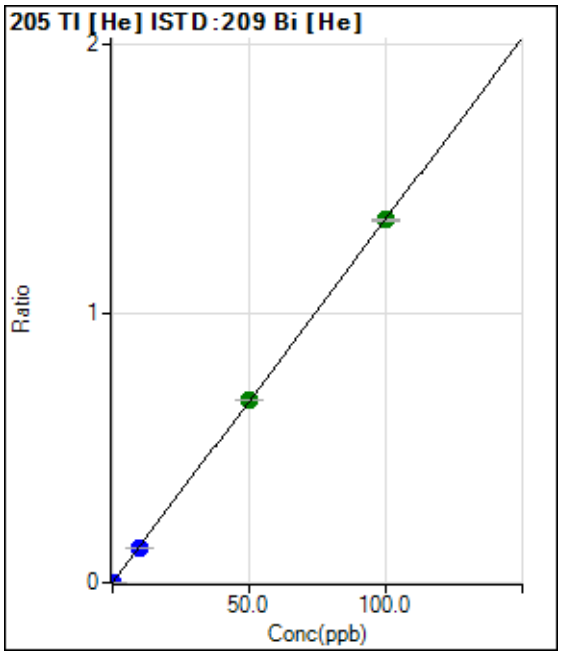
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.82	0.0000	P	173.2
2	☐	10.000	10.561	146856.81	0.0383	P	0.6
3	☐	50.000	50.760	711050.88	0.1839	P	0.8
4	☐	100.000	99.564	1392784.40	0.3608	P	1.5
5	☐			1414.95	0.0004	P	26.4

y = 0.0036 * x + 3.9724E-006
R = 0.9999
DL = 0.005697
BEC = 0.001096

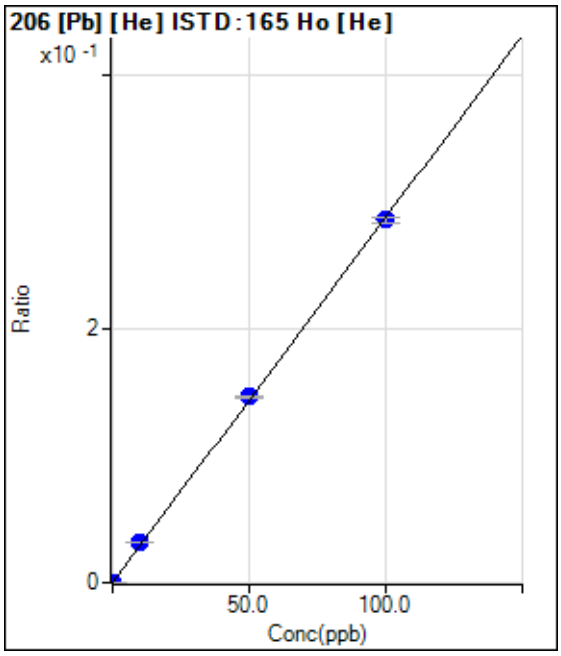
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	36.6
2	☐	10.000	9.597	364870.41	0.1297	P	3.2
3	☐	50.000	50.293	1856300.97	0.6797	A	0.7
4	☐	100.000	99.894	3643513.47	1.3500	A	0.4
5	☐			1756.80	0.0006	P	22.8

y = 0.0135 * x + 7.8434E-006
R = 1.0000
DL = 0.0006375
BEC = 0.0005804

Weight: <None>
Min Conc: <None>

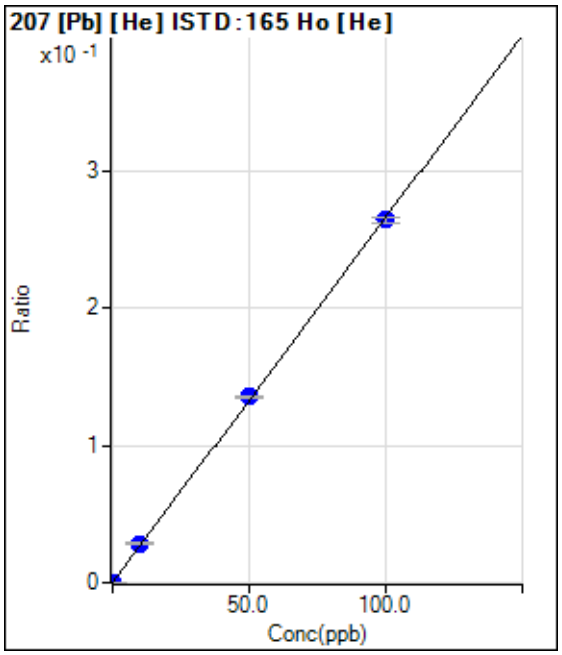


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	14.9
2	☐	10.000	10.871	120221.58	0.0313	P	0.4
3	☐	50.000	51.006	567782.02	0.1469	P	1.3
4	☐	100.000	99.410	1104954.40	0.2862	P	1.4
5	☐			878.93	0.0002	P	9.0

y = 0.0029 * x + 3.4080E-005
R = 0.9999
DL = 0.005305
BEC = 0.01184

Weight: <None>
Min Conc: <None>

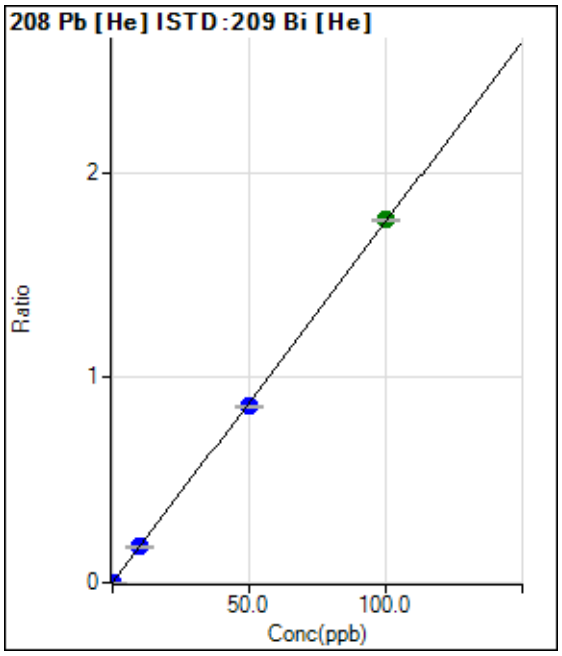
Calibration for 073_CCB.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.33	0.0000	P	11.9
2	☐	10.000	10.774	110112.76	0.0287	P	1.0
3	☐	50.000	50.949	524080.79	0.1356	P	1.2
4	☐	100.000	99.448	1021427.42	0.2646	P	1.8
5	☐			722.25	0.0002	P	4.9

y = 0.0027 * x + 3.5585E-005
R = 0.9999
DL = 0.004776
BEC = 0.01338

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	576.68	0.0002	P	5.5
2	☐	10.000	9.988	494422.91	0.1758	P	3.3
3	☐	50.000	48.922	2349154.02	0.8601	P	0.9
4	☐	100.000	100.540	4770235.40	1.7675	A	0.3
5	☐			3455.77	0.0012	P	9.7

y = 0.0176 * x + 2.0425E-004
R = 0.9999
DL = 0.001923
BEC = 0.01162

Weight: <None>
Min Conc: <None>

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	001CALB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T17:45:38-04:00
Sample Type	CalBlk
Level	
Dilution	1
Comment	6020/200.8

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	70	64.78
B	11	45	2	NoGas	5901	0.09
Na	23	45	1	He	17468	0.01
Mg	24	45	1	He	478	9.25
Al	27	45	1	He	10244	0.02
K	39	45	1	He	39377	0.00
Ca	44	45	1	He	749	0.74
Ti	47	45	1	He	2	7790.33
Cr	52	45	1	He	2582	0.16
Mn	55	45	1	He	528	1.92
Fe	56	45	1	He	13420	0.02
Co	59	103	1	He	48	42.14
Ni	60	103	1	He	66	71.65
Cu	63	103	1	He	3215	0.21
Zn	66	103	1	He	2159	0.09
As	75	103	1	He	97	12.58
Se	78	103	1	He	35	24.28
Sr	88	103	1	He	224	3.40
Mo	95	103	1	He	93	6.63
Ag	107	103	1	He	30	111.11
Cd	111	103	1	He	1220	0.09
Sn	118	115	1	He	315	9.53
Sb	123	115	1	He	206	3.56
Ba	137	115	1	He	56	59.47
W	182	209	1	He	4034	0.07
Tl	205	209	1	He	27	162.42
Pb	208	209	1	He	622	2.21

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	2072837	1.89
Sc	45	1	He	837283	0.29
Sc	45	2	NoGas	6043215	0.76
Rh	103	1	He	2343300	0.56
In	115	1	He	1313068	0.42
Tb	159	1	He	3773476	0.91
Ho	165	1	He	3770710	0.93
Bi	209	1	He	2802156	0.55

Calibration Blank Report

Sample Table

Sample Name	ICIS
Data File Name	002CALB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T17:49:31-04:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	6	2	NoGas	48	110.71
B	11	45	2	NoGas	5664	0.04
Na	23	45	1	He	17579	0.01
Mg	24	45	1	He	515	4.89
Al	27	45	1	He	10168	0.00
K	39	45	1	He	38379	0.01
Ca	44	45	1	He	715	1.55
Ti	47	45	1	He	12	128.75
V	51	45	1	He	652	4.17
Cr	52	45	1	He	2645	0.34
Mn	55	45	1	He	468	1.63
Fe	56	45	1	He	13476	0.01
Co	59	103	1	He	38	58.78
Ni	60	103	1	He	93	11.48
Cu	63	103	1	He	3294	0.06
Zn	66	103	1	He	2125	0.22
As	75	103	1	He	94	2.55
Se	78	103	1	He	37	5.50
Sr	88	103	1	He	217	4.26
Mo	95	103	1	He	59	11.09
Ag	107	103	1	He	19	107.76
Cd	111	103	1	He	1180	0.26
Sn	118	115	1	He	311	3.98
Sb	123	115	1	He	183	4.54
Ba	137	115	1	He	38	82.00
W	182	209	1	He	3830	0.16
Tl	205	209	1	He	22	169.94
Pb	208	209	1	He	577	1.16

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	2	NoGas	2077022	0.45
Sc	45	1	He	817536	1.51
Sc	45	2	NoGas	5970055	0.85
Rh	103	1	He	2327919	1.54
In	115	1	He	1305098	0.96
Tb	159	1	He	3765959	1.07
Ho	165	1	He	3748206	0.43
Bi	209	1	He	2822318	1.74

Calibration Standard Report

Sample Table

Sample Name	STD1-1906323
Data File Name	003CALS.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T17:53:22-04:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	61105	0.00
B	11	2	NoGas	51239	0.00
Na	23	1	He	10909770	0.00
Mg	24	1	He	6255359	0.00
Al	27	1	He	35271	0.01
K	39	1	He	5292447	0.00
Ca	44	1	He	276726	0.00
Ti	47	1	He	3155	0.11
V	51	1	He	78780	0.00
Cr	52	1	He	101681	0.00
Mn	55	1	He	376643	0.00
Fe	56	1	He	23252514	0.00
Co	59	1	He	142638	0.00
Ni	60	1	He	36359	0.00
Cu	63	1	He	98657	0.00
Zn	66	1	He	20803	0.01
As	75	1	He	11396	0.01
Se	78	1	He	1261	0.37
Sr	88	1	He	84092	0.00
Mo	95	1	He	41059	0.01
Ag	107	1	He	147155	0.00
Cd	111	1	He	26236	0.00
Sn	118	1	He	61423	0.00
Sb	123	1	He	51505	0.00
Ba	137	1	He	24353	0.01
W	182	1	He	150147	0.00
Tl	205	1	He	364870	0.00
Pb	208	1	He	494423	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2083752	0.91	2077022	100.32	30	120	
Sc	45	1	He	868166	2.07	817536	106.19	30	120	
Sc	45	2	NoGas	6171681	1.39	5970055	103.38	30	120	
Rh	103	1	He	2356981	2.17	2327919	101.25	30	120	
In	115	1	He	1333258	0.76	1305098	102.16	30	120	
Tb	159	1	He	3812068	1.74	3765959	101.22	30	120	
Ho	165	1	He	3837591	0.77	3748206	102.38	30	120	
Bi	209	1	He	2814414	2.35	2822318	99.72	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD2-1904110
Data File Name	004CALS.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T17:57:14-04:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	300578	0.00
B	11	2	NoGas	244015	0.00
Na	23	1	He	52641028	0.00
Mg	24	1	He	29823171	0.00
Al	27	1	He	161807	0.00
K	39	1	He	25316590	0.00
Ca	44	1	He	1378439	0.00
Ti	47	1	He	15344	0.01
V	51	1	He	389739	0.00
Cr	52	1	He	479076	0.00
Mn	55	1	He	1851361	0.00
Fe	56	1	He	112418062	0.00
Co	59	1	He	677223	0.00
Ni	60	1	He	169022	0.00
Cu	63	1	He	450756	0.00
Zn	66	1	He	89876	0.00
As	75	1	He	54208	0.00
Se	78	1	He	5856	0.02
Sr	88	1	He	403659	0.00
Mo	95	1	He	200078	0.00
Ag	107	1	He	692946	0.00
Cd	111	1	He	119406	0.00
Sn	118	1	He	272059	0.00
Sb	123	1	He	260597	0.00
Ba	137	1	He	118081	0.00
W	182	1	He	755610	0.00
Tl	205	1	He	1856301	0.00
Pb	208	1	He	2349154	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2114346	0.87	2077022	101.80	30	120	
Sc	45	1	He	883361	5.36	817536	108.05	30	120	
Sc	45	2	NoGas	6194629	1.53	5970055	103.76	30	120	
Rh	103	1	He	2301168	1.05	2327919	98.85	30	120	
In	115	1	He	1293841	0.20	1305098	99.14	30	120	
Tb	159	1	He	3828003	0.54	3765959	101.65	30	120	
Ho	165	1	He	3866034	0.30	3748206	103.14	30	120	
Bi	209	1	He	2731367	1.73	2822318	96.78	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD3-1906333
Data File Name	005CALS.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:00:59-04:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	629972	0.00
B	11	2	NoGas	8754	0.09
Na	23	1	He	104738711	0.00
Mg	24	1	He	59007925	0.00
Al	27	1	He	322082	0.00
K	39	1	He	50031739	0.00
Ca	44	1	He	2689231	0.00
Ti	47	1	He	28	24.91
V	51	1	He	771663	0.00
Cr	52	1	He	944823	0.00
Mn	55	1	He	3612538	0.00
Fe	56	1	He	222606364	0.00
Co	59	1	He	1334585	0.00
Ni	60	1	He	330151	0.00
Cu	63	1	He	871823	0.00
Zn	66	1	He	172706	0.00
As	75	1	He	105415	0.00
Se	78	1	He	11173	0.00
Sr	88	1	He	798514	0.00
Mo	95	1	He	3776	0.52
Ag	107	1	He	1341660	0.00
Cd	111	1	He	228925	0.00
Sn	118	1	He	4238	0.15
Sb	123	1	He	2146	0.42
Ba	137	1	He	235303	0.00
W	182	1	He	18063	0.08
Tl	205	1	He	3643513	0.00
Pb	208	1	He	4770235	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2097365	0.97	2077022	100.98	30	120	
Sc	45	1	He	861888	1.81	817536	105.43	30	120	
Sc	45	2	NoGas	6317964	1.54	5970055	105.83	30	120	
Rh	103	1	He	2272304	1.32	2327919	97.61	30	120	
In	115	1	He	1269569	0.05	1305098	97.28	30	120	
Tb	159	1	He	3830837	0.69	3765959	101.72	30	120	
Ho	165	1	He	3860975	0.74	3748206	103.01	30	120	
Bi	209	1	He	2698897	0.67	2822318	95.63	30	120	

Calibration Standard Report

Sample Table

Sample Name	STD4-1906536
Data File Name	006CALS.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:04:43-04:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	2	NoGas	115	4.87
B	11	2	NoGas	441329	0.00
Na	23	1	He	55362	0.01
Mg	24	1	He	5542	0.51
Al	27	1	He	2801	0.13
K	39	1	He	48462	0.00
Ca	44	1	He	1237	0.40
Ti	47	1	He	31176	0.01
V	51	1	He	672	13.75
Cr	52	1	He	3976	0.15
Mn	55	1	He	1657	0.23
Fe	56	1	He	204784	0.02
Co	59	1	He	151	19.93
Ni	60	1	He	247	5.77
Cu	63	1	He	3094	0.14
Zn	66	1	He	2592	0.11
As	75	1	He	345	2.08
Se	78	1	He	71	20.16
Sr	88	1	He	224	3.26
Mo	95	1	He	420607	0.00
Ag	107	1	He	371	4.58
Cd	111	1	He	1257	0.37
Sn	118	1	He	572213	0.00
Sb	123	1	He	516596	0.00
Ba	137	1	He	226	8.35
W	182	1	He	1687997	0.00
Tl	205	1	He	1757	1.28
Pb	208	1	He	3456	0.27

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2059994	2.26	2077022	99.18	30	120	
Sc	45	1	He	868762	3.36	817536	106.27	30	120	
Sc	45	2	NoGas	5991955	1.52	5970055	100.37	30	120	
Rh	103	1	He	2457674	0.81	2327919	105.57	30	120	
In	115	1	He	1344825	1.32	1305098	103.04	30	120	
Tb	159	1	He	3907042	1.40	3765959	103.75	30	120	
Ho	165	1	He	3958788	1.02	3748206	105.62	30	120	
Bi	209	1	He	2958208	0.36	2822318	104.81	30	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV-1905741
Data File Name	007_ICV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:08:33-04:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	NoGas	40.193	1.426	249891	1.39	40	100.5	89.5	110.5	
B	11	45	NoGas	45.705	2.416	213477	2.24	40	114.3	89.5	110.5	ICV Failed
Na	23	45	He	20790.058	0.422	43280762	0.58	20000	104.0	89.5	110.5	
Mg	24	45	He	21200.915	1.515	24888285	0.85	20000	106.0	89.5	110.5	
Al	27	45	He	200.588	0.882	133649	0.12	200	100.3	89.5	110.5	
K	39	45	He	20967.040	1.597	20892733	0.68	20000	104.8	89.5	110.5	
Ca	44	45	He	20339.753	0.455	1091372	0.54	20000	101.7	89.5	110.5	
Ti	47	45	He	42.293	2.274	12974	1.37	40	105.7	89.5	110.5	
V	51	45	He	41.548	1.362	319135	1.09	40	103.9	89.5	110.5	
Cr	52	45	He	41.780	0.572	394277	0.35	40	104.5	89.5	110.5	
Mn	55	45	He	212.802	1.666	1533856	0.98	200	106.4	89.5	110.5	
Fe	56	45	He	10529.372	0.464	93261512	0.45	10000	105.3	89.5	110.5	
Co	59	103	He	39.854	0.945	556458	1.07	40	99.6	89.5	110.5	
Ni	60	103	He	41.106	0.987	142316	0.96	40	102.8	89.5	110.5	
Cu	63	103	He	40.856	1.149	375839	1.28	40	102.1	89.5	110.5	
Zn	66	103	He	40.801	0.475	75218	1.04	40	102.0	89.5	110.5	
As	75	103	He	38.763	1.273	42914	0.86	40	96.9	89.5	110.5	
Se	78	103	He	40.916	0.611	4834	1.17	40	102.3	89.5	110.5	
Sr	88	103	He	40.346	0.742	336864	0.17	40	100.9	89.5	110.5	
Mo	95	103	He	42.127	1.020	171861	1.10	40	105.3	89.5	110.5	
Ag	107	103	He	41.106	0.841	579159	1.05	40	102.8	89.5	110.5	
Cd	111	103	He	41.116	0.883	99649	0.70	40	102.8	89.5	110.5	
Sn	118	115	He	40.978	0.754	228224	1.15	40	102.4	89.5	110.5	
Sb	123	115	He	37.258	1.298	189450	1.28	40	93.1	89.5	110.5	
Ba	137	115	He	40.437	0.679	97903	0.31	40	101.1	89.5	110.5	
W	182	209	He	38.364	1.838	613208	1.16	40	95.9	89.5	110.5	
Tl	205	209	He	38.162	0.481	1449571	0.21	40	95.4	89.5	110.5	
Pb	208	209	He	39.821	0.766	1967974	0.59	40	99.6	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	NoGas	2092149	0.26	2077022	100.73	30	120	
Sc	45	He	859001	0.91	817536	105.07	30	120	
Sc	45	NoGas	6176005	0.68	5970055	103.45	30	120	
Rh	103	He	2375375	0.59	2327919	102.04	30	120	
In	115	He	1310180	0.44	1305098	100.39	30	120	
Tb	159	He	3870929	1.12	3765959	102.79	30	120	
Ho	165	He	3933849	1.11	3748206	104.95	30	120	
Bi	209	He	2810751	0.68	2822318	99.59	30	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	008_ICB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:12:22-04:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Ti	47	1	He	0.024	47.8	20	16.7	20	
W	182	1	He	1.002	15.8	20514	12.5	10	
Ca	44	1	He	0.786	297.1	783	16.6	1000	
Na	23	1	He	10.862	12.0	40490	5.4	400	
Mg	24	1	He	2.148	14.5	3019	10.7	1000	
K	39	1	He	6.305	18.9	45970	1.6	1000	
V	51	1	He	-0.022	-250.3	510	81.8	2	
Cr	52	1	He	-0.001	-1889.2	2730	4.5	2	
Mn	55	1	He	0.037	46.2	744	15.0	2	
Fe	56	1	He	13.130	31.4	128365	26.7	50	
Co	59	1	He	0.004	53.9	98	31.7	1	
Ni	60	1	He	-0.008	-9.0	70	4.8	2	
Cu	63	1	He	-0.085	-14.9	2709	4.9	2	
Zn	66	1	He	-0.379	-13.3	1560	5.1	20	
As	75	1	He	0.037	22.8	144	6.5	2	
Se	78	1	He	0.035	169.4	44	16.0	2	
Sr	88	1	He	0.003	102.6	257	9.4	10	
Mo	95	1	He	0.897	14.8	3897	14.9	2	
Ag	107	1	He	0.012	35.8	196	32.2	0.2	
Cd	111	1	He	0.008	268.6	1281	3.1	0.2	
Ba	137	1	He	0.011	71.2	68	30.1	5	
Sn	118	1	He	0.493	3.2	3167	2.8	10	
Tl	205	1	He	0.023	17.9	914	17.3	0.5	
Pb	208	1	He	0.016	22.9	1421	13.1	1	
Al	27	1	He	-0.317	-143.3	10347	2.4	50	
Sb	123	1	He	1.379	22.2	7454	21.7	1	ICB Failed
B	11	2	NoGas	2.118	6.0	16019	2.4	20	
Be	9	2	NoGas	0.002	192.8	63	36.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2186151	1.40	2077022	105.25	30	120	
Sc	45	1	He	847269	1.26	817536	103.64	30	120	
Sc	45	2	NoGas	6393181	1.32	5970055	107.09	30	120	
Rh	103	1	He	2489331	0.99	2327919	106.93	30	120	
In	115	1	He	1358766	0.11	1305098	104.11	30	120	

Tb	159	1	He	3911656	0.61	3765959	103.87	30	120	
Ho	165	1	He	3922055	0.88	3748206	104.64	30	120	
Bi	209	1	He	2923673	0.20	2822318	103.59	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1912660
Data File Name	009CRIA.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:16:15-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.967	0.967	3.888	6253	4.39	1	96.7	69.5	130.5	
B	11	2	NoGas	21.084	21.084	3.466	106050	2.57	20	105.4	69.5	130.5	
Na	23	1	He	1069.625	1069.625	1.096	2316959	0.35	1000	107.0	69.5	130.5	
Mg	24	1	He	1093.333	1093.333	0.322	1325799	1.39	1000	109.3	69.5	130.5	
Al	27	1	He	38.467	38.467	1.435	35380	1.61	50	76.9	69.5	130.5	
K	39	1	He	1044.011	1044.011	0.549	1113725	0.95	1000	104.4	69.5	130.5	
Ca	44	1	He	1028.879	1028.879	1.939	57735	2.23	1000	102.9	69.5	130.5	
Ti	47	1	He	10.518	10.518	4.040	3340	2.62	10	105.2	69.5	130.5	
V	51	1	He	5.163	5.163	2.844	41573	3.67	5	103.3	69.5	130.5	
Cr	52	1	He	2.118	2.118	2.979	23350	1.23	2	105.9	69.5	130.5	
Mn	55	1	He	5.260	5.260	0.761	39645	1.93	5	105.2	69.5	130.5	
Fe	56	1	He	106.824	106.824	1.237	991279	0.27	100	106.8	69.5	130.5	
Co	59	1	He	0.981	0.981	1.654	14558	1.28	1	98.1	69.5	130.5	
Ni	60	1	He	2.009	2.009	2.825	7466	2.11	2	100.4	69.5	130.5	
Cu	63	1	He	2.008	2.008	1.918	22968	1.35	2	100.4	69.5	130.5	
Zn	66	1	He	20.189	20.189	1.809	40604	1.30	20	100.9	69.5	130.5	
As	75	1	He	5.022	5.022	1.993	5981	1.64	5	100.4	69.5	130.5	
Se	78	1	He	5.158	5.158	5.481	681	4.89	5	103.2	69.5	130.5	
Sr	88	1	He	9.483	9.483	0.705	84098	0.73	10	94.8	69.5	130.5	
Mo	95	1	He	10.452	10.452	2.070	45237	1.53	10	104.5	69.5	130.5	
Ag	107	1	He	1.038	1.038	1.236	15524	0.55	1	103.8	69.5	130.5	
Cd	111	1	He	0.990	0.990	7.103	3788	4.23	1	99.0	69.5	130.5	
Sn	118	1	He	10.117	10.117	1.510	59690	1.24	10	101.2	69.5	130.5	
Sb	123	1	He	2.321	2.321	2.832	12631	2.59	2	116.0	69.5	130.5	
Ba	137	1	He	4.962	4.962	1.717	12709	1.47	5	99.2	69.5	130.5	
W	182	1	He	9.463	9.463	0.858	161571	0.80	10	94.6	69.5	130.5	
Tl	205	1	He	1.891	1.891	1.537	75310	1.26	2	94.5	69.5	130.5	
Pb	208	1	He	1.037	1.037	0.487	54321	0.44	1	103.7	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2158233	0.77	2077022	103.91	30	120	
Sc	45	1	He	886895	1.41	817536	108.48	30	120	
Sc	45	2	NoGas	6445133	0.92	5970055	107.96	30	120	
Rh	103	1	He	2517557	0.70	2327919	108.15	30	120	
In	115	1	He	1382211	0.27	1305098	105.91	30	120	
Tb	159	1	He	3916248	0.24	3765959	103.99	30	120	
Ho	165	1	He	3981847	0.28	3748206	106.23	30	120	
Bi	209	1	He	2946318	0.29	2822318	104.39	30	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA-1912681
Data File Name	010ICSA.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:20:05-04:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.011	67.4	100	40.1	1	
B	11	45	2	NoGas	1.543	9.0	11278	5.6	20	
Na	23	45	1	He	48418.178	4.5	94219918	1.5	75200	
Mg	24	45	1	He	49208.382	4.3	54016737	1.5	75200	
Al	27	45	1	He	48699.679	3.6	27932561	2.3	75200	
K	39	45	1	He	48808.791	4.5	45425602	1.3	75200	
Ca	44	45	1	He	49501.165	3.1	2483748	2.8	75200	
Ti	47	45	1	He	993.617	4.5	284733	1.3	1505	
V	51	45	1	He	-0.045	-105.5	335	109.1	4	
Cr	52	45	1	He	0.651	5.4	8309	3.1	4	
Mn	55	45	1	He	0.342	4.2	2765	2.8	4	
Fe	56	45	1	He	49593.768	3.7	410784233	2.3	75200	
Co	59	103	1	He	0.029	7.8	396	7.2	2	
Ni	60	103	1	He	0.091	21.3	361	16.3	4	
Cu	63	103	1	He	0.194	13.5	4526	4.8	4	
Zn	66	103	1	He	0.581	3.7	2831	1.3	10	
As	75	103	1	He	0.093	17.2	176	9.1	4	
Se	78	103	1	He	0.146	85.1	49	26.7	4	
Sr	88	103	1	He	0.336	4.9	2674	4.6	20	
Mo	95	103	1	He	1050.585	1.0	3781947	0.8	1505	
Ag	107	103	1	He	0.015	6.3	207	5.6	1	
Cd	111	103	1	He	0.045	146.4	1158	11.8	1	
Sn	118	115	1	He	0.373	10.7	2178	9.2	20	
Sb	123	115	1	He	0.316	7.6	1631	7.4	1	
Ba	137	115	1	He	0.045	16.1	133	11.5	2	
W	182	209	1	He	0.382	13.4	9184	7.0	20	
Tl	205	209	1	He	0.006	19.0	247	17.7	1	
Pb	208	209	1	He	0.099	1.6	5073	1.0	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1781961	0.68	2077022	85.79	30	120	
Sc	45	1	He	804531	5.90	817536	98.41	30	120	
Sc	45	2	NoGas	5410368	0.82	5970055	90.63	30	120	
Rh	103	1	He	2096763	0.23	2327919	90.07	30	120	
In	115	1	He	1194876	0.60	1305098	91.55	30	120	
Tb	159	1	He	3605414	1.07	3765959	95.74	30	120	
Ho	165	1	He	3662294	0.47	3748206	97.71	30	120	
Bi	209	1	He	2613379	1.55	2822318	92.60	30	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB-1883162
Data File Name	011ICAB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:23:51-04:00
Sample Type	ICSAB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTDMass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	6	2	NoGas	106.822	1.306	560183	0.42	100	106.8	79.5	120.5	
B	11	45	2	NoGas	109.786	0.450	450785	0.69	100	109.8	79.5	120.5	
Na	23	45	1	He	49793.415	3.860	92621382	0.94	50000	99.6	79.5	120.5	
Mg	24	45	1	He	51098.476	3.167	53621931	0.82	50000	102.2	79.5	120.5	
Al	27	45	1	He	49728.723	2.534	27264654	1.64	50000	99.5	79.5	120.5	
K	39	45	1	He	49760.945	3.236	44275451	0.85	50000	99.5	79.5	120.5	
Ca	44	45	1	He	50085.944	2.768	2401530	1.23	50000	100.2	79.5	120.5	
Ti	47	45	1	He	1123.754	3.579	307842	0.46	1100	102.2	79.5	120.5	
V	51	45	1	He	102.094	3.047	700153	1.51	100	102.1	79.5	120.5	
Cr	52	45	1	He	104.005	3.165	873636	0.82	100	104.0	79.5	120.5	
Mn	55	45	1	He	101.156	2.956	652068	1.39	100	101.2	79.5	120.5	
Fe	56	45	1	He	51803.373	3.202	410093859	0.95	50000	103.6	79.5	120.5	
Co	59	103	1	He	99.100	1.499	1233836	1.33	100	99.1	79.5	120.5	
Ni	60	103	1	He	99.202	1.346	306158	1.21	100	99.2	79.5	120.5	
Cu	63	103	1	He	98.713	1.371	805517	1.14	100	98.7	79.5	120.5	
Zn	66	103	1	He	98.857	1.194	159763	1.05	100	98.9	79.5	120.5	
As	75	103	1	He	99.075	1.181	97680	0.98	100	99.1	79.5	120.5	
Se	78	103	1	He	99.684	1.720	10454	1.50	100	99.7	79.5	120.5	
Sr	88	103	1	He	99.394	0.603	739783	0.48	100	99.4	79.5	120.5	
Mo	95	103	1	He	1171.247	1.601	4259634	1.73	1100	106.5	79.5	120.5	
Ag	107	103	1	He	100.359	0.969	1260887	0.75	100	100.4	79.5	120.5	
Cd	111	103	1	He	100.765	0.771	216223	0.55	100	100.8	79.5	120.5	
Sn	118	115	1	He	100.537	0.575	504995	0.42	100	100.5	79.5	120.5	
Sb	123	115	1	He	107.218	1.021	491783	0.63	100	107.2	79.5	120.5	
Ba	137	115	1	He	102.664	1.436	224308	1.28	100	102.7	79.5	120.5	
W	182	209	1	He	105.766	5.884	1559895	4.93	100	105.8	79.5	120.5	
Tl	205	209	1	He	101.386	0.990	3568533	0.54	100	101.4	79.5	120.5	
Pb	208	209	1	He	102.665	0.469	4700709	0.73	100	102.7	79.5	120.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1765040	1.17	2077022	84.98	30	120	
Sc	45	1	He	768471	4.02	817536	94.00	30	120	
Sc	45	2	NoGas	5517526	0.24	5970055	92.42	30	120	
Rh	103	1	He	2118258	0.22	2327919	90.99	30	120	
In	115	1	He	1182613	0.46	1305098	90.61	30	120	
Tb	159	1	He	3661832	1.28	3765959	97.24	30	120	
Ho	165	1	He	3669415	0.80	3748206	97.90	30	120	
Bi	209	1	He	2604629	1.18	2822318	92.29	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	012_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:27:35-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.826	2.704	267873	1.94	50	95.7	89.5	110.5	
B	11	45	2	NoGas	53.612	1.104	229749	1.97	50	107.2	89.5	110.5	
Na	23	45	1	He	25447.770	3.170	48582844	1.58	25000	101.8	89.5	110.5	
Mg	24	45	1	He	25831.526	1.314	27818929	0.96	25000	103.3	89.5	110.5	
Al	27	45	1	He	252.481	1.332	151788	1.01	250	101.0	89.5	110.5	
K	39	45	1	He	25334.941	2.576	23148050	0.71	25000	101.3	89.5	110.5	
Ca	44	45	1	He	25020.480	1.443	1231420	1.44	25000	100.1	89.5	110.5	
Ti	47	45	1	He	53.278	3.966	14985	1.84	50	106.6	89.5	110.5	
V	51	45	1	He	51.422	2.270	362135	0.16	50	102.8	89.5	110.5	
Cr	52	45	1	He	51.618	2.372	446184	0.25	50	103.2	89.5	110.5	
Mn	55	45	1	He	264.390	3.033	1747711	0.91	250	105.8	89.5	110.5	
Fe	56	45	1	He	13056.015	2.521	106059140	0.42	12500	104.4	89.5	110.5	
Co	59	103	1	He	48.494	1.844	638007	0.97	50	97.0	89.5	110.5	
Ni	60	103	1	He	48.273	2.235	157458	0.49	50	96.5	89.5	110.5	
Cu	63	103	1	He	48.927	1.850	423471	0.09	50	97.9	89.5	110.5	
Zn	66	103	1	He	48.827	2.122	84411	0.73	50	97.7	89.5	110.5	
As	75	103	1	He	48.296	1.523	50362	0.27	50	96.6	89.5	110.5	
Se	78	103	1	He	49.242	3.486	5474	1.77	50	98.5	89.5	110.5	
Sr	88	103	1	He	48.159	1.351	378876	0.41	50	96.3	89.5	110.5	
Mo	95	103	1	He	75.180	7.598	288848	6.55	50	150.4	89.5	110.5	CCV Failed
Ag	107	103	1	He	50.572	2.248	671343	0.60	50	101.1	89.5	110.5	
Cd	111	103	1	He	50.859	2.952	115863	1.19	50	101.7	89.5	110.5	
Sn	118	115	1	He	50.356	0.732	263080	0.38	50	100.7	89.5	110.5	
Sb	123	115	1	He	52.762	0.679	251667	0.37	50	105.5	89.5	110.5	
Ba	137	115	1	He	49.941	1.526	113445	1.06	50	99.9	89.5	110.5	
W	182	209	1	He	49.985	1.026	777736	0.48	50	100.0	89.5	110.5	
Tl	205	209	1	He	50.786	0.524	1880535	0.69	50	101.6	89.5	110.5	
Pb	208	209	1	He	48.548	0.224	2338744	0.60	50	97.1	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1885200	1.59	2077022	90.76	30	120	
Sc	45	1	He	788116	2.17	817536	96.40	30	120	
Sc	45	2	NoGas	5688977	0.92	5970055	95.29	30	120	
Rh	103	1	He	2238693	1.77	2327919	96.17	30	120	
In	115	1	He	1229380	0.58	1305098	94.20	30	120	
Tb	159	1	He	3812286	0.67	3765959	101.23	30	120	
Ho	165	1	He	3841954	0.40	3748206	102.50	30	120	
Bi	209	1	He	2739939	0.61	2822318	97.08	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	013_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:31:25-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.009	111.2	96	59.2	1	
B	11	45	2	NoGas	2.583	6.8	16182	4.3	20	
Na	23	45	1	He	15.959	12.0	46437	6.7	400	
Mg	24	45	1	He	3.260	19.2	3923	15.8	1000	
Al	27	45	1	He	0.760	53.3	10025	2.2	50	
K	39	45	1	He	9.695	25.3	44927	4.1	1000	
Ca	44	45	1	He	4.118	31.3	873	6.1	1000	
Ti	47	45	1	He	0.249	28.4	80	23.2	20	
V	51	45	1	He	-0.028	-118.2	423	53.4	2	
Cr	52	45	1	He	0.006	313.8	2545	6.3	2	
Mn	55	45	1	He	0.044	27.4	726	9.7	2	
Fe	56	45	1	He	18.066	25.5	156311	22.3	50	
Co	59	103	1	He	0.004	24.1	96	14.5	1	
Ni	60	103	1	He	-0.001	-504.1	91	22.4	2	
Cu	63	103	1	He	-0.137	-7.6	2115	4.0	2	
Zn	66	103	1	He	-0.206	-7.5	1797	1.5	20	
As	75	103	1	He	0.030	23.5	129	5.7	2	
Se	78	103	1	He	0.036	66.9	42	6.5	2	
Sr	88	103	1	He	0.001	375.0	232	18.5	10	
Mo	95	103	1	He	3.940	8.5	16111	8.2	2	CCB Failed
Ag	107	103	1	He	0.019	24.8	283	22.9	0.2	
Cd	111	103	1	He	-0.010	-88.2	1178	2.3	0.2	
Sn	118	115	1	He	0.446	9.0	2741	7.7	10	
Sb	123	115	1	He	0.357	9.0	1961	8.2	1	
Ba	137	115	1	He	0.005	141.1	49	33.6	5	
W	182	209	1	He	0.995	15.4	19902	10.9	10	
Tl	205	209	1	He	0.031	15.0	1212	13.4	0.5	
Pb	208	209	1	He	0.021	19.7	1650	12.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1921591	2.23	2077022	92.52	30	120	
Sc	45	1	He	772246	1.07	817536	94.46	30	120	
Sc	45	2	NoGas	5680745	0.89	5970055	95.15	30	120	
Rh	103	1	He	2373161	0.47	2327919	101.94	30	120	
In	115	1	He	1286998	0.37	1305098	98.61	30	120	
Tb	159	1	He	3803227	0.59	3765959	100.99	30	120	
Ho	165	1	He	3879740	0.70	3748206	103.51	30	120	
Bi	209	1	He	2855623	1.79	2822318	101.18	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176863/1-a@2
Data File Name	014_Blk.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:38:37-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.011	43.5	107	26.0	1	
B	11	45	2	NoGas	2.430	1.9	15529	2.1	20	
Na	23	45	1	He	36.511	3.1	87700	0.8	400	
Mg	24	45	1	He	34.847	2.9	38490	1.6	1000	
Al	27	45	1	He	-5.502	-5.5	6792	3.2	50	
K	39	45	1	He	21.869	8.8	57651	0.3	1000	
Ca	44	45	1	He	196.224	1.8	10469	1.7	1000	
Ti	47	45	1	He	0.399	14.4	126	13.6	20	
V	51	45	1	He	0.118	95.7	1459	52.8	2	
Cr	52	45	1	He	0.921	3.9	10591	1.3	2	
Mn	55	45	1	He	1.060	4.6	7549	3.5	2	
Fe	56	45	1	He	20.534	3.0	182198	5.7	50	
Co	59	103	1	He	0.007	14.6	128	9.2	1	
Ni	60	103	1	He	0.147	4.3	581	4.8	2	
Cu	63	103	1	He	0.906	3.3	11157	2.5	2	
Zn	66	103	1	He	3.199	4.7	7577	3.6	20	
As	75	103	1	He	0.114	12.1	214	6.9	2	
Se	78	103	1	He	0.026	68.4	39	6.3	2	
Sr	88	103	1	He	0.310	2.9	2692	2.2	10	
Mo	95	103	1	He	2.026	7.0	7981	5.6	2	Blank Failed
Ag	107	103	1	He	0.038	30.4	528	27.8	0.2	
Cd	111	103	1	He	0.005	263.1	1167	1.3	0.2	
Sn	118	115	1	He	20.396	1.5	108729	1.4	10	Blank Failed
Sb	123	115	1	He	0.378	14.9	2013	14.1	1	
Ba	137	115	1	He	0.688	3.7	1629	4.4	5	
W	182	209	1	He	0.353	8.1	9214	4.7	10	
Tl	205	209	1	He	0.022	10.8	850	9.9	0.5	
Pb	208	209	1	He	0.087	5.0	4758	3.7	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1909059	0.63	2077022	91.91	30	120	
Sc	45	1	He	798060	3.26	817536	97.62	30	120	
Sc	45	2	NoGas	5674506	1.05	5970055	95.05	30	120	
Rh	103	1	He	2279676	1.38	2327919	97.93	30	120	
In	115	1	He	1252382	0.75	1305098	95.96	30	120	
Tb	159	1	He	3737713	0.91	3765959	99.25	30	120	
Ho	165	1	He	3784672	1.21	3748206	100.97	30	120	
Bi	209	1	He	2747209	0.69	2822318	97.34	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176863/3-a@2
Data File Name	015LCSS.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:42:29-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	507.022	507.022	3.605	2623032	0.70	500	101.4	78.6	110.5	
B	11	2	NoGas	64.014	64.014	0.331	247489	1.63	50	128.0	79.5	120.5	LCSS Failed
Na	23	1	He	5448.462	5448.462	1.014	9685962	2.61	5000	109.0	79.5	120.5	
Mg	24	1	He	5489.302	5489.302	0.570	5496845	2.42	5000	109.8	79.5	120.5	
Al	27	1	He	5259.685	5259.685	0.318	2758983	1.79	5000	105.2	79.5	120.5	
K	39	1	He	5228.027	5228.027	2.029	4468685	2.17	5000	104.6	79.5	120.5	
Ca	44	1	He	5216.211	5216.211	0.626	239161	1.27	5000	104.3	79.5	120.5	
Ti	47	1	He	53.078	53.078	2.970	13880	1.13	50	106.2	79.5	120.5	
V	51	1	He	524.145	524.145	0.175	3426950	1.98	500	104.8	71.5	110.5	
Cr	52	1	He	538.308	538.308	0.905	4304330	2.02	500	107.7	69.5	110.5	
Mn	55	1	He	536.953	536.953	0.275	3300467	2.09	500	107.4	79.5	120.5	
Fe	56	1	He	5496.658	5496.658	0.637	41527565	1.97	5000	109.9	79.5	120.5	
Co	59	1	He	488.097	488.097	2.743	6187591	2.31	500	97.6	73.9	110.5	
Ni	60	1	He	505.599	505.599	1.660	1588620	1.98	500	101.1	74.9	110.5	
Cu	63	1	He	505.488	505.488	0.569	4187830	0.81	500	101.1	72.6	110.5	
Zn	66	1	He	455.015	455.015	1.836	741677	1.49	500	91.0	71.5	113.4	
As	75	1	He	429.028	429.028	1.605	430423	1.41	500	85.8	73.4	110.5	
Se	78	1	He	414.248	414.248	1.102	44131	1.19	500	82.8	64.6	110.5	
Sr	88	1	He	487.989	487.989	1.164	3697679	1.17	500	97.6	79.5	120.5	
Mo	95	1	He	54.602	54.602	1.303	202256	1.29	50	109.2	29.5	140.5	
Ag	107	1	He	52.364	52.364	1.426	669921	1.33	50	104.7	59.5	114.5	
Cd	111	1	He	486.721	486.721	1.381	1059302	1.11	500	97.3	73.5	110.5	
Sn	118	1	He	574.321	574.321	0.629	2800681	0.43	500	114.9	79.5	120.5	
Sb	123	1	He	50.936	50.936	0.385	227015	0.72	50	101.9	67.5	113.4	
Ba	137	1	He	504.075	504.075	0.610	1069616	0.79	500	100.8	69.5	110.5	
W	182	1	He	50.474	50.474	0.900	764270	0.65	50	100.9	74.6	125.4	
Tl	205	1	He	126.472	126.472	0.781	4557591	1.23	125	101.2	70.6	110.5	
Pb	208	1	He	513.806	513.806	1.328	24082013	1.01	500	102.8	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1742402	2.91	2077022	83.89	30	120	
Sc	45	1	He	732587	1.88	817536	89.61	30	120	
Sc	45	2	NoGas	5152295	1.33	5970055	86.30	30	120	
Rh	103	1	He	2157001	0.67	2327919	92.66	30	120	
In	115	1	He	1148686	0.89	1305098	88.02	30	120	
Tb	159	1	He	3625179	0.64	3765959	96.26	30	120	
Ho	165	1	He	3709235	1.06	3748206	98.96	30	120	
Bi	209	1	He	2666473	0.66	2822318	94.48	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@2
Data File Name	016SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:46:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.070	1.070	1.25	5431	0.02	10000	
B	11	45	2	NoGas	19.436	19.436	2.48	129896	0.01	300	
Na	23	45	1	He	791.903	791.903	1.85	2314235	0.03	500000	
Mg	24	45	1	He	2775.643	2775.643	1.82	4526180	0.06	500000	
Al	27	45	1	He	17779.425	17779.425	2.41	15149917	0.12	200000	
K	39	45	1	He	140.618	140.618	3.21	250254	0.06	500000	
Ca	44	45	1	He	778576.633	778576.633	2.32	57975735	1.34	500000	>LDR
Ti	47	45	1	He	44283.267	44283.267	2.02	18848714	0.23	2500	>LDR
V	51	45	1	He	3654.111	3654.111	2.71	38891613	0.01	10000	
Cr	52	45	1	He	1643.695	1643.695	2.86	21389580	0.01	10000	
Mn	55	45	1	He	5340.747	5340.747	2.79	53438501	0.01	10000	
Fe	56	45	1	He	195806.237	195806.237	1.99	2408178535	0.01	200000	
Co	59	103	1	He	43.156	43.156	1.42	448215	0.01	10000	
Ni	60	103	1	He	88.149	88.149	0.51	226941	0.04	10000	
Cu	63	103	1	He	121.928	121.928	1.06	829381	0.01	10000	
Zn	66	103	1	He	519.156	519.156	1.32	693020	0.07	10000	
As	75	103	1	He	16.423	16.423	1.70	13566	0.12	10000	
Se	78	103	1	He	4.567	4.567	3.18	426	1.07	10000	
Sr	88	103	1	He	26848.612	26848.612	1.49	166642824	0.02	10000	>LDR
Mo	95	103	1	He	19.540	19.540	0.65	59321	0.03	2000	
Ag	107	103	1	He	1.743	1.743	7.82	18288	0.01	300	
Cd	111	103	1	He	8.277	8.277	7.43	15640	0.05	4000	
Sn	118	115	1	He	77.777	77.777	0.66	333176	0.02	2000	
Sb	123	115	1	He	1.040	1.040	5.90	4207	0.02	300	
Ba	137	115	1	He	63.846	63.846	0.81	118953	0.05	10000	
W	182	209	1	He	42.325	42.325	0.76	512199	0.01	2500	
Tl	205	209	1	He	0.180	0.180	13.59	5182	0.00	5000	
Pb	208	209	1	He	112.869	112.869	1.39	4224422	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1695932	0.71	2077022	81.65	30	120	
Sc	45	1	He	1193437	3.35	817536	145.98	30	120	ISTD Failed
Sc	45	2	NoGas	8523026	1.72	5970055	142.76	30	120	ISTD Failed
Rh	103	1	He	1767008	0.77	2327919	75.91	30	120	
In	115	1	He	1008382	0.74	1305098	77.26	30	120	
Tb	159	1	He	3296890	1.24	3765959	87.54	30	120	
Ho	165	1	He	3336080	0.71	3748206	89.00	30	120	
Bi	209	1	He	2129152	0.58	2822318	75.44	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-j@10
Data File Name	017SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:49:44-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.409	0.409	10.00	1993	0.02	10000	
B	11	45	2	NoGas	11.109	11.109	4.42	57449	0.02	300	
Na	23	45	1	He	434.763	434.763	1.73	940067	0.05	500000	
Mg	24	45	1	He	1596.074	1596.074	1.24	1908655	0.08	500000	
Al	27	45	1	He	9745.917	9745.917	0.90	6095453	0.16	200000	
K	39	45	1	He	76.445	76.445	0.90	118530	0.06	500000	
Ca	44	45	1	He	427912.072	427912.072	1.12	23368732	1.83	500000	
Ti	47	45	1	He	24575.516	24575.516	0.85	7671193	0.32	2500	>LDR
V	51	45	1	He	2076.800	2076.800	1.72	16212215	0.01	10000	
Cr	52	45	1	He	932.238	932.238	1.72	8899091	0.01	10000	
Mn	55	45	1	He	3001.481	3001.481	0.76	22027505	0.01	10000	
Fe	56	45	1	He	113453.604	113453.604	1.39	1023218626	0.01	200000	
Co	59	103	1	He	17.086	17.086	0.97	194155	0.01	10000	
Ni	60	103	1	He	35.106	35.106	2.11	98915	0.04	10000	
Cu	63	103	1	He	49.349	49.349	1.84	368844	0.01	10000	
Zn	66	103	1	He	215.743	215.743	2.02	316074	0.07	10000	
As	75	103	1	He	5.899	5.899	2.03	5380	0.11	10000	
Se	78	103	1	He	1.811	1.811	0.81	204	0.89	10000	
Sr	88	103	1	He	10437.874	10437.874	1.47	70875828	0.01	10000	>LDR
Mo	95	103	1	He	7.843	7.843	1.92	26076	0.03	2000	
Ag	107	103	1	He	0.718	0.718	2.97	8244	0.01	300	
Cd	111	103	1	He	3.429	3.429	4.72	7662	0.04	4000	
Sn	118	115	1	He	30.591	30.591	1.81	141369	0.02	2000	
Sb	123	115	1	He	0.370	0.370	2.30	1710	0.02	300	
Ba	137	115	1	He	25.675	25.675	0.30	51568	0.05	10000	
W	182	209	1	He	16.301	16.301	1.92	227699	0.01	2500	
Tl	205	209	1	He	0.052	0.052	13.70	1720	0.00	5000	
Pb	208	209	1	He	43.103	43.103	1.82	1845880	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1608398	1.79	2077022	77.44	30	120	
Sc	45	1	He	874839	1.44	817536	107.01	30	120	
Sc	45	2	NoGas	6299460	0.36	5970055	105.52	30	120	
Rh	103	1	He	1933137	0.92	2327919	83.04	30	120	
In	115	1	He	1086630	0.38	1305098	83.26	30	120	
Tb	159	1	He	3512947	0.80	3765959	93.28	30	120	
Ho	165	1	He	3576527	1.05	3748206	95.42	30	120	
Bi	209	1	He	2436097	1.67	2822318	86.32	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-j@2
Data File Name	018SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:53:28-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	925.758	925.758	1.85	4727251	0.02	10000	
B	11	45	2	NoGas	85.360	85.360	1.11	538727	0.02	300	
Na	23	45	1	He	6984.219	6984.219	1.11	19161968	0.04	500000	
Mg	24	45	1	He	8774.853	8774.853	1.31	13565571	0.06	500000	
Al	27	45	1	He	23288.928	23288.928	0.62	18814223	0.12	200000	
K	39	45	1	He	6104.804	6104.804	1.56	8048383	0.08	500000	
Ca	44	45	1	He	775847.416	775847.416	1.24	54785462	1.42	500000	>LDR
Ti	47	45	1	He	44107.708	44107.708	1.19	17801113	0.25	2500	>LDR
V	51	45	1	He	4281.521	4281.521	1.00	43216502	0.01	10000	
Cr	52	45	1	He	2241.328	2241.328	1.78	27659808	0.01	10000	
Mn	55	45	1	He	5856.335	5856.335	1.54	55569604	0.01	10000	
Fe	56	45	1	He	201956.401	201956.401	1.01	2355158733	0.01	200000	>LDR
Co	59	103	1	He	1012.590	1012.590	0.74	10721325	0.01	10000	
Ni	60	103	1	He	1069.882	1069.882	1.08	2807263	0.04	10000	
Cu	63	103	1	He	1056.913	1056.913	0.53	7310288	0.01	10000	
Zn	66	103	1	He	1376.696	1376.696	0.68	1870933	0.07	10000	
As	75	103	1	He	998.191	998.191	0.51	836286	0.12	10000	
Se	78	103	1	He	997.462	997.462	0.33	88706	1.12	10000	
Sr	88	103	1	He	26185.325	26185.325	1.33	165695451	0.02	10000	>LDR
Mo	95	103	1	He	134.661	134.661	0.66	416534	0.03	2000	
Ag	107	103	1	He	96.877	96.877	0.33	1035121	0.01	300	
Cd	111	103	1	He	980.083	980.083	0.08	1780610	0.06	4000	
Sn	118	115	1	He	1168.958	1168.958	0.60	4901380	0.02	2000	
Sb	123	115	1	He	103.378	103.378	0.76	396029	0.03	300	
Ba	137	115	1	He	1167.221	1167.221	1.43	2129651	0.05	10000	
W	182	209	1	He	165.065	165.065	2.16	2051837	0.01	2500	
Tl	205	209	1	He	257.653	257.653	0.21	7647308	0.00	5000	
Pb	208	209	1	He	1141.052	1141.052	0.87	44049815	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1718996	1.74	2077022	82.76	30	120	
Sc	45	1	He	1131166	0.79	817536	138.36	30	120	ISTD Failed
Sc	45	2	NoGas	8453391	1.68	5970055	141.60	30	120	ISTD Failed
Rh	103	1	He	1801469	0.68	2327919	77.39	30	120	
In	115	1	He	987683	0.19	1305098	75.68	30	120	
Tb	159	1	He	3388033	1.40	3765959	89.96	30	120	
Ho	165	1	He	3446323	1.78	3748206	91.95	30	120	
Bi	209	1	He	2196232	0.34	2822318	77.82	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-k ms@2
Data File Name	019SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T18:56:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	485.271	485.271	1.04	2391351	0.02	10000	
B	11	45	2	NoGas	51.921	51.921	1.39	325670	0.02	300	
Na	23	45	1	He	4073.761	4073.761	1.64	11332116	0.04	500000	
Mg	24	45	1	He	5777.149	5777.149	1.75	9047378	0.06	500000	
Al	27	45	1	He	20264.154	20264.154	1.78	16584594	0.12	200000	
K	39	45	1	He	3147.341	3147.341	1.32	4229338	0.07	500000	
Ca	44	45	1	He	835759.253	835759.253	1.53	59776971	1.40	500000	>LDR
Ti	47	45	1	He	44566.198	44566.198	1.08	18219427	0.24	2500	>LDR
V	51	45	1	He	4026.103	4026.103	1.54	41163493	0.01	10000	
Cr	52	45	1	He	1969.246	1969.246	0.95	24617941	0.01	10000	
Mn	55	45	1	He	5518.706	5518.706	1.29	53046433	0.01	10000	
Fe	56	45	1	He	198884.524	198884.524	1.34	2349376333	0.01	200000	
Co	59	103	1	He	540.570	540.570	1.42	5791996	0.01	10000	
Ni	60	103	1	He	599.237	599.237	1.17	1591396	0.04	10000	
Cu	63	103	1	He	606.592	606.592	1.20	4246644	0.01	10000	
Zn	66	103	1	He	891.898	891.898	1.56	1227073	0.07	10000	
As	75	103	1	He	497.179	497.179	0.74	421562	0.12	10000	
Se	78	103	1	He	498.317	498.317	1.81	44857	1.11	10000	
Sr	88	103	1	He	26461.106	26461.106	1.67	169438784	0.02	10000	>LDR
Mo	95	103	1	He	77.244	77.244	1.82	241788	0.03	2000	
Ag	107	103	1	He	50.224	50.224	0.80	543060	0.01	300	
Cd	111	103	1	He	468.508	468.508	1.01	861818	0.05	4000	
Sn	118	115	1	He	644.108	644.108	0.48	2712266	0.02	2000	
Sb	123	115	1	He	45.767	45.767	0.86	176148	0.03	300	
Ba	137	115	1	He	578.086	578.086	0.41	1059218	0.05	10000	
W	182	209	1	He	79.093	79.093	1.71	974255	0.01	2500	
Tl	205	209	1	He	134.435	134.435	1.10	3947861	0.00	5000	
Pb	208	209	1	He	647.940	647.940	0.81	24749452	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1658482	0.74	2077022	79.85	30	120	
Sc	45	1	He	1145831	0.68	817536	140.16	30	120	ISTD Failed
Sc	45	2	NoGas	8321641	0.87	5970055	139.39	30	120	ISTD Failed
Rh	103	1	He	1823073	1.06	2327919	78.31	30	120	
In	115	1	He	991872	0.07	1305098	76.00	30	120	
Tb	159	1	He	3407358	1.10	3765959	90.48	30	120	
Ho	165	1	He	3452701	0.87	3748206	92.12	30	120	
Bi	209	1	He	2173125	1.15	2822318	77.00	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-I msd@2
Data File Name	020SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:00:31-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	485.391	485.391	1.97	2346089	0.02	10000	
B	11	45	2	NoGas	52.021	52.021	0.93	314076	0.02	300	
Na	23	45	1	He	4156.669	4156.669	1.34	11024421	0.04	500000	
Mg	24	45	1	He	5850.584	5850.584	0.22	8736321	0.07	500000	
Al	27	45	1	He	19680.466	19680.466	1.17	15358330	0.13	200000	
K	39	45	1	He	3256.628	3256.628	0.50	4170910	0.08	500000	
Ca	44	45	1	He	794132.060	794132.060	0.97	54158110	1.47	500000	>LDR
Ti	47	45	1	He	42906.358	42906.358	0.27	16725232	0.26	2500	>LDR
V	51	45	1	He	3951.612	3951.612	0.80	38523489	0.01	10000	
Cr	52	45	1	He	1934.459	1934.459	0.92	23058179	0.01	10000	
Mn	55	45	1	He	5264.575	5264.575	0.34	48250610	0.01	10000	
Fe	56	45	1	He	196616.239	196616.239	1.45	2214565388	0.01	200000	
Co	59	103	1	He	540.432	540.432	1.37	5765547	0.01	10000	
Ni	60	103	1	He	596.522	596.522	1.47	1577236	0.04	10000	
Cu	63	103	1	He	600.980	600.980	1.03	4189318	0.01	10000	
Zn	66	103	1	He	864.079	864.079	1.67	1183739	0.07	10000	
As	75	103	1	He	490.118	490.118	1.22	413773	0.12	10000	
Se	78	103	1	He	482.513	482.513	1.38	43251	1.12	10000	
Sr	88	103	1	He	24277.586	24277.586	1.94	154788207	0.02	10000	>LDR
Mo	95	103	1	He	75.999	75.999	1.26	236877	0.03	2000	
Ag	107	103	1	He	50.311	50.311	1.22	541651	0.01	300	
Cd	111	103	1	He	467.196	467.196	1.33	855695	0.05	4000	
Sn	118	115	1	He	643.002	643.002	0.46	2681691	0.02	2000	
Sb	123	115	1	He	46.702	46.702	0.73	178022	0.03	300	
Ba	137	115	1	He	572.124	572.124	0.26	1038265	0.06	10000	
W	182	209	1	He	81.429	81.429	1.67	998940	0.01	2500	
Tl	205	209	1	He	135.941	135.941	0.41	3976144	0.00	5000	
Pb	208	209	1	He	644.192	644.192	1.04	24506834	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1627074	1.53	2077022	78.34	30	120	
Sc	45	1	He	1092505	0.31	817536	133.63	30	120	ISTD Failed
Sc	45	2	NoGas	8009803	1.05	5970055	134.17	30	120	ISTD Failed
Rh	103	1	He	1815225	0.90	2327919	77.98	30	120	
In	115	1	He	982387	0.37	1305098	75.27	30	120	
Tb	159	1	He	3358081	1.81	3765959	89.17	30	120	
Ho	165	1	He	3447674	0.94	3748206	91.98	30	120	
Bi	209	1	He	2164315	0.65	2822318	76.69	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-3-e@2
Data File Name	021SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:04:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.942	0.942	8.91	4471	0.02	10000	
B	11	45	2	NoGas	22.225	22.225	1.07	135985	0.02	300	
Na	23	45	1	He	616.349	616.349	0.88	1612297	0.04	500000	
Mg	24	45	1	He	3757.530	3757.530	0.49	5467209	0.07	500000	
Al	27	45	1	He	16888.414	16888.414	0.79	12843054	0.13	200000	
K	39	45	1	He	151.993	151.993	1.42	237342	0.06	500000	
Ca	44	45	1	He	590186.669	590186.669	0.79	39217004	1.50	500000	>LDR
Ti	47	45	1	He	42675.068	42675.068	0.41	16209036	0.26	2500	>LDR
V	51	45	1	He	3671.328	3671.328	1.49	34870791	0.01	10000	
Cr	52	45	1	He	1661.915	1661.915	0.53	19302916	0.01	10000	
Mn	55	45	1	He	4888.204	4888.204	1.23	43650674	0.01	10000	
Fe	56	45	1	He	190645.679	190645.679	1.12	2092200664	0.01	200000	
Co	59	103	1	He	36.142	36.142	0.59	392206	0.01	10000	
Ni	60	103	1	He	74.588	74.588	1.14	200644	0.04	10000	
Cu	63	103	1	He	103.582	103.582	0.42	736571	0.01	10000	
Zn	66	103	1	He	451.499	451.499	0.61	629952	0.07	10000	
As	75	103	1	He	12.162	12.162	1.60	10516	0.12	10000	
Se	78	103	1	He	3.177	3.177	2.38	319	1.00	10000	
Sr	88	103	1	He	21148.755	21148.755	0.64	137157532	0.02	10000	>LDR
Mo	95	103	1	He	17.159	17.159	0.81	54434	0.03	2000	
Ag	107	103	1	He	1.565	1.565	1.98	17150	0.01	300	
Cd	111	103	1	He	7.584	7.584	0.46	15049	0.05	4000	
Sn	118	115	1	He	60.570	60.570	1.01	260428	0.02	2000	
Sb	123	115	1	He	0.940	0.940	1.99	3828	0.02	300	
Ba	137	115	1	He	57.637	57.637	0.86	107769	0.05	10000	
W	182	209	1	He	35.061	35.061	1.84	450132	0.01	2500	
Tl	205	209	1	He	0.174	0.174	13.59	5329	0.00	5000	
Pb	208	209	1	He	92.126	92.126	0.27	3654002	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1584977	0.85	2077022	76.31	30	120	
Sc	45	1	He	1064514	0.97	817536	130.21	30	120	ISTD Failed
Sc	45	2	NoGas	7862542	0.46	5970055	131.70	30	120	ISTD Failed
Rh	103	1	He	1846203	0.64	2327919	79.31	30	120	
In	115	1	He	1011940	0.22	1305098	77.54	30	120	
Tb	159	1	He	3411834	0.41	3765959	90.60	30	120	
Ho	165	1	He	3474649	0.76	3748206	92.70	30	120	
Bi	209	1	He	2256151	0.05	2822318	79.94	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-4-e@2
Data File Name	022SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:07:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.916	0.916	3.59	4197	0.02	10000	
B	11	45	2	NoGas	17.889	17.889	1.71	109129	0.02	300	
Na	23	45	1	He	557.246	557.246	0.66	1432650	0.04	500000	
Mg	24	45	1	He	2955.707	2955.707	0.75	4220639	0.07	500000	
Al	27	45	1	He	16792.996	16792.996	0.77	12532892	0.13	200000	
K	39	45	1	He	139.264	139.264	0.95	217510	0.06	500000	
Ca	44	45	1	He	592095.772	592095.772	0.53	38611250	1.53	500000	>LDR
Ti	47	45	1	He	43710.254	43710.254	0.57	16292303	0.27	2500	>LDR
V	51	45	1	He	3806.184	3806.184	0.92	35480243	0.01	10000	
Cr	52	45	1	He	1722.209	1722.209	0.86	19629059	0.01	10000	
Mn	55	45	1	He	4911.455	4911.455	0.91	43042472	0.01	10000	
Fe	56	45	1	He	186208.664	186208.664	0.48	2005509823	0.01	200000	
Co	59	103	1	He	35.136	35.136	0.15	374783	0.01	10000	
Ni	60	103	1	He	76.912	76.912	0.62	203358	0.04	10000	
Cu	63	103	1	He	107.341	107.341	0.48	750165	0.01	10000	
Zn	66	103	1	He	455.928	455.928	0.18	625234	0.07	10000	
As	75	103	1	He	11.805	11.805	0.81	10035	0.12	10000	
Se	78	103	1	He	2.825	2.825	2.31	282	1.00	10000	
Sr	88	103	1	He	20650.636	20650.636	0.48	131634350	0.02	10000	>LDR
Mo	95	103	1	He	16.701	16.701	0.23	52076	0.03	2000	
Ag	107	103	1	He	1.876	1.876	0.29	20210	0.01	300	
Cd	111	103	1	He	8.486	8.486	5.85	16442	0.05	4000	
Sn	118	115	1	He	63.397	63.397	1.07	265586	0.02	2000	
Sb	123	115	1	He	0.781	0.781	1.08	3126	0.02	300	
Ba	137	115	1	He	55.096	55.096	0.73	100379	0.05	10000	
W	182	209	1	He	38.575	38.575	0.70	489045	0.01	2500	
Tl	205	209	1	He	0.110	0.110	1.80	3340	0.00	5000	
Pb	208	209	1	He	93.862	93.862	1.91	3678249	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1529611	1.45	2077022	73.64	30	120	
Sc	45	1	He	1044644	0.43	817536	127.78	30	120	ISTD Failed
Sc	45	2	NoGas	7735081	0.84	5970055	129.56	30	120	ISTD Failed
Rh	103	1	He	1814623	0.32	2327919	77.95	30	120	
In	115	1	He	985995	0.06	1305098	75.55	30	120	
Tb	159	1	He	3330481	1.70	3765959	88.44	30	120	
Ho	165	1	He	3419717	0.90	3748206	91.24	30	120	
Bi	209	1	He	2229242	0.42	2822318	78.99	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-5-e@2
Data File Name	023SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:11:26-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.470	2.470	2.42	12668	0.02	10000	
B	11	45	2	NoGas	49.708	49.708	2.69	217860	0.02	300	
Na	23	45	1	He	1244.155	1244.155	0.99	2321289	0.05	500000	
Mg	24	45	1	He	9776.955	9776.955	1.95	10216299	0.10	500000	
Al	27	45	1	He	42538.714	42538.714	1.68	23224236	0.18	200000	
K	39	45	1	He	2670.054	2670.054	1.40	2399972	0.11	500000	
Ca	44	45	1	He	65263.142	65263.142	1.42	3115727	2.09	500000	
Ti	47	45	1	He	1140.701	1140.701	1.38	311193	0.37	2500	
V	51	45	1	He	198.035	198.035	1.86	1352313	0.01	10000	
Cr	52	45	1	He	226.889	226.889	0.29	1895261	0.01	10000	
Mn	55	45	1	He	2002.504	2002.504	0.82	12846228	0.02	10000	
Fe	56	45	1	He	207819.861	207819.861	1.51	1638108913	0.01	200000	>LDR
Co	59	103	1	He	27.561	27.561	0.15	361079	0.01	10000	
Ni	60	103	1	He	96.006	96.006	0.53	311755	0.03	10000	
Cu	63	103	1	He	415.979	415.979	1.64	3560655	0.01	10000	
Zn	66	103	1	He	1473.717	1473.717	0.14	2477619	0.06	10000	
As	75	103	1	He	40.057	40.057	1.00	41604	0.10	10000	
Se	78	103	1	He	3.899	3.899	4.45	465	0.84	10000	
Sr	88	103	1	He	1346.881	1346.881	1.57	10543422	0.01	10000	
Mo	95	103	1	He	12.879	12.879	0.93	49335	0.03	2000	
Ag	107	103	1	He	3.000	3.000	3.81	39651	0.01	300	
Cd	111	103	1	He	6.481	6.481	2.87	15684	0.04	4000	
Sn	118	115	1	He	491.472	491.472	1.04	2399153	0.02	2000	
Sb	123	115	1	He	10.296	10.296	0.30	46065	0.02	300	
Ba	137	115	1	He	547.832	547.832	1.20	1163523	0.05	10000	
W	182	209	1	He	5.867	5.867	2.37	94603	0.01	2500	
Tl	205	209	1	He	0.409	0.409	0.39	15174	0.00	5000	
Pb	208	209	1	He	1481.559	1481.559	0.95	71383743	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1720773	1.88	2077022	82.85	30	120	
Sc	45	1	He	764714	2.89	817536	93.54	30	120	
Sc	45	2	NoGas	5807729	0.37	5970055	97.28	30	120	
Rh	103	1	He	2228724	2.06	2327919	95.74	30	120	
In	115	1	He	1149897	2.03	1305098	88.11	30	120	
Tb	159	1	He	3831166	1.36	3765959	101.73	30	120	
Ho	165	1	He	3867310	1.23	3748206	103.18	30	120	
Bi	209	1	He	2741394	2.10	2822318	97.13	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	024_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:15:04-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.178	2.212	237229	2.08	50	94.4	89.5	110.5	
B	11	45	2	NoGas	51.559	0.401	211737	2.05	50	103.1	89.5	110.5	
Na	23	45	1	He	26726.040	1.031	47390954	1.97	25000	106.9	89.5	110.5	
Mg	24	45	1	He	26763.501	1.085	26761858	0.58	25000	107.1	89.5	110.5	
Al	27	45	1	He	244.924	0.994	136990	0.72	250	98.0	89.5	110.5	
K	39	45	1	He	25776.284	1.421	21870052	0.44	25000	103.1	89.5	110.5	
Ca	44	45	1	He	25411.471	1.111	1161205	0.67	25000	101.6	89.5	110.5	
Ti	47	45	1	He	77.617	0.903	20275	1.66	50	155.2	89.5	110.5	CCV Failed
V	51	45	1	He	54.380	1.425	355599	0.76	50	108.8	89.5	110.5	
Cr	52	45	1	He	55.059	1.735	441804	1.40	50	110.1	89.5	110.5	
Mn	55	45	1	He	270.560	2.151	1660972	1.60	250	108.2	89.5	110.5	
Fe	56	45	1	He	13682.994	1.345	103220854	0.48	12500	109.5	89.5	110.5	
Co	59	103	1	He	47.037	0.913	631592	1.36	50	94.1	89.5	110.5	
Ni	60	103	1	He	47.969	0.509	159699	1.01	50	95.9	89.5	110.5	
Cu	63	103	1	He	48.036	1.191	424392	1.45	50	96.1	89.5	110.5	
Zn	66	103	1	He	46.463	1.807	82077	1.40	50	92.9	89.5	110.5	
As	75	103	1	He	45.533	1.167	48461	0.82	50	91.1	89.5	110.5	
Se	78	103	1	He	44.439	1.833	5046	2.07	50	88.9	89.5	110.5	CCV Failed
Sr	88	103	1	He	46.140	0.247	370458	0.82	50	92.3	89.5	110.5	
Mo	95	103	1	He	50.474	0.707	198005	0.26	50	100.9	89.5	110.5	
Ag	107	103	1	He	50.466	0.806	683782	1.05	50	100.9	89.5	110.5	
Cd	111	103	1	He	49.596	1.243	115363	1.79	50	99.2	89.5	110.5	
Sn	118	115	1	He	51.866	0.883	263312	1.10	50	103.7	89.5	110.5	
Sb	123	115	1	He	53.993	0.542	250255	0.53	50	108.0	89.5	110.5	
Ba	137	115	1	He	50.490	1.059	111456	1.41	50	101.0	89.5	110.5	
W	182	209	1	He	50.281	0.907	783521	0.32	50	100.6	89.5	110.5	
Tl	205	209	1	He	51.306	0.272	1902749	1.13	50	102.6	89.5	110.5	
Pb	208	209	1	He	49.523	0.643	2389342	0.83	50	99.0	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1692284	1.44	2077022	81.48	30	120	
Sc	45	1	He	731677	0.97	817536	89.50	30	120	
Sc	45	2	NoGas	5446775	1.69	5970055	91.23	30	120	
Rh	103	1	He	2284331	0.58	2327919	98.13	30	120	
In	115	1	He	1194623	0.35	1305098	91.54	30	120	
Tb	159	1	He	3829735	1.04	3765959	101.69	30	120	
Ho	165	1	He	3885637	0.02	3748206	103.67	30	120	
Bi	209	1	He	2744169	0.86	2822318	97.23	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	025_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:18:50-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.054	31.0	326	25.6	1	
B	11	45	2	NoGas	2.447	2.3	15711	0.7	20	
Na	23	45	1	He	13.465	9.3	40063	4.6	400	
Mg	24	45	1	He	2.421	28.0	2911	22.2	1000	
Al	27	45	1	He	0.032	416.1	9229	1.8	50	
K	39	45	1	He	7.726	3.9	41404	1.5	1000	
Ca	44	45	1	He	38.572	12.2	2429	7.7	1000	
Ti	47	45	1	He	4.757	3.0	1268	3.4	20	
V	51	45	1	He	0.167	57.0	1692	35.8	2	
Cr	52	45	1	He	0.073	26.6	2981	4.7	2	
Mn	55	45	1	He	0.360	8.9	2660	6.3	2	
Fe	56	45	1	He	26.177	14.1	211837	12.1	50	
Co	59	103	1	He	0.010	27.0	183	20.5	1	
Ni	60	103	1	He	0.007	153.2	119	30.8	2	
Cu	63	103	1	He	-0.112	-12.7	2334	4.4	2	
Zn	66	103	1	He	-0.132	-29.7	1925	3.5	20	
As	75	103	1	He	0.163	18.8	275	12.0	2	
Se	78	103	1	He	0.113	49.1	51	12.4	2	
Sr	88	103	1	He	0.628	7.5	5443	6.1	10	
Mo	95	103	1	He	0.888	12.7	3664	11.4	2	
Ag	107	103	1	He	0.010	15.5	160	12.5	0.2	
Cd	111	103	1	He	-0.043	-26.4	1097	3.6	0.2	
Sn	118	115	1	He	0.443	6.0	2634	4.5	10	
Sb	123	115	1	He	0.260	10.8	1427	8.6	1	
Ba	137	115	1	He	0.036	6.8	118	4.3	5	
W	182	209	1	He	0.916	13.1	18730	11.5	10	
Tl	205	209	1	He	0.035	22.1	1365	22.7	0.5	
Pb	208	209	1	He	0.121	9.0	6694	9.3	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1778095	1.91	2077022	85.61	30	120	
Sc	45	1	He	740499	1.20	817536	90.58	30	120	
Sc	45	2	NoGas	5716112	1.21	5970055	95.75	30	120	
Rh	103	1	He	2367044	1.11	2327919	101.68	30	120	
In	115	1	He	1244047	0.86	1305098	95.32	30	120	
Tb	159	1	He	3855725	1.03	3765959	102.38	30	120	
Ho	165	1	He	3892869	0.43	3748206	103.86	30	120	
Bi	209	1	He	2863722	1.56	2822318	101.47	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-6-e@2
Data File Name	026SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:22:41-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.794	0.794	3.87	3656	0.02	10000	
B	11	45	2	NoGas	16.207	16.207	2.14	64739	0.03	300	
Na	23	45	1	He	1061.382	1061.382	0.55	1778668	0.06	500000	
Mg	24	45	1	He	4054.004	4054.004	1.13	3800905	0.11	500000	
Al	27	45	1	He	23733.795	23733.795	0.96	11627045	0.20	200000	
K	39	45	1	He	927.977	927.977	0.23	769307	0.12	500000	
Ca	44	45	1	He	72593.847	72593.847	1.05	3108958	2.33	500000	
Ti	47	45	1	He	579.604	579.604	1.42	141885	0.41	2500	
V	51	45	1	He	114.759	114.759	2.53	702858	0.02	10000	
Cr	52	45	1	He	90.633	90.633	1.03	680400	0.01	10000	
Mn	55	45	1	He	331.111	331.111	2.31	1905528	0.02	10000	
Fe	56	45	1	He	35671.016	35671.016	1.18	252269199	0.01	200000	
Co	59	103	1	He	3.614	3.614	0.94	43579	0.01	10000	
Ni	60	103	1	He	17.833	17.833	1.27	53338	0.03	10000	
Cu	63	103	1	He	273.428	273.428	0.53	2154528	0.01	10000	
Zn	66	103	1	He	174.005	174.005	0.84	270753	0.06	10000	
As	75	103	1	He	9.096	9.096	0.48	8756	0.10	10000	
Se	78	103	1	He	2.692	2.692	7.45	305	0.88	10000	
Sr	88	103	1	He	1517.415	1517.415	0.66	10928886	0.01	10000	
Mo	95	103	1	He	2.882	2.882	1.14	10198	0.03	2000	
Ag	107	103	1	He	1.322	1.322	2.60	16092	0.01	300	
Cd	111	103	1	He	0.710	0.710	9.23	2506	0.03	4000	
Sn	118	115	1	He	68.149	68.149	2.61	314051	0.02	2000	
Sb	123	115	1	He	0.994	0.994	3.74	4335	0.02	300	
Ba	137	115	1	He	123.120	123.120	0.37	246729	0.05	10000	
W	182	209	1	He	0.926	0.926	3.85	17332	0.01	2500	
Tl	205	209	1	He	0.243	0.243	0.89	8654	0.00	5000	
Pb	208	209	1	He	166.975	166.975	0.81	7718323	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1534659	1.07	2077022	73.89	30	120	
Sc	45	1	He	685989	1.30	817536	83.91	30	120	
Sc	45	2	NoGas	5031039	1.31	5970055	84.27	30	120	
Rh	103	1	He	2050234	0.49	2327919	88.07	30	120	
In	115	1	He	1084707	0.33	1305098	83.11	30	120	
Tb	159	1	He	3537400	0.99	3765959	93.93	30	120	
Ho	165	1	He	3586483	1.41	3748206	95.69	30	120	
Bi	209	1	He	2629758	1.70	2822318	93.18	30	120	

Sample Report

Sample Table

Sample Name	RINSE
Data File Name	027SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:26:25-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.023	0.023	47.16	163	0.01	10000	
B	11	45	2	NoGas	2.832	2.832	3.31	17316	0.02	300	
Na	23	45	1	He	7.822	7.822	8.26	30077	0.03	500000	
Mg	24	45	1	He	1.058	1.058	17.15	1545	0.07	500000	
Al	27	45	1	He	-13.293	-13.293	-5.30	2195	-0.61	200000	
K	39	45	1	He	2.816	2.816	22.40	37343	0.01	500000	
Ca	44	45	1	He	15.971	15.971	5.69	1391	1.15	500000	
Ti	47	45	1	He	3.249	3.249	13.94	873	0.37	2500	
V	51	45	1	He	0.118	0.118	24.58	1374	0.01	10000	
Cr	52	45	1	He	0.027	0.027	77.03	2620	0.00	10000	
Mn	55	45	1	He	0.183	0.183	3.72	1570	0.01	10000	
Fe	56	45	1	He	15.960	15.960	16.13	134534	0.01	200000	
Co	59	103	1	He	0.004	0.004	19.68	100	0.00	10000	
Ni	60	103	1	He	-0.014	-0.014	-20.34	47	-0.03	10000	
Cu	63	103	1	He	-0.047	-0.047	-61.27	2934	0.00	10000	
Zn	66	103	1	He	-0.804	-0.804	-1.58	727	-0.11	10000	
As	75	103	1	He	0.043	0.043	29.18	143	0.03	10000	
Se	78	103	1	He	0.025	0.025	40.90	41	0.06	10000	
Sr	88	103	1	He	0.419	0.419	9.79	3716	0.01	10000	
Mo	95	103	1	He	0.134	0.134	11.82	604	0.02	2000	
Ag	107	103	1	He	0.006	0.006	20.06	103	0.01	300	
Cd	111	103	1	He	-0.070	-0.070	-21.29	1037	-0.01	4000	
Sn	118	115	1	He	0.172	0.172	20.82	1208	0.01	2000	
Sb	123	115	1	He	0.062	0.062	23.54	476	0.01	300	
Ba	137	115	1	He	0.039	0.039	26.34	126	0.03	10000	
W	182	209	1	He	0.105	0.105	18.11	5738	0.00	2500	
Tl	205	209	1	He	0.004	0.004	30.97	190	0.00	5000	
Pb	208	209	1	He	0.083	0.083	16.21	4890	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1806949	1.04	2077022	87.00	30	120	
Sc	45	1	He	743451	0.46	817536	90.94	30	120	
Sc	45	2	NoGas	5711367	0.89	5970055	95.67	30	120	
Rh	103	1	He	2374244	0.35	2327919	101.99	30	120	
In	115	1	He	1248161	0.95	1305098	95.64	30	120	
Tb	159	1	He	3801172	0.89	3765959	100.94	30	120	
Ho	165	1	He	3869367	1.48	3748206	103.23	30	120	
Bi	209	1	He	2938336	1.34	2822318	104.11	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-j@10
Data File Name	028SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:30:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.221	0.221	26.75	1078	0.02	10000	
B	11	45	2	NoGas	7.200	7.200	3.57	35787	0.02	300	
Na	23	45	1	He	241.533	241.533	1.77	484839	0.05	500000	
Mg	24	45	1	He	857.082	857.082	1.81	936699	0.09	500000	
Al	27	45	1	He	5465.359	5465.359	1.69	3127471	0.17	200000	
K	39	45	1	He	44.804	44.804	2.17	79009	0.06	500000	
Ca	44	45	1	He	236240.753	236240.753	2.25	11786050	2.00	500000	
Ti	47	45	1	He	13529.700	13529.700	0.63	3859057	0.35	2500	>LDR
V	51	45	1	He	1170.364	1170.364	1.38	8347829	0.01	10000	
Cr	52	45	1	He	529.231	529.231	1.63	4616919	0.01	10000	
Mn	55	45	1	He	1670.342	1670.342	1.49	11200273	0.01	10000	
Fe	56	45	1	He	63142.663	63142.663	1.95	520289633	0.01	200000	
Co	59	103	1	He	8.352	8.352	1.24	99824	0.01	10000	
Ni	60	103	1	He	17.511	17.511	1.20	51931	0.03	10000	
Cu	63	103	1	He	24.519	24.519	1.47	194189	0.01	10000	
Zn	66	103	1	He	110.747	110.747	0.35	171531	0.06	10000	
As	75	103	1	He	2.796	2.796	1.83	2725	0.10	10000	
Se	78	103	1	He	0.749	0.749	6.32	108	0.70	10000	
Sr	88	103	1	He	4975.121	4975.121	0.48	35526402	0.01	10000	
Mo	95	103	1	He	3.570	3.570	1.54	12510	0.03	2000	
Ag	107	103	1	He	0.162	0.162	7.24	1967	0.01	300	
Cd	111	103	1	He	0.848	0.848	3.09	2767	0.03	4000	
Sn	118	115	1	He	15.221	15.221	2.66	72265	0.02	2000	
Sb	123	115	1	He	0.219	0.219	0.81	1101	0.02	300	
Ba	137	115	1	He	12.884	12.884	1.16	26550	0.05	10000	
W	182	209	1	He	7.232	7.232	1.04	110890	0.01	2500	
Tl	205	209	1	He	0.020	0.020	7.20	743	0.00	5000	
Pb	208	209	1	He	20.893	20.893	0.93	964844	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1582881	0.91	2077022	76.21	30	120	
Sc	45	1	He	799462	2.46	817536	97.79	30	120	
Sc	45	2	NoGas	5732293	1.62	5970055	96.02	30	120	
Rh	103	1	He	2032734	0.97	2327919	87.32	30	120	
In	115	1	He	1114164	0.66	1305098	85.37	30	120	
Tb	159	1	He	3608158	1.54	3765959	95.81	30	120	
Ho	165	1	He	3674649	1.16	3748206	98.04	30	120	
Bi	209	1	He	2625846	0.48	2822318	93.04	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111357-a-2-j@50
Data File Name	029SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:33:55-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.482	0.482	4.77	2230	0.02	10000	
B	11	45	2	NoGas	11.311	11.311	1.73	58459	0.02	300	
Na	23	45	1	He	454.143	454.143	2.67	945539	0.05	500000	
Mg	24	45	1	He	1669.731	1669.731	3.06	1924125	0.09	500000	
Al	27	45	1	He	10251.652	10251.652	1.74	6178425	0.17	200000	
K	39	45	1	He	83.686	83.686	4.38	121282	0.07	500000	
Ca	44	45	1	He	449623.040	449623.040	2.70	23660477	1.90	500000	
Ti	47	45	1	He	25785.795	25785.795	2.01	7756117	0.33	2500	>LDR
V	51	45	1	He	2210.516	2210.516	3.31	16627081	0.01	10000	
Cr	52	45	1	He	987.458	987.458	2.38	9083568	0.01	10000	
Mn	55	45	1	He	3174.012	3174.012	2.13	22447297	0.01	10000	
Fe	56	45	1	He	119809.730	119809.730	2.19	1041306341	0.01	200000	
Co	59	103	1	He	17.892	17.892	2.65	196809	0.01	10000	
Ni	60	103	1	He	37.249	37.249	1.41	101604	0.04	10000	
Cu	63	103	1	He	51.256	51.256	2.16	370767	0.01	10000	
Zn	66	103	1	He	223.798	223.798	2.02	317353	0.07	10000	
As	75	103	1	He	6.064	6.064	2.94	5353	0.11	10000	
Se	78	103	1	He	1.815	1.815	6.35	198	0.92	10000	
Sr	88	103	1	He	10900.531	10900.531	1.13	71654846	0.02	10000	>LDR
Mo	95	103	1	He	7.950	7.950	3.43	25588	0.03	2000	
Ag	107	103	1	He	0.716	0.716	2.92	7959	0.01	300	
Cd	111	103	1	He	3.534	3.534	6.56	7613	0.05	4000	
Sn	118	115	1	He	32.942	32.942	1.24	144919	0.02	2000	
Sb	123	115	1	He	0.373	0.373	2.06	1642	0.02	300	
Ba	137	115	1	He	28.254	28.254	2.88	54021	0.05	10000	
W	182	209	1	He	17.051	17.051	3.51	231749	0.01	2500	
Tl	205	209	1	He	0.043	0.043	6.10	1392	0.00	5000	
Pb	208	209	1	He	45.558	45.558	2.56	1899650	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1530090	1.84	2077022	73.67	30	120	
Sc	45	1	He	843159	1.30	817536	103.13	30	120	
Sc	45	2	NoGas	6307653	1.26	5970055	105.65	30	120	
Rh	103	1	He	1871379	0.55	2327919	80.39	30	120	
In	115	1	He	1034598	0.62	1305098	79.27	30	120	
Tb	159	1	He	3416512	0.89	3765959	90.72	30	120	
Ho	165	1	He	3460755	0.17	3748206	92.33	30	120	
Bi	209	1	He	2372046	1.22	2822318	84.05	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111357-a-2-j@10
Data File Name	030SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:37:37-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1112.335	1112.335	0.43	4817176	0.02	10000	
B	11	45	2	NoGas	112.264	112.264	1.27	445686	0.03	300	
Na	23	45	1	He	10598.776	10598.776	1.46	18320821	0.06	500000	
Mg	24	45	1	He	11222.719	11222.719	0.79	10936788	0.10	500000	
Al	27	45	1	He	15721.505	15721.505	0.31	8008901	0.20	200000	
K	39	45	1	He	10028.817	10028.817	0.24	8313157	0.12	500000	
Ca	44	45	1	He	277347.509	277347.509	0.16	12344644	2.25	500000	
Ti	47	45	1	He	15402.530	15402.530	0.80	3918430	0.39	2500	>LDR
V	51	45	1	He	2329.617	2329.617	0.78	14821543	0.02	10000	
Cr	52	45	1	He	1628.719	1628.719	0.98	12670309	0.01	10000	
Mn	55	45	1	He	2883.684	2883.684	0.88	17248108	0.02	10000	
Fe	56	45	1	He	81578.649	81578.649	0.38	599678572	0.01	200000	
Co	59	103	1	He	1062.906	1062.906	0.85	11718440	0.01	10000	
Ni	60	103	1	He	1108.586	1108.586	0.96	3028830	0.04	10000	
Cu	63	103	1	He	1082.678	1082.678	0.96	7796983	0.01	10000	
Zn	66	103	1	He	1149.239	1149.239	0.90	1626469	0.07	10000	
As	75	103	1	He	1032.162	1032.162	0.52	900411	0.11	10000	
Se	78	103	1	He	990.525	990.525	0.17	91722	1.08	10000	
Sr	88	103	1	He	6575.258	6575.258	1.49	43324214	0.02	10000	
Mo	95	103	1	He	123.245	123.245	1.77	396929	0.03	2000	
Ag	107	103	1	He	110.796	110.796	0.76	1232650	0.01	300	
Cd	111	103	1	He	1173.166	1173.166	1.06	2219092	0.05	4000	
Sn	118	115	1	He	1288.312	1288.312	0.28	5389265	0.02	2000	
Sb	123	115	1	He	120.605	120.605	1.00	460925	0.03	300	
Ba	137	115	1	He	1299.742	1299.742	0.60	2365900	0.05	10000	
W	182	209	1	He	135.407	135.407	0.47	1826346	0.01	2500	
Tl	205	209	1	He	288.687	288.687	1.15	9293696	0.00	5000	
Pb	208	209	1	He	1191.304	1191.304	0.98	49882142	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1457643	1.76	2077022	70.18	30	120	
Sc	45	1	He	713000	1.00	817536	87.21	30	120	
Sc	45	2	NoGas	5336035	1.26	5970055	89.38	30	120	
Rh	103	1	He	1875746	0.31	2327919	80.58	30	120	
In	115	1	He	985396	0.14	1305098	75.50	30	120	
Tb	159	1	He	3374466	1.20	3765959	89.60	30	120	
Ho	165	1	He	3472298	0.86	3748206	92.64	30	120	
Bi	209	1	He	2382268	1.27	2822318	84.41	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-k ms@10
Data File Name	031SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:41:07-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	100.458	100.458	1.25	443960	0.02	10000	
B	11	45	2	NoGas	16.286	16.286	2.81	68743	0.02	300	
Na	23	45	1	He	1244.618	1244.618	1.13	2161574	0.06	500000	
Mg	24	45	1	He	1796.212	1796.212	0.65	1747961	0.10	500000	
Al	27	45	1	He	6203.968	6203.968	1.43	3160521	0.20	200000	
K	39	45	1	He	927.943	927.943	1.55	798253	0.12	500000	
Ca	44	45	1	He	250521.433	250521.433	0.17	11133215	2.25	500000	
Ti	47	45	1	He	13466.276	13466.276	1.18	3420228	0.39	2500	>LDR
V	51	45	1	He	1231.068	1231.068	1.59	7819850	0.02	10000	
Cr	52	45	1	He	606.437	606.437	1.65	4711407	0.01	10000	
Mn	55	45	1	He	1703.064	1703.064	0.27	10170945	0.02	10000	
Fe	56	45	1	He	62964.088	62964.088	0.88	462103413	0.01	200000	
Co	59	103	1	He	101.278	101.278	0.81	1129536	0.01	10000	
Ni	60	103	1	He	110.038	110.038	0.53	304198	0.04	10000	
Cu	63	103	1	He	116.785	116.785	0.90	853180	0.01	10000	
Zn	66	103	1	He	189.811	189.811	0.27	273192	0.07	10000	
As	75	103	1	He	93.141	93.141	0.44	82264	0.11	10000	
Se	78	103	1	He	90.179	90.179	0.85	8475	1.06	10000	
Sr	88	103	1	He	4995.629	4995.629	0.77	33297826	0.02	10000	
Mo	95	103	1	He	15.545	15.545	1.38	50688	0.03	2000	
Ag	107	103	1	He	10.231	10.231	1.09	115158	0.01	300	
Cd	111	103	1	He	99.023	99.023	0.73	190358	0.05	4000	
Sn	118	115	1	He	122.637	122.637	0.43	536081	0.02	2000	
Sb	123	115	1	He	10.165	10.165	2.50	40716	0.02	300	
Ba	137	115	1	He	114.244	114.244	0.43	217247	0.05	10000	
W	182	209	1	He	15.287	15.287	2.86	215755	0.01	2500	
Tl	205	209	1	He	23.550	23.550	0.26	782535	0.00	5000	
Pb	208	209	1	He	122.702	122.702	0.15	5303619	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1487348	0.30	2077022	71.61	30	120	
Sc	45	1	He	711873	0.77	817536	87.08	30	120	
Sc	45	2	NoGas	5317656	0.38	5970055	89.07	30	120	
Rh	103	1	He	1897487	0.32	2327919	81.51	30	120	
In	115	1	He	1029297	0.82	1305098	78.87	30	120	
Tb	159	1	He	3413005	0.51	3765959	90.63	30	120	
Ho	165	1	He	3498883	0.35	3748206	93.35	30	120	
Bi	209	1	He	2458744	0.54	2822318	87.12	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-2-I msd@10
Data File Name	032SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:44:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	101.632	101.632	1.10	446653	0.02	10000	
B	11	45	2	NoGas	15.713	15.713	2.03	66348	0.02	300	
Na	23	45	1	He	1240.669	1240.669	1.22	2131561	0.06	500000	
Mg	24	45	1	He	1803.721	1803.721	0.84	1736315	0.10	500000	
Al	27	45	1	He	6097.981	6097.981	1.20	3073313	0.20	200000	
K	39	45	1	He	964.239	964.239	0.56	819264	0.12	500000	
Ca	44	45	1	He	243078.522	243078.522	1.47	10685481	2.27	500000	
Ti	47	45	1	He	13136.242	13136.242	0.06	3300486	0.40	2500	>LDR
V	51	45	1	He	1198.763	1198.763	0.89	7532780	0.02	10000	
Cr	52	45	1	He	601.159	601.159	0.51	4620138	0.01	10000	
Mn	55	45	1	He	1636.167	1636.167	0.74	9665747	0.02	10000	
Fe	56	45	1	He	61545.952	61545.952	0.96	446818756	0.01	200000	
Co	59	103	1	He	102.934	102.934	1.73	1151712	0.01	10000	
Ni	60	103	1	He	111.703	111.703	1.41	309811	0.04	10000	
Cu	63	103	1	He	117.544	117.544	1.95	861469	0.01	10000	
Zn	66	103	1	He	190.741	190.741	1.49	275414	0.07	10000	
As	75	103	1	He	94.116	94.116	1.85	83391	0.11	10000	
Se	78	103	1	He	90.758	90.758	2.33	8556	1.06	10000	
Sr	88	103	1	He	4769.979	4769.979	1.49	31897489	0.01	10000	
Mo	95	103	1	He	14.432	14.432	1.55	47219	0.03	2000	
Ag	107	103	1	He	10.496	10.496	1.69	118527	0.01	300	
Cd	111	103	1	He	100.912	100.912	1.81	194597	0.05	4000	
Sn	118	115	1	He	120.951	120.951	0.36	529488	0.02	2000	
Sb	123	115	1	He	9.831	9.831	0.90	39432	0.02	300	
Ba	137	115	1	He	116.873	116.873	0.93	222563	0.05	10000	
W	182	209	1	He	14.703	14.703	3.58	209761	0.01	2500	
Tl	205	209	1	He	23.838	23.838	1.55	800314	0.00	5000	
Pb	208	209	1	He	122.299	122.299	2.15	5340545	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1479033	0.49	2077022	71.21	30	120	
Sc	45	1	He	704169	0.41	817536	86.13	30	120	
Sc	45	2	NoGas	5304752	1.22	5970055	88.86	30	120	
Rh	103	1	He	1903966	1.71	2327919	81.79	30	120	
In	115	1	He	1030769	0.50	1305098	78.98	30	120	
Tb	159	1	He	3439609	0.15	3765959	91.33	30	120	
Ho	165	1	He	3488269	0.97	3748206	93.07	30	120	
Bi	209	1	He	2484723	1.91	2822318	88.04	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-3-e@10
Data File Name	033SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:48:30-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.269	0.269	18.10	1196	0.02	10000	
B	11	45	2	NoGas	7.186	7.186	3.51	32856	0.02	300	
Na	23	45	1	He	175.317	175.317	1.23	317984	0.06	500000	
Mg	24	45	1	He	1098.473	1098.473	0.73	1070321	0.10	500000	
Al	27	45	1	He	5153.811	5153.811	1.86	2630202	0.20	200000	
K	39	45	1	He	47.177	47.177	2.56	72396	0.07	500000	
Ca	44	45	1	He	176385.454	176385.454	0.74	7847527	2.25	500000	
Ti	47	45	1	He	12703.354	12703.354	1.75	3230061	0.39	2500	>LDR
V	51	45	1	He	1073.546	1073.546	0.40	6827420	0.02	10000	
Cr	52	45	1	He	496.924	496.924	1.15	3865362	0.01	10000	
Mn	55	45	1	He	1468.796	1468.796	0.85	8781395	0.02	10000	
Fe	56	45	1	He	58000.565	58000.565	0.77	426174552	0.01	200000	
Co	59	103	1	He	6.945	6.945	1.77	79716	0.01	10000	
Ni	60	103	1	He	14.650	14.650	2.56	41726	0.04	10000	
Cu	63	103	1	He	20.262	20.262	2.05	154542	0.01	10000	
Zn	66	103	1	He	97.064	97.064	1.13	144578	0.07	10000	
As	75	103	1	He	2.402	2.402	1.34	2259	0.11	10000	
Se	78	103	1	He	0.740	0.740	21.18	102	0.72	10000	
Sr	88	103	1	He	4137.075	4137.075	1.57	28365367	0.01	10000	
Mo	95	103	1	He	3.391	3.391	1.10	11414	0.03	2000	
Ag	107	103	1	He	0.232	0.232	4.76	2700	0.01	300	
Cd	111	103	1	He	1.121	1.121	6.30	3194	0.04	4000	
Sn	118	115	1	He	12.851	12.851	1.23	57866	0.02	2000	
Sb	123	115	1	He	0.262	0.262	3.43	1221	0.02	300	
Ba	137	115	1	He	11.476	11.476	1.55	22418	0.05	10000	
W	182	209	1	He	6.404	6.404	2.79	93572	0.01	2500	
Tl	205	209	1	He	0.057	0.057	16.09	1923	0.00	5000	
Pb	208	209	1	He	17.280	17.280	0.78	757370	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1457348	1.58	2077022	70.17	30	120	
Sc	45	1	He	712668	0.82	817536	87.17	30	120	
Sc	45	2	NoGas	5269127	0.89	5970055	88.26	30	120	
Rh	103	1	He	1952037	1.08	2327919	83.85	30	120	
In	115	1	He	1056192	0.93	1305098	80.93	30	120	
Tb	159	1	He	3458267	0.84	3765959	91.83	30	120	
Ho	165	1	He	3531861	0.38	3748206	94.23	30	120	
Bi	209	1	He	2491827	0.51	2822318	88.29	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-4-e@10
Data File Name	034SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:52:12-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.242	0.242	10.57	1074	0.02	10000	
B	11	45	2	NoGas	5.855	5.855	2.80	27636	0.02	300	
Na	23	45	1	He	157.968	157.968	0.30	286466	0.06	500000	
Mg	24	45	1	He	874.874	874.874	0.92	847862	0.10	500000	
Al	27	45	1	He	5221.767	5221.767	1.32	2649857	0.20	200000	
K	39	45	1	He	44.585	44.585	3.60	69872	0.06	500000	
Ca	44	45	1	He	178183.022	178183.022	0.91	7883459	2.26	500000	
Ti	47	45	1	He	13233.574	13233.574	0.56	3346721	0.40	2500	>LDR
V	51	45	1	He	1135.172	1135.172	0.84	7179445	0.02	10000	
Cr	52	45	1	He	518.122	518.122	0.59	4008249	0.01	10000	
Mn	55	45	1	He	1495.549	1495.549	1.59	8891921	0.02	10000	
Fe	56	45	1	He	57471.784	57471.784	0.96	419945370	0.01	200000	
Co	59	103	1	He	6.848	6.848	0.53	77868	0.01	10000	
Ni	60	103	1	He	15.180	15.180	0.38	42840	0.04	10000	
Cu	63	103	1	He	21.719	21.719	0.08	163950	0.01	10000	
Zn	66	103	1	He	99.717	99.717	1.10	147119	0.07	10000	
As	75	103	1	He	2.259	2.259	0.80	2110	0.11	10000	
Se	78	103	1	He	0.535	0.535	10.72	82	0.65	10000	
Sr	88	103	1	He	4062.231	4062.231	1.40	27597544	0.01	10000	
Mo	95	103	1	He	3.227	3.227	1.80	10765	0.03	2000	
Ag	107	103	1	He	0.311	0.311	5.01	3584	0.01	300	
Cd	111	103	1	He	1.569	1.569	11.98	4039	0.04	4000	
Sn	118	115	1	He	13.129	13.129	1.31	58925	0.02	2000	
Sb	123	115	1	He	0.208	0.208	13.86	997	0.02	300	
Ba	137	115	1	He	10.993	10.993	1.20	21409	0.05	10000	
W	182	209	1	He	6.819	6.819	1.50	99867	0.01	2500	
Tl	205	209	1	He	0.028	0.028	4.03	976	0.00	5000	
Pb	208	209	1	He	17.768	17.768	0.97	782336	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1450518	3.36	2077022	69.84	30	120	
Sc	45	1	He	708759	1.11	817536	86.69	30	120	
Sc	45	2	NoGas	5258130	0.68	5970055	88.08	30	120	
Rh	103	1	He	1933967	0.16	2327919	83.08	30	120	
In	115	1	He	1052767	0.19	1305098	80.67	30	120	
Tb	159	1	He	3431806	0.46	3765959	91.13	30	120	
Ho	165	1	He	3463448	0.97	3748206	92.40	30	120	
Bi	209	1	He	2503383	0.99	2822318	88.70	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-5-e@10
Data File Name	035SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:55:56-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.505	0.505	18.10	2456	0.02	10000	
B	11	45	2	NoGas	11.097	11.097	1.65	47933	0.02	300	
Na	23	45	1	He	256.949	256.949	0.81	436943	0.06	500000	
Mg	24	45	1	He	2149.071	2149.071	0.76	1993379	0.11	500000	
Al	27	45	1	He	9340.222	9340.222	2.04	4530423	0.21	200000	
K	39	45	1	He	572.725	572.725	0.36	481878	0.12	500000	
Ca	44	45	1	He	13635.711	13635.711	0.69	578141	2.36	500000	
Ti	47	45	1	He	250.561	250.561	1.57	60664	0.41	2500	
V	51	45	1	He	39.730	39.730	1.37	241075	0.02	10000	
Cr	52	45	1	He	46.167	46.167	1.58	343870	0.01	10000	
Mn	55	45	1	He	444.548	444.548	0.74	2530839	0.02	10000	
Fe	56	45	1	He	44721.301	44721.301	0.59	312863401	0.01	200000	
Co	59	103	1	He	5.480	5.480	1.39	68073	0.01	10000	
Ni	60	103	1	He	19.527	19.527	0.70	60163	0.03	10000	
Cu	63	103	1	He	81.787	81.787	1.02	666070	0.01	10000	
Zn	66	103	1	He	311.120	311.120	0.61	497260	0.06	10000	
As	75	103	1	He	8.491	8.491	2.00	8426	0.10	10000	
Se	78	103	1	He	0.765	0.765	13.19	113	0.67	10000	
Sr	88	103	1	He	283.943	283.943	1.96	2107098	0.01	10000	
Mo	95	103	1	He	2.646	2.646	3.99	9649	0.03	2000	
Ag	107	103	1	He	0.690	0.690	3.12	8657	0.01	300	
Cd	111	103	1	He	1.668	1.668	1.61	4623	0.04	4000	
Sn	118	115	1	He	91.104	91.104	0.16	435303	0.02	2000	
Sb	123	115	1	He	2.166	2.166	1.78	9604	0.02	300	
Ba	137	115	1	He	110.015	110.015	0.48	228627	0.05	10000	
W	182	209	1	He	1.150	1.150	3.31	21315	0.01	2500	
Tl	205	209	1	He	0.086	0.086	2.58	3169	0.00	5000	
Pb	208	209	1	He	302.491	302.491	1.27	14433792	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1610014	0.68	2077022	77.52	30	120	
Sc	45	1	He	678603	2.54	817536	83.01	30	120	
Sc	45	2	NoGas	5260354	1.02	5970055	88.11	30	120	
Rh	103	1	He	2112290	0.47	2327919	90.74	30	120	
In	115	1	He	1124895	1.72	1305098	86.19	30	120	
Tb	159	1	He	3605510	1.55	3765959	95.74	30	120	
Ho	165	1	He	3642221	1.22	3748206	97.17	30	120	
Bi	209	1	He	2714679	1.26	2822318	96.19	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	036_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T19:59:40-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	47.852	2.372	230760	1.73	50	95.7	89.5	110.5	
B	11	45	2	NoGas	49.883	0.484	196666	0.85	50	99.8	89.5	110.5	
Na	23	45	1	He	26601.958	0.587	44390908	0.29	25000	106.4	89.5	110.5	
Mg	24	45	1	He	26429.546	1.179	24873163	0.91	25000	105.7	89.5	110.5	
Al	27	45	1	He	245.713	1.679	129316	1.31	250	98.3	89.5	110.5	
K	39	45	1	He	25866.207	0.514	20656018	0.20	25000	103.5	89.5	110.5	
Ca	44	45	1	He	25545.629	0.579	1098669	0.39	25000	102.2	89.5	110.5	
Ti	47	45	1	He	69.312	2.168	17039	1.86	50	138.6	89.5	110.5	CCV Failed
V	51	45	1	He	53.443	2.268	328918	1.94	50	106.9	89.5	110.5	
Cr	52	45	1	He	53.986	1.352	407751	1.04	50	108.0	89.5	110.5	
Mn	55	45	1	He	271.011	1.361	1565916	1.04	250	108.4	89.5	110.5	
Fe	56	45	1	He	13729.961	0.671	97485061	0.42	12500	109.8	89.5	110.5	
Co	59	103	1	He	47.091	0.468	585519	1.03	50	94.2	89.5	110.5	
Ni	60	103	1	He	47.448	1.186	146268	0.56	50	94.9	89.5	110.5	
Cu	63	103	1	He	47.769	0.518	390810	0.77	50	95.5	89.5	110.5	
Zn	66	103	1	He	46.584	0.383	76204	1.33	50	93.2	89.5	110.5	
As	75	103	1	He	45.927	0.274	45266	1.51	50	91.9	89.5	110.5	
Se	78	103	1	He	45.231	1.161	4755	1.09	50	90.5	89.5	110.5	
Sr	88	103	1	He	46.976	1.015	349241	0.38	50	94.0	89.5	110.5	
Mo	95	103	1	He	51.417	1.787	186764	0.51	50	102.8	89.5	110.5	
Ag	107	103	1	He	50.487	0.326	633473	1.39	50	101.0	89.5	110.5	
Cd	111	103	1	He	50.988	0.807	109786	0.52	50	102.0	89.5	110.5	
Sn	118	115	1	He	51.497	0.330	247961	0.82	50	103.0	89.5	110.5	
Sb	123	115	1	He	53.960	0.290	237211	0.67	50	107.9	89.5	110.5	
Ba	137	115	1	He	51.860	0.652	108574	0.54	50	103.7	89.5	110.5	
W	182	209	1	He	49.122	2.219	733490	1.71	50	98.2	89.5	110.5	
Tl	205	209	1	He	51.176	1.111	1818441	0.72	50	102.4	89.5	110.5	
Pb	208	209	1	He	49.132	1.322	2271221	1.09	50	98.3	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1623255	2.36	2077022	78.15	30	120	
Sc	45	1	He	688607	0.32	817536	84.23	30	120	
Sc	45	2	NoGas	5225133	1.21	5970055	87.52	30	120	
Rh	103	1	He	2115384	1.28	2327919	90.87	30	120	
In	115	1	He	1133037	0.49	1305098	86.82	30	120	
Tb	159	1	He	3609573	0.51	3765959	95.85	30	120	
Ho	165	1	He	3716473	0.49	3748206	99.15	30	120	
Bi	209	1	He	2629347	0.69	2822318	93.16	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	037_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:03:27-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.053	29.8	296	24.1	1	
B	11	45	2	NoGas	2.872	3.0	15970	2.3	20	
Na	23	45	1	He	11.414	6.1	34088	3.5	400	
Mg	24	45	1	He	1.585	20.4	1941	16.4	1000	
Al	27	45	1	He	-0.657	-123.6	8301	4.3	50	
K	39	45	1	He	7.004	1.6	38196	0.8	1000	
Ca	44	45	1	He	8.895	35.2	992	14.3	1000	
Ti	47	45	1	He	2.588	15.1	651	15.4	20	
V	51	45	1	He	0.044	81.8	827	26.7	2	
Cr	52	45	1	He	0.000	-10011.0	2241	5.7	2	
Mn	55	45	1	He	0.103	14.2	996	8.1	2	
Fe	56	45	1	He	11.809	16.0	95900	14.4	50	
Co	59	103	1	He	0.005	43.0	100	26.7	1	
Ni	60	103	1	He	-0.006	-171.3	71	46.2	2	
Cu	63	103	1	He	-0.165	-11.9	1753	10.7	2	
Zn	66	103	1	He	-0.223	-27.7	1668	5.3	20	
As	75	103	1	He	0.227	1.4	328	2.0	2	
Se	78	103	1	He	0.083	86.9	45	16.9	2	
Sr	88	103	1	He	0.118	20.7	1133	16.1	10	
Mo	95	103	1	He	0.835	17.9	3273	18.7	2	
Ag	107	103	1	He	0.010	30.5	156	27.9	0.2	
Cd	111	103	1	He	-0.032	-51.2	1065	4.4	0.2	
Sn	118	115	1	He	0.614	9.4	3363	8.3	10	
Sb	123	115	1	He	0.296	19.2	1525	16.6	1	
Ba	137	115	1	He	0.012	55.7	60	24.2	5	
W	182	209	1	He	0.906	10.7	17981	8.6	10	
Tl	205	209	1	He	0.028	24.1	1079	23.8	0.5	
Pb	208	209	1	He	0.070	5.8	3961	4.9	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1640863	2.01	2077022	79.00	30	120	
Sc	45	1	He	693514	0.64	817536	84.83	30	120	
Sc	45	2	NoGas	5217266	0.37	5970055	87.39	30	120	
Rh	103	1	He	2241343	1.02	2327919	96.28	30	120	
In	115	1	He	1183061	1.46	1305098	90.65	30	120	
Tb	159	1	He	3684871	1.63	3765959	97.85	30	120	
Ho	165	1	He	3731199	1.46	3748206	99.55	30	120	
Bi	209	1	He	2774680	0.43	2822318	98.31	30	120	

Sample Report

Sample Table

Sample Name	680-111357-a-6-e@10
Data File Name	038SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:07:17-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.185	0.185	9.92	882	0.02	10000	
B	11	45	2	NoGas	4.461	4.461	2.47	20772	0.02	300	
Na	23	45	1	He	218.181	218.181	1.50	362353	0.06	500000	
Mg	24	45	1	He	854.631	854.631	1.42	769893	0.11	500000	
Al	27	45	1	He	5135.852	5135.852	0.35	2422861	0.21	200000	
K	39	45	1	He	201.880	201.880	1.12	184925	0.11	500000	
Ca	44	45	1	He	14762.997	14762.997	0.07	607685	2.43	500000	
Ti	47	45	1	He	120.205	120.205	2.59	28261	0.43	2500	
V	51	45	1	He	23.862	23.862	1.38	140810	0.02	10000	
Cr	52	45	1	He	18.996	18.996	0.54	138641	0.01	10000	
Mn	55	45	1	He	66.309	66.309	0.16	366847	0.02	10000	
Fe	56	45	1	He	7470.415	7470.415	0.21	50750975	0.01	200000	
Co	59	103	1	He	0.708	0.708	2.22	8523	0.01	10000	
Ni	60	103	1	He	3.687	3.687	1.23	11040	0.03	10000	
Cu	63	103	1	He	54.270	54.270	0.44	427890	0.01	10000	
Zn	66	103	1	He	37.648	37.648	0.95	59761	0.06	10000	
As	75	103	1	He	1.975	1.975	4.47	1957	0.10	10000	
Se	78	103	1	He	0.602	0.602	8.47	93	0.65	10000	
Sr	88	103	1	He	319.917	319.917	0.01	2293205	0.01	10000	
Mo	95	103	1	He	0.659	0.659	1.74	2361	0.03	2000	
Ag	107	103	1	He	0.274	0.274	5.81	3327	0.01	300	
Cd	111	103	1	He	0.112	0.112	23.01	1265	0.01	4000	
Sn	118	115	1	He	13.494	13.494	2.83	62798	0.02	2000	
Sb	123	115	1	He	0.261	0.261	11.22	1259	0.02	300	
Ba	137	115	1	He	24.912	24.912	0.80	50271	0.05	10000	
W	182	209	1	He	0.295	0.295	4.73	8080	0.00	2500	
Tl	205	209	1	He	0.053	0.053	7.18	1932	0.00	5000	
Pb	208	209	1	He	31.944	31.944	0.95	1502028	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1540686	1.40	2077022	74.18	30	120	
Sc	45	1	He	658793	0.99	817536	80.58	30	120	
Sc	45	2	NoGas	4910191	1.00	5970055	82.25	30	120	
Rh	103	1	He	2040412	0.43	2327919	87.65	30	120	
In	115	1	He	1091743	0.25	1305098	83.65	30	120	
Tb	159	1	He	3480595	1.69	3765959	92.42	30	120	
Ho	165	1	He	3510821	2.08	3748206	93.67	30	120	
Bi	209	1	He	2674114	0.49	2822318	94.75	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	lb 240-176989/1-c@10
Data File Name	039_Blk.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:11:06-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.033	7.3	200	5.6	1	
B	11	45	2	NoGas	2.596	4.2	15081	3.4	20	
Na	23	45	1	He	162725.977	1.3	272265634	1.0	400	Blank Failed
Mg	24	45	1	He	1.183	14.6	1552	10.8	1000	
Al	27	45	1	He	-2.963	-34.5	7130	6.8	50	
K	39	45	1	He	18.813	5.8	47481	1.8	1000	
Ca	44	45	1	He	12.567	14.2	1146	6.6	1000	
Ti	47	45	1	He	1.401	23.5	356	22.9	20	
V	51	45	1	He	-0.011	-951.8	487	131.2	2	
Cr	52	45	1	He	0.140	2.9	3285	0.7	2	
Mn	55	45	1	He	0.101	10.0	981	5.7	2	
Fe	56	45	1	He	5.422	18.6	49982	14.1	50	
Co	59	103	1	He	0.002	122.1	53	43.8	1	
Ni	60	103	1	He	0.141	10.6	521	9.1	2	
Cu	63	103	1	He	0.015	162.2	3123	6.2	2	
Zn	66	103	1	He	0.294	23.3	2402	4.9	20	
As	75	103	1	He	0.058	32.5	143	12.9	2	
Se	78	103	1	He	0.045	107.9	38	13.5	2	
Sr	88	103	1	He	0.174	3.4	1488	3.1	10	
Mo	95	103	1	He	0.119	10.8	486	9.3	2	
Ag	107	103	1	He	0.006	12.0	93	9.4	0.2	
Cd	111	103	1	He	-0.029	-41.7	1012	2.4	0.2	
Sn	118	115	1	He	0.319	11.3	1796	9.9	10	
Sb	123	115	1	He	0.052	7.3	386	3.9	1	
Ba	137	115	1	He	0.323	16.0	707	14.9	5	
W	182	209	1	He	0.098	10.7	5016	2.2	10	
Tl	205	209	1	He	0.003	31.7	121	25.6	0.5	
Pb	208	209	1	He	0.049	1.8	2810	1.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1637575	0.66	2077022	78.84	30	120	
Sc	45	1	He	690644	0.32	817536	84.48	30	120	
Sc	45	2	NoGas	5274942	0.54	5970055	88.36	30	120	
Rh	103	1	He	2117703	0.34	2327919	90.97	30	120	
In	115	1	He	1128963	0.41	1305098	86.50	30	120	
Tb	159	1	He	3613694	0.81	3765959	95.96	30	120	
Ho	165	1	He	3658737	0.97	3748206	97.61	30	120	
Bi	209	1	He	2624445	0.95	2822318	92.99	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-177073/2-a@10
Data File Name	040_Blk.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:14:56-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.019	39.0	130	27.6	1	
B	11	45	2	NoGas	1.593	4.4	10948	3.4	20	
Na	23	45	1	He	42.473	9.9	85428	8.8	400	
Mg	24	45	1	He	0.056	206.4	485	22.6	1000	
Al	27	45	1	He	-3.889	-11.4	6635	2.9	50	
K	39	45	1	He	2.624	46.1	34326	2.3	1000	
Ca	44	45	1	He	4.640	13.0	799	3.5	1000	
Ti	47	45	1	He	0.830	36.1	213	33.8	20	
V	51	45	1	He	-0.148	-33.4	-359	-84.8	2	
Cr	52	45	1	He	0.059	35.2	2665	6.5	2	
Mn	55	45	1	He	0.103	11.2	986	7.1	2	
Fe	56	45	1	He	1.458	7.1	21640	3.3	50	
Co	59	103	1	He	0.002	46.1	58	17.6	1	
Ni	60	103	1	He	-0.001	-174.4	84	8.2	2	
Cu	63	103	1	He	-0.079	-13.8	2445	4.9	2	
Zn	66	103	1	He	-0.057	-11.6	1911	1.1	20	
As	75	103	1	He	0.043	30.4	133	9.4	2	
Se	78	103	1	He	0.033	214.3	39	19.5	2	
Sr	88	103	1	He	0.049	18.4	584	13.1	10	
Mo	95	103	1	He	0.054	17.5	258	13.1	2	
Ag	107	103	1	He	0.005	35.6	81	28.9	0.2	
Cd	111	103	1	He	-0.063	-38.8	975	5.1	0.2	
Sn	118	115	1	He	0.442	19.6	2437	17.7	10	
Sb	123	115	1	He	0.034	7.2	314	3.7	1	
Ba	137	115	1	He	0.012	42.1	58	17.6	5	
W	182	209	1	He	0.031	64.3	4238	7.0	10	
Tl	205	209	1	He	0.001	31.7	78	22.0	0.5	
Pb	208	209	1	He	0.040	5.2	2532	4.4	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1623485	0.56	2077022	78.16	30	120	
Sc	45	1	He	686540	0.81	817536	83.98	30	120	
Sc	45	2	NoGas	5162562	1.66	5970055	86.47	30	120	
Rh	103	1	He	2198365	1.32	2327919	94.43	30	120	
In	115	1	He	1152464	0.48	1305098	88.30	30	120	
Tb	159	1	He	3559745	1.24	3765959	94.52	30	120	
Ho	165	1	He	3630294	0.12	3748206	96.85	30	120	
Bi	209	1	He	2771151	0.92	2822318	98.19	30	120	

Sample Report

Sample Table

Sample Name	lcs 240-177073/3-a@10
Data File Name	041SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:18:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	93.304	93.304	0.74	467283	0.02	10000	
B	11	45	2	NoGas	11.868	11.868	0.86	53266	0.02	300	
Na	23	45	1	He	159402.894	159402.894	0.85	287793226	0.06	500000	
Mg	24	45	1	He	1039.449	1039.449	0.91	1059146	0.10	500000	
Al	27	45	1	He	993.537	993.537	0.22	537739	0.18	200000	
K	39	45	1	He	1025.599	1025.599	1.61	919928	0.11	500000	
Ca	44	45	1	He	992.986	992.986	1.85	46845	2.12	500000	
Ti	47	45	1	He	11.086	11.086	0.32	2959	0.37	2500	
V	51	45	1	He	103.693	103.693	0.78	690156	0.02	10000	
Cr	52	45	1	He	103.750	103.750	0.17	845946	0.01	10000	
Mn	55	45	1	He	99.076	99.076	0.27	619880	0.02	10000	
Fe	56	45	1	He	1049.643	1049.643	0.47	8078064	0.01	200000	
Co	59	103	1	He	94.730	94.730	1.34	1211670	0.01	10000	
Ni	60	103	1	He	95.444	95.444	1.80	302599	0.03	10000	
Cu	63	103	1	He	96.571	96.571	1.67	809612	0.01	10000	
Zn	66	103	1	He	96.101	96.101	0.97	159604	0.06	10000	
As	75	103	1	He	92.358	92.358	1.06	93550	0.10	10000	
Se	78	103	1	He	91.356	91.356	2.07	9845	0.93	10000	
Sr	88	103	1	He	92.913	92.913	1.54	710425	0.01	10000	
Mo	95	103	1	He	10.431	10.431	1.87	39022	0.03	2000	
Ag	107	103	1	He	10.103	10.103	1.34	130422	0.01	300	
Cd	111	103	1	He	98.312	98.312	1.34	216746	0.05	4000	
Sn	118	115	1	He	102.490	102.490	0.81	511695	0.02	2000	
Sb	123	115	1	He	10.637	10.637	0.98	48647	0.02	300	
Ba	137	115	1	He	101.783	101.783	0.52	221051	0.05	10000	
W	182	209	1	He	9.562	9.562	2.32	148726	0.01	2500	
Tl	205	209	1	He	22.726	22.726	0.99	824614	0.00	5000	
Pb	208	209	1	He	100.571	100.571	1.21	4746874	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1685525	0.92	2077022	81.15	30	120	
Sc	45	1	He	745302	1.69	817536	91.16	30	120	
Sc	45	2	NoGas	5503420	0.48	5970055	92.18	30	120	
Rh	103	1	He	2176232	1.41	2327919	93.48	30	120	
In	115	1	He	1175487	0.56	1305098	90.07	30	120	
Tb	159	1	He	3770542	0.58	3765959	100.12	30	120	
Ho	165	1	He	3844924	0.29	3748206	102.58	30	120	
Bi	209	1	He	2684914	0.82	2822318	95.13	30	120	

Sample Report

Sample Table

Sample Name	680-111548-a-2-d@10
Data File Name	042SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:22:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.036	0.036	65.53	230	0.02	10000	
B	11	45	2	NoGas	8.559	8.559	3.52	42880	0.02	300	
Na	23	45	1	He	159842.822	159842.822	1.42	299877351	0.05	500000	
Mg	24	45	1	He	1866.338	1866.338	0.26	1975810	0.09	500000	
Al	27	45	1	He	0.607	0.607	22.12	9969	0.01	200000	
K	39	45	1	He	121.382	121.382	1.68	145216	0.08	500000	
Ca	44	45	1	He	134532.122	134532.122	1.62	6504071	2.07	500000	
Ti	47	45	1	He	0.751	0.751	23.87	219	0.34	2500	
V	51	45	1	He	20.919	20.919	0.97	145168	0.01	10000	
Cr	52	45	1	He	0.241	0.241	7.67	4538	0.01	10000	
Mn	55	45	1	He	101.558	101.558	0.41	660220	0.02	10000	
Fe	56	45	1	He	2.226	2.226	5.21	30542	0.01	200000	
Co	59	103	1	He	0.199	0.199	3.69	2648	0.01	10000	
Ni	60	103	1	He	0.553	0.553	3.62	1890	0.03	10000	
Cu	63	103	1	He	0.018	0.018	87.63	3311	0.00	10000	
Zn	66	103	1	He	1.161	1.161	4.21	3993	0.03	10000	
As	75	103	1	He	0.828	0.828	12.02	951	0.09	10000	
Se	78	103	1	He	0.499	0.499	17.83	91	0.55	10000	
Sr	88	103	1	He	2635.733	2635.733	0.99	20679666	0.01	10000	
Mo	95	103	1	He	0.917	0.917	1.67	3573	0.03	2000	
Ag	107	103	1	He	0.008	0.008	17.30	120	0.01	300	
Cd	111	103	1	He	0.034	0.034	57.73	1208	0.00	4000	
Sn	118	115	1	He	0.769	0.769	7.50	4297	0.02	2000	
Sb	123	115	1	He	0.119	0.119	4.02	739	0.02	300	
Ba	137	115	1	He	0.761	0.761	5.58	1760	0.04	10000	
W	182	209	1	He	0.315	0.315	21.02	8555	0.00	2500	
Tl	205	209	1	He	0.028	0.028	27.58	1067	0.00	5000	
Pb	208	209	1	He	0.041	0.041	9.20	2529	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1758366	1.81	2077022	84.66	30	120	
Sc	45	1	He	774418	0.72	817536	94.73	30	120	
Sc	45	2	NoGas	5920886	1.57	5970055	99.18	30	120	
Rh	103	1	He	2233457	0.68	2327919	95.94	30	120	
In	115	1	He	1226839	0.68	1305098	94.00	30	120	
Tb	159	1	He	3868513	0.71	3765959	102.72	30	120	
Ho	165	1	He	3930708	1.32	3748206	104.87	30	120	
Bi	209	1	He	2724275	0.31	2822318	96.53	30	120	

Sample Report

Sample Table

Sample Name	SD 680-111548-a-2-d@50
Data File Name	043SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:26:24-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.028	0.028	41.59	196	0.01	10000	
B	11	45	2	NoGas	2.652	2.652	5.88	16923	0.02	300	
Na	23	45	1	He	32807.908	32807.908	1.67	60943948	0.05	500000	
Mg	24	45	1	He	367.825	367.825	0.49	385872	0.10	500000	
Al	27	45	1	He	-2.903	-2.903	-11.11	7948	-0.04	200000	
K	39	45	1	He	28.535	28.535	2.96	61333	0.05	500000	
Ca	44	45	1	He	28287.007	28287.007	1.29	1354399	2.09	500000	
Ti	47	45	1	He	0.738	0.738	14.06	213	0.35	2500	
V	51	45	1	He	4.169	4.169	2.61	29128	0.01	10000	
Cr	52	45	1	He	0.039	0.039	33.95	2804	0.00	10000	
Mn	55	45	1	He	20.788	20.788	0.70	134132	0.02	10000	
Fe	56	45	1	He	0.169	0.169	25.77	13977	0.00	200000	
Co	59	103	1	He	0.040	0.040	3.06	577	0.01	10000	
Ni	60	103	1	He	0.091	0.091	6.29	394	0.02	10000	
Cu	63	103	1	He	-0.098	-0.098	-6.08	2378	0.00	10000	
Zn	66	103	1	He	-0.144	-0.144	-9.85	1842	-0.01	10000	
As	75	103	1	He	0.182	0.182	2.09	287	0.06	10000	
Se	78	103	1	He	0.056	0.056	52.97	43	0.13	10000	
Sr	88	103	1	He	527.212	527.212	0.46	4245384	0.01	10000	
Mo	95	103	1	He	0.216	0.216	2.17	907	0.02	2000	
Ag	107	103	1	He	0.006	0.006	14.16	100	0.01	300	
Cd	111	103	1	He	0.003	0.003	533.04	1169	0.00	4000	
Sn	118	115	1	He	0.292	0.292	8.62	1859	0.02	2000	
Sb	123	115	1	He	0.039	0.039	21.85	369	0.01	300	
Ba	137	115	1	He	0.149	0.149	18.26	383	0.04	10000	
W	182	209	1	He	0.076	0.076	24.25	5101	0.00	2500	
Tl	205	209	1	He	0.006	0.006	19.09	260	0.00	5000	
Pb	208	209	1	He	0.021	0.021	6.04	1627	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1819484	1.44	2077022	87.60	30	120	
Sc	45	1	He	766636	0.52	817536	93.77	30	120	
Sc	45	2	NoGas	5838334	0.79	5970055	97.79	30	120	
Rh	103	1	He	2292297	0.99	2327919	98.47	30	120	
In	115	1	He	1259716	0.35	1305098	96.52	30	120	
Tb	159	1	He	3850210	0.34	3765959	102.24	30	120	
Ho	165	1	He	3932092	1.58	3748206	104.91	30	120	
Bi	209	1	He	2852717	0.24	2822318	101.08	30	120	

Sample Report

Sample Table

Sample Name	PDS 680-111548-a-2-d@10
Data File Name	044SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:30:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	967.537	967.537	0.33	4551921	0.02	10000	
B	11	45	2	NoGas	110.336	110.336	0.28	424856	0.03	300	
Na	23	45	1	He	168714.539	168714.539	0.23	280471189	0.06	500000	
Mg	24	45	1	He	11976.314	11976.314	0.15	11232138	0.11	500000	
Al	27	45	1	He	9768.311	9768.311	0.35	4792182	0.20	200000	
K	39	45	1	He	10141.149	10141.149	0.27	8089630	0.13	500000	
Ca	44	45	1	He	142499.294	142499.294	0.89	6104191	2.33	500000	
Ti	47	45	1	He	103.332	103.332	0.97	25310	0.41	2500	
V	51	45	1	He	1055.272	1055.272	0.99	6461926	0.02	10000	
Cr	52	45	1	He	1022.762	1022.762	0.63	7658127	0.01	10000	
Mn	55	45	1	He	1100.750	1100.750	1.60	6336454	0.02	10000	
Fe	56	45	1	He	10273.146	10273.146	1.73	72682786	0.01	200000	
Co	59	103	1	He	933.781	933.781	1.05	10933184	0.01	10000	
Ni	60	103	1	He	958.675	958.675	1.50	2781687	0.03	10000	
Cu	63	103	1	He	935.520	935.520	1.25	7155446	0.01	10000	
Zn	66	103	1	He	885.895	885.895	0.57	1331952	0.07	10000	
As	75	103	1	He	926.380	926.380	0.53	858267	0.11	10000	
Se	78	103	1	He	894.052	894.052	0.74	87926	1.02	10000	
Sr	88	103	1	He	3513.848	3513.848	1.28	24588725	0.01	10000	
Mo	95	103	1	He	104.209	104.209	1.61	356474	0.03	2000	
Ag	107	103	1	He	96.430	96.430	0.60	1139376	0.01	300	
Cd	111	103	1	He	1014.510	1014.510	1.17	2038106	0.05	4000	
Sn	118	115	1	He	1091.269	1091.269	0.93	4926546	0.02	2000	
Sb	123	115	1	He	105.239	105.239	0.98	434067	0.02	300	
Ba	137	115	1	He	1115.817	1115.817	1.24	2191906	0.05	10000	
W	182	209	1	He	99.267	99.267	0.60	1416414	0.01	2500	
Tl	205	209	1	He	245.593	245.593	1.99	8359097	0.00	5000	
Pb	208	209	1	He	1006.200	1006.200	0.60	44543761	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1583455	0.67	2077022	76.24	30	120	
Sc	45	1	He	686194	0.86	817536	83.93	30	120	
Sc	45	2	NoGas	5174620	1.06	5970055	86.68	30	120	
Rh	103	1	He	1992105	0.41	2327919	85.57	30	120	
In	115	1	He	1063464	0.75	1305098	81.49	30	120	
Tb	159	1	He	3588796	0.85	3765959	95.30	30	120	
Ho	165	1	He	3689605	1.46	3748206	98.44	30	120	
Bi	209	1	He	2518513	0.58	2822318	89.24	30	120	

Sample Report

Sample Table

Sample Name	680-111548-a-2-e ms@10
Data File Name	045SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:33:46-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	102.412	102.412	1.71	481020	0.02	10000	
B	11	45	2	NoGas	20.781	20.781	1.11	80114	0.03	300	
Na	23	45	1	He	160792.749	160792.749	1.85	275299471	0.06	500000	
Mg	24	45	1	He	2861.838	2861.838	2.09	2764569	0.10	500000	
Al	27	45	1	He	1016.463	1016.463	1.70	521481	0.19	200000	
K	39	45	1	He	1152.625	1152.625	1.99	976381	0.12	500000	
Ca	44	45	1	He	136784.647	136784.647	0.70	6036487	2.27	500000	
Ti	47	45	1	He	11.389	11.389	2.88	2885	0.39	2500	
V	51	45	1	He	126.673	126.673	1.04	799526	0.02	10000	
Cr	52	45	1	He	105.667	105.667	0.98	817076	0.01	10000	
Mn	55	45	1	He	201.940	201.940	0.62	1197965	0.02	10000	
Fe	56	45	1	He	1061.168	1061.168	1.99	7743211	0.01	200000	
Co	59	103	1	He	97.337	97.337	1.27	1169684	0.01	10000	
Ni	60	103	1	He	96.956	96.956	1.36	288806	0.03	10000	
Cu	63	103	1	He	96.841	96.841	1.48	762781	0.01	10000	
Zn	66	103	1	He	95.905	95.905	0.92	149640	0.06	10000	
As	75	103	1	He	98.910	98.910	0.66	94117	0.11	10000	
Se	78	103	1	He	94.631	94.631	0.99	9580	0.99	10000	
Sr	88	103	1	He	2747.784	2747.784	0.85	19732189	0.01	10000	
Mo	95	103	1	He	13.403	13.403	2.20	47101	0.03	2000	
Ag	107	103	1	He	10.165	10.165	1.12	123281	0.01	300	
Cd	111	103	1	He	99.892	99.892	0.89	206887	0.05	4000	
Sn	118	115	1	He	110.189	110.189	0.45	528053	0.02	2000	
Sb	123	115	1	He	11.708	11.708	2.08	51391	0.02	300	
Ba	137	115	1	He	104.553	104.553	1.05	217956	0.05	10000	
W	182	209	1	He	12.087	12.087	2.02	177977	0.01	2500	
Tl	205	209	1	He	23.856	23.856	0.86	823510	0.00	5000	
Pb	208	209	1	He	103.705	103.705	0.51	4657031	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1580664	0.29	2077022	76.10	30	120	
Sc	45	1	He	706994	3.23	817536	86.48	30	120	
Sc	45	2	NoGas	4935278	0.99	5970055	82.67	30	120	
Rh	103	1	He	2044245	1.26	2327919	87.81	30	120	
In	115	1	He	1128272	2.06	1305098	86.45	30	120	
Tb	159	1	He	3628204	2.13	3765959	96.34	30	120	
Ho	165	1	He	3693446	1.62	3748206	98.54	30	120	
Bi	209	1	He	2554496	1.65	2822318	90.51	30	120	

Sample Report

Sample Table

Sample Name	680-111548-a-2-f msd@10
Data File Name	046SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:37:32-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	94.981	94.981	2.79	444881	0.02	10000	
B	11	45	2	NoGas	18.843	18.843	4.07	76368	0.02	300	
Na	23	45	1	He	158084.645	158084.645	1.87	260767501	0.06	500000	
Mg	24	45	1	He	2819.802	2819.802	1.82	2624438	0.11	500000	
Al	27	45	1	He	975.529	975.529	0.77	482560	0.20	200000	
K	39	45	1	He	1095.797	1095.797	1.20	895950	0.12	500000	
Ca	44	45	1	He	131535.211	131535.211	0.10	5592236	2.35	500000	
Ti	47	45	1	He	10.431	10.431	8.87	2542	0.41	2500	
V	51	45	1	He	121.090	121.090	0.80	736340	0.02	10000	
Cr	52	45	1	He	100.958	100.958	0.53	752208	0.01	10000	
Mn	55	45	1	He	195.751	195.751	0.87	1118635	0.02	10000	
Fe	56	45	1	He	1020.870	1020.870	1.00	7178231	0.01	200000	
Co	59	103	1	He	90.823	90.823	1.52	1078530	0.01	10000	
Ni	60	103	1	He	90.582	90.582	1.05	266651	0.03	10000	
Cu	63	103	1	He	90.533	90.533	2.03	704855	0.01	10000	
Zn	66	103	1	He	91.061	91.061	1.50	140511	0.06	10000	
As	75	103	1	He	92.191	92.191	1.77	86697	0.11	10000	
Se	78	103	1	He	90.275	90.275	0.85	9034	1.00	10000	
Sr	88	103	1	He	2600.512	2600.512	2.34	18455144	0.01	10000	
Mo	95	103	1	He	11.129	11.129	1.05	38656	0.03	2000	
Ag	107	103	1	He	9.422	9.422	1.87	112924	0.01	300	
Cd	111	103	1	He	94.424	94.424	1.26	193319	0.05	4000	
Sn	118	115	1	He	99.914	99.914	0.77	468879	0.02	2000	
Sb	123	115	1	He	10.432	10.432	1.69	44849	0.02	300	
Ba	137	115	1	He	98.760	98.760	0.89	201599	0.05	10000	
W	182	209	1	He	10.244	10.244	2.04	148264	0.01	2500	
Tl	205	209	1	He	22.774	22.774	0.90	770094	0.00	5000	
Pb	208	209	1	He	99.395	99.395	1.24	4372066	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1576772	1.51	2077022	75.92	30	120	
Sc	45	1	He	681008	1.54	817536	83.30	30	120	
Sc	45	2	NoGas	5156589	0.47	5970055	86.37	30	120	
Rh	103	1	He	2020494	0.81	2327919	86.79	30	120	
In	115	1	He	1104905	0.58	1305098	84.66	30	120	
Tb	159	1	He	3579790	1.21	3765959	95.06	30	120	
Ho	165	1	He	3649373	0.26	3748206	97.36	30	120	
Bi	209	1	He	2502130	0.52	2822318	88.66	30	120	

Sample Report

Sample Table

Sample Name	680-111445-a-2-f@10
Data File Name	047SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:41:18-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.061	0.061	23.99	337	0.02	10000	
B	11	45	2	NoGas	30.741	30.741	1.48	126161	0.02	300	
Na	23	45	1	He	161516.159	161516.159	0.93	274823959	0.06	500000	
Mg	24	45	1	He	2002.777	2002.777	1.95	1922913	0.10	500000	
Al	27	45	1	He	-2.942	-2.942	-13.15	7263	-0.04	200000	
K	39	45	1	He	151.233	151.233	1.10	155975	0.10	500000	
Ca	44	45	1	He	132705.592	132705.592	0.36	5818741	2.28	500000	
Ti	47	45	1	He	0.584	0.584	31.00	157	0.37	2500	
V	51	45	1	He	7.170	7.170	1.75	45494	0.02	10000	
Cr	52	45	1	He	0.253	0.253	5.55	4209	0.01	10000	
Mn	55	45	1	He	517.904	517.904	1.39	3051898	0.02	10000	
Fe	56	45	1	He	1.869	1.869	7.45	25110	0.01	200000	
Co	59	103	1	He	0.430	0.430	4.39	5166	0.01	10000	
Ni	60	103	1	He	1.096	1.096	3.33	3321	0.03	10000	
Cu	63	103	1	He	0.588	0.588	5.92	7459	0.01	10000	
Zn	66	103	1	He	2.510	2.510	1.74	5694	0.04	10000	
As	75	103	1	He	0.457	0.457	4.12	514	0.09	10000	
Se	78	103	1	He	0.361	0.361	24.34	69	0.53	10000	
Sr	88	103	1	He	2934.214	2934.214	1.04	20930932	0.01	10000	
Mo	95	103	1	He	0.836	0.836	9.50	2969	0.03	2000	
Ag	107	103	1	He	0.025	0.025	1.42	314	0.01	300	
Cd	111	103	1	He	0.060	0.060	40.53	1151	0.01	4000	
Sn	118	115	1	He	1.697	1.697	3.61	8373	0.02	2000	
Sb	123	115	1	He	0.182	0.182	3.61	952	0.02	300	
Ba	137	115	1	He	1.549	1.549	5.79	3253	0.05	10000	
W	182	209	1	He	0.485	0.485	4.06	10400	0.00	2500	
Tl	205	209	1	He	0.035	0.035	20.56	1210	0.00	5000	
Pb	208	209	1	He	0.113	0.113	7.37	5562	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1649855	1.45	2077022	79.43	30	120	
Sc	45	1	He	702339	0.26	817536	85.91	30	120	
Sc	45	2	NoGas	5355261	1.56	5970055	89.70	30	120	
Rh	103	1	He	2030808	0.91	2327919	87.24	30	120	
In	115	1	He	1125418	0.59	1305098	86.23	30	120	
Tb	159	1	He	3605737	0.82	3765959	95.75	30	120	
Ho	165	1	He	3694893	0.67	3748206	98.58	30	120	
Bi	209	1	He	2539810	0.63	2822318	89.99	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	048_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:45:04-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.830	5.233	233045	1.91	50	93.7	89.5	110.5	
B	11	45	2	NoGas	50.438	1.246	200836	0.07	50	100.9	89.5	110.5	
Na	23	45	1	He	26477.611	1.149	44408030	1.28	25000	105.9	89.5	110.5	
Mg	24	45	1	He	26354.725	0.811	24928818	0.84	25000	105.4	89.5	110.5	
Al	27	45	1	He	243.869	1.043	129064	1.06	250	97.5	89.5	110.5	
K	39	45	1	He	25694.849	0.960	20623557	1.05	25000	102.8	89.5	110.5	
Ca	44	45	1	He	25301.958	0.389	1093715	0.51	25000	101.2	89.5	110.5	
Ti	47	45	1	He	53.996	3.073	13344	2.95	50	108.0	89.5	110.5	
V	51	45	1	He	52.273	0.734	323372	0.83	50	104.5	89.5	110.5	
Cr	52	45	1	He	53.023	0.354	402555	0.24	50	106.0	89.5	110.5	
Mn	55	45	1	He	272.587	2.481	1583068	2.60	250	109.0	89.5	110.5	
Fe	56	45	1	He	13397.243	1.264	95604983	1.21	12500	107.2	89.5	110.5	
Co	59	103	1	He	46.840	1.074	573630	0.62	50	93.7	89.5	110.5	
Ni	60	103	1	He	47.117	1.346	143068	0.78	50	94.2	89.5	110.5	
Cu	63	103	1	He	47.715	1.108	384502	0.43	50	95.4	89.5	110.5	
Zn	66	103	1	He	47.159	2.110	75950	0.79	50	94.3	89.5	110.5	
As	75	103	1	He	46.604	0.960	45239	0.69	50	93.2	89.5	110.5	
Se	78	103	1	He	45.832	1.855	4746	1.59	50	91.7	89.5	110.5	
Sr	88	103	1	He	46.815	1.191	342816	0.08	50	93.6	89.5	110.5	
Mo	95	103	1	He	50.840	0.833	181932	1.90	50	101.7	89.5	110.5	
Ag	107	103	1	He	50.557	1.561	624751	0.35	50	101.1	89.5	110.5	
Cd	111	103	1	He	50.441	1.464	106985	0.40	50	100.9	89.5	110.5	
Sn	118	115	1	He	51.644	1.115	246673	0.22	50	103.3	89.5	110.5	
Sb	123	115	1	He	54.084	0.662	235860	0.45	50	108.2	89.5	110.5	
Ba	137	115	1	He	51.583	1.788	107126	0.75	50	103.2	89.5	110.5	
W	182	209	1	He	48.502	0.916	729475	1.85	50	97.0	89.5	110.5	
Tl	205	209	1	He	51.181	1.158	1831479	1.43	50	102.4	89.5	110.5	
Pb	208	209	1	He	48.678	1.818	2265902	0.55	50	97.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1676624	3.43	2077022	80.72	30	120	
Sc	45	1	He	692091	0.13	817536	84.66	30	120	
Sc	45	2	NoGas	5279077	1.27	5970055	88.43	30	120	
Rh	103	1	He	2083652	1.26	2327919	89.51	30	120	
In	115	1	He	1124050	1.10	1305098	86.13	30	120	
Tb	159	1	He	3606972	0.63	3765959	95.78	30	120	
Ho	165	1	He	3642408	0.27	3748206	97.18	30	120	
Bi	209	1	He	2648036	1.69	2822318	93.82	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	049_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:48:51-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.055	26.6	319	23.7	1	
B	11	45	2	NoGas	2.722	4.0	15956	1.6	20	
Na	23	45	1	He	70.983	2.9	136585	2.2	400	
Mg	24	45	1	He	1.532	28.0	1922	21.1	1000	
Al	27	45	1	He	-1.046	-96.1	8258	6.4	50	
K	39	45	1	He	13.045	8.4	43824	1.9	1000	
Ca	44	45	1	He	7.120	22.7	931	7.5	1000	
Ti	47	45	1	He	0.430	10.2	119	9.0	20	
V	51	45	1	He	-0.034	-59.4	352	35.8	2	
Cr	52	45	1	He	-0.023	-52.6	2109	4.1	2	
Mn	55	45	1	He	0.137	20.4	1217	13.2	2	
Fe	56	45	1	He	9.444	25.0	80341	21.0	50	
Co	59	103	1	He	0.008	25.7	141	19.2	1	
Ni	60	103	1	He	0.003	167.6	100	17.6	2	
Cu	63	103	1	He	0.004	350.8	3194	3.2	2	
Zn	66	103	1	He	-0.173	-13.0	1746	1.7	20	
As	75	103	1	He	0.216	5.7	315	3.5	2	
Se	78	103	1	He	0.128	28.5	50	7.5	2	
Sr	88	103	1	He	0.079	11.3	824	9.0	10	
Mo	95	103	1	He	0.889	19.4	3462	18.7	2	
Ag	107	103	1	He	0.014	21.4	210	19.2	0.2	
Cd	111	103	1	He	-0.007	-397.0	1116	5.6	0.2	
Sn	118	115	1	He	0.784	4.0	4282	3.4	10	
Sb	123	115	1	He	0.302	9.5	1576	8.2	1	
Ba	137	115	1	He	0.016	20.4	71	10.8	5	
W	182	209	1	He	0.897	13.5	18178	9.6	10	
Tl	205	209	1	He	0.027	20.5	1063	18.9	0.5	
Pb	208	209	1	He	0.046	11.2	2856	7.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1710168	1.12	2077022	82.34	30	120	
Sc	45	1	He	706060	0.42	817536	86.36	30	120	
Sc	45	2	NoGas	5408612	1.66	5970055	90.60	30	120	
Rh	103	1	He	2232620	0.57	2327919	95.91	30	120	
In	115	1	He	1200631	0.37	1305098	92.00	30	120	
Tb	159	1	He	3702692	0.19	3765959	98.32	30	120	
Ho	165	1	He	3794848	0.89	3748206	101.24	30	120	
Bi	209	1	He	2829877	1.57	2822318	100.27	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	050CRIA.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:52:40-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	0.936	0.936	7.576	4879	8.11	1	93.6	69.5	130.5	
B	11	2	NoGas	20.452	20.452	1.161	87010	0.47	20	102.3	69.5	130.5	
Na	23	1	He	1185.908	1185.908	0.530	2112479	1.17	1000	118.6	69.5	130.5	
Mg	24	1	He	1098.539	1098.539	0.239	1096220	0.88	1000	109.9	69.5	130.5	
Al	27	1	He	38.115	38.115	2.232	28935	2.42	50	76.2	69.5	130.5	
K	39	1	He	1065.504	1065.504	0.798	934686	0.78	1000	106.6	69.5	130.5	
Ca	44	1	He	1037.378	1037.378	0.822	47901	1.40	1000	103.7	69.5	130.5	
Ti	47	1	He	10.908	10.908	3.581	2851	3.59	10	109.1	69.5	130.5	
V	51	1	He	5.428	5.428	2.553	35937	3.51	5	108.6	69.5	130.5	
Cr	52	1	He	2.159	2.159	4.033	19552	3.93	2	108.0	69.5	130.5	
Mn	55	1	He	5.436	5.436	1.015	33703	1.39	5	108.7	69.5	130.5	
Fe	56	1	He	109.780	109.780	0.750	838105	1.48	100	109.8	69.5	130.5	
Co	59	1	He	0.979	0.979	2.489	13130	1.30	1	97.9	69.5	130.5	
Ni	60	1	He	1.927	1.927	3.694	6477	2.96	2	96.4	69.5	130.5	
Cu	63	1	He	1.877	1.877	3.889	19604	2.71	2	93.8	69.5	130.5	
Zn	66	1	He	18.964	18.964	3.191	34588	1.58	20	94.8	69.5	130.5	
As	75	1	He	4.637	4.637	1.158	4998	0.32	5	92.7	69.5	130.5	
Se	78	1	He	4.537	4.537	5.348	546	5.95	5	90.7	69.5	130.5	
Sr	88	1	He	9.126	9.126	2.971	73139	2.13	10	91.3	69.5	130.5	
Mo	95	1	He	10.080	10.080	0.387	39434	1.18	10	100.8	69.5	130.5	
Ag	107	1	He	1.061	1.061	1.470	14342	0.73	1	106.1	69.5	130.5	
Cd	111	1	He	1.006	1.006	4.193	3459	1.66	1	100.6	69.5	130.5	
Sn	118	1	He	10.797	10.797	0.638	55707	1.65	10	108.0	69.5	130.5	
Sb	123	1	He	2.052	2.052	1.748	9790	0.54	2	102.6	69.5	130.5	
Ba	137	1	He	4.904	4.904	0.581	10987	1.63	5	98.1	69.5	130.5	
W	182	1	He	9.389	9.389	2.410	152823	1.58	10	93.9	69.5	130.5	
Tl	205	1	He	1.902	1.902	1.276	72196	0.59	2	95.1	69.5	130.5	
Pb	208	1	He	1.060	1.060	0.583	52907	1.26	1	106.0	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1738704	0.62	2077022	83.71	30	120	
Sc	45	1	He	729849	1.03	817536	89.27	30	120	
Sc	45	2	NoGas	5441334	1.20	5970055	91.14	30	120	
Rh	103	1	He	2275337	1.46	2327919	97.74	30	120	
In	115	1	He	1209061	1.17	1305098	92.64	30	120	
Tb	159	1	He	3689416	1.08	3765959	97.97	30	120	
Ho	165	1	He	3730948	1.08	3748206	99.54	30	120	
Bi	209	1	He	2808519	0.89	2822318	99.51	30	120	

Sample Report

Sample Table

Sample Name	HIGH STD
Data File Name	051SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:56:32-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2080.192	2080.192	2.68	9402252	0.02	10000	
B	11	45	2	NoGas	217.520	217.520	0.64	780745	0.03	300	
Na	23	45	1	He	21634.666	21634.666	2.73	35602431	0.06	500000	
Mg	24	45	1	He	21499.274	21499.274	1.87	19955558	0.11	500000	
Al	27	45	1	He	20592.467	20592.467	2.70	9988223	0.21	200000	
K	39	45	1	He	20925.707	20925.707	1.61	16488108	0.13	500000	
Ca	44	45	1	He	19521.974	19521.974	1.25	828317	2.36	500000	
Ti	47	45	1	He	207.491	207.491	3.83	50268	0.41	2500	
V	51	45	1	He	2067.156	2067.156	3.78	12522755	0.02	10000	
Cr	52	45	1	He	2123.673	2123.673	2.20	15734652	0.01	10000	
Mn	55	45	1	He	2094.702	2094.702	1.50	11935579	0.02	10000	
Fe	56	45	1	He	21700.310	21700.310	2.45	151934590	0.01	200000	
Co	59	103	1	He	1896.980	1896.980	0.19	22740633	0.01	10000	
Ni	60	103	1	He	1926.618	1926.618	1.97	5722100	0.03	10000	
Cu	63	103	1	He	1931.593	1931.593	0.63	15122485	0.01	10000	
Zn	66	103	1	He	1994.012	1994.012	1.14	3066881	0.07	10000	
As	75	103	1	He	1927.662	1927.662	0.21	1828411	0.11	10000	
Se	78	103	1	He	1784.307	1784.307	0.86	179612	0.99	10000	
Sr	88	103	1	He	1946.643	1946.643	0.61	13946357	0.01	10000	
Mo	95	103	1	He	202.629	202.629	3.71	709211	0.03	2000	
Ag	107	103	1	He	211.570	211.570	1.83	2558791	0.01	300	
Cd	111	103	1	He	2123.604	2123.604	1.17	4366226	0.05	4000	
Sn	118	115	1	He	2340.427	2340.427	1.25	10331284	0.02	2000	>LDR
Sb	123	115	1	He	229.401	229.401	0.11	924992	0.02	300	
Ba	137	115	1	He	2321.740	2321.740	0.87	4459409	0.05	10000	
W	182	209	1	He	216.155	216.155	1.35	3143395	0.01	2500	
Tl	205	209	1	He	502.939	502.939	1.16	17469459	0.00	5000	
Pb	208	209	1	He	2082.785	2082.785	0.30	94105871	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1521600	1.35	2077022	73.26	30	120	
Sc	45	1	He	679411	3.22	817536	83.10	30	120	
Sc	45	2	NoGas	4851051	1.13	5970055	81.26	30	120	
Rh	103	1	He	2039625	2.30	2327919	87.62	30	120	
In	115	1	He	1039794	0.81	1305098	79.67	30	120	
Tb	159	1	He	3493330	0.72	3765959	92.76	30	120	
Ho	165	1	He	3556576	0.67	3748206	94.89	30	120	
Bi	209	1	He	2570391	0.95	2822318	91.07	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-j@50
Data File Name	052SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T20:59:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.298	0.298	12.96	1389	0.02	10000	
B	11	45	2	NoGas	4.145	4.145	6.18	19044	0.02	300	
Na	23	45	1	He	52.065	52.065	1.69	94170	0.06	500000	
Mg	24	45	1	He	320.463	320.463	0.95	279798	0.11	500000	
Al	27	45	1	He	2130.630	2130.630	0.60	977913	0.22	200000	
K	39	45	1	He	109.671	109.671	0.88	110962	0.10	500000	
Ca	44	45	1	He	437.302	437.302	0.89	17970	2.43	500000	
Ti	47	45	1	He	14.951	14.951	3.50	3413	0.44	2500	
V	51	45	1	He	4.652	4.652	4.86	26988	0.02	10000	
Cr	52	45	1	He	3.360	3.360	2.84	25440	0.01	10000	
Mn	55	45	1	He	84.007	84.007	0.70	449906	0.02	10000	
Fe	56	45	1	He	4010.912	4010.912	0.95	26387873	0.02	200000	
Co	59	103	1	He	1.288	1.288	2.70	15592	0.01	10000	
Ni	60	103	1	He	7.631	7.631	1.61	22919	0.03	10000	
Cu	63	103	1	He	2.545	2.545	4.27	22978	0.01	10000	
Zn	66	103	1	He	10.825	10.825	2.10	18634	0.06	10000	
As	75	103	1	He	3.315	3.315	5.30	3251	0.10	10000	
Se	78	103	1	He	1.748	1.748	8.83	210	0.83	10000	
Sr	88	103	1	He	1.400	1.400	3.84	10296	0.01	10000	
Mo	95	103	1	He	3.677	3.677	18.66	13034	0.03	2000	
Ag	107	103	1	He	0.035	0.035	32.34	450	0.01	300	
Cd	111	103	1	He	0.140	0.140	30.26	1333	0.01	4000	
Sn	118	115	1	He	10.619	10.619	11.11	49459	0.02	2000	
Sb	123	115	1	He	0.468	0.468	9.88	2135	0.02	300	
Ba	137	115	1	He	10.125	10.125	0.91	20446	0.05	10000	
W	182	209	1	He	3.084	3.084	17.04	49980	0.01	2500	
Tl	205	209	1	He	0.288	0.288	31.25	10363	0.00	5000	
Pb	208	209	1	He	3.478	3.478	1.84	163230	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1529935	2.01	2077022	73.66	30	120	
Sc	45	1	He	637903	0.69	817536	78.03	30	120	
Sc	45	2	NoGas	4763050	0.96	5970055	79.78	30	120	
Rh	103	1	He	2054358	0.99	2327919	88.25	30	120	
In	115	1	He	1091498	0.31	1305098	83.63	30	120	
Tb	159	1	He	3437225	0.64	3765959	91.27	30	120	
Ho	165	1	He	3527924	0.56	3748206	94.12	30	120	
Bi	209	1	He	2660928	0.63	2822318	94.28	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49071-a-2-j@250
Data File Name	053SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:03:48-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.133	0.133	17.42	648	0.02	10000	
B	11	45	2	NoGas	2.661	2.661	1.67	14139	0.02	300	
Na	23	45	1	He	41.598	41.598	0.87	79944	0.05	500000	
Mg	24	45	1	He	61.898	61.898	1.95	55719	0.11	500000	
Al	27	45	1	He	396.654	396.654	1.03	193211	0.21	200000	
K	39	45	1	He	27.518	27.518	7.07	51537	0.05	500000	
Ca	44	45	1	He	77.914	77.914	3.50	3751	2.08	500000	
Ti	47	45	1	He	3.083	3.083	6.98	729	0.42	2500	
V	51	45	1	He	0.875	0.875	5.03	5625	0.02	10000	
Cr	52	45	1	He	0.598	0.598	2.67	6382	0.01	10000	
Mn	55	45	1	He	15.800	15.800	1.56	87031	0.02	10000	
Fe	56	45	1	He	766.176	766.176	1.42	5175257	0.01	200000	
Co	59	103	1	He	0.242	0.242	5.26	2973	0.01	10000	
Ni	60	103	1	He	1.437	1.437	5.51	4403	0.03	10000	
Cu	63	103	1	He	0.554	0.554	3.29	7309	0.01	10000	
Zn	66	103	1	He	1.429	1.429	7.93	4104	0.03	10000	
As	75	103	1	He	0.763	0.763	3.51	816	0.09	10000	
Se	78	103	1	He	0.396	0.396	18.71	73	0.54	10000	
Sr	88	103	1	He	0.284	0.284	1.30	2251	0.01	10000	
Mo	95	103	1	He	0.659	0.659	1.29	2387	0.03	2000	
Ag	107	103	1	He	0.010	0.010	17.98	143	0.01	300	
Cd	111	103	1	He	0.031	0.031	35.23	1110	0.00	4000	
Sn	118	115	1	He	2.442	2.442	3.28	11745	0.02	2000	
Sb	123	115	1	He	0.112	0.112	3.53	637	0.02	300	
Ba	137	115	1	He	1.938	1.938	3.36	3996	0.05	10000	
W	182	209	1	He	0.598	0.598	3.29	12654	0.00	2500	
Tl	205	209	1	He	0.048	0.048	9.04	1748	0.00	5000	
Pb	208	209	1	He	0.700	0.700	1.96	33419	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1548215	1.42	2077022	74.54	30	120	
Sc	45	1	He	653804	0.51	817536	79.97	30	120	
Sc	45	2	NoGas	4866192	1.98	5970055	81.51	30	120	
Rh	103	1	He	2063590	0.90	2327919	88.65	30	120	
In	115	1	He	1107607	0.24	1305098	84.87	30	120	
Tb	159	1	He	3459289	0.68	3765959	91.86	30	120	
Ho	165	1	He	3523149	1.05	3748206	94.00	30	120	
Bi	209	1	He	2670981	0.63	2822318	94.64	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49071-a-2-j@50
Data File Name	054SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:07:39-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	996.559	996.559	1.85	4676121	0.02	10000	
B	11	45	2	NoGas	110.087	110.087	1.43	413799	0.03	300	
Na	23	45	1	He	10394.441	10394.441	2.97	17663912	0.06	500000	
Mg	24	45	1	He	10628.053	10628.053	3.50	10179880	0.10	500000	
Al	27	45	1	He	11884.972	11884.972	2.29	5954528	0.20	200000	
K	39	45	1	He	10148.175	10148.175	2.44	8269349	0.12	500000	
Ca	44	45	1	He	9792.294	9792.294	1.74	429138	2.28	500000	
Ti	47	45	1	He	113.009	113.009	2.44	28274	0.40	2500	
V	51	45	1	He	1034.716	1034.716	3.24	6471357	0.02	10000	
Cr	52	45	1	He	1041.484	1041.484	3.00	7965286	0.01	10000	
Mn	55	45	1	He	1092.958	1092.958	3.38	6426204	0.02	10000	
Fe	56	45	1	He	14252.287	14252.287	2.53	103005729	0.01	200000	
Co	59	103	1	He	948.883	948.883	0.61	11508827	0.01	10000	
Ni	60	103	1	He	996.198	996.198	1.07	2994237	0.03	10000	
Cu	63	103	1	He	971.129	971.129	0.50	7694190	0.01	10000	
Zn	66	103	1	He	1036.029	1036.029	1.08	1613190	0.06	10000	
As	75	103	1	He	917.242	917.242	0.69	880272	0.10	10000	
Se	78	103	1	He	911.351	911.351	0.61	92841	0.98	10000	
Sr	88	103	1	He	974.889	974.889	1.34	7066645	0.01	10000	
Mo	95	103	1	He	100.700	100.700	2.58	356800	0.03	2000	
Ag	107	103	1	He	101.339	101.339	0.22	1240326	0.01	300	
Cd	111	103	1	He	1062.465	1062.465	0.42	2211016	0.05	4000	
Sn	118	115	1	He	1133.653	1133.653	0.73	5221650	0.02	2000	
Sb	123	115	1	He	106.841	106.841	0.25	449620	0.02	300	
Ba	137	115	1	He	1154.113	1154.113	0.50	2313189	0.05	10000	
W	182	209	1	He	94.364	94.364	2.39	1417215	0.01	2500	
Tl	205	209	1	He	246.563	246.563	1.47	8832685	0.00	5000	
Pb	208	209	1	He	1024.510	1024.510	1.46	47736824	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1579412	1.44	2077022	76.04	30	120	
Sc	45	1	He	701267	2.83	817536	85.78	30	120	
Sc	45	2	NoGas	5051479	0.80	5970055	84.61	30	120	
Rh	103	1	He	2063549	0.51	2327919	88.64	30	120	
In	115	1	He	1085018	0.57	1305098	83.14	30	120	
Tb	159	1	He	3586073	1.11	3765959	95.22	30	120	
Ho	165	1	He	3618318	0.76	3748206	96.53	30	120	
Bi	209	1	He	2651098	1.33	2822318	93.93	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-k du@50
Data File Name	055SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:11:13-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.234	0.234	10.15	1141	0.02	10000	
B	11	45	2	NoGas	3.653	3.653	3.37	18091	0.02	300	
Na	23	45	1	He	40.888	40.888	2.72	81045	0.05	500000	
Mg	24	45	1	He	308.077	308.077	1.27	283483	0.11	500000	
Al	27	45	1	He	2092.731	2092.731	0.53	1012419	0.21	200000	
K	39	45	1	He	104.040	104.040	0.99	112560	0.09	500000	
Ca	44	45	1	He	200.284	200.284	3.11	8993	2.23	500000	
Ti	47	45	1	He	15.468	15.468	2.53	3720	0.42	2500	
V	51	45	1	He	4.397	4.397	2.75	26917	0.02	10000	
Cr	52	45	1	He	3.266	3.266	0.85	26123	0.01	10000	
Mn	55	45	1	He	70.774	70.774	0.21	399535	0.02	10000	
Fe	56	45	1	He	4061.856	4061.856	0.64	28164012	0.01	200000	
Co	59	103	1	He	1.113	1.113	1.51	13772	0.01	10000	
Ni	60	103	1	He	5.554	5.554	0.61	17070	0.03	10000	
Cu	63	103	1	He	2.173	2.173	2.42	20483	0.01	10000	
Zn	66	103	1	He	10.892	10.892	0.95	19156	0.06	10000	
As	75	103	1	He	2.936	2.936	0.42	2952	0.10	10000	
Se	78	103	1	He	1.245	1.245	5.56	163	0.77	10000	
Sr	88	103	1	He	0.836	0.836	1.55	6360	0.01	10000	
Mo	95	103	1	He	2.056	2.056	16.75	7475	0.03	2000	
Ag	107	103	1	He	0.025	0.025	17.74	330	0.01	300	
Cd	111	103	1	He	0.091	0.091	23.02	1257	0.01	4000	
Sn	118	115	1	He	7.597	7.597	9.88	36637	0.02	2000	
Sb	123	115	1	He	0.952	0.952	17.68	4320	0.02	300	
Ba	137	115	1	He	9.755	9.755	1.21	20357	0.05	10000	
W	182	209	1	He	1.903	1.903	10.03	33354	0.01	2500	
Tl	205	209	1	He	0.109	0.109	12.50	4067	0.00	5000	
Pb	208	209	1	He	3.376	3.376	1.22	163876	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1589094	1.37	2077022	76.51	30	120	
Sc	45	1	He	672274	0.14	817536	82.23	30	120	
Sc	45	2	NoGas	4975317	1.42	5970055	83.34	30	120	
Rh	103	1	He	2099827	1.10	2327919	90.20	30	120	
In	115	1	He	1127949	0.41	1305098	86.43	30	120	
Tb	159	1	He	3561138	0.84	3765959	94.56	30	120	
Ho	165	1	He	3598854	0.85	3748206	96.02	30	120	
Bi	209	1	He	2751857	1.27	2822318	97.50	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-I ms@50
Data File Name	056SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:15:05-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.039	2.039	5.19	9925	0.02	10000	
B	11	45	2	NoGas	4.340	4.340	1.70	20883	0.02	300	
Na	23	45	1	He	247.866	247.866	2.01	424572	0.06	500000	
Mg	24	45	1	He	569.217	569.217	2.05	531456	0.11	500000	
Al	27	45	1	He	2690.578	2690.578	1.87	1319238	0.20	200000	
K	39	45	1	He	306.581	306.581	1.04	274396	0.11	500000	
Ca	44	45	1	He	421.857	421.857	1.29	18574	2.27	500000	
Ti	47	45	1	He	19.821	19.821	3.21	4837	0.41	2500	
V	51	45	1	He	6.988	6.988	1.12	43111	0.02	10000	
Cr	52	45	1	He	5.533	5.533	1.23	43412	0.01	10000	
Mn	55	45	1	He	90.082	90.082	0.76	516286	0.02	10000	
Fe	56	45	1	He	4565.980	4565.980	0.61	32147523	0.01	200000	
Co	59	103	1	He	3.098	3.098	1.61	39050	0.01	10000	
Ni	60	103	1	He	8.323	8.323	0.60	26061	0.03	10000	
Cu	63	103	1	He	4.084	4.084	0.49	36623	0.01	10000	
Zn	66	103	1	He	14.271	14.271	2.62	25004	0.06	10000	
As	75	103	1	He	3.858	3.858	1.20	3931	0.10	10000	
Se	78	103	1	He	2.103	2.103	11.53	257	0.82	10000	
Sr	88	103	1	He	2.716	2.716	1.36	20639	0.01	10000	
Mo	95	103	1	He	2.533	2.533	1.23	9373	0.03	2000	
Ag	107	103	1	He	1.958	1.958	1.20	24905	0.01	300	
Cd	111	103	1	He	1.971	1.971	3.80	5342	0.04	4000	
Sn	118	115	1	He	4.392	4.392	2.94	21492	0.02	2000	
Sb	123	115	1	He	0.782	0.782	4.56	3613	0.02	300	
Ba	137	115	1	He	12.768	12.768	0.40	26881	0.05	10000	
W	182	209	1	He	1.788	1.788	2.81	31179	0.01	2500	
Tl	205	209	1	He	1.801	1.801	1.52	66261	0.00	5000	
Pb	208	209	1	He	5.486	5.486	0.63	262944	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1632388	2.58	2077022	78.59	30	120	
Sc	45	1	He	682694	1.02	817536	83.51	30	120	
Sc	45	2	NoGas	5042642	0.42	5970055	84.47	30	120	
Rh	103	1	He	2142803	0.82	2327919	92.05	30	120	
In	115	1	He	1138345	0.16	1305098	87.22	30	120	
Tb	159	1	He	3569810	0.59	3765959	94.79	30	120	
Ho	165	1	He	3629957	1.33	3748206	96.85	30	120	
Bi	209	1	He	2720918	0.72	2822318	96.41	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-3-b@50
Data File Name	057SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:18:55-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.179	0.179	13.09	889	0.02	10000	
B	11	45	2	NoGas	2.378	2.378	2.11	13583	0.02	300	
Na	23	45	1	He	37.939	37.939	1.49	77176	0.05	500000	
Mg	24	45	1	He	615.497	615.497	1.64	572853	0.11	500000	
Al	27	45	1	He	1999.639	1999.639	1.42	979586	0.20	200000	
K	39	45	1	He	149.775	149.775	0.98	149974	0.10	500000	
Ca	44	45	1	He	1115.411	1115.411	1.05	47977	2.32	500000	
Ti	47	45	1	He	16.847	16.847	2.80	4101	0.41	2500	
V	51	45	1	He	3.933	3.933	5.22	24423	0.02	10000	
Cr	52	45	1	He	3.827	3.827	0.61	30613	0.01	10000	
Mn	55	45	1	He	149.291	149.291	0.29	852657	0.02	10000	
Fe	56	45	1	He	4722.609	4722.609	2.22	33143980	0.01	200000	
Co	59	103	1	He	1.661	1.661	1.03	20715	0.01	10000	
Ni	60	103	1	He	4.168	4.168	1.39	12943	0.03	10000	
Cu	63	103	1	He	2.552	2.552	0.95	23742	0.01	10000	
Zn	66	103	1	He	11.689	11.689	1.72	20592	0.06	10000	
As	75	103	1	He	2.242	2.242	4.36	2293	0.10	10000	
Se	78	103	1	He	0.330	0.330	10.39	68	0.48	10000	
Sr	88	103	1	He	2.060	2.060	3.24	15518	0.01	10000	
Mo	95	103	1	He	0.409	0.409	7.70	1539	0.03	2000	
Ag	107	103	1	He	0.014	0.014	36.78	193	0.01	300	
Cd	111	103	1	He	0.009	0.009	134.72	1094	0.00	4000	
Sn	118	115	1	He	1.859	1.859	6.07	9181	0.02	2000	
Sb	123	115	1	He	0.113	0.113	14.49	651	0.02	300	
Ba	137	115	1	He	11.433	11.433	0.77	23877	0.05	10000	
W	182	209	1	He	0.203	0.203	4.09	6772	0.00	2500	
Tl	205	209	1	He	0.043	0.043	8.35	1599	0.00	5000	
Pb	208	209	1	He	3.716	3.716	0.46	177291	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1596547	0.96	2077022	76.87	30	120	
Sc	45	1	He	680505	0.24	817536	83.24	30	120	
Sc	45	2	NoGas	5035599	1.07	5970055	84.35	30	120	
Rh	103	1	He	2117981	1.09	2327919	90.98	30	120	
In	115	1	He	1128963	0.39	1305098	86.50	30	120	
Tb	159	1	He	3545081	1.76	3765959	94.13	30	120	
Ho	165	1	He	3617859	0.80	3748206	96.52	30	120	
Bi	209	1	He	2706056	0.55	2822318	95.88	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-4-b@50
Data File Name	058SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:22:45-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.158	0.158	18.04	807	0.02	10000	
B	11	45	2	NoGas	2.144	2.144	9.30	12946	0.02	300	
Na	23	45	1	He	35.642	35.642	2.62	74071	0.05	500000	
Mg	24	45	1	He	642.716	642.716	2.20	603704	0.11	500000	
Al	27	45	1	He	2215.243	2215.243	1.53	1094387	0.20	200000	
K	39	45	1	He	178.373	178.373	2.16	174110	0.10	500000	
Ca	44	45	1	He	1479.698	1479.698	2.36	64037	2.31	500000	
Ti	47	45	1	He	16.651	16.651	2.64	4091	0.41	2500	
V	51	45	1	He	4.305	4.305	2.36	26931	0.02	10000	
Cr	52	45	1	He	4.177	4.177	1.66	33518	0.01	10000	
Mn	55	45	1	He	105.534	105.534	1.42	608466	0.02	10000	
Fe	56	45	1	He	5201.918	5201.918	2.04	36845304	0.01	200000	
Co	59	103	1	He	1.516	1.516	0.50	19300	0.01	10000	
Ni	60	103	1	He	4.214	4.214	2.58	13360	0.03	10000	
Cu	63	103	1	He	3.259	3.259	1.43	30111	0.01	10000	
Zn	66	103	1	He	12.889	12.889	0.85	22984	0.06	10000	
As	75	103	1	He	2.501	2.501	0.43	2603	0.10	10000	
Se	78	103	1	He	0.258	0.258	21.94	62	0.42	10000	
Sr	88	103	1	He	2.839	2.839	1.46	21767	0.01	10000	
Mo	95	103	1	He	0.353	0.353	1.28	1367	0.03	2000	
Ag	107	103	1	He	0.011	0.011	16.05	160	0.01	300	
Cd	111	103	1	He	0.000	0.000	24996.96	1097	0.00	4000	
Sn	118	115	1	He	1.555	1.555	2.70	7806	0.02	2000	
Sb	123	115	1	He	0.111	0.111	13.71	652	0.02	300	
Ba	137	115	1	He	12.571	12.571	1.46	26528	0.05	10000	
W	182	209	1	He	0.097	0.097	8.14	5194	0.00	2500	
Tl	205	209	1	He	0.041	0.041	4.13	1531	0.00	5000	
Pb	208	209	1	He	4.251	4.251	1.62	204372	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1633931	1.91	2077022	78.67	30	120	
Sc	45	1	He	686898	1.11	817536	84.02	30	120	
Sc	45	2	NoGas	5125005	0.34	5970055	85.85	30	120	
Rh	103	1	He	2162720	0.39	2327919	92.90	30	120	
In	115	1	He	1140969	0.49	1305098	87.42	30	120	
Tb	159	1	He	3542708	0.49	3765959	94.07	30	120	
Ho	165	1	He	3600371	0.59	3748206	96.06	30	120	
Bi	209	1	He	2727682	1.34	2822318	96.65	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-8-d@50
Data File Name	059SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:26:35-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.110	0.110	31.67	589	0.02	10000	
B	11	45	2	NoGas	2.319	2.319	7.80	13984	0.02	300	
Na	23	45	1	He	41.435	41.435	1.93	84709	0.05	500000	
Mg	24	45	1	He	844.296	844.296	0.62	802463	0.11	500000	
Al	27	45	1	He	1121.110	1121.110	1.32	564728	0.20	200000	
K	39	45	1	He	187.813	187.813	0.98	183796	0.10	500000	
Ca	44	45	1	He	975.887	975.887	1.19	42949	2.27	500000	
Ti	47	45	1	He	10.282	10.282	4.68	2560	0.40	2500	
V	51	45	1	He	2.030	2.030	4.78	13141	0.02	10000	
Cr	52	45	1	He	1.913	1.913	3.43	16747	0.01	10000	
Mn	55	45	1	He	79.062	79.062	1.54	461362	0.02	10000	
Fe	56	45	1	He	4839.491	4839.491	1.06	34689470	0.01	200000	
Co	59	103	1	He	1.464	1.464	2.14	18532	0.01	10000	
Ni	60	103	1	He	3.162	3.162	2.19	9988	0.03	10000	
Cu	63	103	1	He	3.609	3.609	1.18	32817	0.01	10000	
Zn	66	103	1	He	9.578	9.578	4.82	17481	0.05	10000	
As	75	103	1	He	4.011	4.011	2.54	4097	0.10	10000	
Se	78	103	1	He	0.200	0.200	19.17	56	0.36	10000	
Sr	88	103	1	He	1.801	1.801	2.78	13801	0.01	10000	
Mo	95	103	1	He	0.279	0.279	3.05	1086	0.03	2000	
Ag	107	103	1	He	0.006	0.006	8.03	100	0.01	300	
Cd	111	103	1	He	0.005	0.005	232.61	1102	0.00	4000	
Sn	118	115	1	He	1.337	1.337	5.89	6839	0.02	2000	
Sb	123	115	1	He	0.075	0.075	16.36	497	0.02	300	
Ba	137	115	1	He	5.546	5.546	2.37	11879	0.05	10000	
W	182	209	1	He	0.070	0.070	32.73	4860	0.00	2500	
Tl	205	209	1	He	0.027	0.027	5.23	1032	0.00	5000	
Pb	208	209	1	He	2.115	2.115	1.39	103725	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1672214	1.87	2077022	80.51	30	120	
Sc	45	1	He	695093	1.35	817536	85.02	30	120	
Sc	45	2	NoGas	5267839	0.37	5970055	88.24	30	120	
Rh	103	1	He	2149737	1.38	2327919	92.35	30	120	
In	115	1	He	1156135	0.48	1305098	88.59	30	120	
Tb	159	1	He	3597500	1.30	3765959	95.53	30	120	
Ho	165	1	He	3662097	0.35	3748206	97.70	30	120	
Bi	209	1	He	2775181	1.61	2822318	98.33	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	060_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:30:23-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	46.682	1.101	239534	1.93	50	93.4	89.5	110.5	
B	11	45	2	NoGas	49.880	2.640	204271	2.67	50	99.8	89.5	110.5	
Na	23	45	1	He	25771.721	2.877	46130311	1.61	25000	103.1	89.5	110.5	
Mg	24	45	1	He	25516.779	3.462	25754475	1.06	25000	102.1	89.5	110.5	
Al	27	45	1	He	238.007	3.343	134632	0.09	250	95.2	89.5	110.5	
K	39	45	1	He	25305.704	3.109	21675142	1.05	25000	101.2	89.5	110.5	
Ca	44	45	1	He	24674.409	2.309	1138349	0.81	25000	98.7	89.5	110.5	
Ti	47	45	1	He	52.269	5.093	13780	2.53	50	104.5	89.5	110.5	
V	51	45	1	He	51.469	2.319	339864	1.92	50	102.9	89.5	110.5	
Cr	52	45	1	He	51.750	2.015	419406	1.11	50	103.5	89.5	110.5	
Mn	55	45	1	He	250.743	2.674	1554360	2.45	250	100.3	89.5	110.5	
Fe	56	45	1	He	12962.182	2.622	98718003	0.71	12500	103.7	89.5	110.5	
Co	59	103	1	He	46.388	0.910	592103	0.52	50	92.8	89.5	110.5	
Ni	60	103	1	He	47.043	0.858	148885	0.71	50	94.1	89.5	110.5	
Cu	63	103	1	He	47.209	0.874	396537	0.58	50	94.4	89.5	110.5	
Zn	66	103	1	He	46.530	2.081	78135	1.66	50	93.1	89.5	110.5	
As	75	103	1	He	46.678	0.984	47225	0.59	50	93.4	89.5	110.5	
Se	78	103	1	He	45.421	3.035	4902	2.78	50	90.8	89.5	110.5	
Sr	88	103	1	He	46.159	0.810	352312	0.46	50	92.3	89.5	110.5	
Mo	95	103	1	He	49.811	1.124	185772	1.48	50	99.6	89.5	110.5	
Ag	107	103	1	He	49.500	0.709	637578	0.31	50	99.0	89.5	110.5	
Cd	111	103	1	He	49.683	0.927	109852	0.56	50	99.4	89.5	110.5	
Sn	118	115	1	He	51.160	0.607	251477	0.27	50	102.3	89.5	110.5	
Sb	123	115	1	He	53.651	0.631	240771	0.28	50	107.3	89.5	110.5	
Ba	137	115	1	He	51.372	0.735	109800	0.89	50	102.7	89.5	110.5	
W	182	209	1	He	49.221	1.520	734824	0.64	50	98.4	89.5	110.5	
Tl	205	209	1	He	50.332	2.459	1788067	2.18	50	100.7	89.5	110.5	
Pb	208	209	1	He	48.944	0.509	2262207	0.64	50	97.9	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1726698	1.50	2077022	83.13	30	120	
Sc	45	1	He	739005	3.15	817536	90.39	30	120	
Sc	45	2	NoGas	5427296	0.09	5970055	90.91	30	120	
Rh	103	1	He	2171592	0.40	2327919	93.28	30	120	
In	115	1	He	1156686	0.38	1305098	88.63	30	120	
Tb	159	1	He	3573640	2.41	3765959	94.89	30	120	
Ho	165	1	He	3703392	0.58	3748206	98.80	30	120	
Bi	209	1	He	2628936	1.14	2822318	93.15	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	061_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:34:09-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.063	20.9	359	17.0	1	
B	11	45	2	NoGas	2.692	4.8	15922	4.4	20	
Na	23	45	1	He	29.154	0.9	66241	0.9	400	
Mg	24	45	1	He	1.608	22.6	2034	17.4	1000	
Al	27	45	1	He	-0.803	-17.4	8532	0.8	50	
K	39	45	1	He	11.238	6.9	43123	1.0	1000	
Ca	44	45	1	He	2.722	41.1	751	6.4	1000	
Ti	47	45	1	He	0.287	31.5	84	28.0	20	
V	51	45	1	He	-0.004	-787.3	552	33.9	2	
Cr	52	45	1	He	-0.003	-340.9	2302	3.5	2	
Mn	55	45	1	He	0.053	16.9	732	7.0	2	
Fe	56	45	1	He	12.406	24.6	103796	21.6	50	
Co	59	103	1	He	0.005	70.2	107	46.0	1	
Ni	60	103	1	He	0.011	38.1	129	11.7	2	
Cu	63	103	1	He	-0.165	-11.0	1781	9.0	2	
Zn	66	103	1	He	-0.219	-30.7	1702	6.6	20	
As	75	103	1	He	0.188	14.3	291	8.9	2	
Se	78	103	1	He	0.144	88.8	52	26.6	2	
Sr	88	103	1	He	0.006	83.4	257	13.7	10	
Mo	95	103	1	He	0.878	17.9	3487	16.6	2	
Ag	107	103	1	He	0.010	21.2	150	18.2	0.2	
Cd	111	103	1	He	-0.015	-116.1	1121	2.7	0.2	
Sn	118	115	1	He	0.829	6.2	4549	5.3	10	
Sb	123	115	1	He	0.274	13.1	1458	11.5	1	
Ba	137	115	1	He	0.017	45.1	72	23.7	5	
W	182	209	1	He	0.912	16.6	18308	13.4	10	
Tl	205	209	1	He	0.034	17.9	1312	17.9	0.5	
Pb	208	209	1	He	0.042	5.8	2627	5.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1708486	1.84	2077022	82.26	30	120	
Sc	45	1	He	719004	0.47	817536	87.95	30	120	
Sc	45	2	NoGas	5435288	1.16	5970055	91.04	30	120	
Rh	103	1	He	2277229	0.94	2327919	97.82	30	120	
In	115	1	He	1210900	0.51	1305098	92.78	30	120	
Tb	159	1	He	3693373	0.45	3765959	98.07	30	120	
Ho	165	1	He	3769583	0.43	3748206	100.57	30	120	
Bi	209	1	He	2810750	0.66	2822318	99.59	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-15-f@50
Data File Name	062SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:37:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.166	0.166	14.67	859	0.02	10000	
B	11	45	2	NoGas	2.380	2.380	2.55	14380	0.02	300	
Na	23	45	1	He	40.059	40.059	2.60	86492	0.05	500000	
Mg	24	45	1	He	1262.948	1262.948	1.41	1259797	0.10	500000	
Al	27	45	1	He	1776.970	1776.970	0.88	934381	0.19	200000	
K	39	45	1	He	276.617	276.617	0.75	267996	0.10	500000	
Ca	44	45	1	He	1468.864	1468.864	1.13	67545	2.17	500000	
Ti	47	45	1	He	13.255	13.255	4.46	3460	0.38	2500	
V	51	45	1	He	2.787	2.787	2.42	18735	0.01	10000	
Cr	52	45	1	He	2.837	2.837	3.24	24934	0.01	10000	
Mn	55	45	1	He	45.968	45.968	1.23	281774	0.02	10000	
Fe	56	45	1	He	5748.130	5748.130	0.89	43251982	0.01	200000	
Co	59	103	1	He	2.030	2.030	0.74	26240	0.01	10000	
Ni	60	103	1	He	4.729	4.729	0.64	15215	0.03	10000	
Cu	63	103	1	He	4.289	4.289	2.86	39256	0.01	10000	
Zn	66	103	1	He	12.380	12.380	0.19	22498	0.06	10000	
As	75	103	1	He	2.960	2.960	1.88	3112	0.10	10000	
Se	78	103	1	He	0.232	0.232	27.43	60	0.39	10000	
Sr	88	103	1	He	3.328	3.328	2.02	25879	0.01	10000	
Mo	95	103	1	He	0.368	0.368	12.22	1445	0.03	2000	
Ag	107	103	1	He	0.008	0.008	14.50	120	0.01	300	
Cd	111	103	1	He	0.000	0.000	-4529.15	1113	0.00	4000	
Sn	118	115	1	He	1.233	1.233	7.93	6513	0.02	2000	
Sb	123	115	1	He	0.108	0.108	11.05	667	0.02	300	
Ba	137	115	1	He	6.882	6.882	2.29	15160	0.05	10000	
W	182	209	1	He	0.157	0.157	11.11	6331	0.00	2500	
Tl	205	209	1	He	0.032	0.032	5.57	1237	0.00	5000	
Pb	208	209	1	He	2.309	2.309	1.01	115190	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1663062	2.29	2077022	80.07	30	120	
Sc	45	1	He	729698	1.51	817536	89.26	30	120	
Sc	45	2	NoGas	5327615	0.67	5970055	89.24	30	120	
Rh	103	1	He	2196254	0.44	2327919	94.34	30	120	
In	115	1	He	1189924	1.03	1305098	91.18	30	120	
Tb	159	1	He	3671283	1.81	3765959	97.49	30	120	
Ho	165	1	He	3727086	1.24	3748206	99.44	30	120	
Bi	209	1	He	2824539	1.27	2822318	100.08	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-22-d@50
Data File Name	063SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:41:49-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.143	0.143	14.29	767	0.02	10000	
B	11	45	2	NoGas	2.922	2.922	3.42	16567	0.02	300	
Na	23	45	1	He	38.140	38.140	2.60	83258	0.05	500000	
Mg	24	45	1	He	1326.157	1326.157	1.64	1325421	0.10	500000	
Al	27	45	1	He	2103.587	2103.587	0.99	1106540	0.19	200000	
K	39	45	1	He	355.071	355.071	2.15	334864	0.11	500000	
Ca	44	45	1	He	1234.451	1234.451	2.62	56964	2.17	500000	
Ti	47	45	1	He	14.222	14.222	0.78	3720	0.38	2500	
V	51	45	1	He	3.230	3.230	5.43	21659	0.01	10000	
Cr	52	45	1	He	3.371	3.371	0.56	29249	0.01	10000	
Mn	55	45	1	He	75.821	75.821	0.89	465395	0.02	10000	
Fe	56	45	1	He	6597.487	6597.487	0.93	49735247	0.01	200000	
Co	59	103	1	He	2.396	2.396	2.79	31174	0.01	10000	
Ni	60	103	1	He	5.906	5.906	0.89	19111	0.03	10000	
Cu	63	103	1	He	4.019	4.019	3.44	37239	0.01	10000	
Zn	66	103	1	He	13.080	13.080	0.86	23820	0.05	10000	
As	75	103	1	He	3.467	3.467	2.42	3655	0.09	10000	
Se	78	103	1	He	0.206	0.206	26.93	58	0.36	10000	
Sr	88	103	1	He	3.495	3.495	1.89	27357	0.01	10000	
Mo	95	103	1	He	0.303	0.303	4.82	1205	0.03	2000	
Ag	107	103	1	He	0.009	0.009	11.95	132	0.01	300	
Cd	111	103	1	He	0.006	0.006	428.74	1135	0.00	4000	
Sn	118	115	1	He	1.058	1.058	0.23	5590	0.02	2000	
Sb	123	115	1	He	0.063	0.063	2.67	457	0.01	300	
Ba	137	115	1	He	8.936	8.936	2.34	19545	0.05	10000	
W	182	209	1	He	0.082	0.082	29.78	5105	0.00	2500	
Tl	205	209	1	He	0.032	0.032	4.10	1232	0.00	5000	
Pb	208	209	1	He	2.553	2.553	2.34	126551	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1713824	2.17	2077022	82.51	30	120	
Sc	45	1	He	731055	0.94	817536	89.42	30	120	
Sc	45	2	NoGas	5347900	0.44	5970055	89.58	30	120	
Rh	103	1	He	2211486	0.92	2327919	95.00	30	120	
In	115	1	He	1181949	0.47	1305098	90.56	30	120	
Tb	159	1	He	3656492	1.46	3765959	97.09	30	120	
Ho	165	1	He	3715923	0.41	3748206	99.14	30	120	
Bi	209	1	He	2807383	1.57	2822318	99.47	30	120	

Sample Report

Sample Table

Sample Name	240-49171-b-19-a@50
Data File Name	064SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:45:38-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.066	0.066	26.81	382	0.02	10000	
B	11	45	2	NoGas	1.573	1.573	5.78	11474	0.01	300	
Na	23	45	1	He	25.654	25.654	2.28	59333	0.04	500000	
Mg	24	45	1	He	40.609	40.609	2.63	39807	0.10	500000	
Al	27	45	1	He	218.977	218.977	1.08	119664	0.18	200000	
K	39	45	1	He	45.599	45.599	2.90	70756	0.06	500000	
Ca	44	45	1	He	6.251	6.251	48.89	897	0.70	500000	
Ti	47	45	1	He	3.808	3.808	4.22	974	0.39	2500	
V	51	45	1	He	0.530	0.530	20.18	3916	0.01	10000	
Cr	52	45	1	He	0.494	0.494	1.62	6114	0.01	10000	
Mn	55	45	1	He	5.744	5.744	1.53	34584	0.02	10000	
Fe	56	45	1	He	708.784	708.784	0.69	5194664	0.01	200000	
Co	59	103	1	He	0.233	0.233	5.42	3076	0.01	10000	
Ni	60	103	1	He	0.648	0.648	4.90	2185	0.03	10000	
Cu	63	103	1	He	0.178	0.178	7.42	4657	0.00	10000	
Zn	66	103	1	He	5.230	5.230	1.14	10770	0.05	10000	
As	75	103	1	He	0.876	0.876	1.09	994	0.09	10000	
Se	78	103	1	He	0.021	0.021	404.73	38	0.06	10000	
Sr	88	103	1	He	0.240	0.240	2.76	2077	0.01	10000	
Mo	95	103	1	He	0.200	0.200	6.79	818	0.02	2000	
Ag	107	103	1	He	0.004	0.004	15.39	77	0.01	300	
Cd	111	103	1	He	0.007	0.007	148.99	1140	0.00	4000	
Sn	118	115	1	He	1.040	1.040	4.55	5535	0.02	2000	
Sb	123	115	1	He	0.049	0.049	10.79	393	0.01	300	
Ba	137	115	1	He	1.173	1.173	4.76	2611	0.04	10000	
W	182	209	1	He	0.079	0.079	31.39	5064	0.00	2500	
Tl	205	209	1	He	0.010	0.010	14.71	406	0.00	5000	
Pb	208	209	1	He	0.382	0.382	1.22	19402	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1739135	0.68	2077022	83.73	30	120	
Sc	45	1	He	709295	0.88	817536	86.76	30	120	
Sc	45	2	NoGas	5447844	0.62	5970055	91.25	30	120	
Rh	103	1	He	2218867	1.06	2327919	95.32	30	120	
In	115	1	He	1189363	0.36	1305098	91.13	30	120	
Tb	159	1	He	3654596	0.16	3765959	97.04	30	120	
Ho	165	1	He	3719576	0.59	3748206	99.24	30	120	
Bi	209	1	He	2806782	1.98	2822318	99.45	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-6-h@50
Data File Name	065SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:49:27-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.188	0.188	24.94	1033	0.02	10000	
B	11	45	2	NoGas	1.384	1.384	4.72	11019	0.01	300	
Na	23	45	1	He	27.380	27.380	4.48	66163	0.04	500000	
Mg	24	45	1	He	481.388	481.388	1.69	496054	0.10	500000	
Al	27	45	1	He	2855.530	2855.530	1.55	1544518	0.18	200000	
K	39	45	1	He	164.676	164.676	1.96	179019	0.09	500000	
Ca	44	45	1	He	28.860	28.860	8.02	2015	1.43	500000	
Ti	47	45	1	He	23.297	23.297	2.54	6272	0.37	2500	
V	51	45	1	He	5.707	5.707	0.60	38964	0.01	10000	
Cr	52	45	1	He	4.486	4.486	0.51	39303	0.01	10000	
Mn	55	45	1	He	186.891	186.891	1.34	1181442	0.02	10000	
Fe	56	45	1	He	5765.842	5765.842	1.13	44791337	0.01	200000	
Co	59	103	1	He	2.447	2.447	1.00	32839	0.01	10000	
Ni	60	103	1	He	3.562	3.562	1.39	11925	0.03	10000	
Cu	63	103	1	He	2.878	2.878	0.93	28420	0.01	10000	
Zn	66	103	1	He	11.134	11.134	0.87	21220	0.05	10000	
As	75	103	1	He	2.523	2.523	1.18	2768	0.09	10000	
Se	78	103	1	He	0.176	0.176	53.42	56	0.31	10000	
Sr	88	103	1	He	0.673	0.673	3.44	5602	0.01	10000	
Mo	95	103	1	He	0.352	0.352	2.17	1436	0.02	2000	
Ag	107	103	1	He	0.008	0.008	21.54	131	0.01	300	
Cd	111	103	1	He	0.010	0.010	166.06	1178	0.00	4000	
Sn	118	115	1	He	1.028	1.028	5.48	5586	0.02	2000	
Sb	123	115	1	He	0.035	0.035	25.42	334	0.01	300	
Ba	137	115	1	He	18.177	18.177	2.02	40800	0.04	10000	
W	182	209	1	He	0.039	0.039	55.74	4449	0.00	2500	
Tl	205	209	1	He	0.036	0.036	2.06	1385	0.00	5000	
Pb	208	209	1	He	3.634	3.634	0.74	180873	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1775094	1.74	2077022	85.46	30	120	
Sc	45	1	He	753342	1.06	817536	92.15	30	120	
Sc	45	2	NoGas	5602307	1.74	5970055	93.84	30	120	
Rh	103	1	He	2280663	0.29	2327919	97.97	30	120	
In	115	1	He	1214077	0.34	1305098	93.03	30	120	
Tb	159	1	He	3705807	0.43	3765959	98.40	30	120	
Ho	165	1	He	3750418	0.62	3748206	100.06	30	120	
Bi	209	1	He	2822335	0.46	2822318	100.00	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-8-f@50
Data File Name	066SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:53:16-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.196	0.196	10.93	1074	0.02	10000	
B	11	45	2	NoGas	1.318	1.318	8.88	10807	0.01	300	
Na	23	45	1	He	25.675	25.675	1.55	63647	0.04	500000	
Mg	24	45	1	He	542.900	542.900	0.92	564666	0.10	500000	
Al	27	45	1	He	3285.394	3285.394	0.87	1792327	0.18	200000	
K	39	45	1	He	192.572	192.572	0.85	205261	0.09	500000	
Ca	44	45	1	He	55.788	55.788	3.46	3313	1.68	500000	
Ti	47	45	1	He	27.618	27.618	3.22	7504	0.37	2500	
V	51	45	1	He	6.046	6.046	4.56	41624	0.01	10000	
Cr	52	45	1	He	4.395	4.395	1.70	38914	0.01	10000	
Mn	55	45	1	He	147.792	147.792	0.73	943189	0.02	10000	
Fe	56	45	1	He	6375.958	6375.958	1.60	49995965	0.01	200000	
Co	59	103	1	He	2.311	2.311	1.25	31098	0.01	10000	
Ni	60	103	1	He	4.786	4.786	2.28	16031	0.03	10000	
Cu	63	103	1	He	3.684	3.684	2.19	35561	0.01	10000	
Zn	66	103	1	He	13.627	13.627	2.00	25575	0.05	10000	
As	75	103	1	He	2.612	2.612	2.93	2869	0.09	10000	
Se	78	103	1	He	0.412	0.412	7.29	83	0.50	10000	
Sr	88	103	1	He	1.062	1.062	6.82	8742	0.01	10000	
Mo	95	103	1	He	0.355	0.355	2.50	1453	0.02	2000	
Ag	107	103	1	He	0.007	0.007	19.01	112	0.01	300	
Cd	111	103	1	He	0.053	0.053	25.16	1281	0.00	4000	
Sn	118	115	1	He	0.891	0.891	9.87	4942	0.02	2000	
Sb	123	115	1	He	0.033	0.033	9.53	331	0.01	300	
Ba	137	115	1	He	18.996	18.996	2.52	43142	0.04	10000	
W	182	209	1	He	0.038	0.038	51.02	4438	0.00	2500	
Tl	205	209	1	He	0.042	0.042	11.55	1631	0.00	5000	
Pb	208	209	1	He	2.999	2.999	0.80	149278	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1776691	0.36	2077022	85.54	30	120	
Sc	45	1	He	760400	0.42	817536	93.01	30	120	
Sc	45	2	NoGas	5636274	1.21	5970055	94.41	30	120	
Rh	103	1	He	2286763	1.43	2327919	98.23	30	120	
In	115	1	He	1228451	0.39	1305098	94.13	30	120	
Tb	159	1	He	3724607	1.06	3765959	98.90	30	120	
Ho	165	1	He	3822025	1.57	3748206	101.97	30	120	
Bi	209	1	He	2820554	0.70	2822318	99.94	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-10-h@50
Data File Name	067SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T21:57:06-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.101	0.101	36.44	585	0.02	10000	
B	11	45	2	NoGas	0.979	0.979	1.75	9384	0.01	300	
Na	23	45	1	He	22.823	22.823	3.06	57743	0.04	500000	
Mg	24	45	1	He	259.637	259.637	1.24	267327	0.10	500000	
Al	27	45	1	He	1315.059	1315.059	0.83	715148	0.18	200000	
K	39	45	1	He	113.617	113.617	2.28	134246	0.08	500000	
Ca	44	45	1	He	17.826	17.826	10.92	1495	1.19	500000	
Ti	47	45	1	He	18.435	18.435	4.26	4956	0.37	2500	
V	51	45	1	He	3.278	3.278	8.66	22582	0.01	10000	
Cr	52	45	1	He	3.883	3.883	2.06	34286	0.01	10000	
Mn	55	45	1	He	61.983	61.983	1.13	391457	0.02	10000	
Fe	56	45	1	He	3372.428	3372.428	1.39	26158444	0.01	200000	
Co	59	103	1	He	1.235	1.235	3.27	16703	0.01	10000	
Ni	60	103	1	He	2.614	2.614	0.37	8836	0.03	10000	
Cu	63	103	1	He	0.968	0.968	4.57	11777	0.01	10000	
Zn	66	103	1	He	5.651	5.651	2.42	11875	0.05	10000	
As	75	103	1	He	2.310	2.310	0.54	2559	0.09	10000	
Se	78	103	1	He	0.142	0.142	14.95	53	0.27	10000	
Sr	88	103	1	He	0.413	0.413	9.03	3548	0.01	10000	
Mo	95	103	1	He	0.244	0.244	5.10	1021	0.02	2000	
Ag	107	103	1	He	0.005	0.005	46.53	92	0.01	300	
Cd	111	103	1	He	0.016	0.016	93.88	1201	0.00	4000	
Sn	118	115	1	He	0.800	0.800	11.41	4475	0.02	2000	
Sb	123	115	1	He	0.019	0.019	51.46	263	0.01	300	
Ba	137	115	1	He	6.853	6.853	4.04	15632	0.04	10000	
W	182	209	1	He	0.007	0.007	93.98	4038	0.00	2500	
Tl	205	209	1	He	0.017	0.017	3.15	703	0.00	5000	
Pb	208	209	1	He	1.474	1.474	1.30	75526	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1810849	1.84	2077022	87.18	30	120	
Sc	45	1	He	752080	1.32	817536	91.99	30	120	
Sc	45	2	NoGas	5623190	0.75	5970055	94.19	30	120	
Rh	103	1	He	2296138	0.54	2327919	98.63	30	120	
In	115	1	He	1232028	0.30	1305098	94.40	30	120	
Tb	159	1	He	3729613	0.77	3765959	99.03	30	120	
Ho	165	1	He	3785618	1.47	3748206	101.00	30	120	
Bi	209	1	He	2892701	0.89	2822318	102.49	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	mb 240-176562/1-a@2
Data File Name	068_Blk.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:00:58-04:00
Sample Type	Blank
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.043	6.4	270	4.7	1	
B	11	45	2	NoGas	1.428	7.4	11026	3.4	20	
Na	23	45	1	He	54.057	2.0	112686	2.0	400	
Mg	24	45	1	He	31.314	2.8	32099	3.1	1000	
Al	27	45	1	He	-11.366	-1.1	3199	1.7	50	
K	39	45	1	He	26.766	2.1	57618	0.7	1000	
Ca	44	45	1	He	87.916	0.5	4702	0.8	1000	
Ti	47	45	1	He	0.506	18.7	144	17.5	20	
V	51	45	1	He	0.107	85.9	1296	47.0	2	
Cr	52	45	1	He	0.878	4.2	9467	3.4	2	
Mn	55	45	1	He	0.397	7.8	2885	6.6	2	
Fe	56	45	1	He	19.413	10.1	160131	9.5	50	
Co	59	103	1	He	0.009	18.1	157	14.7	1	
Ni	60	103	1	He	0.198	13.5	729	12.4	2	
Cu	63	103	1	He	0.399	4.2	6536	2.8	2	
Zn	66	103	1	He	1.177	8.9	3989	4.5	20	
As	75	103	1	He	0.226	8.8	322	6.3	2	
Se	78	103	1	He	0.163	12.5	53	4.9	2	
Sr	88	103	1	He	0.225	6.0	1960	4.6	10	
Mo	95	103	1	He	0.141	7.6	592	7.6	2	
Ag	107	103	1	He	0.013	10.9	190	9.1	0.2	
Cd	111	103	1	He	0.006	340.4	1136	3.4	0.2	
Sn	118	115	1	He	18.801	0.9	94215	1.4	10	Blank Failed
Sb	123	115	1	He	0.095	23.9	600	17.8	1	
Ba	137	115	1	He	0.941	6.8	2079	6.3	5	
W	182	209	1	He	0.132	38.5	5812	13.8	10	
Tl	205	209	1	He	0.016	27.0	618	26.0	0.5	
Pb	208	209	1	He	0.218	5.3	11128	5.0	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1779160	0.67	2077022	85.66	30	120	
Sc	45	1	He	739106	0.39	817536	90.41	30	120	
Sc	45	2	NoGas	5516547	1.26	5970055	92.40	30	120	
Rh	103	1	He	2217031	0.86	2327919	95.24	30	120	
In	115	1	He	1176951	0.49	1305098	90.18	30	120	
Tb	159	1	He	3661101	0.75	3765959	97.22	30	120	
Ho	165	1	He	3734100	0.93	3748206	99.62	30	120	
Bi	209	1	He	2763202	0.89	2822318	97.91	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	lcs 240-176562/2-a@2
Data File Name	069LCSS.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:04:48-04:00
Sample Type	LCSS
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	486.896	486.896	1.325	2552781	0.17	500	97.4	78.6	110.5	
B	11	2	NoGas	55.965	55.965	2.448	228486	2.43	50	111.9	79.5	120.5	
Na	23	1	He	5239.031	5239.031	2.561	9259625	1.93	5000	104.8	79.5	120.5	
Mg	24	1	He	5172.989	5172.989	2.078	5150519	2.39	5000	103.5	79.5	120.5	
Al	27	1	He	5020.296	5020.296	0.455	2618952	1.14	5000	100.4	79.5	120.5	
K	39	1	He	5053.332	5053.332	1.640	4296214	1.43	5000	101.1	79.5	120.5	
Ca	44	1	He	4836.149	4836.149	0.637	220537	0.78	5000	96.7	79.5	120.5	
Ti	47	1	He	49.644	49.644	1.496	12914	1.67	50	99.3	79.5	120.5	
V	51	1	He	502.817	502.817	1.910	3268711	1.78	500	100.6	71.5	110.5	
Cr	52	1	He	513.084	513.084	1.571	4079086	0.33	500	102.6	69.5	110.5	
Mn	55	1	He	502.721	502.721	0.626	3072411	0.72	500	100.5	79.5	120.5	
Fe	56	1	He	5178.693	5178.693	0.890	38902518	0.58	5000	103.6	79.5	120.5	
Co	59	1	He	454.930	454.930	1.098	5839193	1.27	500	91.0	73.9	110.5	
Ni	60	1	He	476.420	476.420	1.817	1515341	0.98	500	95.3	74.9	110.5	
Cu	63	1	He	475.625	475.625	0.964	3989337	0.20	500	95.1	72.6	110.5	
Zn	66	1	He	418.710	418.710	0.445	691155	0.53	500	83.7	71.5	113.4	
As	75	1	He	402.069	402.069	0.527	408406	1.02	500	80.4	73.4	110.5	
Se	78	1	He	380.339	380.339	0.536	41025	1.05	500	76.1	64.6	110.5	
Sr	88	1	He	463.627	463.627	1.383	3557060	2.27	500	92.7	79.5	120.5	
Mo	95	1	He	51.256	51.256	0.485	192232	1.22	50	102.5	29.5	140.5	
Ag	107	1	He	49.220	49.220	0.820	637524	0.97	50	98.4	59.5	114.5	
Cd	111	1	He	456.556	456.556	0.268	1006082	0.63	500	91.3	73.5	110.5	
Sn	118	1	He	564.877	564.877	1.077	2736489	2.03	500	113.0	79.5	120.5	
Sb	123	1	He	49.531	49.531	0.645	219281	0.85	50	99.1	67.5	113.4	
Ba	137	1	He	486.649	486.649	0.831	1025713	0.66	500	97.3	69.5	110.5	
W	182	1	He	48.117	48.117	0.377	730486	1.54	50	96.2	74.6	125.4	
Tl	205	1	He	119.876	119.876	1.155	4329494	0.05	125	95.9	70.6	110.5	
Pb	208	1	He	495.601	495.601	1.060	23281882	0.12	500	99.1	74.6	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1764815	1.41	2077022	84.97	30	120	
Sc	45	1	He	728451	1.25	817536	89.10	30	120	
Sc	45	2	NoGas	5425617	0.89	5970055	90.88	30	120	
Rh	103	1	He	2183789	0.88	2327919	93.81	30	120	
In	115	1	He	1141053	1.48	1305098	87.43	30	120	
Tb	159	1	He	3653690	0.45	3765959	97.02	30	120	
Ho	165	1	He	3744601	0.78	3748206	99.90	30	120	
Bi	209	1	He	2672690	1.17	2822318	94.70	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-j@2
Data File Name	070SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:08:23-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.063	2.063	0.72	12082	0.02	10000	
B	11	45	2	NoGas	9.080	9.080	0.97	48553	0.02	300	
Na	23	45	1	He	145.984	145.984	0.78	305982	0.05	500000	
Mg	24	45	1	He	7218.496	7218.496	1.30	8047192	0.09	500000	
Al	27	45	1	He	48800.462	48800.462	1.85	28418195	0.17	200000	
K	39	45	1	He	2336.424	2336.424	3.60	2244924	0.10	500000	
Ca	44	45	1	He	10387.723	10387.723	1.68	529616	1.96	500000	
Ti	47	45	1	He	355.455	355.455	0.63	103452	0.34	2500	
V	51	45	1	He	101.491	101.491	1.97	739334	0.01	10000	
Cr	52	45	1	He	73.818	73.818	1.31	659466	0.01	10000	
Mn	55	45	1	He	1905.579	1905.579	1.61	13039892	0.01	10000	
Fe	56	45	1	He	90789.518	90789.518	1.37	763506619	0.01	200000	
Co	59	103	1	He	29.095	29.095	1.54	399118	0.01	10000	
Ni	60	103	1	He	186.857	186.857	0.94	635203	0.03	10000	
Cu	63	103	1	He	48.552	48.552	0.45	438079	0.01	10000	
Zn	66	103	1	He	262.251	262.251	0.27	463315	0.06	10000	
As	75	103	1	He	37.808	37.808	0.69	41121	0.09	10000	
Se	78	103	1	He	4.188	4.188	1.87	519	0.81	10000	
Sr	88	103	1	He	32.315	32.315	0.48	265094	0.01	10000	
Mo	95	103	1	He	7.136	7.136	1.65	28642	0.02	2000	
Ag	107	103	1	He	0.226	0.226	6.25	3150	0.01	300	
Cd	111	103	1	He	0.745	0.745	6.29	2935	0.03	4000	
Sn	118	115	1	He	19.377	19.377	1.65	102067	0.02	2000	
Sb	123	115	1	He	0.775	0.775	4.06	3892	0.02	300	
Ba	137	115	1	He	245.870	245.870	0.46	562071	0.04	10000	
W	182	209	1	He	0.903	0.903	10.66	17988	0.01	2500	
Tl	205	209	1	He	0.798	0.798	3.11	30058	0.00	5000	
Pb	208	209	1	He	83.016	83.016	0.36	4065883	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1964243	1.64	2077022	94.57	30	120	
Sc	45	1	He	815621	1.35	817536	99.77	30	120	
Sc	45	2	NoGas	6365037	1.41	5970055	106.62	30	120	
Rh	103	1	He	2333265	1.72	2327919	100.23	30	120	
In	115	1	He	1237507	1.92	1305098	94.82	30	120	
Tb	159	1	He	3897405	1.52	3765959	103.49	30	120	
Ho	165	1	He	3941268	2.60	3748206	105.15	30	120	
Bi	209	1	He	2785885	0.91	2822318	98.71	30	120	

Sample Report

Sample Table

Sample Name	SD 240-49071-a-2-j@10
Data File Name	071SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:12:08-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.468	0.468	9.80	2845	0.02	10000	
B	11	45	2	NoGas	2.289	2.289	5.28	17350	0.01	300	
Na	23	45	1	He	41.568	41.568	3.83	106606	0.04	500000	
Mg	24	45	1	He	1519.568	1519.568	2.22	1812562	0.08	500000	
Al	27	45	1	He	10081.462	10081.462	0.78	6289058	0.16	200000	
K	39	45	1	He	470.657	470.657	2.00	516465	0.09	500000	
Ca	44	45	1	He	2145.912	2145.912	1.07	117651	1.82	500000	
Ti	47	45	1	He	73.560	73.560	1.70	22915	0.32	2500	
V	51	45	1	He	20.545	20.545	1.70	160655	0.01	10000	
Cr	52	45	1	He	15.230	15.230	1.58	147787	0.01	10000	
Mn	55	45	1	He	405.735	405.735	2.01	2970236	0.01	10000	
Fe	56	45	1	He	19003.392	19003.392	1.95	170953615	0.01	200000	
Co	59	103	1	He	5.857	5.857	1.43	89787	0.01	10000	
Ni	60	103	1	He	37.892	37.892	1.52	143989	0.03	10000	
Cu	63	103	1	He	9.764	9.764	0.86	101391	0.01	10000	
Zn	66	103	1	He	56.148	56.148	1.85	112702	0.05	10000	
As	75	103	1	He	7.864	7.864	1.14	9640	0.08	10000	
Se	78	103	1	He	0.896	0.896	0.33	157	0.57	10000	
Sr	88	103	1	He	6.433	6.433	0.50	59153	0.01	10000	
Mo	95	103	1	He	1.371	1.371	3.14	6200	0.02	2000	
Ag	107	103	1	He	0.048	0.048	7.50	769	0.01	300	
Cd	111	103	1	He	0.151	0.151	19.85	1718	0.01	4000	
Sn	118	115	1	He	3.809	3.809	1.52	22434	0.02	2000	
Sb	123	115	1	He	0.165	0.165	6.07	1068	0.02	300	
Ba	137	115	1	He	49.151	49.151	1.54	124153	0.04	10000	
W	182	209	1	He	0.123	0.123	26.32	6224	0.00	2500	
Tl	205	209	1	He	0.160	0.160	5.06	6577	0.00	5000	
Pb	208	209	1	He	15.820	15.820	0.46	844678	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2009512	1.07	2077022	96.75	30	120	
Sc	45	1	He	872656	1.53	817536	106.74	30	120	
Sc	45	2	NoGas	6590032	0.45	5970055	110.38	30	120	
Rh	103	1	He	2607198	0.92	2327919	112.00	30	120	
In	115	1	He	1367067	0.55	1305098	104.75	30	120	
Tb	159	1	He	4114496	1.09	3765959	109.25	30	120	
Ho	165	1	He	4154029	0.36	3748206	110.83	30	120	
Bi	209	1	He	3035404	0.96	2822318	107.55	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	072_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:15:56-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.330	2.778	276987	2.30	50	98.7	89.5	110.5	
B	11	45	2	NoGas	49.317	3.106	226938	1.73	50	98.6	89.5	110.5	
Na	23	45	1	He	25594.325	3.217	50784267	1.14	25000	102.4	89.5	110.5	
Mg	24	45	1	He	25614.295	3.811	28658742	0.88	25000	102.5	89.5	110.5	
Al	27	45	1	He	239.746	3.009	150285	0.35	250	95.9	89.5	110.5	
K	39	45	1	He	25499.745	1.596	24220602	1.49	25000	102.0	89.5	110.5	
Ca	44	45	1	He	24628.570	2.296	1259678	0.76	25000	98.5	89.5	110.5	
Ti	47	45	1	He	51.930	2.457	15185	1.08	50	103.9	89.5	110.5	
V	51	45	1	He	51.497	2.060	376970	1.11	50	103.0	89.5	110.5	
Cr	52	45	1	He	51.952	2.623	466719	0.43	50	103.9	89.5	110.5	
Mn	55	45	1	He	261.546	3.916	1796648	1.06	250	104.6	89.5	110.5	
Fe	56	45	1	He	13109.991	2.860	110684138	0.18	12500	104.9	89.5	110.5	
Co	59	103	1	He	48.012	0.217	665615	0.35	50	96.0	89.5	110.5	
Ni	60	103	1	He	48.340	0.794	166157	0.40	50	96.7	89.5	110.5	
Cu	63	103	1	He	48.569	0.210	443000	0.60	50	97.1	89.5	110.5	
Zn	66	103	1	He	47.379	0.989	86377	1.13	50	94.8	89.5	110.5	
As	75	103	1	He	47.810	0.085	52534	0.60	50	95.6	89.5	110.5	
Se	78	103	1	He	46.652	0.695	5468	0.22	50	93.3	89.5	110.5	
Sr	88	103	1	He	46.933	0.212	389064	0.59	50	93.9	89.5	110.5	
Mo	95	103	1	He	50.185	1.942	203260	1.41	50	100.4	89.5	110.5	
Ag	107	103	1	He	49.732	0.564	695740	1.09	50	99.5	89.5	110.5	
Cd	111	103	1	He	49.179	0.265	118114	0.74	50	98.4	89.5	110.5	
Sn	118	115	1	He	51.285	1.240	274482	0.51	50	102.6	89.5	110.5	
Sb	123	115	1	He	53.472	1.010	261292	0.30	50	106.9	89.5	110.5	
Ba	137	115	1	He	51.057	0.713	118827	1.12	50	102.1	89.5	110.5	
W	182	209	1	He	48.810	1.712	772999	1.70	50	97.6	89.5	110.5	
Tl	205	209	1	He	51.266	0.251	1931900	0.47	50	102.5	89.5	110.5	
Pb	208	209	1	He	48.705	1.107	2387704	0.84	50	97.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1889745	0.93	2077022	90.98	30	120	
Sc	45	1	He	819279	3.07	817536	100.21	30	120	
Sc	45	2	NoGas	6098319	1.37	5970055	102.15	30	120	
Rh	103	1	He	2358561	0.53	2327919	101.32	30	120	
In	115	1	He	1259496	0.77	1305098	96.51	30	120	
Tb	159	1	He	3853728	1.15	3765959	102.33	30	120	
Ho	165	1	He	3943239	0.51	3748206	105.20	30	120	
Bi	209	1	He	2788407	0.55	2822318	98.80	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	073_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:19:47-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.040	79.4	281	67.1	1	
B	11	45	2	NoGas	1.968	1.7	14992	0.8	20	
Na	23	45	1	He	19.193	5.6	54890	3.6	400	
Mg	24	45	1	He	1.712	44.1	2400	35.1	1000	
Al	27	45	1	He	0.138	304.9	10123	2.9	50	
K	39	45	1	He	7.477	25.9	44908	4.4	1000	
Ca	44	45	1	He	2.954	11.8	855	2.6	1000	
Ti	47	45	1	He	0.147	19.1	54	14.1	20	
V	51	45	1	He	0.027	235.0	842	54.9	2	
Cr	52	45	1	He	0.004	168.1	2647	1.7	2	
Mn	55	45	1	He	0.076	13.2	978	7.6	2	
Fe	56	45	1	He	14.688	22.4	135627	20.6	50	
Co	59	103	1	He	0.005	42.9	113	28.1	1	
Ni	60	103	1	He	0.006	198.5	121	35.8	2	
Cu	63	103	1	He	-0.168	-6.8	1901	5.8	2	
Zn	66	103	1	He	-0.134	-29.5	2003	4.0	20	
As	75	103	1	He	0.121	27.6	238	16.0	2	
Se	78	103	1	He	0.108	96.1	53	24.0	2	
Sr	88	103	1	He	0.006	58.8	282	11.0	10	
Mo	95	103	1	He	0.834	17.8	3597	17.2	2	
Ag	107	103	1	He	0.012	17.9	190	15.8	0.2	
Cd	111	103	1	He	-0.003	-929.3	1245	5.8	0.2	
Sn	118	115	1	He	0.360	15.3	2341	12.9	10	
Sb	123	115	1	He	0.254	10.8	1490	9.3	1	
Ba	137	115	1	He	0.009	29.7	60	11.1	5	
W	182	209	1	He	0.829	20.4	17870	15.3	10	
Tl	205	209	1	He	0.036	24.9	1451	23.9	0.5	
Pb	208	209	1	He	0.051	11.5	3241	8.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1993613	1.44	2077022	95.98	30	120	
Sc	45	1	He	807297	0.69	817536	98.75	30	120	
Sc	45	2	NoGas	6255818	0.90	5970055	104.79	30	120	
Rh	103	1	He	2470015	0.35	2327919	106.10	30	120	
In	115	1	He	1326381	0.45	1305098	101.63	30	120	
Tb	159	1	He	3941613	1.44	3765959	104.66	30	120	
Ho	165	1	He	4012251	0.36	3748206	107.04	30	120	
Bi	209	1	He	2960279	0.80	2822318	104.89	30	120	

Sample Report

Sample Table

Sample Name	PDS 240-49071-a-2-j@2
Data File Name	074SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:23:36-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1138.201	1138.201	0.18	5939431	0.02	10000	
B	11	45	2	NoGas	129.331	129.331	1.70	548750	0.02	300	
Na	23	45	1	He	11223.411	11223.411	0.17	21295219	0.05	500000	
Mg	24	45	1	He	18832.796	18832.796	0.97	20142071	0.09	500000	
Al	27	45	1	He	61407.308	61407.308	0.40	34306026	0.18	200000	
K	39	45	1	He	13295.406	13295.406	0.96	12083682	0.11	500000	
Ca	44	45	1	He	21311.909	21311.909	0.64	1041790	2.05	500000	
Ti	47	45	1	He	478.320	478.320	1.30	133564	0.36	2500	
V	51	45	1	He	1220.701	1220.701	0.53	8524889	0.01	10000	
Cr	52	45	1	He	1196.188	1196.188	1.46	10213573	0.01	10000	
Mn	55	45	1	He	3086.465	3086.465	2.27	20260588	0.02	10000	
Fe	56	45	1	He	106176.915	106176.915	1.34	856628482	0.01	200000	
Co	59	103	1	He	1090.403	1090.403	1.48	14313202	0.01	10000	
Ni	60	103	1	He	1295.505	1295.505	1.76	4214515	0.03	10000	
Cu	63	103	1	He	1121.527	1121.527	2.17	9616418	0.01	10000	
Zn	66	103	1	He	1314.781	1314.781	2.10	2215074	0.06	10000	
As	75	103	1	He	991.585	991.585	1.49	1029940	0.10	10000	
Se	78	103	1	He	893.795	893.795	1.35	98549	0.91	10000	
Sr	88	103	1	He	1086.032	1086.032	1.70	8520119	0.01	10000	
Mo	95	103	1	He	127.128	127.128	2.17	487470	0.03	2000	
Ag	107	103	1	He	109.833	109.833	1.42	1454897	0.01	300	
Cd	111	103	1	He	1113.913	1113.913	1.37	2508754	0.04	4000	
Sn	118	115	1	He	1256.944	1256.944	0.94	6178075	0.02	2000	
Sb	123	115	1	He	116.859	116.859	0.56	524769	0.02	300	
Ba	137	115	1	He	1521.037	1521.037	1.67	3253118	0.05	10000	
W	182	209	1	He	121.657	121.657	1.58	1906721	0.01	2500	
Tl	205	209	1	He	264.277	264.277	0.99	9884675	0.00	5000	
Pb	208	209	1	He	1175.092	1175.092	1.61	57165644	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1756290	0.40	2077022	84.56	30	120	
Sc	45	1	He	782603	1.26	817536	95.73	30	120	
Sc	45	2	NoGas	5711608	0.34	5970055	95.67	30	120	
Rh	103	1	He	2233612	1.40	2327919	95.95	30	120	
In	115	1	He	1157840	0.42	1305098	88.72	30	120	
Tb	159	1	He	3827871	0.30	3765959	101.64	30	120	
Ho	165	1	He	3835940	1.16	3748206	102.34	30	120	
Bi	209	1	He	2767816	1.02	2822318	98.07	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-k du@2
Data File Name	075SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:27:06-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.191	2.191	5.89	12812	0.02	10000	
B	11	45	2	NoGas	10.505	10.505	6.40	55870	0.02	300	
Na	23	45	1	He	138.917	138.917	1.88	302562	0.05	500000	
Mg	24	45	1	He	7325.428	7325.428	1.34	8461143	0.09	500000	
Al	27	45	1	He	50622.839	50622.839	0.94	30542479	0.17	200000	
K	39	45	1	He	2450.050	2450.050	1.20	2437185	0.10	500000	
Ca	44	45	1	He	5013.981	5013.981	1.20	265252	1.89	500000	
Ti	47	45	1	He	375.328	375.328	1.45	113183	0.33	2500	
V	51	45	1	He	107.795	107.795	1.09	813537	0.01	10000	
Cr	52	45	1	He	79.903	79.903	0.81	739361	0.01	10000	
Mn	55	45	1	He	1739.059	1739.059	0.48	12330156	0.01	10000	
Fe	56	45	1	He	98898.193	98898.193	1.81	861691664	0.01	200000	
Co	59	103	1	He	28.494	28.494	0.60	402394	0.01	10000	
Ni	60	103	1	He	143.693	143.693	0.63	502933	0.03	10000	
Cu	63	103	1	He	50.550	50.550	0.30	469508	0.01	10000	
Zn	66	103	1	He	272.394	272.394	1.02	495416	0.05	10000	
As	75	103	1	He	41.040	41.040	0.23	45949	0.09	10000	
Se	78	103	1	He	5.043	5.043	1.99	636	0.79	10000	
Sr	88	103	1	He	20.356	20.356	1.41	172006	0.01	10000	
Mo	95	103	1	He	8.548	8.548	2.41	35317	0.02	2000	
Ag	107	103	1	He	0.248	0.248	5.51	3558	0.01	300	
Cd	111	103	1	He	0.728	0.728	8.76	2981	0.02	4000	
Sn	118	115	1	He	22.797	22.797	3.22	124408	0.02	2000	
Sb	123	115	1	He	1.068	1.068	3.97	5491	0.02	300	
Ba	137	115	1	He	242.920	242.920	0.28	575443	0.04	10000	
W	182	209	1	He	1.449	1.449	18.59	27313	0.01	2500	
Tl	205	209	1	He	0.828	0.828	4.44	32026	0.00	5000	
Pb	208	209	1	He	86.495	86.495	0.95	4351266	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1960445	1.02	2077022	94.39	30	120	
Sc	45	1	He	845132	0.72	817536	103.38	30	120	
Sc	45	2	NoGas	6441757	0.89	5970055	107.90	30	120	
Rh	103	1	He	2402441	0.58	2327919	103.20	30	120	
In	115	1	He	1282296	0.35	1305098	98.25	30	120	
Tb	159	1	He	4038599	1.70	3765959	107.24	30	120	
Ho	165	1	He	4087090	0.63	3748206	109.04	30	120	
Bi	209	1	He	2861762	1.41	2822318	101.40	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-2-I ms@2
Data File Name	076SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:30:51-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	51.286	51.286	1.84	289077	0.02	10000	
B	11	45	2	NoGas	48.950	48.950	1.50	229662	0.02	300	
Na	23	45	1	He	5053.561	5053.561	2.06	10014077	0.05	500000	
Mg	24	45	1	He	13079.797	13079.797	1.10	14599512	0.09	500000	
Al	27	45	1	He	61113.918	61113.918	1.42	35627294	0.17	200000	
K	39	45	1	He	7096.086	7096.086	2.52	6747113	0.11	500000	
Ca	44	45	1	He	10044.850	10044.850	2.35	512697	1.96	500000	
Ti	47	45	1	He	451.457	451.457	1.51	131553	0.34	2500	
V	51	45	1	He	164.542	164.542	1.00	1199724	0.01	10000	
Cr	52	45	1	He	128.337	128.337	1.83	1145872	0.01	10000	
Mn	55	45	1	He	2124.476	2124.476	2.06	14553328	0.01	10000	
Fe	56	45	1	He	105916.612	105916.612	1.35	891780853	0.01	200000	
Co	59	103	1	He	77.073	77.073	1.05	1056593	0.01	10000	
Ni	60	103	1	He	209.875	209.875	1.36	713065	0.03	10000	
Cu	63	103	1	He	98.322	98.322	1.24	883440	0.01	10000	
Zn	66	103	1	He	336.229	336.229	1.64	593177	0.06	10000	
As	75	103	1	He	82.996	82.996	1.32	90116	0.09	10000	
Se	78	103	1	He	40.459	40.459	0.16	4694	0.86	10000	
Sr	88	103	1	He	67.733	67.733	1.16	555169	0.01	10000	
Mo	95	103	1	He	56.942	56.942	1.08	228070	0.02	2000	
Ag	107	103	1	He	47.170	47.170	0.57	652569	0.01	300	
Cd	111	103	1	He	45.849	45.849	0.99	108977	0.04	4000	
Sn	118	115	1	He	55.690	55.690	1.26	293284	0.02	2000	
Sb	123	115	1	He	13.643	13.643	1.71	65738	0.02	300	
Ba	137	115	1	He	316.128	316.128	0.42	723782	0.04	10000	
W	182	209	1	He	37.005	37.005	0.41	587241	0.01	2500	
Tl	205	209	1	He	48.491	48.491	0.94	1828143	0.00	5000	
Pb	208	209	1	He	139.599	139.599	0.48	6846037	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1896986	0.83	2077022	91.33	30	120	
Sc	45	1	He	816777	2.05	817536	99.91	30	120	
Sc	45	2	NoGas	6215675	1.51	5970055	104.11	30	120	
Rh	103	1	He	2332437	0.73	2327919	100.19	30	120	
In	115	1	He	1239384	0.65	1305098	94.96	30	120	
Tb	159	1	He	3944749	0.71	3765959	104.75	30	120	
Ho	165	1	He	3984507	0.71	3748206	106.30	30	120	
Bi	209	1	He	2789776	0.86	2822318	98.85	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-3-b@2
Data File Name	077SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:34:32-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.242	3.242	2.45	15566	0.02	10000	
B	11	45	2	NoGas	19.653	19.653	2.83	82100	0.02	300	
Na	23	45	1	He	184.454	184.454	1.32	387179	0.05	500000	
Mg	24	45	1	He	14579.434	14579.434	0.55	16473390	0.09	500000	
Al	27	45	1	He	47445.737	47445.737	0.81	28003106	0.17	200000	
K	39	45	1	He	3628.686	3628.686	1.96	3512171	0.10	500000	
Ca	44	45	1	He	28029.065	28029.065	2.14	1447329	1.94	500000	
Ti	47	45	1	He	398.206	398.206	0.78	117472	0.34	2500	
V	51	45	1	He	97.688	97.688	0.16	721312	0.01	10000	
Cr	52	45	1	He	92.350	92.350	0.94	835518	0.01	10000	
Mn	55	45	1	He	3635.699	3635.699	0.22	25215736	0.01	10000	
Fe	56	45	1	He	113524.031	113524.031	1.18	967606717	0.01	200000	
Co	59	103	1	He	44.062	44.062	2.50	606459	0.01	10000	
Ni	60	103	1	He	106.134	106.134	2.21	362102	0.03	10000	
Cu	63	103	1	He	65.175	65.175	2.40	589072	0.01	10000	
Zn	66	103	1	He	285.256	285.256	2.42	505594	0.06	10000	
As	75	103	1	He	50.871	50.871	2.41	55491	0.09	10000	
Se	78	103	1	He	4.491	4.491	3.94	556	0.81	10000	
Sr	88	103	1	He	53.280	53.280	2.36	438483	0.01	10000	
Mo	95	103	1	He	7.578	7.578	2.59	30525	0.02	2000	
Ag	107	103	1	He	0.176	0.176	2.34	2467	0.01	300	
Cd	111	103	1	He	0.754	0.754	8.56	2965	0.03	4000	
Sn	118	115	1	He	16.986	16.986	1.01	89796	0.02	2000	
Sb	123	115	1	He	0.784	0.784	2.00	3945	0.02	300	
Ba	137	115	1	He	290.135	290.135	0.78	665267	0.04	10000	
W	182	209	1	He	0.754	0.754	7.77	15671	0.00	2500	
Tl	205	209	1	He	0.785	0.785	2.01	29631	0.00	5000	
Pb	208	209	1	He	97.802	97.802	0.72	4796908	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1612906	3.11	2077022	77.65	30	120	
Sc	45	1	He	826730	0.58	817536	101.12	30	120	
Sc	45	2	NoGas	5331329	1.78	5970055	89.30	30	120	
Rh	103	1	He	2342467	2.21	2327919	100.62	30	120	
In	115	1	He	1241266	0.76	1305098	95.11	30	120	
Tb	159	1	He	3913838	0.15	3765959	103.93	30	120	
Ho	165	1	He	3972388	0.22	3748206	105.98	30	120	
Bi	209	1	He	2790031	0.64	2822318	98.86	30	120	

Sample Report

Sample Table

Sample Name	240-49071-a-4-b@2
Data File Name	078SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:38:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.627	2.627	1.92	15103	0.02	10000	
B	11	45	2	NoGas	15.543	15.543	2.18	78526	0.02	300	
Na	23	45	1	He	172.539	172.539	0.73	360956	0.05	500000	
Mg	24	45	1	He	13973.670	13973.670	0.78	15685624	0.09	500000	
Al	27	45	1	He	47415.577	47415.577	0.68	27802498	0.17	200000	
K	39	45	1	He	3917.109	3917.109	0.94	3763545	0.10	500000	
Ca	44	45	1	He	33795.549	33795.549	1.73	1733254	1.95	500000	
Ti	47	45	1	He	367.867	367.867	1.44	107809	0.34	2500	
V	51	45	1	He	96.708	96.708	0.91	709418	0.01	10000	
Cr	52	45	1	He	92.995	92.995	0.83	835820	0.01	10000	
Mn	55	45	1	He	2337.481	2337.481	0.90	16105109	0.01	10000	
Fe	56	45	1	He	114480.350	114480.350	0.55	969364441	0.01	200000	
Co	59	103	1	He	36.875	36.875	1.26	508059	0.01	10000	
Ni	60	103	1	He	103.427	103.427	0.41	353225	0.03	10000	
Cu	63	103	1	He	78.260	78.260	0.81	707397	0.01	10000	
Zn	66	103	1	He	295.928	295.928	0.72	524967	0.06	10000	
As	75	103	1	He	53.563	53.563	0.95	58481	0.09	10000	
Se	78	103	1	He	4.252	4.252	6.78	529	0.80	10000	
Sr	88	103	1	He	67.825	67.825	0.32	558717	0.01	10000	
Mo	95	103	1	He	7.002	7.002	0.87	28240	0.02	2000	
Ag	107	103	1	He	0.171	0.171	6.42	2395	0.01	300	
Cd	111	103	1	He	0.810	0.810	1.75	3102	0.03	4000	
Sn	118	115	1	He	18.197	18.197	2.83	95437	0.02	2000	
Sb	123	115	1	He	0.762	0.762	2.07	3809	0.02	300	
Ba	137	115	1	He	291.373	291.373	0.34	662954	0.04	10000	
W	182	209	1	He	0.400	0.400	5.33	10044	0.00	2500	
Tl	205	209	1	He	0.786	0.786	1.88	29546	0.00	5000	
Pb	208	209	1	He	102.386	102.386	0.72	5000709	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1929300	0.86	2077022	92.89	30	120	
Sc	45	1	He	821314	0.79	817536	100.46	30	120	
Sc	45	2	NoGas	6342308	0.83	5970055	106.24	30	120	
Rh	103	1	He	2344144	0.90	2327919	100.70	30	120	
In	115	1	He	1231640	0.35	1305098	94.37	30	120	
Tb	159	1	He	3876401	0.68	3765959	102.93	30	120	
Ho	165	1	He	3935462	0.21	3748206	105.00	30	120	
Bi	209	1	He	2778354	0.72	2822318	98.44	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-8-d@2
Data File Name	079SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:41:58-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.527	1.527	6.14	8947	0.02	10000	
B	11	45	2	NoGas	15.665	15.665	1.25	80326	0.02	300	
Na	23	45	1	He	336.809	336.809	0.38	703957	0.05	500000	
Mg	24	45	1	He	18584.910	18584.910	1.47	21351093	0.09	500000	
Al	27	45	1	He	24886.939	24886.939	1.15	14940234	0.17	200000	
K	39	45	1	He	4265.770	4265.770	1.93	4191324	0.10	500000	
Ca	44	45	1	He	21866.184	21866.184	0.76	1148097	1.90	500000	
Ti	47	45	1	He	230.237	230.237	0.88	69067	0.33	2500	
V	51	45	1	He	46.237	46.237	1.83	347457	0.01	10000	
Cr	52	45	1	He	43.924	43.924	1.20	405484	0.01	10000	
Mn	55	45	1	He	1783.860	1783.860	1.60	12579362	0.01	10000	
Fe	56	45	1	He	107537.442	107537.442	1.67	931907234	0.01	200000	
Co	59	103	1	He	34.766	34.766	1.00	484473	0.01	10000	
Ni	60	103	1	He	77.537	77.537	1.56	267819	0.03	10000	
Cu	63	103	1	He	87.810	87.810	1.58	802281	0.01	10000	
Zn	66	103	1	He	222.934	222.934	2.00	400467	0.06	10000	
As	75	103	1	He	88.739	88.739	1.35	97925	0.09	10000	
Se	78	103	1	He	3.147	3.147	4.19	406	0.78	10000	
Sr	88	103	1	He	42.063	42.063	1.51	350494	0.01	10000	
Mo	95	103	1	He	5.376	5.376	3.97	21934	0.02	2000	
Ag	107	103	1	He	0.098	0.098	1.83	1396	0.01	300	
Cd	111	103	1	He	0.490	0.490	15.09	2372	0.02	4000	
Sn	118	115	1	He	16.944	16.944	1.61	90019	0.02	2000	
Sb	123	115	1	He	0.502	0.502	3.27	2602	0.02	300	
Ba	137	115	1	He	131.991	131.991	0.57	304181	0.04	10000	
W	182	209	1	He	0.228	0.228	8.99	7402	0.00	2500	
Tl	205	209	1	He	0.493	0.493	1.80	18653	0.00	5000	
Pb	208	209	1	He	50.379	50.379	0.57	2478071	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1961266	1.20	2077022	94.43	30	120	
Sc	45	1	He	840618	0.97	817536	102.82	30	120	
Sc	45	2	NoGas	6441453	1.55	5970055	107.90	30	120	
Rh	103	1	He	2370959	1.63	2327919	101.85	30	120	
In	115	1	He	1247424	0.35	1305098	95.58	30	120	
Tb	159	1	He	4015820	0.77	3765959	106.63	30	120	
Ho	165	1	He	4018874	0.87	3748206	107.22	30	120	
Bi	209	1	He	2797741	0.59	2822318	99.13	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-15-f@2
Data File Name	080SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:45:42-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.350	2.350	2.32	13465	0.02	10000	
B	11	45	2	NoGas	22.470	22.470	0.73	111301	0.02	300	
Na	23	45	1	He	361.527	361.527	1.46	749887	0.05	500000	
Mg	24	45	1	He	27397.367	27397.367	1.82	31291349	0.09	500000	
Al	27	45	1	He	39966.341	39966.341	1.60	23846640	0.17	200000	
K	39	45	1	He	6312.008	6312.008	1.96	6147011	0.10	500000	
Ca	44	45	1	He	35015.695	35015.695	3.85	1827151	1.92	500000	
Ti	47	45	1	He	307.328	307.328	0.87	91660	0.34	2500	
V	51	45	1	He	66.545	66.545	1.48	496898	0.01	10000	
Cr	52	45	1	He	66.195	66.195	1.27	606190	0.01	10000	
Mn	55	45	1	He	1056.536	1056.536	2.04	7407092	0.01	10000	
Fe	56	45	1	He	130440.163	130440.163	1.09	1123927920	0.01	200000	
Co	59	103	1	He	48.501	48.501	1.13	672547	0.01	10000	
Ni	60	103	1	He	112.545	112.545	0.33	386829	0.03	10000	
Cu	63	103	1	He	104.468	104.468	0.80	949261	0.01	10000	
Zn	66	103	1	He	275.616	275.616	0.78	492224	0.06	10000	
As	75	103	1	He	66.022	66.022	0.94	72527	0.09	10000	
Se	78	103	1	He	4.110	4.110	2.73	516	0.80	10000	
Sr	88	103	1	He	79.700	79.700	1.59	660677	0.01	10000	
Mo	95	103	1	He	5.610	5.610	1.82	22779	0.02	2000	
Ag	107	103	1	He	0.126	0.126	10.23	1780	0.01	300	
Cd	111	103	1	He	0.493	0.493	6.70	2369	0.02	4000	
Sn	118	115	1	He	17.287	17.287	1.57	90826	0.02	2000	
Sb	123	115	1	He	0.440	0.440	4.80	2278	0.02	300	
Ba	137	115	1	He	168.807	168.807	0.73	384705	0.04	10000	
W	182	209	1	He	0.155	0.155	11.95	6246	0.00	2500	
Tl	205	209	1	He	0.540	0.540	2.15	20424	0.00	5000	
Pb	208	209	1	He	55.127	55.127	0.49	2710765	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1922356	0.85	2077022	92.55	30	120	
Sc	45	1	He	835842	1.75	817536	102.24	30	120	
Sc	45	2	NoGas	6368777	1.37	5970055	106.68	30	120	
Rh	103	1	He	2359146	0.50	2327919	101.34	30	120	
In	115	1	He	1233629	0.85	1305098	94.52	30	120	
Tb	159	1	He	3974775	1.61	3765959	105.54	30	120	
Ho	165	1	He	3978803	0.80	3748206	106.15	30	120	
Bi	209	1	He	2796957	0.97	2822318	99.10	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-22-d@2
Data File Name	081SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:49:27-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.848	2.848	2.06	16816	0.02	10000	
B	11	45	2	NoGas	31.636	31.636	1.94	158171	0.02	300	
Na	23	45	1	He	359.280	359.280	0.59	760066	0.05	500000	
Mg	24	45	1	He	29359.808	29359.808	0.65	34196863	0.09	500000	
Al	27	45	1	He	47608.062	47608.062	0.55	28965964	0.16	200000	
K	39	45	1	He	8229.715	8229.715	2.00	8160151	0.10	500000	
Ca	44	45	1	He	29543.997	29543.997	0.38	1572440	1.88	500000	
Ti	47	45	1	He	329.709	329.709	2.24	100265	0.33	2500	
V	51	45	1	He	77.406	77.406	0.71	589300	0.01	10000	
Cr	52	45	1	He	77.806	77.806	0.47	726101	0.01	10000	
Mn	55	45	1	He	1742.865	1742.865	0.48	12461405	0.01	10000	
Fe	56	45	1	He	147612.788	147612.788	0.62	1296969620	0.01	200000	
Co	59	103	1	He	58.759	58.759	1.46	808915	0.01	10000	
Ni	60	103	1	He	144.560	144.560	1.23	493268	0.03	10000	
Cu	63	103	1	He	100.727	100.727	0.90	908831	0.01	10000	
Zn	66	103	1	He	304.696	304.696	1.52	540010	0.06	10000	
As	75	103	1	He	80.736	80.736	1.10	88033	0.09	10000	
Se	78	103	1	He	4.789	4.789	8.74	591	0.81	10000	
Sr	88	103	1	He	85.196	85.196	1.28	701173	0.01	10000	
Mo	95	103	1	He	5.770	5.770	1.52	23261	0.02	2000	
Ag	107	103	1	He	0.135	0.135	7.96	1898	0.01	300	
Cd	111	103	1	He	0.598	0.598	9.43	2598	0.02	4000	
Sn	118	115	1	He	17.481	17.481	0.33	93399	0.02	2000	
Sb	123	115	1	He	0.518	0.518	2.66	2697	0.02	300	
Ba	137	115	1	He	217.682	217.682	0.68	504516	0.04	10000	
W	182	209	1	He	0.178	0.178	4.73	6583	0.00	2500	
Tl	205	209	1	He	0.693	0.693	1.89	26134	0.00	5000	
Pb	208	209	1	He	65.011	65.011	1.99	3184366	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1982220	0.91	2077022	95.44	30	120	
Sc	45	1	He	852238	0.89	817536	104.24	30	120	
Sc	45	2	NoGas	6531743	0.97	5970055	109.41	30	120	
Rh	103	1	He	2342486	1.65	2327919	100.63	30	120	
In	115	1	He	1254606	0.63	1305098	96.13	30	120	
Tb	159	1	He	4008080	0.69	3765959	106.43	30	120	
Ho	165	1	He	4052307	1.20	3748206	108.11	30	120	
Bi	209	1	He	2786520	1.22	2822318	98.73	30	120	

Sample Report

Sample Table

Sample Name	240-49171-b-19-a@2
Data File Name	082SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:53:11-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.468	0.468	12.15	2580	0.02	10000	
B	11	45	2	NoGas	5.471	5.471	7.18	29862	0.02	300	
Na	23	45	1	He	81.967	81.967	1.95	175474	0.05	500000	
Mg	24	45	1	He	911.317	911.317	1.68	993555	0.09	500000	
Al	27	45	1	He	5305.196	5305.196	1.44	3029352	0.18	200000	
K	39	45	1	He	936.460	936.460	1.64	902011	0.10	500000	
Ca	44	45	1	He	349.255	349.255	5.29	18071	1.93	500000	
Ti	47	45	1	He	87.223	87.223	3.23	24820	0.35	2500	
V	51	45	1	He	14.102	14.102	2.25	100960	0.01	10000	
Cr	52	45	1	He	12.690	12.690	1.43	112967	0.01	10000	
Mn	55	45	1	He	133.281	133.281	1.34	891988	0.01	10000	
Fe	56	45	1	He	16412.875	16412.875	1.18	134940297	0.01	200000	
Co	59	103	1	He	5.595	5.595	2.26	79813	0.01	10000	
Ni	60	103	1	He	15.889	15.889	0.75	56243	0.03	10000	
Cu	63	103	1	He	7.914	7.914	2.21	77108	0.01	10000	
Zn	66	103	1	He	128.505	128.505	1.35	237182	0.05	10000	
As	75	103	1	He	18.090	18.090	1.36	20506	0.09	10000	
Se	78	103	1	He	0.716	0.716	5.99	125	0.58	10000	
Sr	88	103	1	He	5.845	5.845	2.49	50039	0.01	10000	
Mo	95	103	1	He	3.248	3.248	1.26	13595	0.02	2000	
Ag	107	103	1	He	0.019	0.019	27.05	294	0.01	300	
Cd	111	103	1	He	0.111	0.111	22.22	1500	0.01	4000	
Sn	118	115	1	He	18.039	18.039	1.14	96762	0.02	2000	
Sb	123	115	1	He	0.276	0.276	9.71	1522	0.02	300	
Ba	137	115	1	He	26.475	26.475	1.53	61642	0.04	10000	
W	182	209	1	He	0.119	0.119	14.70	5875	0.00	2500	
Tl	205	209	1	He	0.154	0.154	1.82	6042	0.00	5000	
Pb	208	209	1	He	8.773	8.773	0.70	447760	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1827648	1.60	2077022	87.99	30	120	
Sc	45	1	He	797508	2.16	817536	97.55	30	120	
Sc	45	2	NoGas	6006504	0.85	5970055	100.61	30	120	
Rh	103	1	He	2426278	1.97	2327919	104.23	30	120	
In	115	1	He	1259810	1.27	1305098	96.53	30	120	
Tb	159	1	He	3963735	0.67	3765959	105.25	30	120	
Ho	165	1	He	3970043	0.61	3748206	105.92	30	120	
Bi	209	1	He	2899876	1.10	2822318	102.75	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-6-h@2
Data File Name	083SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T22:56:59-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	4.094	4.094	2.05	23779	0.02	10000	
B	11	45	2	NoGas	9.773	9.773	2.38	53344	0.02	300	
Na	23	45	1	He	176.554	176.554	1.45	378876	0.05	500000	
Mg	24	45	1	He	11034.491	11034.491	0.54	12719450	0.09	500000	
Al	27	45	1	He	64233.933	64233.933	0.53	38672577	0.17	200000	
K	39	45	1	He	3855.659	3855.659	1.69	3805157	0.10	500000	
Ca	44	45	1	He	852.659	852.659	0.47	45627	1.87	500000	
Ti	47	45	1	He	563.616	563.616	1.02	169612	0.33	2500	
V	51	45	1	He	136.472	136.472	0.40	1027691	0.01	10000	
Cr	52	45	1	He	106.451	106.451	0.41	982134	0.01	10000	
Mn	55	45	1	He	4347.033	4347.033	1.25	30757415	0.01	10000	
Fe	56	45	1	He	133545.600	133545.600	0.65	1161227296	0.01	200000	
Co	59	103	1	He	61.389	61.389	2.44	849437	0.01	10000	
Ni	60	103	1	He	91.162	91.162	1.55	312671	0.03	10000	
Cu	63	103	1	He	76.277	76.277	1.56	692529	0.01	10000	
Zn	66	103	1	He	275.567	275.567	1.12	491102	0.06	10000	
As	75	103	1	He	58.436	58.436	1.19	64067	0.09	10000	
Se	78	103	1	He	6.039	6.039	2.81	739	0.82	10000	
Sr	88	103	1	He	16.883	16.883	0.41	139842	0.01	10000	
Mo	95	103	1	He	8.708	8.708	0.90	35253	0.02	2000	
Ag	107	103	1	He	0.184	0.184	1.82	2590	0.01	300	
Cd	111	103	1	He	0.733	0.733	5.71	2934	0.02	4000	
Sn	118	115	1	He	20.601	20.601	1.09	109517	0.02	2000	
Sb	123	115	1	He	0.618	0.618	4.33	3167	0.02	300	
Ba	137	115	1	He	455.405	455.405	0.52	1050653	0.04	10000	
W	182	209	1	He	0.375	0.375	2.19	9729	0.00	2500	
Tl	205	209	1	He	0.838	0.838	2.33	31736	0.00	5000	
Pb	208	209	1	He	94.221	94.221	0.14	4637663	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1951377	1.17	2077022	93.95	30	120	
Sc	45	1	He	843377	0.91	817536	103.16	30	120	
Sc	45	2	NoGas	6555674	0.48	5970055	109.81	30	120	
Rh	103	1	He	2354244	1.35	2327919	101.13	30	120	
In	115	1	He	1248849	0.92	1305098	95.69	30	120	
Tb	159	1	He	3965054	0.73	3765959	105.29	30	120	
Ho	165	1	He	3995003	1.98	3748206	106.58	30	120	
Bi	209	1	He	2799857	0.28	2822318	99.20	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	084_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:00:43-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.219	1.629	266404	1.50	50	98.4	89.5	110.5	
B	11	45	2	NoGas	50.303	0.741	222124	1.34	50	100.6	89.5	110.5	
Na	23	45	1	He	26159.063	2.143	50013165	1.24	25000	104.6	89.5	110.5	
Mg	24	45	1	He	26382.142	2.252	28446901	1.40	25000	105.5	89.5	110.5	
Al	27	45	1	He	246.209	1.644	148447	0.58	250	98.5	89.5	110.5	
K	39	45	1	He	25795.645	3.178	23596950	1.10	25000	103.2	89.5	110.5	
Ca	44	45	1	He	25275.956	1.472	1245556	0.89	25000	101.1	89.5	110.5	
Ti	47	45	1	He	52.538	3.649	14797	1.61	50	105.1	89.5	110.5	
V	51	45	1	He	52.896	4.000	372900	1.96	50	105.8	89.5	110.5	
Cr	52	45	1	He	53.021	1.220	458916	0.88	50	106.0	89.5	110.5	
Mn	55	45	1	He	262.986	1.105	1741185	1.00	250	105.2	89.5	110.5	
Fe	56	45	1	He	13439.964	2.208	109325407	0.13	12500	107.5	89.5	110.5	
Co	59	103	1	He	47.538	0.671	658318	0.87	50	95.1	89.5	110.5	
Ni	60	103	1	He	47.694	0.392	163760	0.46	50	95.4	89.5	110.5	
Cu	63	103	1	He	48.216	0.109	439321	0.70	50	96.4	89.5	110.5	
Zn	66	103	1	He	47.367	1.440	86256	1.06	50	94.7	89.5	110.5	
As	75	103	1	He	46.659	0.829	51215	0.73	50	93.3	89.5	110.5	
Se	78	103	1	He	44.650	1.924	5229	1.94	50	89.3	89.5	110.5	CCV Failed
Sr	88	103	1	He	46.010	0.849	380982	0.18	50	92.0	89.5	110.5	
Mo	95	103	1	He	49.859	2.097	201719	1.78	50	99.7	89.5	110.5	
Ag	107	103	1	He	49.452	0.605	691040	0.71	50	98.9	89.5	110.5	
Cd	111	103	1	He	48.894	1.781	117303	1.72	50	97.8	89.5	110.5	
Sn	118	115	1	He	50.736	1.143	266981	1.76	50	101.5	89.5	110.5	
Sb	123	115	1	He	53.453	1.454	256772	0.79	50	106.9	89.5	110.5	
Ba	137	115	1	He	51.221	0.889	117187	0.33	50	102.4	89.5	110.5	
W	182	209	1	He	48.828	1.304	770883	0.41	50	97.7	89.5	110.5	
Tl	205	209	1	He	51.115	3.676	1919873	2.66	50	102.2	89.5	110.5	
Pb	208	209	1	He	48.650	0.877	2377774	0.70	50	97.3	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1821599	1.53	2077022	87.70	30	120	
Sc	45	1	He	789138	2.10	817536	96.53	30	120	
Sc	45	2	NoGas	5853257	0.91	5970055	98.04	30	120	
Rh	103	1	He	2355969	0.78	2327919	101.20	30	120	
In	115	1	He	1238183	0.66	1305098	94.87	30	120	
Tb	159	1	He	3884019	0.50	3765959	103.13	30	120	
Ho	165	1	He	3908878	0.48	3748206	104.29	30	120	
Bi	209	1	He	2780091	1.57	2822318	98.50	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	085_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:04:31-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.030	41.1	211	32.0	1	
B	11	45	2	NoGas	1.543	8.2	12453	5.7	20	
Na	23	45	1	He	13.785	6.4	42186	3.1	400	
Mg	24	45	1	He	2.277	20.9	2874	16.8	1000	
Al	27	45	1	He	0.695	41.9	9943	1.7	50	
K	39	45	1	He	8.951	10.7	44062	1.3	1000	
Ca	44	45	1	He	2.517	84.6	793	13.5	1000	
Ti	47	45	1	He	0.201	36.6	67	30.4	20	
V	51	45	1	He	-0.040	-190.7	342	151.8	2	
Cr	52	45	1	He	-0.011	-23.5	2397	1.3	2	
Mn	55	45	1	He	0.128	21.1	1266	13.0	2	
Fe	56	45	1	He	20.094	22.6	171764	20.3	50	
Co	59	103	1	He	0.006	24.9	122	16.7	1	
Ni	60	103	1	He	0.003	205.0	110	21.9	2	
Cu	63	103	1	He	-0.150	-2.8	2057	2.7	2	
Zn	66	103	1	He	-0.148	-53.2	1966	6.5	20	
As	75	103	1	He	0.086	14.5	197	7.9	2	
Se	78	103	1	He	0.053	46.0	46	7.3	2	
Sr	88	103	1	He	0.002	48.4	242	2.9	10	
Mo	95	103	1	He	0.895	18.5	3835	18.4	2	
Ag	107	103	1	He	0.011	29.8	177	26.1	0.2	
Cd	111	103	1	He	-0.024	-20.6	1186	0.9	0.2	
Sn	118	115	1	He	0.342	12.7	2160	11.2	10	
Sb	123	115	1	He	0.223	8.0	1286	7.1	1	
Ba	137	115	1	He	0.025	31.1	96	19.2	5	
W	182	209	1	He	0.930	22.9	18827	18.3	10	
Tl	205	209	1	He	0.045	15.2	1738	15.1	0.5	
Pb	208	209	1	He	0.045	13.9	2841	10.8	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1879264	1.39	2077022	90.48	30	120	
Sc	45	1	He	768628	0.75	817536	94.02	30	120	
Sc	45	2	NoGas	5973877	1.32	5970055	100.06	30	120	
Rh	103	1	He	2454524	0.82	2327919	105.44	30	120	
In	115	1	He	1276803	0.34	1305098	97.83	30	120	
Tb	159	1	He	3868370	0.97	3765959	102.72	30	120	
Ho	165	1	He	3909615	0.69	3748206	104.31	30	120	
Bi	209	1	He	2846299	0.73	2822318	100.85	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-8-f@2
Data File Name	086SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:08:20-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.982	3.982	2.92	23200	0.02	10000	
B	11	45	2	NoGas	12.639	12.639	2.84	67334	0.02	300	
Na	23	45	1	He	151.848	151.848	1.13	342952	0.04	500000	
Mg	24	45	1	He	11230.758	11230.758	1.38	13519510	0.08	500000	
Al	27	45	1	He	65430.722	65430.722	1.42	41138305	0.16	200000	
K	39	45	1	He	4004.477	4004.477	0.60	4125423	0.10	500000	
Ca	44	45	1	He	1278.210	1278.210	0.29	71052	1.80	500000	
Ti	47	45	1	He	579.873	579.873	0.27	182262	0.32	2500	
V	51	45	1	He	128.992	128.992	0.39	1014561	0.01	10000	
Cr	52	45	1	He	91.094	91.094	0.89	878121	0.01	10000	
Mn	55	45	1	He	3085.207	3085.207	0.22	22799030	0.01	10000	
Fe	56	45	1	He	131046.253	131046.253	0.30	1190076504	0.01	200000	
Co	59	103	1	He	52.868	52.868	0.64	742108	0.01	10000	
Ni	60	103	1	He	106.136	106.136	0.23	369263	0.03	10000	
Cu	63	103	1	He	84.813	84.813	0.54	780742	0.01	10000	
Zn	66	103	1	He	281.597	281.597	0.96	509044	0.06	10000	
As	75	103	1	He	54.679	54.679	0.56	60818	0.09	10000	
Se	78	103	1	He	6.416	6.416	3.97	794	0.81	10000	
Sr	88	103	1	He	23.616	23.616	1.99	198346	0.01	10000	
Mo	95	103	1	He	8.881	8.881	0.63	36471	0.02	2000	
Ag	107	103	1	He	0.130	0.130	7.30	1861	0.01	300	
Cd	111	103	1	He	0.818	0.818	3.88	3178	0.03	4000	
Sn	118	115	1	He	16.960	16.960	2.21	91850	0.02	2000	
Sb	123	115	1	He	0.813	0.813	1.28	4185	0.02	300	
Ba	137	115	1	He	425.433	425.433	0.79	999317	0.04	10000	
W	182	209	1	He	0.605	0.605	2.68	13558	0.00	2500	
Tl	205	209	1	He	0.888	0.888	0.94	34085	0.00	5000	
Pb	208	209	1	He	69.000	69.000	1.37	3442858	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1957743	1.62	2077022	94.26	30	120	
Sc	45	1	He	880850	1.35	817536	107.74	30	120	
Sc	45	2	NoGas	6572924	0.86	5970055	110.10	30	120	
Rh	103	1	He	2388017	0.79	2327919	102.58	30	120	
In	115	1	He	1271529	0.25	1305098	97.43	30	120	
Tb	159	1	He	3994677	0.82	3765959	106.07	30	120	
Ho	165	1	He	4028452	1.17	3748206	107.48	30	120	
Bi	209	1	He	2838411	1.09	2822318	100.57	30	120	

Sample Report

Sample Table

Sample Name	240-49171-a-10-h@2
Data File Name	087SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:12:04-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.006	2.006	1.97	12112	0.02	10000	
B	11	45	2	NoGas	8.196	8.196	1.45	47584	0.02	300	
Na	23	45	1	He	114.993	114.993	1.08	264842	0.04	500000	
Mg	24	45	1	He	6183.963	6183.963	1.27	7459782	0.08	500000	
Al	27	45	1	He	31569.043	31569.043	0.89	19895426	0.16	200000	
K	39	45	1	He	2684.717	2684.717	0.59	2785025	0.10	500000	
Ca	44	45	1	He	661.162	661.162	1.91	37198	1.78	500000	
Ti	47	45	1	He	441.469	441.469	0.79	139034	0.32	2500	
V	51	45	1	He	81.136	81.136	0.41	639672	0.01	10000	
Cr	52	45	1	He	93.794	93.794	0.28	905890	0.01	10000	
Mn	55	45	1	He	1509.952	1509.952	0.74	11179976	0.01	10000	
Fe	56	45	1	He	82208.432	82208.432	1.15	748043099	0.01	200000	
Co	59	103	1	He	32.190	32.190	0.78	474217	0.01	10000	
Ni	60	103	1	He	67.945	67.945	0.55	248140	0.03	10000	
Cu	63	103	1	He	29.047	29.047	0.51	282973	0.01	10000	
Zn	66	103	1	He	154.669	154.669	0.92	294453	0.05	10000	
As	75	103	1	He	54.867	54.867	1.32	64047	0.09	10000	
Se	78	103	1	He	3.031	3.031	5.99	415	0.73	10000	
Sr	88	103	1	He	10.819	10.819	0.88	95480	0.01	10000	
Mo	95	103	1	He	5.807	5.807	0.38	25050	0.02	2000	
Ag	107	103	1	He	0.100	0.100	4.97	1507	0.01	300	
Cd	111	103	1	He	0.356	0.356	12.96	2170	0.02	4000	
Sn	118	115	1	He	17.374	17.374	0.61	97548	0.02	2000	
Sb	123	115	1	He	0.437	0.437	5.83	2419	0.02	300	
Ba	137	115	1	He	178.682	178.682	0.62	435197	0.04	10000	
W	182	209	1	He	0.372	0.372	16.65	9967	0.00	2500	
Tl	205	209	1	He	0.432	0.432	0.46	16846	0.00	5000	
Pb	208	209	1	He	38.446	38.446	0.81	1948166	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	2023422	1.80	2077022	97.42	30	120	
Sc	45	1	He	882569	0.19	817536	107.95	30	120	
Sc	45	2	NoGas	6819764	0.72	5970055	114.23	30	120	
Rh	103	1	He	2506366	1.06	2327919	107.67	30	120	
In	115	1	He	1318399	0.98	1305098	101.02	30	120	
Tb	159	1	He	4093629	0.87	3765959	108.70	30	120	
Ho	165	1	He	4110336	0.52	3748206	109.66	30	120	
Bi	209	1	He	2881919	0.03	2822318	102.11	30	120	

Sample Report

Sample Table

Sample Name	240-49085-f-34-d@2
Data File Name	088SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:15:50-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	2.188	2.188	1.47	11986	0.02	10000	
B	11	45	2	NoGas	21.719	21.719	0.63	101575	0.02	300	
Na	23	45	1	He	296.898	296.898	0.65	575713	0.05	500000	
Mg	24	45	1	He	27093.367	27093.367	0.82	28779991	0.09	500000	
Al	27	45	1	He	39557.194	39557.194	1.12	21951125	0.18	200000	
K	39	45	1	He	5993.131	5993.131	1.47	5430015	0.11	500000	
Ca	44	45	1	He	49114.045	49114.045	0.97	2383535	2.06	500000	
Ti	47	45	1	He	340.197	340.197	1.57	94357	0.36	2500	
V	51	45	1	He	64.864	64.864	0.69	450465	0.01	10000	
Cr	52	45	1	He	65.025	65.025	1.14	553809	0.01	10000	
Mn	55	45	1	He	1580.592	1580.592	1.28	10305892	0.02	10000	
Fe	56	45	1	He	126491.767	126491.767	0.76	1013563586	0.01	200000	
Co	59	103	1	He	46.990	46.990	0.44	614075	0.01	10000	
Ni	60	103	1	He	112.335	112.335	0.80	363853	0.03	10000	
Cu	63	103	1	He	86.458	86.458	0.70	740875	0.01	10000	
Zn	66	103	1	He	256.140	256.140	0.78	431222	0.06	10000	
As	75	103	1	He	66.851	66.851	1.18	69200	0.10	10000	
Se	78	103	1	He	3.976	3.976	2.91	472	0.84	10000	
Sr	88	103	1	He	80.632	80.632	1.39	629864	0.01	10000	
Mo	95	103	1	He	4.496	4.496	1.74	17215	0.03	2000	
Ag	107	103	1	He	0.092	0.092	8.01	1230	0.01	300	
Cd	111	103	1	He	0.474	0.474	4.44	2190	0.02	4000	
Sn	118	115	1	He	17.212	17.212	1.26	86091	0.02	2000	
Sb	123	115	1	He	0.435	0.435	6.18	2146	0.02	300	
Ba	137	115	1	He	190.899	190.899	1.34	414187	0.05	10000	
W	182	209	1	He	0.196	0.196	5.93	6646	0.00	2500	
Tl	205	209	1	He	0.648	0.648	0.68	23664	0.00	5000	
Pb	208	209	1	He	46.355	46.355	0.65	2199627	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1836814	0.50	2077022	88.43	30	120	
Sc	45	1	He	777206	0.56	817536	95.07	30	120	
Sc	45	2	NoGas	6001965	0.13	5970055	100.53	30	120	
Rh	103	1	He	2223319	1.55	2327919	95.51	30	120	
In	115	1	He	1174461	0.42	1305098	89.99	30	120	
Tb	159	1	He	3902528	0.94	3765959	103.63	30	120	
Ho	165	1	He	3901095	1.59	3748206	104.08	30	120	
Bi	209	1	He	2698942	0.79	2822318	95.63	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	089_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:19:36-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.522	1.172	266847	1.27	50	99.0	89.5	110.5	
B	11	45	2	NoGas	49.622	0.186	222111	0.84	50	99.2	89.5	110.5	
Na	23	45	1	He	26610.778	1.806	50242618	2.36	25000	106.4	89.5	110.5	
Mg	24	45	1	He	26376.938	1.759	28083406	1.30	25000	105.5	89.5	110.5	
Al	27	45	1	He	246.786	2.278	146882	0.77	250	98.7	89.5	110.5	
K	39	45	1	He	26194.337	2.177	23662823	1.25	25000	104.8	89.5	110.5	
Ca	44	45	1	He	25682.638	0.111	1249920	2.56	25000	102.7	89.5	110.5	
Ti	47	45	1	He	53.971	1.771	15015	2.45	50	107.9	89.5	110.5	
V	51	45	1	He	53.556	3.504	372779	0.98	50	107.1	89.5	110.5	
Cr	52	45	1	He	53.606	1.886	458062	1.24	50	107.2	89.5	110.5	
Mn	55	45	1	He	266.451	0.825	1742065	2.13	250	106.6	89.5	110.5	
Fe	56	45	1	He	13566.730	1.568	108974949	1.10	12500	108.5	89.5	110.5	
Co	59	103	1	He	47.433	0.806	654963	1.37	50	94.9	89.5	110.5	
Ni	60	103	1	He	48.189	1.013	164981	1.36	50	96.4	89.5	110.5	
Cu	63	103	1	He	48.312	0.194	438908	0.78	50	96.6	89.5	110.5	
Zn	66	103	1	He	47.251	0.525	85806	1.03	50	94.5	89.5	110.5	
As	75	103	1	He	47.385	0.833	51861	1.32	50	94.8	89.5	110.5	
Se	78	103	1	He	45.606	1.119	5324	0.52	50	91.2	89.5	110.5	
Sr	88	103	1	He	46.589	0.442	384658	0.32	50	93.2	89.5	110.5	
Mo	95	103	1	He	50.117	1.934	202174	1.52	50	100.2	89.5	110.5	
Ag	107	103	1	He	49.742	0.537	693061	0.32	50	99.5	89.5	110.5	
Cd	111	103	1	He	49.435	0.684	118246	0.76	50	98.9	89.5	110.5	
Sn	118	115	1	He	50.876	0.998	268116	1.11	50	101.8	89.5	110.5	
Sb	123	115	1	He	53.412	0.341	256985	0.32	50	106.8	89.5	110.5	
Ba	137	115	1	He	51.051	0.083	116982	0.53	50	102.1	89.5	110.5	
W	182	209	1	He	48.841	1.863	771495	1.16	50	97.7	89.5	110.5	
Tl	205	209	1	He	51.936	3.168	1951834	2.07	50	103.9	89.5	110.5	
Pb	208	209	1	He	48.611	0.854	2377182	0.93	50	97.2	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1813329	0.92	2077022	87.30	30	120	
Sc	45	1	He	779235	2.67	817536	95.32	30	120	
Sc	45	2	NoGas	5931343	0.91	5970055	99.35	30	120	
Rh	103	1	He	2349102	0.59	2327919	100.91	30	120	
In	115	1	He	1240090	0.60	1305098	95.02	30	120	
Tb	159	1	He	3893936	1.91	3765959	103.40	30	120	
Ho	165	1	He	3991270	1.58	3748206	106.48	30	120	
Bi	209	1	He	2781543	1.39	2822318	98.56	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	090_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:23:22-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.031	27.5	207	22.3	1	
B	11	45	2	NoGas	1.784	3.8	13398	2.6	20	
Na	23	45	1	He	12.038	12.6	38389	6.6	400	
Mg	24	45	1	He	2.591	24.7	3160	20.4	1000	
Al	27	45	1	He	1.206	14.2	10081	0.4	50	
K	39	45	1	He	9.105	21.2	43579	3.1	1000	
Ca	44	45	1	He	1.919	61.3	753	6.7	1000	
Ti	47	45	1	He	0.093	64.8	37	45.5	20	
V	51	45	1	He	-0.014	-332.5	514	60.4	2	
Cr	52	45	1	He	-0.005	-551.2	2411	9.9	2	
Mn	55	45	1	He	0.095	4.7	1038	1.9	2	
Fe	56	45	1	He	19.560	22.1	165195	19.8	50	
Co	59	103	1	He	0.005	74.1	107	46.9	1	
Ni	60	103	1	He	-0.002	-162.1	89	15.6	2	
Cu	63	103	1	He	-0.166	-8.3	1887	6.8	2	
Zn	66	103	1	He	-0.115	-26.8	2006	2.6	20	
As	75	103	1	He	0.096	9.5	207	5.1	2	
Se	78	103	1	He	0.049	106.3	45	14.1	2	
Sr	88	103	1	He	0.001	161.9	238	7.7	10	
Mo	95	103	1	He	0.936	19.1	3965	18.9	2	
Ag	107	103	1	He	0.010	34.8	169	30.8	0.2	
Cd	111	103	1	He	-0.011	-162.5	1205	3.8	0.2	
Sn	118	115	1	He	0.342	4.4	2145	3.4	10	
Sb	123	115	1	He	0.259	19.8	1451	16.7	1	
Ba	137	115	1	He	0.013	27.6	68	12.4	5	
W	182	209	1	He	0.908	20.3	18601	16.3	10	
Tl	205	209	1	He	0.036	16.7	1419	16.7	0.5	
Pb	208	209	1	He	0.038	11.6	2510	9.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1818331	1.18	2077022	87.55	30	120	
Sc	45	1	He	757941	0.82	817536	92.71	30	120	
Sc	45	2	NoGas	5924622	1.16	5970055	99.24	30	120	
Rh	103	1	He	2429367	0.23	2327919	104.36	30	120	
In	115	1	He	1270181	0.70	1305098	97.32	30	120	
Tb	159	1	He	3845988	1.37	3765959	102.13	30	120	
Ho	165	1	He	3866098	1.03	3748206	103.15	30	120	
Bi	209	1	He	2864707	0.27	2822318	101.50	30	120	

Quality Control Sample (QCS) Report

Sample Table

Sample Name	CRI-1959555
Data File Name	091CRIA.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:27:11-04:00
Sample Type	CRI6020A
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	2	NoGas	1.018	1.018	3.720	5697	2.88	1	101.8	69.5	130.5	
B	11	2	NoGas	20.397	20.397	1.871	94889	1.89	20	102.0	69.5	130.5	
Na	23	1	He	1106.358	1106.358	1.049	2132568	0.43	1000	110.6	69.5	130.5	
Mg	24	1	He	1092.745	1092.745	1.608	1179382	1.61	1000	109.3	69.5	130.5	
Al	27	1	He	38.555	38.555	3.049	31537	1.25	50	77.1	69.5	130.5	
K	39	1	He	1050.724	1050.724	1.012	997430	0.84	1000	105.1	69.5	130.5	
Ca	44	1	He	1031.297	1031.297	0.865	51506	0.42	1000	103.1	69.5	130.5	
Ti	47	1	He	10.685	10.685	5.400	3020	4.47	10	106.8	69.5	130.5	
V	51	1	He	5.238	5.238	1.202	37530	2.04	5	104.8	69.5	130.5	
Cr	52	1	He	2.199	2.199	3.057	21485	1.84	2	109.9	69.5	130.5	
Mn	55	1	He	5.246	5.246	1.410	35192	0.68	5	104.9	69.5	130.5	
Fe	56	1	He	112.366	112.366	0.830	927467	0.34	100	112.4	69.5	130.5	
Co	59	1	He	0.987	0.987	2.005	13853	1.46	1	98.7	69.5	130.5	
Ni	60	1	He	2.061	2.061	1.395	7242	1.02	2	103.0	69.5	130.5	
Cu	63	1	He	1.844	1.844	1.231	20218	0.45	2	92.2	69.5	130.5	
Zn	66	1	He	19.731	19.731	1.151	37579	0.59	20	98.7	69.5	130.5	
As	75	1	He	4.845	4.845	1.351	5461	1.07	5	96.9	69.5	130.5	
Se	78	1	He	4.834	4.834	4.692	606	4.36	5	96.7	69.5	130.5	
Sr	88	1	He	9.331	9.331	1.279	78261	0.69	10	93.3	69.5	130.5	
Mo	95	1	He	10.313	10.313	1.962	42216	1.53	10	103.1	69.5	130.5	
Ag	107	1	He	1.057	1.057	2.769	14941	2.89	1	105.7	69.5	130.5	
Cd	111	1	He	1.021	1.021	1.962	3657	1.07	1	102.1	69.5	130.5	
Sn	118	1	He	10.614	10.614	0.418	57706	0.78	10	106.1	69.5	130.5	
Sb	123	1	He	2.009	2.009	2.637	10100	2.37	2	100.4	69.5	130.5	
Ba	137	1	He	5.114	5.114	0.365	12072	0.71	5	102.3	69.5	130.5	
W	182	1	He	9.366	9.366	2.671	157272	1.76	10	93.7	69.5	130.5	
Tl	205	1	He	1.884	1.884	0.982	73792	0.96	2	94.2	69.5	130.5	
Pb	208	1	He	1.043	1.043	2.529	53698	1.01	1	104.3	69.5	130.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1870559	0.87	2077022	90.06	30	120	
Sc	45	1	He	789391	0.91	817536	96.56	30	120	
Sc	45	2	NoGas	5948472	0.32	5970055	99.64	30	120	
Rh	103	1	He	2380977	0.61	2327919	102.28	30	120	
In	115	1	He	1273966	0.39	1305098	97.61	30	120	
Tb	159	1	He	3822059	1.22	3765959	101.49	30	120	
Ho	165	1	He	3914230	1.15	3748206	104.43	30	120	
Bi	209	1	He	2897460	1.52	2822318	102.66	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-1-a@2
Data File Name	092SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:31:02-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.462	1.462	6.21	8387	0.02	10000	
B	11	45	2	NoGas	2.703	2.703	5.61	19073	0.01	300	
Na	23	45	1	He	288.008	288.008	2.20	604833	0.05	500000	
Mg	24	45	1	He	267.803	267.803	2.33	308323	0.09	500000	
Al	27	45	1	He	9259.482	9259.482	3.16	5567048	0.17	200000	
K	39	45	1	He	735.009	735.009	2.48	755179	0.10	500000	
Ca	44	45	1	He	326.994	326.994	3.23	17901	1.83	500000	
Ti	47	45	1	He	135.517	135.517	3.20	40668	0.33	2500	
V	51	45	1	He	47.102	47.102	3.89	354010	0.01	10000	
Cr	52	45	1	He	36.648	36.648	3.26	338862	0.01	10000	
Mn	55	45	1	He	82.437	82.437	2.64	582016	0.01	10000	
Fe	56	45	1	He	91700.463	91700.463	2.49	795031488	0.01	200000	
Co	59	103	1	He	7.332	7.332	1.72	102178	0.01	10000	
Ni	60	103	1	He	3.582	3.582	3.05	12461	0.03	10000	
Cu	63	103	1	He	108.700	108.700	1.08	992188	0.01	10000	
Zn	66	103	1	He	66.599	66.599	1.52	121134	0.05	10000	
As	75	103	1	He	8.401	8.401	1.61	9356	0.09	10000	
Se	78	103	1	He	2.335	2.335	9.32	311	0.75	10000	
Sr	88	103	1	He	5.900	5.900	2.17	49338	0.01	10000	
Mo	95	103	1	He	3.308	3.308	1.69	13521	0.02	2000	
Ag	107	103	1	He	0.039	0.039	14.84	563	0.01	300	
Cd	111	103	1	He	0.161	0.161	21.71	1586	0.01	4000	
Sn	118	115	1	He	15.977	15.977	0.63	85477	0.02	2000	
Sb	123	115	1	He	0.265	0.265	8.21	1468	0.02	300	
Ba	137	115	1	He	41.848	41.848	0.91	97118	0.04	10000	
W	182	209	1	He	0.427	0.427	18.35	10645	0.00	2500	
Tl	205	209	1	He	0.283	0.283	2.48	10837	0.00	5000	
Pb	208	209	1	He	24.754	24.754	0.97	1230384	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1921397	0.98	2077022	92.51	30	120	
Sc	45	1	He	841301	2.80	817536	102.91	30	120	
Sc	45	2	NoGas	6494392	0.08	5970055	108.78	30	120	
Rh	103	1	He	2370371	1.19	2327919	101.82	30	120	
In	115	1	He	1255844	0.19	1305098	96.23	30	120	
Tb	159	1	He	3902560	0.60	3765959	103.63	30	120	
Ho	165	1	He	3960642	1.11	3748206	105.67	30	120	
Bi	209	1	He	2826565	0.88	2822318	100.15	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-2-a@2
Data File Name	093SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:34:52-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	1.656	1.656	5.79	9129	0.02	10000	
B	11	45	2	NoGas	5.214	5.214	1.92	31824	0.02	300	
Na	23	45	1	He	1226.720	1226.720	0.94	2446547	0.05	500000	
Mg	24	45	1	He	1142.479	1142.479	1.77	1276530	0.09	500000	
Al	27	45	1	He	13617.067	13617.067	0.30	7953895	0.17	200000	
K	39	45	1	He	3178.811	3178.811	0.96	3047548	0.10	500000	
Ca	44	45	1	He	507.887	507.887	2.73	26641	1.91	500000	
Ti	47	45	1	He	245.372	245.372	1.04	71589	0.34	2500	
V	51	45	1	He	241.366	241.366	1.08	1761587	0.01	10000	
Cr	52	45	1	He	106.692	106.692	0.27	954119	0.01	10000	
Mn	55	45	1	He	55.135	55.135	0.70	378566	0.01	10000	
Fe	56	45	1	He	94821.400	94821.400	1.06	799088057	0.01	200000	
Co	59	103	1	He	2.636	2.636	1.76	34507	0.01	10000	
Ni	60	103	1	He	4.481	4.481	3.26	14612	0.03	10000	
Cu	63	103	1	He	34.223	34.223	2.28	295373	0.01	10000	
Zn	66	103	1	He	23.129	23.129	0.79	40802	0.06	10000	
As	75	103	1	He	3.520	3.520	4.79	3731	0.09	10000	
Se	78	103	1	He	6.355	6.355	4.13	733	0.87	10000	
Sr	88	103	1	He	12.780	12.780	1.39	100060	0.01	10000	
Mo	95	103	1	He	0.456	0.456	7.01	1796	0.03	2000	
Ag	107	103	1	He	0.030	0.030	8.71	410	0.01	300	
Cd	111	103	1	He	0.761	0.761	2.66	2834	0.03	4000	
Sn	118	115	1	He	17.487	17.487	0.74	86858	0.02	2000	
Sb	123	115	1	He	0.453	0.453	5.70	2210	0.02	300	
Ba	137	115	1	He	95.773	95.773	0.14	206345	0.05	10000	
W	182	209	1	He	0.216	0.216	9.61	6954	0.00	2500	
Tl	205	209	1	He	0.532	0.532	1.73	19426	0.00	5000	
Pb	208	209	1	He	42.279	42.279	0.71	2005263	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1845814	1.21	2077022	88.87	30	120	
Sc	45	1	He	817455	2.70	817536	99.99	30	120	
Sc	45	2	NoGas	6652990	0.52	5970055	111.44	30	120	
Rh	103	1	He	2224223	1.75	2327919	95.55	30	120	
In	115	1	He	1166169	2.59	1305098	89.35	30	120	
Tb	159	1	He	3822250	1.23	3765959	101.49	30	120	
Ho	165	1	He	3916089	1.56	3748206	104.48	30	120	
Bi	209	1	He	2697499	0.91	2822318	95.58	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-3-a@2
Data File Name	094SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:38:40-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.708	0.708	4.73	4067	0.02	10000	
B	11	45	2	NoGas	2.510	2.510	5.82	18640	0.01	300	
Na	23	45	1	He	591.112	591.112	1.19	1131828	0.05	500000	
Mg	24	45	1	He	1637.948	1637.948	1.68	1742898	0.09	500000	
Al	27	45	1	He	36032.644	36032.644	0.80	20025866	0.18	200000	
K	39	45	1	He	1295.000	1295.000	2.83	1204768	0.11	500000	
Ca	44	45	1	He	1818.504	1818.504	1.60	89070	2.04	500000	
Ti	47	45	1	He	223.170	223.170	0.38	61999	0.36	2500	
V	51	45	1	He	203.595	203.595	0.93	1414883	0.01	10000	
Cr	52	45	1	He	61.569	61.569	0.87	525434	0.01	10000	
Mn	55	45	1	He	70.618	70.618	0.52	461602	0.02	10000	
Fe	56	45	1	He	60587.925	60587.925	1.59	486450487	0.01	200000	
Co	59	103	1	He	5.152	5.152	1.12	66167	0.01	10000	
Ni	60	103	1	He	9.493	9.493	1.23	30303	0.03	10000	
Cu	63	103	1	He	44.630	44.630	0.11	377285	0.01	10000	
Zn	66	103	1	He	30.177	30.177	0.80	51670	0.06	10000	
As	75	103	1	He	8.557	8.557	0.17	8781	0.10	10000	
Se	78	103	1	He	2.139	2.139	6.47	266	0.81	10000	
Sr	88	103	1	He	7.802	7.802	2.08	60107	0.01	10000	
Mo	95	103	1	He	2.902	2.902	3.67	10930	0.03	2000	
Ag	107	103	1	He	0.021	0.021	5.95	290	0.01	300	
Cd	111	103	1	He	0.249	0.249	16.79	1654	0.02	4000	
Sn	118	115	1	He	16.565	16.565	0.53	82235	0.02	2000	
Sb	123	115	1	He	0.324	0.324	4.20	1630	0.02	300	
Ba	137	115	1	He	93.565	93.565	0.67	201445	0.05	10000	
W	182	209	1	He	0.202	0.202	8.88	6735	0.00	2500	
Tl	205	209	1	He	0.556	0.556	2.26	20266	0.00	5000	
Pb	208	209	1	He	30.828	30.828	0.70	1461088	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1913180	0.72	2077022	92.11	30	120	
Sc	45	1	He	778481	4.10	817536	95.22	30	120	
Sc	45	2	NoGas	6668230	0.23	5970055	111.69	30	120	
Rh	103	1	He	2184548	4.16	2327919	93.84	30	120	
In	115	1	He	1165394	3.76	1305098	89.30	30	120	
Tb	159	1	He	3681571	3.04	3765959	97.76	30	120	
Ho	165	1	He	3701522	2.21	3748206	98.75	30	120	
Bi	209	1	He	2695536	2.93	2822318	95.51	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-4-a@2
Data File Name	095SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:42:27-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	0.730	0.730	3.02	4086	0.02	10000	
B	11	45	2	NoGas	3.494	3.494	5.03	22730	0.02	300	
Na	23	45	1	He	282.585	282.585	0.43	599622	0.05	500000	
Mg	24	45	1	He	154.292	154.292	1.11	179625	0.09	500000	
Al	27	45	1	He	7500.962	7500.962	0.69	4556744	0.16	200000	
K	39	45	1	He	1677.892	1677.892	1.46	1689659	0.10	500000	
Ca	44	45	1	He	166.255	166.255	2.29	9557	1.74	500000	
Ti	47	45	1	He	227.265	227.265	2.57	68875	0.33	2500	
V	51	45	1	He	96.419	96.419	0.93	731291	0.01	10000	
Cr	52	45	1	He	26.507	26.507	0.45	248322	0.01	10000	
Mn	55	45	1	He	86.631	86.631	0.24	617679	0.01	10000	
Fe	56	45	1	He	39567.386	39567.386	0.35	346455053	0.01	200000	
Co	59	103	1	He	1.487	1.487	1.23	21214	0.01	10000	
Ni	60	103	1	He	2.338	2.338	3.47	8349	0.03	10000	
Cu	63	103	1	He	31.575	31.575	1.56	297087	0.01	10000	
Zn	66	103	1	He	33.596	33.596	0.15	63580	0.05	10000	
As	75	103	1	He	10.011	10.011	0.79	11380	0.09	10000	
Se	78	103	1	He	3.500	3.500	2.08	457	0.77	10000	
Sr	88	103	1	He	8.836	8.836	2.07	75438	0.01	10000	
Mo	95	103	1	He	2.119	2.119	0.89	8878	0.02	2000	
Ag	107	103	1	He	0.050	0.050	14.45	742	0.01	300	
Cd	111	103	1	He	0.312	0.312	6.74	1990	0.02	4000	
Sn	118	115	1	He	17.052	17.052	2.77	92759	0.02	2000	
Sb	123	115	1	He	0.387	0.387	8.09	2097	0.02	300	
Ba	137	115	1	He	59.977	59.977	0.25	141539	0.04	10000	
W	182	209	1	He	0.105	0.105	19.79	5512	0.00	2500	
Tl	205	209	1	He	0.274	0.274	1.98	10470	0.00	5000	
Pb	208	209	1	He	49.887	49.887	0.62	2474894	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1863227	2.52	2077022	89.71	30	120	
Sc	45	1	He	849247	1.04	817536	103.88	30	120	
Sc	45	2	NoGas	6459759	0.71	5970055	108.20	30	120	
Rh	103	1	He	2423495	1.47	2327919	104.11	30	120	
In	115	1	He	1277186	0.40	1305098	97.86	30	120	
Tb	159	1	He	4006851	1.07	3765959	106.40	30	120	
Ho	165	1	He	4048151	0.66	3748206	108.00	30	120	
Bi	209	1	He	2821795	1.22	2822318	99.98	30	120	

Sample Report

Sample Table

Sample Name	240-49409-f-5-a@2
Data File Name	096SMPL.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:46:14-04:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	6	2	NoGas	3.985	3.985	4.60	20564	0.02	10000	
B	11	45	2	NoGas	4.285	4.285	2.75	26535	0.02	300	
Na	23	45	1	He	789.665	789.665	1.05	1672495	0.05	500000	
Mg	24	45	1	He	54841.004	54841.004	0.67	64798418	0.08	500000	
Al	27	45	1	He	82414.126	82414.126	1.61	50859442	0.16	200000	
K	39	45	1	He	9212.287	9212.287	0.74	9263022	0.10	500000	
Ca	44	45	1	He	12532.998	12532.998	0.48	677132	1.85	500000	
Ti	47	45	1	He	2801.735	2801.735	0.87	864256	0.32	2500	>LDR
V	51	45	1	He	249.820	249.820	6.48	1928226	0.01	10000	
Cr	52	45	1	He	1110.452	1110.452	0.31	10475941	0.01	10000	
Mn	55	45	1	He	2042.032	2042.032	0.71	14810784	0.01	10000	
Fe	56	45	1	He	123851.333	123851.333	0.19	1103964436	0.01	200000	
Co	59	103	1	He	86.971	86.971	0.44	1117925	0.01	10000	
Ni	60	103	1	He	282.957	282.957	0.30	901414	0.03	10000	
Cu	63	103	1	He	208.966	208.966	0.53	1757061	0.01	10000	
Zn	66	103	1	He	200.770	200.770	0.57	332925	0.06	10000	
As	75	103	1	He	8.551	8.551	0.66	8785	0.10	10000	
Se	78	103	1	He	3.342	3.342	5.08	396	0.84	10000	
Sr	88	103	1	He	49.112	49.112	0.60	377483	0.01	10000	
Mo	95	103	1	He	1.746	1.746	4.53	6612	0.03	2000	
Ag	107	103	1	He	0.060	0.060	11.33	799	0.01	300	
Cd	111	103	1	He	0.492	0.492	15.97	2195	0.02	4000	
Sn	118	115	1	He	17.840	17.840	0.74	87305	0.02	2000	
Sb	123	115	1	He	0.290	0.290	4.97	1453	0.02	300	
Ba	137	115	1	He	493.342	493.342	0.68	1047316	0.05	10000	
W	182	209	1	He	0.423	0.423	9.75	9759	0.00	2500	
Tl	205	209	1	He	0.737	0.737	1.61	25929	0.00	5000	
Pb	208	209	1	He	61.349	61.349	0.36	2807375	0.00	4000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1733429	0.34	2077022	83.46	30	120	
Sc	45	1	He	864565	0.79	817536	105.75	30	120	
Sc	45	2	NoGas	6471392	0.39	5970055	108.40	30	120	
Rh	103	1	He	2186907	0.65	2327919	93.94	30	120	
In	115	1	He	1149214	0.60	1305098	88.06	30	120	
Tb	159	1	He	3675442	0.77	3765959	97.60	30	120	
Ho	165	1	He	3773434	1.00	3748206	100.67	30	120	
Bi	209	1	He	2602886	0.66	2822318	92.23	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV-1945747
Data File Name	097_CCV.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:49:59-04:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	6	2	NoGas	49.897	2.012	244868	2.72	50	99.8	89.5	110.5	
B	11	45	2	NoGas	49.382	1.249	199958	1.89	50	98.8	89.5	110.5	
Na	23	45	1	He	26235.448	1.555	45521330	0.63	25000	104.9	89.5	110.5	
Mg	24	45	1	He	26151.131	1.622	25591015	1.05	25000	104.6	89.5	110.5	
Al	27	45	1	He	248.700	0.891	136003	1.35	250	99.5	89.5	110.5	
K	39	45	1	He	25914.218	1.240	21518303	0.68	25000	103.7	89.5	110.5	
Ca	44	45	1	He	25380.556	1.508	1135000	0.49	25000	101.5	89.5	110.5	
Ti	47	45	1	He	55.317	1.790	14142	0.74	50	110.6	89.5	110.5	CCV Failed
V	51	45	1	He	52.773	2.356	337696	0.49	50	105.5	89.5	110.5	
Cr	52	45	1	He	53.582	1.918	420809	0.26	50	107.2	89.5	110.5	
Mn	55	45	1	He	274.043	1.415	1646472	0.53	250	109.6	89.5	110.5	
Fe	56	45	1	He	13534.463	1.868	99916069	0.37	12500	108.3	89.5	110.5	
Co	59	103	1	He	47.412	0.834	598602	1.02	50	94.8	89.5	110.5	
Ni	60	103	1	He	48.067	0.878	150468	0.93	50	96.1	89.5	110.5	
Cu	63	103	1	He	48.443	1.671	402357	0.16	50	96.9	89.5	110.5	
Zn	66	103	1	He	47.298	2.896	78514	1.00	50	94.6	89.5	110.5	
As	75	103	1	He	47.117	1.227	47149	0.66	50	94.2	89.5	110.5	
Se	78	103	1	He	45.758	1.549	4885	1.65	50	91.5	89.5	110.5	
Sr	88	103	1	He	46.881	1.516	353903	0.61	50	93.8	89.5	110.5	
Mo	95	103	1	He	50.341	3.574	185646	2.28	50	100.7	89.5	110.5	
Ag	107	103	1	He	50.339	0.625	641346	1.20	50	100.7	89.5	110.5	
Cd	111	103	1	He	50.411	1.416	110226	0.51	50	100.8	89.5	110.5	
Sn	118	115	1	He	50.915	1.298	248207	1.21	50	101.8	89.5	110.5	
Sb	123	115	1	He	54.616	1.118	243072	0.46	50	109.2	89.5	110.5	
Ba	137	115	1	He	52.381	2.272	111021	1.63	50	104.8	89.5	110.5	
W	182	209	1	He	48.573	0.656	733003	1.75	50	97.1	89.5	110.5	
Tl	205	209	1	He	52.090	0.590	1870296	1.26	50	104.2	89.5	110.5	
Pb	208	209	1	He	48.683	1.747	2273803	0.87	50	97.4	89.5	110.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1651441	1.75	2077022	79.51	30	120	
Sc	45	1	He	716131	1.92	817536	87.60	30	120	
Sc	45	2	NoGas	5364824	1.12	5970055	89.86	30	120	
Rh	103	1	He	2148140	1.79	2327919	92.28	30	120	
In	115	1	He	1147159	0.87	1305098	87.90	30	120	
Tb	159	1	He	3696043	0.46	3765959	98.14	30	120	
Ho	165	1	He	3695588	1.28	3748206	98.60	30	120	
Bi	209	1	He	2656798	1.14	2822318	94.14	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	098_CCB.d
Data Path Name	D:\Analytical Runs\I10042115G.b
Acq Date Time	2015-04-21T23:53:45-04:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	002CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

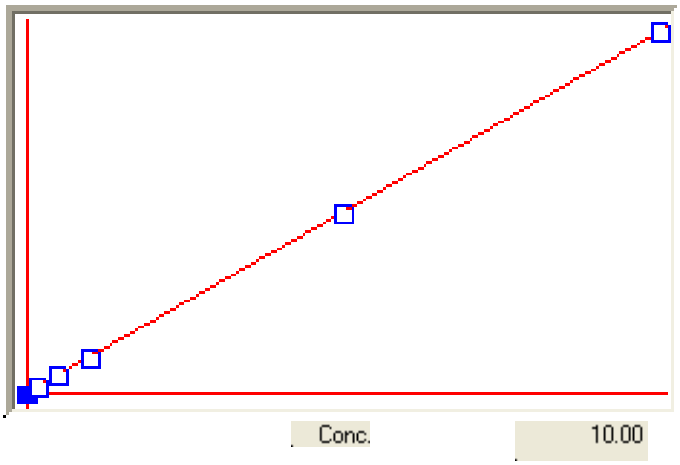
QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	6	2	NoGas	0.024	49.3	156	35.7	1	
B	11	45	2	NoGas	1.182	9.5	9781	5.5	20	
Na	23	45	1	He	10.475	13.4	32604	6.6	400	
Mg	24	45	1	He	2.584	18.8	2893	15.2	1000	
Al	27	45	1	He	0.882	88.4	9091	3.6	50	
K	39	45	1	He	8.623	25.3	39614	3.8	1000	
Ca	44	45	1	He	2.214	63.3	704	8.6	1000	
Ti	47	45	1	He	0.356	7.4	99	7.0	20	
V	51	45	1	He	-0.006	-263.1	518	19.8	2	
Cr	52	45	1	He	0.000	1115.2	2252	1.7	2	
Mn	55	45	1	He	0.064	38.0	770	17.6	2	
Fe	56	45	1	He	18.192	23.6	141812	20.9	50	
Co	59	103	1	He	0.003	117.7	80	65.5	1	
Ni	60	103	1	He	0.004	56.2	103	6.4	2	
Cu	63	103	1	He	-0.135	-9.3	1990	4.8	2	
Zn	66	103	1	He	-0.190	-34.6	1707	7.3	20	
As	75	103	1	He	0.071	14.5	163	8.0	2	
Se	78	103	1	He	0.016	220.9	37	10.2	2	
Sr	88	103	1	He	-0.006	-51.6	160	16.5	10	
Mo	95	103	1	He	0.873	15.4	3385	16.6	2	
Ag	107	103	1	He	0.010	25.3	150	21.2	0.2	
Cd	111	103	1	He	-0.005	-570.1	1113	4.2	0.2	
Sn	118	115	1	He	0.338	24.0	1978	21.0	10	
Sb	123	115	1	He	0.235	18.7	1240	16.8	1	
Ba	137	115	1	He	0.016	23.5	69	12.2	5	
W	182	209	1	He	0.902	17.6	17488	14.3	10	
Tl	205	209	1	He	0.033	26.3	1228	26.2	0.5	
Pb	208	209	1	He	0.035	13.4	2238	10.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	2	NoGas	1643424	1.70	2077022	79.12	30	120	
Sc	45	1	He	695725	0.72	817536	85.10	30	120	
Sc	45	2	NoGas	5378510	0.94	5970055	90.09	30	120	
Rh	103	1	He	2218395	1.46	2327919	95.30	30	120	
In	115	1	He	1180592	0.60	1305098	90.46	30	120	
Tb	159	1	He	3615866	0.44	3765959	96.01	30	120	
Ho	165	1	He	3657776	1.26	3748206	97.59	30	120	
Bi	209	1	He	2709171	0.40	2822318	95.99	30	120	

Protocol: Hg-7471A



Linear

Calibrated

Accepted

A

B 2.30936e-4

C 4.01826e-3

Rhc .999996

Accepted Date: 16-Apr-15 08:25

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.0107	.0107	30	0	29				
02	.20000	.2019	.0019	857	0%	857				
03	.50000	.4961	-.0039	2132	0%	2131				
04	1.0000	.9823	-.0177	4236	0%	4236				
05	5.0000	5.014	.0142	21696	0%	21695				
06	10.000	9.995	-.0052	43263	0%	43262				
07										
08										
09										
10										

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 1		08:15:13 16 Apr 15			HG
Hg	.0000	ppb	29						
*** Standard: 2 Rep: 1				Seq: 2		08:16:59 16 Apr 15			HG
Hg	.2000	ppb	857						
*** Standard: 3 Rep: 1				Seq: 3		08:19:09 16 Apr 15			HG
Hg	.5000	ppb	2131						
*** Standard: 4 Rep: 1				Seq: 4		08:21:09 16 Apr 15			HG
Hg	1.000	ppb	4236						
*** Standard: 5 Rep: 1				Seq: 5		08:23:32 16 Apr 15			HG
Hg	5.000	ppb	21695						
*** Standard: 6 Rep: 1				Seq: 6		08:25:35 16 Apr 15			HG
Hg	10.00	ppb	43262						

*** Check Standard: 2 Ck2ICV Seq: 7 08:27:36 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.31	4.766	5.000	ppb	.0000

*** Check Standard: 3 Ck3ICB Seq: 8 08:29:39 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	-.0378	.0000	ppb	.0000

*** Check Standard: 4 Ck4CRA\MRL Seq: 9 08:31:38 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.77	.1975	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 10 09:06:50 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.23	4.961	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 11 09:08:47 16 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0403	.2400	ppb	.0000

*** Sample ID: lb 240-176438/1-c				Seq: 12	09:11:25 16 Apr 15	HG	
Hg	.0172	ppb	.0000	.0172			
*** Sample ID: mb 240-176549/2-a				Seq: 13	09:13:25 16 Apr 15	HG	
Hg	.0190	ppb	.0000	.0190			
*** Sample ID: lcs 240-176549/3-a				Seq: 14	09:15:22 16 Apr 15	HG	
Hg	5.001	ppb	.0000	5.001			
*** Sample ID: 460-93001-e-1-m				Seq: 15	09:17:30 16 Apr 15	HG	
Hg	-.0207	ppb	.0000	-.0207			
*** Sample ID: 460-93001-e-1-n ms				Seq: 16	09:19:21 16 Apr 15	HG	
Hg	4.527	ppb	.0000	4.527			

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID:				Seq: 17		09:21:18 16 Apr 15			HG
				460-93001-e-1-o msd					
Hg	4.492	ppb	.0000	4.492					
*** Sample ID:				Seq: 18		09:23:16 16 Apr 15			HG
				460-93185-c-4-c					
Hg	-.0507	ppb	.0000	-.0507					
*** Sample ID:				Seq: 19		09:25:05 16 Apr 15			HG
				mb 240-176570/1-a					
Hg	-.0011	ppb	.0000	-.0011					
*** Sample ID:				Seq: 20		09:27:24 16 Apr 15			HG
				lcs 240-176570/2-a					
Hg	5.014	ppb	.0000	5.014					
*** Sample ID:				Seq: 21		09:29:25 16 Apr 15			HG
				240-49071-a-2-m					
Hg	.2096	ppb	.0000	.2096					

*** Check Standard: 6 Ck6CCV Seq: 22 09:31:17 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.3	5.116	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 23 09:33:14 16 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0516	.2400	ppb	.0000

*** Sample ID:				Seq: 24		09:35:24 16 Apr 15			HG
				240-49071-a-2-n du					
Hg	.2144	ppb	.0000	.2144					
*** Sample ID:				Seq: 25		09:37:12 16 Apr 15			HG
				240-49071-a-2-o ms					
Hg	1.264	ppb	.0000	1.264					
*** Sample ID:				Seq: 26		09:39:12 16 Apr 15			HG
				240-49071-a-3-c					
Hg	.1500	ppb	.0000	.1500					
*** Sample ID:				Seq: 27		09:40:59 16 Apr 15			HG
				240-49071-a-4-c					
Hg	.1617	ppb	.0000	.1617					
*** Sample ID:				Seq: 28		09:42:48 16 Apr 15			HG
				240-49085-f-8-e					
Hg	.0308	ppb	.0000	.0308					
*** Sample ID:				Seq: 29		09:44:54 16 Apr 15			HG
				240-49085-f-15-g					
Hg	.0620	ppb	.0000	.0620					
*** Sample ID:				Seq: 30		09:47:02 16 Apr 15			HG
				240-49085-f-22-e					
Hg	.0514	ppb	.0000	.0514					
*** Sample ID:				Seq: 31		09:48:49 16 Apr 15			HG
				240-49085-f-34-e					
Hg	.0257	ppb	.0000	.0257					
*** Sample ID:				Seq: 32		09:51:10 16 Apr 15			HG
				240-49171-b-19-b					
Hg	.0230	ppb	.0000	.0230					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 33 09:52:57 16 Apr 15 HG
240-49171-a-6-i

Hg	.2089	ppb	.0000	.2089

*** Check Standard: 6 Ck6CCV Seq: 34 09:55:34 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.6	5.181	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 35 09:57:32 16 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0364	.2400	ppb	.0000

*** Sample ID: Seq: 36 10:00:00 16 Apr 15 HG
240-49171-a-8-g

Hg	.2162	ppb	.0000	.2162

*** Sample ID: Seq: 37 10:02:08 16 Apr 15 HG
240-49171-a-10-i

Hg	.1199	ppb	.0000	.1199

*** Sample ID: Seq: 38 10:03:57 16 Apr 15 HG
240-49306-d-1-f

Hg	.1858	ppb	.0000	.1858

*** Sample ID: Seq: 39 10:05:49 16 Apr 15 HG
240-49306-d-2-b

Hg	.2123	ppb	.0000	.2123

*** Sample ID: Seq: 40 10:08:05 16 Apr 15 HG
240-49306-c-3-b

Hg	.1574	ppb	.0000	.1574

*** Sample ID: Seq: 41 10:09:52 16 Apr 15 HG
240-49306-d-4-b

Hg	.1906	ppb	.0000	.1906

*** Sample ID: Seq: 42 10:11:54 16 Apr 15 HG
240-49316-f-1-b

Hg	.1534	ppb	.0000	.1534

*** Check Standard: 4 Ck4CRA\MRL Seq: 43 10:13:42 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.7	.2054	.2000	ppb	.0000

*** Check Standard: 6 Ck6CCV Seq: 44 10:15:38 16 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.8	5.140	5.000	ppb	.0000

*** Check Standard: 1 Ck1CCB Seq: 45 10:17:35 16 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0431	.2400	ppb	.0000

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information:

Circle Methods used: 7470A / 245.1 (7471) Batch: 176708

Run Date: 4-16-15 Analyst: B Waddle Instrument: H4

Review Items				
A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?			✓	✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I

Analyst: B Waddle Date/Time: 4-16-15 Reviewed from 8:15 to 10:17

Analyst: _____ Date/Time: _____ Reviewed from _____ to _____

Comments: _____

Level II

Reviewer: [signature] Date/Time: 4/16/15 Reviewed from 8:15 to 10:17

Reviewer: _____ Date/Time: _____ Reviewed from _____ to _____

Comments _____

Curve Date 4-15-15 Curve Time 8:32 ~~10:~~ 9:02 BSD 04/16/15 DILUTION H20 NA

Revised 11/29/2012

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176059 Batch Start Date: 04/08/15 16:00 Batch Analyst: Jones, Diane

Batch Method: Increment, Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-49071-A-2	079SS-0342M-0001,0002-SO	Increment, Prep, 3050B, 6020	T	Disagg 4/11					
240-49071-A-3	079SS-0343M-0001-SO	Increment, Prep, 3050B, 6020	T	Disagg 4/9					
240-49071-A-4	079SS-0344M-0001-SO	Increment, Prep, 3050B, 6020	T	Disagg 4/9					

Batch Notes	
First End time	Ground/Sieved 4/9 and 4/11, split 4/13
First Start time	4/8/15

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176562 Batch Start Date: 04/15/15 11:42 Batch Analyst: Elshaw, Dale

Batch Method: 3050B Batch End Date: 04/15/15 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MT1TO1HN03 00946	MTH202 00041	MTICPMS2 00020
MB 240-176562/1		3050B, 6020		CALC NOT SET TO RUN	1.00 g	100 mL	10 mL	10 mL	
LCS 240-176562/2		3050B, 6020		CALC NOT SET TO RUN	1.00 g	100 mL	10 mL	10 mL	1 mL
240-49071-A-2-A	079SS-0342M-0001 ,0002-SO	3050B, 6020	T	CALC NOT SET TO RUN	1.06 g	100 mL	10 mL	10 mL	
240-49071-A-2-C DU	079SS-0342M-0001 ,0002-SO	3050B, 6020	T	CALC NOT SET TO RUN	1.06 g	100 mL	10 mL	10 mL	
240-49071-A-2-B MS	079SS-0342M-0001 ,0002-SO	3050B, 6020	T	CALC NOT SET TO RUN	1.06 g	100 mL	10 mL	10 mL	1 mL
240-49071-A-3-A	079SS-0343M-0001 -SO	3050B, 6020	T	CALC NOT SET TO RUN	1.15 g	100 mL	10 mL	10 mL	
240-49071-A-4-A	079SS-0344M-0001 -SO	3050B, 6020	T	CALC NOT SET TO RUN	1.21 g	100 mL	10 mL	10 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTICPMSA 00021	MTICPMSA 00022	MTICPMSB 00021	MTICPMSB 00022	MTTMHCL 00062	MTTMHNO3 00054
MB 240-176562/1		3050B, 6020						10 mL	5 mL
LCS 240-176562/2		3050B, 6020			1 mL		1 mL	10 mL	5 mL
240-49071-A-2-A	079SS-0342M-0001 ,0002-SO	3050B, 6020	T					10 mL	5 mL
240-49071-A-2-C DU	079SS-0342M-0001 ,0002-SO	3050B, 6020	T					10 mL	5 mL
240-49071-A-2-B MS	079SS-0342M-0001 ,0002-SO	3050B, 6020	T	1 mL		1 mL		10 mL	5 mL
240-49071-A-3-A	079SS-0343M-0001 -SO	3050B, 6020	T					10 mL	5 mL
240-49071-A-4-A	079SS-0344M-0001 -SO	3050B, 6020	T					10 mL	5 mL

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	K565-4i009
Filter Paper Lot Number	9605292
Hot Block ID number	a1 a2
Pipette ID	64-66
Digestion Tube/Cup Lot #	150204

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176562 Batch Start Date: 04/15/15 11:42 Batch Analyst: Elshaw, Dale

Batch Method: 3050B Batch End Date: 04/15/15 17:00

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176059 Batch Start Date: 04/08/15 16:00 Batch Analyst: Jones, Diane

Batch Method: Increment, Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-49071-A-2	079SS-0342M-0001,0002-SO	Increment, Prep, 7471A, 7471A	T	Disagg 4/11					
240-49071-A-3	079SS-0343M-0001-SO	Increment, Prep, 7471A, 7471A	T	Disagg 4/9					
240-49071-A-4	079SS-0344M-0001-SO	Increment, Prep, 7471A, 7471A	T	Disagg 4/9					

Batch Notes	
First End time	Ground/Sieved 4/9 and 4/11, split 4/13
First Start time	4/8/15

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176499 Batch Start Date: 04/15/15 08:32 Batch Analyst: Walpole, Barbara

Batch Method: 7471A Batch End Date: 04/15/15 09:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00995	MTHGCALW 00881	MTHgStd 00016	MTKMN04W 00081
ICV 240-176499/7		7471A, 7471A		100 mL	100 mL	5 mL		0.5 mL	15 mL
ICB 240-176499/8		7471A, 7471A		100 mL	100 mL	5 mL			15 mL
CRA 240-176499/9		7471A, 7471A		100 mL	100 mL	5 mL	0.2 mL		15 mL
CCV 240-176499/10		7471A, 7471A		100 mL	100 mL	5 mL	5 mL		15 mL
CCB 240-176499/11		7471A, 7471A		100 mL	100 mL	5 mL			15 mL

Batch Notes	
Hot Block ID number	C1
Pipette ID	59L-64-66
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176570 Batch Start Date: 04/15/15 15:00 Batch Analyst: Elshaw, Dale

Batch Method: 7471A Batch End Date: 04/15/15 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAQUAREGIA 00996	MTHGCALW 00881	MTKMN04W 00081	
MB 240-176570/1		7471A, 7471A		0.60 g	100 mL	5 mL		15 mL	
LCS 240-176570/2		7471A, 7471A		0.60 g	100 mL	5 mL	5 mL	15 mL	
240-49071-A-2-A	079SS-0342M-0001 ,0002-SO	7471A, 7471A	T	0.55 g	100 mL	5 mL		15 mL	
240-49071-A-2-C DU	079SS-0342M-0001 ,0002-SO	7471A, 7471A	T	0.55 g	100 mL	5 mL		15 mL	
240-49071-A-2-B MS	079SS-0342M-0001 ,0002-SO	7471A, 7471A	T	0.55 g	100 mL	5 mL	1 mL	15 mL	
240-49071-A-3-A	079SS-0343M-0001 -SO	7471A, 7471A	T	0.52 g	100 mL	5 mL		15 mL	
240-49071-A-4-A	079SS-0344M-0001 -SO	7471A, 7471A	T	0.53 g	100 mL	5 mL		15 mL	

Batch Notes	
Balance ID	b039
Blank Soil Lot Number	K565-4i009
Hot Block ID number	c3
Pipette ID	383364-383366-66
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG No.: CC 79 Area 8

Project: RVAAP - AAP

Client Sample ID	Lab Sample ID
079SS-0342M-0001-SO	240-49071-1
079SS-0342M-0001,0002-SO	240-49071-2
079SS-0343M-0001-SO	240-49071-3
079SS-0344M-0001-SO	240-49071-4

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-49071-1

SDG No.: CC 79 Area 8

Project: RVAAP - AAP

Client Sample ID	Lab Sample ID
079SS-0342M-0001,0002-SO	240-49071-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 079SS-0342M-0001,0002-SO
Lab Sample ID: 240-49071-2
Lab Name: TestAmerica Sacramento
Job No.: 240-49071-1
SDG ID.: CC 79 Area 8
Matrix: Solid
Date Sampled: 04/06/2015 16:30
Reporting Basis: DRY
Date Received: 04/08/2015 07:00
% Solids: 97.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrocellulose	1.3	5.1	1.9	0.80	mg/Kg	J		1	WS-WC-0050

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Analyst: JCB Batch Start Date: 04/22/2015

Reporting Units: mg/L Analytical Batch No.: 72011

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICV	13:32	Nitrocellulose	8.13	8.33	98	90-110		WC-353.2-ICV_00046
10	ICB	13:34	Nitrocellulose	1.0				U	
28	CCV	14:15	Nitrocellulose	8.39	8.33	101	90-110		WC-353.2-L4_00042
29	CCB	14:17	Nitrocellulose	1.0				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 72011	Date: 04/22/2015 13:53	Prep Batch: 71631	Date: 04/21/2015 06:29				
WS-WC-0050	MB 320-71507/1-B	Nitrocellulose	1.07	J	mg/Kg	5.0	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 72011	Date: 04/22/2015 13:55		Prep Batch: 71631		Date: 04/21/2015 06:29						
					LCS Source: HPNCSP_00013						
WS-WC-0050	LCS 320-71507/2-B	Nitrocellulose	24.3		mg/Kg	50.7	48	34-115			

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

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 72011	Date: 04/22/2015 13:36										
						LCS Source:	WC-353.2-L1_00051				
WS-WC-0050	MRL 320-72011/11	Nitrocellulose	0.492	J	mg/L	0.417	118	70-130			
Batch ID: 72011	Date: 04/22/2015 14:13										
						LCS Source:	WC-353.2-L1_00051				
WS-WC-0050	MRL 320-72011/27	Nitrocellulose	1.0	U	mg/L	0.417	114	70-130			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/28/2010 09:24

ISM Prep Method: Increment, Prep

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/28/2010 09:24

Analyte	Wavelength/ Mass	XRL (mg/L)	
Percent Moisture		10	
Percent Solids		10	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: FS4

Method: WS-WC-0050 DL Date: 03/15/2011 14:37

Prep Method: 353 (NCell-Hyd)

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (mg/Kg)
Nitrocellulose		5	0.78

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job Number: 240-49071-1

SDG Number: CC 79 Area 8

Matrix: Solid Instrument ID: FS4

Method: WS-WC-0050 XMDL Date: 03/15/2011 14:36

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrocellulose		2	0.475

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: FS4 Date: 07/31/2011 19:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Nitrocellulose		16.8	WS-WC-0050

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Prep Method: 353 (NCell-Hyd)

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 320-71507/1-B	04/21/2015 06:29	71631		45.00	40.00
LCS 320-71507/2-B	04/21/2015 06:29	71631		45.00	40.00
240-49071-2	04/21/2015 06:29	71631		45.00	40.00

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/08/2015 16:25 End Date: 04/08/2015 18:19

Lab Sample Id	D/F	Type	Time	Analytes																										
				% Sol	Moist																									
ZZZZZZ			16:25																											
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FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/08/2015 16:25 End Date: 04/08/2015 18:19

Lab Sample Id	D/F	Type	Time	Analytes																										
				% Sol	Moist																									
ZZZZZZ			16:25																											
ZZZZZZ			18:09																											
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FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/08/2015 16:25 End Date: 04/08/2015 18:19

Lab Sample Id	D/F	Type	Time	Analytes																										
				% Sol	Moist																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/13/2015 11:34 End Date: 04/13/2015 15:59

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ			11:34	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/13/2015 11:34 End Date: 04/13/2015 15:59

Lab Sample Id	D/F	Type	Time	Analytes																										
				% Sol	Moist																									
ZZZZZZ			11:34																											
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240-49071-3	1	T	11:43	X	X																									
240-49071-4	1	T	11:43	X	X																									
240-49071-2 DU	1	T	11:43	X	X																									
240-49071-2	1	T	11:43	X	X																									
ZZZZZZ			11:43																											
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FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 04/13/2015 11:34 End Date: 04/13/2015 15:59

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ			15:59																										
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Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Instrument ID: FS4 Analysis Method: WS-WC-0050

Start Date: 04/22/2015 13:16 End Date: 04/22/2015 14:37

Lab Sample Id	D/F	Type	Time	Analytes
				NCL
ZZZZZZ			13:16	
ZZZZZZ			13:18	
STD5 320-72011/3 IC			13:20	X
STD4 320-72011/4 IC			13:22	X
STD3 320-72011/5 IC			13:24	X
STD2 320-72011/6 IC			13:26	X
STD1 320-72011/7 IC			13:28	X
STD0 320-72011/8 IC			13:30	X
ICV 320-72011/9	1		13:32	X
ICB 320-72011/10	1		13:34	X
MRL 320-72011/11	1	T	13:36	X
ZZZZZZ			13:43	
ZZZZZZ			13:45	
ZZZZZZ			13:47	
ZZZZZZ			13:49	
ZZZZZZ			13:51	
MB 320-71507/1-B	1	T	13:53	X
LCS 320-71507/2-B	1	T	13:55	X
240-49071-2	1	T	13:57	X
ZZZZZZ			13:59	
ZZZZZZ			14:01	
ZZZZZZ			14:03	
ZZZZZZ			14:05	
ZZZZZZ			14:07	
ZZZZZZ			14:09	
ZZZZZZ			14:11	
MRL 320-72011/27	1	T	14:13	X
CCV 320-72011/28	1		14:15	X
CCB 320-72011/29	1		14:17	X
ZZZZZZ			14:19	
ZZZZZZ			14:21	
ZZZZZZ			14:23	
ZZZZZZ			14:25	
ZZZZZZ			14:27	
ZZZZZZ			14:29	
ZZZZZZ			14:31	
CCV 320-72011/37			14:33	
CCB 320-72011/38			14:35	
ZZZZZZ			14:37	

Prep Types:
T = Total/NA

FORM XIII-IN

Peak Table:Nitrite/Nitrate

File name: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042215A.RST
Date: 22-Apr-15
Operator: JCB

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	103	Sync	1	SYNC	1	1	165334	0.991916	
B	0	Baseline	1	RB	1	1	0	0.024784	BL
3	102	Cal 5	1	C	1	1	338988	2.007720	HI
4	103	Cal 4	1	C	1	1	166056	0.996143	
5	104	Cal 3	1	C	1	1	60177	0.376796	
6	105	Cal 2	1	C	1	1	27609	0.186283	
7	106	Cal 1	1	C	1	1	5818	0.058817	
8	0	Cal 0	1	C	1	1	-93	0.024240	
9	107	ICV	1	U	1	1	162452	0.975061	
10	110	BLANK/ICB	1	BLNK	1	1	477	0.027571	
11	106	MRL	1	U	1	1	5875	0.059151	
12	108	NO2 1PPM	1	U	1	1	165634	0.993675	
13	109	NO3 1PPM	1	U	1	1	160908	0.966030	
14	0	Blank	1	BLNK	1	1	183	0.025853	
B	0	Baseline	1	RB	1	1	0	0.024784	BL
B	0	Baseline	2	RB	1	1	0	0.024784	BL
17	118	mb 320-71507/1-b 1	U		1	1	1287	0.032311	
18	119	lcs 320-71507/2-b 1	U		1	1	120629	0.730413	
19	120	240-49071-e-2-h 1	U		1	1	2512	0.039476	
20	121	240-49085-e-8-j 1	U		1	1	753	0.029186	
21	122	240-49085-e-8-k ms 1	U		1	1	102859	0.626463	
22	123	240-49085-e-8-l msd 1	U		1	1	92231	0.564296	
23	124	240-49085-e-15-d 1	U		1	1	1040	0.030867	
24	125	240-49085-e-22-d 1	U		1	1	724	0.029018	
25	126	240-49085-e-34-d 1	U		1	1	675	0.028733	
26	127	240-49171-c-6-d 1	U		1	1	724	0.029018	
27	106	MRL	1	U	1	1	5474	0.056805	
28	103	CCV	1	U	1	1	167881	1.006816	
29	0	CCB	1	BLNK	1	1	139	0.025597	
B	0	Baseline	1	RB	1	1	0	0.024784	BL
31	128	240-49171-c-8-d 1	U		1	1	716	0.028972	
32	129	240-49171-c-10-d 1	U		1	1	746	0.029146	
33	130	240-49233-c-4-d 1	U		1	1	1481	0.033449	
34	131	240-49233-c-6-d 1	U		1	1	1445	0.033237	
35	132	240-49233-c-8-d 1	U		1	1	578	0.028167	
36	106	MRL	1	U	1	1	5472	0.056790	
37	103	CCV	1	U	1	1	167018	1.001767	
38	0	CCB	1	BLNK	1	1	268	0.026353	
B	0	Baseline	1	RB	1	1	0	0.024784	BL

Report Results by Sample
Result path: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042215A.RST
Sample table path: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042215a.tbl
Method path: C:\ALPKEM\no3_no2.mth
Date acquired: 22-Apr-15
Time acquired: 14:40

Facility Name:
Facility Location:
Department:

Operator Name: JCB
Operator ID: JCB

Platform: FS III/IV/3100
Software Rev Code: 222
Data system ID: 57

Channel: 3
Analysis: Nitrite/Nitrate
CAS Number:
Methodology: NO2+NO3-353.2/N02-353.2/WS-WC-0050

	Temp	Warmup	Run time	Reps
rack 1	Off	1134:03:50	1:38:15	14
rack 2	Off	1134:03:50	1:38:15	14
rack 3	Off	1134:03:50	1:38:15	14

Notes

Cup	Name	S	1:Time	1:Value	1:S
0	Baseline	C	13:18:49	0.02	[C]
102	Cal 5	C	13:20:49	2.01	[C]
103	Cal 4	C	13:22:50	1.00	[C]
104	Cal 3	C	13:24:50	0.38	[C]
105	Cal 2	C	13:26:50	0.19	[C]
106	Cal 1	C	13:28:50	0.06	[C]
0	Cal 0	C	13:30:50	0.02	[C]
107	ICV	-	13:32:51	0.98	[-]
110	BLANK/ICB	C	13:34:51	0.03	[C]
106	MRL	-	13:36:51	0.06	[-]
108	NO2 1PPM	-	13:43:00	0.99	[-]
109	NO3 1PPM	-	13:45:00	0.97	[-]
0	Blank	C	13:47:00	0.03	[C]
0	Baseline	C	13:49:00	0.02	[C]
0	Baseline	C	13:51:01	0.02	[C]
118	mb 320-71507/1-b	-	13:53:01	0.03	[-]
119	lcs 320-71507/2-b	-	13:55:01	0.73	[-]
120	240-49071-e-2-h	-	13:57:01	0.04	[-]
121	240-49085-e-8-j	-	13:59:01	0.03	[-]
122	240-49085-e-8-k ms	-	14:01:02	0.63	[-]
123	240-49085-e-8-l msd	-	14:03:02	0.56	[-]
124	240-49085-e-15-d	-	14:05:02	0.03	[-]
125	240-49085-e-22-d	-	14:07:02	0.03	[-]
126	240-49085-e-34-d	-	14:09:02	0.03	[-]
127	240-49171-c-6-d	-	14:11:03	0.03	[-]
106	MRL	-	14:13:03	0.06	[-]
103	CCV	-	14:15:03	1.01	[-]
0	CCB	C	14:17:03	0.03	[C]
0	Baseline	C	14:19:03	0.02	[C]
128	240-49171-c-8-d	-	14:21:04	0.03	[-]
129	240-49171-c-10-d	-	14:23:04	0.03	[-]
130	240-49233-c-4-d	-	14:25:04	0.03	[-]
131	240-49233-c-6-d	-	14:27:04	0.03	[-]
132	240-49233-c-8-d	-	14:29:04	0.03	[-]
106	MRL	-	14:31:05	0.06	[-]
103	CCV	-	14:33:05	1.00	[-]
0	CCB	C	14:35:05	0.03	[C]
0	Baseline	C	14:37:05	0.02	[C]

Nitrite/Nitrate:Calibration 1: Peak 3-39

File name: C:\ALPKEM\ALPKEM~2\2015\NITROC~1\042215A.RST
Date: 22-Apr-15
Operator: JCB

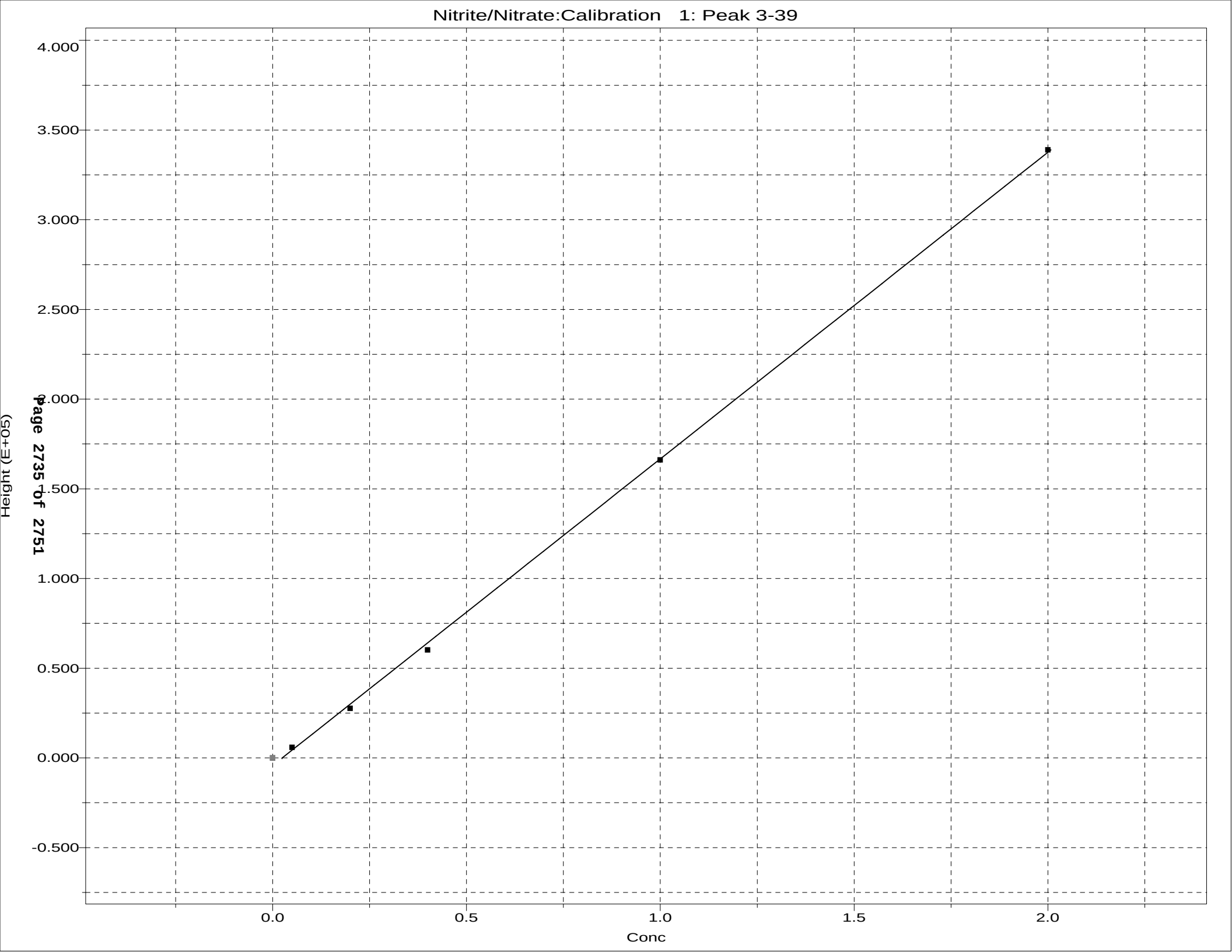
*	Name	Conc	Height
*	Cal 5	2.000000	338988.000000
*	Cal 4	1.000000	166056.375000
*	Cal 3	0.400000	60177.363281
*	Cal 2	0.200000	27608.751953
*	Cal 1	0.050000	5818.102539
*	Cal 0	0.000000	-92.848877

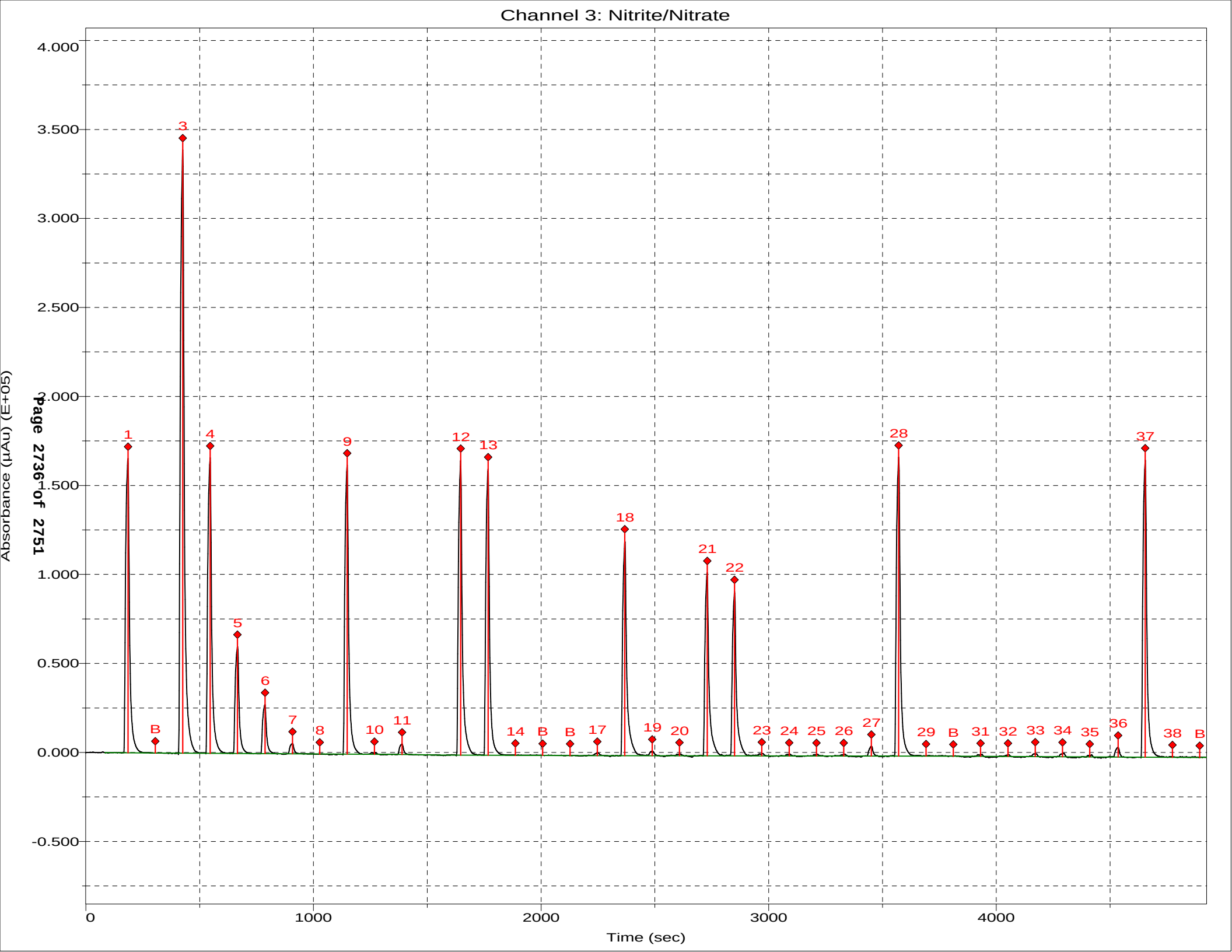
Calib Coef:
y=bx+a
a: (intercept) -4.2368e+03
b: 1.7095e+05

Corr Coef: 0.999754

Carryover: n/a

No Drift Peaks


Nitrite/Nitrate:Calibration 1: Peak 3-39
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
-0.500
Height (E+05)
0.0
0.5
1.0
1.5
2.0
Conc


Channel 3: Nitrite/Nitrate
Absorbance (µAu) (E+05)
Time (sec)
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
-0.500
0
1000
2000
3000
4000
1
B
3
4
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6
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8
9
10
11
12
13
14
B
B
17
18
19
20
21
22
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28
29
B
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32
33
34
35
36
37
38
B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Level I and Level II Review Checklist
General Chemistry

Instrument ID FS4			ws-wc-0050 NCell
Batch 72011	File # 042215A	Date 4/22/15	Analyst JS

Lot Numbers 240-49071, 240-49085, 240-49171,	YES	NO	NA
LEVEL 1 Review: 240-49233			
1. Samples properly preserved/verified	✓		
2. Run setup meets Std criteria (Curve, ICV/ICB, CCV etc.)	✓		
3. Calibration criteria met (R=0.995, R^2=0.990)	✓		
4. Interception criteria for ~~quadratic~~ linear fits + or – ½ the RL JS 4/27/15	✓		
5. Second source std in control	✓		
6. Batch QC in control (LCS,MB,MS/MSD,DCS if necessary)	✓		
7. Calculations checked	✓		
8. QAS/QAPP consulted for client specific requirements	✓		
9. Standard tracking #'s recorded on runlog/benchsheet	✓		
10. Manual integration performed, documented & approved			✓
11. Copy of run log included with data package	✓		
12. Copy of conductivity screen logbook (314.0 only)			✓
LEVEL 1 Data Review:			
1. Benchsheet complete	✓		
2. QAS/QAPP Consulted for client specific data entry	✓		
3. Copy of prep sheet/checklist submitted	✓		
4. NCM(s) submitted			✓

COMMENTS: _____

REVIEWED BY: LW
DATE: 4/28/15

DATA ENTERED BY: JS
DATE: 4/27/15

TestAmerica
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Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-71507 Test: NCell-S

Earliest Holding Time: 5-2-15 / 5-3-15 / 5-4-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA ✓	NA ✓
Method/sample/login/QAS checked and correct		✓
Worksheet Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All samples properly preserved	NA ✓	NA ✓
Weights in anticipated range and not targeted		✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed correctly in TALS	NA ✓	NA ✓
All additional information transcribed into TALS is correct and raw data is attached		✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	**1st Level Reviewer**	**2nd Level Reviewer**
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	**1st Level Reviewer**	**2nd Level Reviewer**
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly		✓

1st Level Reviewer: HJA Date: 4-20-15

2nd Level Reviewer: [signature] Date: 4/20/15

Comments: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Preparation Data Review Checklist

Preparation Batch Number(s): 320-71631 Test: Ncell- S (Hydrolysis)

Earliest Holding Time: 4-23-15

Sample List Tab	1st Level Reviewer	2nd Level Reviewer
Samples identified to the correct method	✓	✓
All necessary NCMs filed (including holding time)	NA	NA
Method/sample/login/QAS checked and correct	✓	✓
Worksheet Tab	1st Level Reviewer	2nd Level Reviewer
All samples properly preserved	NA	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and Cl Check)	✓	✓
The pH is transcribed correctly in TALS	✓	✓
All additional information transcribed into TALS is correct and raw data is attached	✓	✓
Comments are transcribed correctly in TALS	✓	✓
Reagents Tab	1st Level Reviewer	2nd Level Reviewer
All necessary reagents not expired and entered into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Batch Information	1st Level Reviewer	2nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary 'batch information' complete and entered into TALS correctly	✓	✓

1st Level Reviewer: HJA Date: 4-21-15

2nd Level Reviewer: SNE Date: 4/21/15

Comments: _____

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 175658 Batch Start Date: 04/08/15 16:25 Batch Analyst: Matheny, Sarah

Batch Method: Moisture Batch End Date: 04/09/15 14:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-49071-D-1	079SS-0342M-0001-SO	Moisture	T	4.2418 g	13.6548 g	11.7108 g			

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4/8/15
Oven Temp when samples are put in oven	103.5 Degrees C
Time samples were place in the oven	18:24
Date samples were removed from oven	4/9/15
Oven Temp when samples removed from oven	103.9 Degrees C
Time Samples were removed from oven	6:30
Oven ID	002
ID number of the thermometer	Tempguard Box-C #6

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176059 Batch Start Date: 04/08/15 16:00 Batch Analyst: Jones, Diane

Batch Method: Increment, Prep Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-49071-A-2	079SS-0342M-0001,0002-SO	Increment, Prep, Moisture	T	Disagg 4/11					
240-49071-A-3	079SS-0343M-0001-SO	Increment, Prep, Moisture	T	Disagg 4/9					
240-49071-A-4	079SS-0344M-0001-SO	Increment, Prep, Moisture	T	Disagg 4/9					

Batch Notes	
First End time	Ground/Sieved 4/9 and 4/11, split 4/13
First Start time	4/8/15

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 176189 Batch Start Date: 04/13/15 11:34 Batch Analyst: Matheny, Sarah

Batch Method: Moisture Batch End Date: 04/14/15 10:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
240-49071-A-3-A	079SS-0343M-0001-SO	Moisture	T	4.2418 g	16.7965 g	16.4548 g			
240-49071-A-4-A	079SS-0344M-0001-SO	Moisture	T	4.2418 g	19.8830 g	19.4964 g			
240-49071-A-2-CDU	079SS-0342M-0001,0002-SO	Moisture	T	4.2418 g	15.0550 g	14.7884 g			
240-49071-A-2-A	079SS-0342M-0001,0002-SO	Moisture	T	4.2418 g	14.2721 g	14.0378 g			

Batch Notes	
Balance ID	B047 No Unit
Date samples were placed in the oven	4/13/2015
Oven Temp when samples are put in oven	103.2 Degrees C
Time samples were place in the oven	17:23
Date samples were removed from oven	4/14/2015
Oven Temp when samples removed from oven	103.5 Degrees C
Time Samples were removed from oven	8:10
Oven ID	002
ID number of the thermometer	Tempguard Box-C #6

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 71507 Batch Start Date: 04/20/15 08:52 Batch Analyst: Arauz, Horacio J

Batch Method: 353.2 (NCell) Batch End Date: 04/20/15 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HPNCSP 00013			
MB 320-71507/1		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		10.00 g	45.00 mL				
LCS 320-71507/2		353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050		10.00 g	45.00 mL	1 mL			
240-49071-E-2	079SS-0342M-0001 ,0002-SO	353.2 (NCell), 353 (NCell-Hyd), WS-WC-0050	T	10.04 g	45.00 mL				

Batch Notes	
1:1 MeOH/H2O	394159
Acetone Lot #	J.T.BAKER 0000090987
Batch Comment	Pipette HD05018
Centrifuge Tube	BD FALCON 24214177

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 71631 Batch Start Date: 04/21/15 06:29 Batch Analyst: Arauz, Horacio J

Batch Method: 353 (NCell-Hyd) Batch End Date: 04/21/15 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	AnalysisComment			
MB 320-71507/1-A		353 (NCell-Hyd), WS-WC-0050		45.00 mL	40.00 mL	PH-6,3			
LCS 320-71507/2-A		353 (NCell-Hyd), WS-WC-0050		45.00 mL	40.00 mL	PH-6,3			
240-49071-E-2-G	079SS-0342M-0001 ,0002-SO	353 (NCell-Hyd), WS-WC-0050	T	45.00 mL	40.00 mL	PH-6,3			

Batch Notes	
0.45 Filter Vendor/Lot	Millipore R4NA21509
Batch Comment	Pipette HD05018
Centrifuge Tube	BD FALCON 24214177
Sulfuric Acid Lot Number	263550
Millipore Water Dispense Date	4-14-15
NaOH Lot #	361079

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 240-49071-1

SDG No.: CC 79 Area 8

Batch Number: 72011 Batch Start Date: 04/22/15 13:16 Batch Analyst: Baynes, Jason

Batch Method: WS-WC-0050 Batch End Date: 04/22/15 14:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC-353.2-ICV 00046	WC-353.2-L1 00051	WC-353.2-L4 00042			
ICV 320-72011/9		WS-WC-0050		# mL					
MRL 320-72011/11		WS-WC-0050			# mL				
MRL 320-72011/27		WS-WC-0050			# mL				
CCV 320-72011/28		WS-WC-0050				# mL			

Batch Notes	
Nitrocellulose Assay	0.120
Color Reagent 1 ID	WC-353.2Color_00007 e. 06/30/15
NO2/NO3 Indicator ID #	WC-NOxBuffer_00021 e. 10/01/15

Basis	Basis Description

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

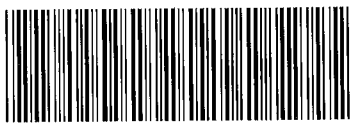
Subcontract Data

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-49071 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

TestAmerica Canton
4101 Shuffel Street, N. W.
North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Chain of Custody Record

031443

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: Test America Prof. # 24009157

TAL-8210 (0713)

Client Contact	Project Manager: AL EASTERDAY	Site Contact: J. DONAHUE	Date: 4-7-15	COC No:
Company Name: ECC	Tel/Fax: 508-229-2270	Lab Contact: MARK LORD	Carrier: LAB PICK UP	1 of 1 COCs
Address: 33 BOSTON POST RD WEST	Analysis Turnaround Time			Sampler:
City/State/Zip: MARLBORO MA 01252	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 508 229 2270	TAT if different from Below _____			Walk-in Client:
Fax: 508-229-7737	☒ 2 weeks			Lab Sampling:
Project Name: RAYMARK GMP	☐ 1 week			
Site: CC 79 AREA 8	☐ 2 days			Job / SDG No.:
P O # 5161.004	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TAL METALS	VOC	SVOC	PCB'S	PESTICIDES	EXPLOSIVES	PROPELLANTS	Sample Specific Notes:
07955-0342M-0001-SO	4-6-15	1630	15M	SO	10			X	X	X	X	X	X	X	FULL SUITE
07955-0342M-0002-SO	↓	1630	↓	↓	1	X	X								MS/MSD
07955-0343M-0001-SO		1400			1		X								
07955-0344M-0001-SO	↓	0000	↓	↓	1		X								
07955-0379-0001-TB	4-6-15	0800	LAB SUPPLIED	DI	2				X						TRIP BLANK

Page 229 of 2751

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
J. Donahue Jeff Donovan	ECC	4-7-15 1655	[signature]	TestAm	4-7-15 1655
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TestAm 4/7/15	1705	[signature]	TA Can	4/8/15 0700
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 41907
Canton Facility

Client ECC Site Name Ravenna

Cooler unpacked by: Gerry Burns

Cooler Received on 4/8/15 Opened on 4/8/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off (TestAmerica Courier) Other

Receipt After-hours: Drop-off Date/Time 4/7/15@1805 Storage Location Cooler

TestAmerica Cooler # Buffalo Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. 1.6 °C Corrected Cooler Temp. 2.1 °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? Yes (No)
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the sampler(s) clearly identified on the COC? Yes (No)
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC425511
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # B501701VB (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-49071-1
SDG Number: CC 79 Area 8

Login Number: 49071
List Number: 2
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 04/14/15 12:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	