



C&S Companies
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May 2, 2013

Mr. Jaspal Singh Walia, P.E.
NYSDEC Region 9
270 Michigan Avenue
Buffalo, New York 14203

Re: *Summary Report of Confirmatory Sampling at East Shoring Area*
BCP Site No. C915260
1001 Main Street in Buffalo, New York

Mr. Walia:

This correspondence provides a summary of the soil boring investigation that was completed on April 15th and 16th at 1001 Main Street by C&S Engineers (C & S). The objective of the investigation was to confirm that soil quality immediately east of the sheet pile shoring along the eastern BCP boundary meets the commercial soil clean up objectives for this project from the surface to 40 feet below ground surface (BGS).

SUBSURFACE INVESTIGATION

A CME 55 geotechnical drill rig was used to advance soil borings at the locations shown on Figure 1. Soil borings were advanced using 3.25 inch hollow stem augers (HSAs). The soil samples were obtained using a two inch diameter split spoon sample. Standard split spoon sampling (every five feet) was conducted from ground surface to a depth of 20 feet; continuous split spoon sampling was conducted from 20 feet to the bottom of each boring (40 feet BGS).

Soil boring locations were spaced approximately 30 feet apart in accordance with the site sampling grid that has been set up with one boring per grid in a north south line approximately 10 feet east of the eastern line of sheet pile. A total of nine soil borings were advanced to a depth of 40 feet BGS.

The breathing area and soils were continuously monitored for volatile organic compounds (VOCs) with a Minirae photo-ionization detector (PID).

Soil samples from each split spoon were collected in plastic bags, sealed and then screened with a PID for the presence of VOCs. Split spoon blow counts (N values), soil types, odors, soil staining, the presence of groundwater and PID readings were noted and placed on a field log for each boring for inclusion in this report (Appendix A).

The soil sample from each boring with the highest PID reading was selected for laboratory analysis. If there were no PID readings of note for samples within a specific soil boring, then a soil sample at the saturated zone was selected for laboratory analysis, or if the location of the saturated zone was unclear during drilling, then the sample was collected at the depth of the known contaminant transport zone at that location (i.e. 38 – 40 feet in borings RB – 8 and EB –

9). Selected samples were placed into pre-cleaned certified Terracore sample vials, placed on ice, and shipped to Test America daily for analysis of VOCs using Method 8260 on a 24 hour turnaround time. A total of nine soil samples were submitted to the contract laboratory for analysis.

FIELD OBSERVATIONS

Eight of the nine borings were advanced to a total depth of 40 feet BGS without incident. EB – 5 hit refusal at 8 feet BGS. A second attempt was made to advance EB – 5 by moving the drill rig six feet to the north where refusal was again encountered at 8 feet BGS. A third attempt was made by moving the drill rig five feet to the west where refusal was again encountered at eight feet BGS. To collect a representative sample from this location, C & S received approval from the NYSDEC to collect the sample to the west of the sheet pile shoring at 30 to 31 feet BGS using an excavator.

A veneer of fill material was present in all borings that was less than five feet in thickness. This was underlain by medium brown fine sand with some silt and in some places red brown clay at depth. In one instance (EB – 9), medium grey fine to medium gravel and sand was encountered near the bottom of the borehole (Appendix 1 for EB -9 boring log). A mild petroleum odor was only detected in samples from EB – 9 from 32 to 40 feet BGS.

Head space screening results of bagged samples with a PID were typically less than 1.0 ppm. However, on occasion, a PID reading from a bagged soil sample was between 1.0 and 5.0 ppm. Only three soil samples had field PID readings greater than 5 ppm: EB – 9 - 34 to 36 feet; EB – 9 - 36 to 38 feet; and EB – 9 - 38 to 40 feet.

ANALYTICAL RESULTS

Confirmatory analytical results from the soil samples submitted for laboratory analysis indicated the presence of the VOCs acetone, ethyl benzene, tetrachloroethene, toluene and xylenes. Acetone was detected in four samples; ethyl benzene was detected in four samples, tetrachloroethene was detected in one sample; toluene was detected in 8 of the samples; and xylenes were detected in five of the samples analyzed.

Comparison of the analytical results to Part 375 Commercial Use SCOs indicates that there were no VOCs detected above the commercial SCOs. A data summary table is provided in Table 1 and the full laboratory reports are provided in Appendix B.

CONCLUSIONS

This soil investigation of soils immediately east of the shoring along the east side of the BCP boundary shows that soil quality with respect to VOCs do not exceed the NYCRR Part 375 SCOs for commercial use to 40 feet BGS, and therefore no additional remediation is proposed for this area of the project.

Should you have any questions regarding this proposal or require additional information, please feel free to contact me at (716) 847-1630.

Sincerely,
C&S ENGINEERS, INC.



Mark Colmerauer
Regional Environmental Service Manager

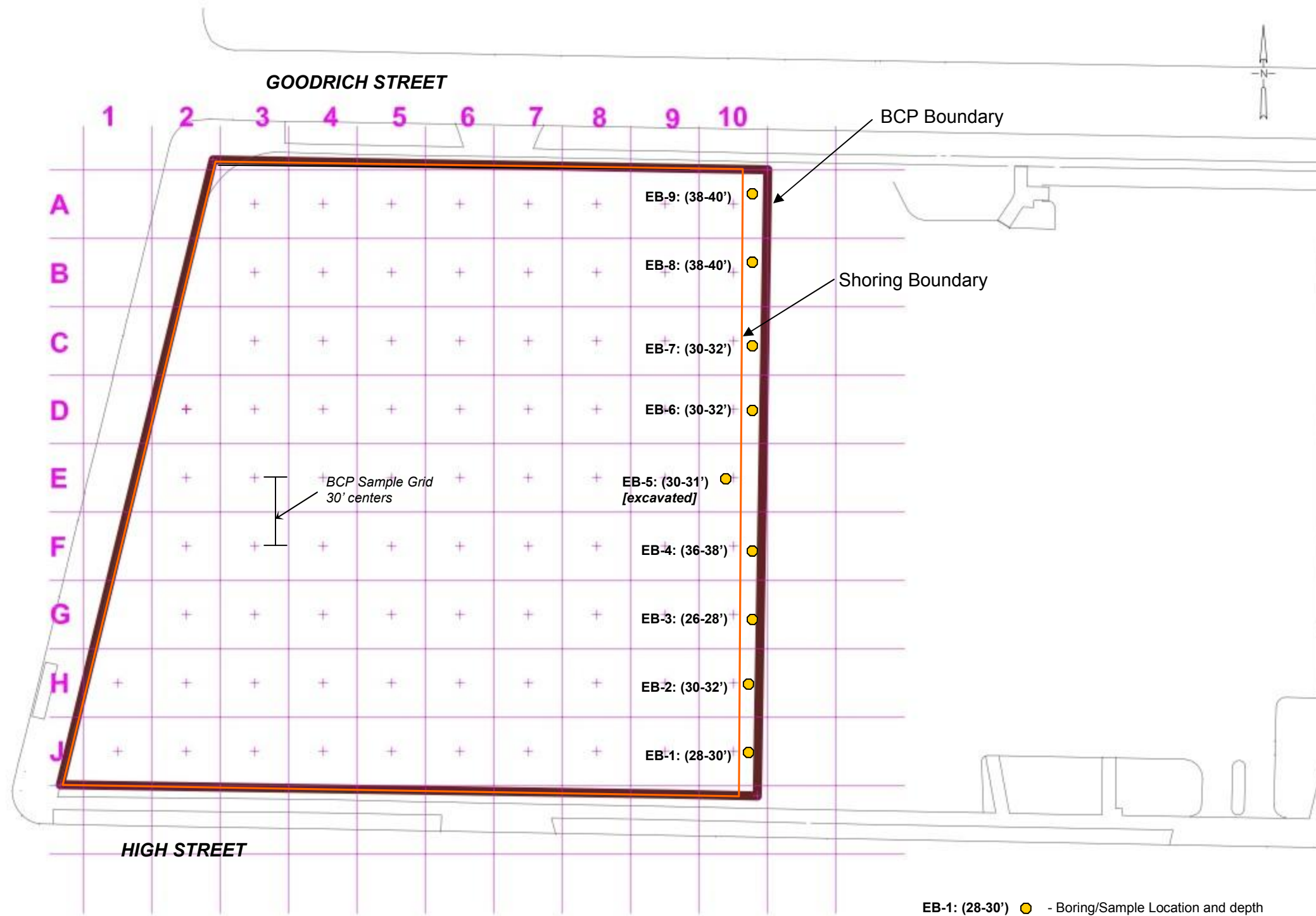
Figure 1 – Confirmatory Sample Locations and Results

Table 1 – Summary of Analytical Data

Appendix A – Soil Boring Logs

Appendix B – Laboratory Analytical Reports

cc: D. Elia, LP Ciminelli
D. Juron-Borgese, Ciminelli Real Estate Corporation
M. Mariacher, Kaleida Properties



EB-1: (28-30') ● - Boring/Sample Location and depth

NOT TO SCALE

1001 Main Street, Buffalo New York
BCP # C915260

FIGURE 1
SAMPLE LOCATIONS



May-13

C & S Engineers

**Table 1. Analytical Results - Volatile Organic Compounds
East Shoring Soil Quality Investigation
1001 Main Street in Buffalo, New York**

Contaminant	CAS #	Commercial SCOs	Sample ID by Soil Boring and Sample Depth								
			EB - 1 28-30'	EB - 2 30 - 32'	EB - 3 26 - 28'	EB - 4 36 - 38'	EB - 5	EB - 6 30 - 32'	EB - 7 30 - 32'	EB - 8 38 - 40"	EB - 9 38 - 40'
Volatile Organic Compounds		Parts per Million (ppm)									
Acetone	67-64-1	500 ^b		.0048 J		.0095 J				.0075 J	.0069 J
Ethylbenzene ^c	100-41-4	390		.00037 J	.00037 J					0.005	.00043 J
Tetrachloroethene	127-18-4	150	.0025 J								
Toluene	108-88-3	500 ^b	.001 JB	.0017 JB	.0019 JB	.00075 JB	0.00055 JB	.00096 JB	.00086 JB	.00091 JB	.00089 JB
Xylene (mixed)	1330-20-7	500 ^b	.00067 J	.0021 J	.0020 J					.00071 J	.0012 J

Results are in milligrams per kilogram (ppm)

APPENDIX A - SOIL BORING LOGS



C&S Engineers, Inc.

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BORING LOG

Boring No.

EB-1

Sheet 1 of:

2

Project No.:

K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date:

4/11/13

Drilling Firm: SJB, Inc

Finish Date:

4/11/13

Groundwater

Depth

Date & Time

Drill Rig:

Inspector:

C. Martin

While Drilling:

27'

04/11/13

Casing:

3.25 HSAs

Rock Core:

Undist:

Before Casing Removal:

Sampler:

2" Split Spoon

Other:

After Casing Removal:

Hammer:

Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine</small> S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small> (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		12"-	<u>FILL (crushed C&D - reworked dark brown Silt and Clay)</u>	12" REC
			6		0.2 ppm
			10		4" asphalt
2			12		
3					
4					
5			3	12"- <u>Sandy SILT (trace fine Sand - moist - brown)</u>	12" REC
			6		0.4 ppm
			6		
6	S-2		8		
7					
8					
9					
10			2	10"- <u>Silty SAND (fine Sand - 10 to 20% Silt - brown - moist)</u>	14" REC
			4	4"- <u>Silty CLAY (red brown - moist)</u>	0.4 ppm
11	S-3		11		
			19		
12					
13					
14					
15			10	12"- <u>Sandy SILT (trace fine Sand - brown - moist)</u>	12" REC
			21		0.5 ppm
16	S-4		50/2		
17					
18					
19					
20			13	12"- <u>Same as previous</u>	12" REC
			36		0.8 ppm
21	S-5		28		
			50		
22			39	12"- <u>Silty SAND (med Sand - dark brown - moist to wet - 10 to 20% Silt)</u>	12" REC
			38		0.7 ppm
23	S-6		31		
			41		



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BORING LOG

Boring No.

EB-1

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/11/13

Finish Date:

4/11/13

Inspector:

C.Martin

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine</small> S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small> (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24			10	14"- <u>SAND (med to coarse - moist to wet) with some Gravel (dark grey - subrounded - 1/2" & smaller)</u>	14" REC
			20		0.7 ppm
25	S-7		19		
			22		
26			36	14"- <u>Same as previous</u>	14" REC
			35		0.5 ppm
27	▼		45		
			37		
28	S-8		20	12"- <u>SAND (saturated- moist to wet) with some Gravel (dark grey - subrounded - 1/2" & smaller)</u>	12" REC
			22		0.3 ppm
29	S-9		23		
			21		
30			18	6"- <u>Silty CLAY (some 20-30% Silt - brown - moist)</u>	6" REC
			10	<u>Sample 28 - 30' analyzed for VOCs</u>	0.4 ppm
31	S-10		16		
			18		
32			11	24"- <u>SAND (fine to med - brown - moist)</u>	24" REC
			10		0.4 ppm
33	S-11		15		
			22		
34			10	24"- <u>SILT (brown - moist)</u>	24" REC
			11		1.1 ppm
35	S-12		11		
			12		
36			9	24"- <u>Silty SAND (fine Sand - brown - moist) with imbedded Gravel (grey subrounded - 1/2" & smaller)</u>	24" REC
			15		0.3 ppm
37			17		
			24		
38			3	13"- <u>Same as previous</u>	13" REC
			8		0.4 ppm
39	S-13		7		
			6		
40			<u>End of Boring at 40 ft</u>		
41					
42					
43					
44					
45					



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BORING LOG

Boring No.

EB-2

Sheet 1 of:

2

Project No.:

K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date:

4/11/13

Drilling Firm: SJB, Inc

Finish Date:

4/12/13

Groundwater

Depth

Date & Time

Drill Rig:

CME - 55 ATV

Inspector:

C. Martin

While Drilling:

30

04/12/13

Casing:

3.25 HSAs

Rock Core:

Undist:

Before Casing Removal:

Sampler:

2" Split Spoon

Other:

After Casing Removal:

Hammer:

Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine</small> S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small> (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		38	<u>Asphalt and medium brown Sand (fill) - dry</u>	Recovery = 6" PID = 0.4 ppm
			24		
			14		
2			11		
3					
4					
5					
6	S-2		5	<u>Medium brown Sand with some silt - dry</u>	Recovery = 18" PID = 0.6 ppm
			7		
			11		
			17		
8					
9					
10					
11	S-3		4	<u>Medium brown Clay with some sand - moist</u>	Recovery = 16" PID = 0.5 ppm
			7		
			6		
			9		
13					
14					
15					
16	S-4		10	<u>Medium brown Clay, hard, sticky - moist</u>	Recovery = 22" PID = 1.4 ppm
			36		
			41		
			50//4		
18					
19					
20					
21	S-5		13	<u>Light to medium brown Sand, some silt - dry</u>	Recovery = 8" PID = 0.7 ppm
			35		
			49		
22			48		
23	S-6		12	<u>Medium brown Sand, some silt - moist</u>	Recovery = 9" PID = 1.1 ppm
			37		



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BORING LOG

Boring No.

EB-2

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/11/13

Finish Date:

4/12/13

Inspector:

C.Martin

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine</small> S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small> (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24			46 50//4		
25					
26					
27	S-7		29 30 34	<u>Medium brown Silt with petroleum odor - moist</u>	Recovery = 13" PID = 1.1 ppm
28			50//4		
29	S-7		13 22	<u>Medium brown Silt with trace of clay - moist</u>	Recovery = 16" PID = 0.5 ppm
30	▼		23 21		
31	S-8		11 28 34	<u>Medium brown Silt with some sand, some clay - saturated</u> <i>Sample 30 - 32' analyzed for VOCs</i>	Recovery = 16" PID = 1.3 ppm
32			41		
33	S-9		WofH 46 47	<u>Medium brown Clay with some silt - saturated</u>	Recovery = 17" PID = 0.9 ppm
34			50//3		
35	S-10		WofH 9 15	<u>Medium brown Clay, some sand - saturated</u>	Recovery = 14" PID = 1.6 ppm
36			17		
37	S-11		10 12 17	<u>Medium brown Clay, some silt - saturated</u>	Recovery = 19" PID = 1.2 ppm
38			18		
39	S-12		2 2 3	<u>Medium brown Sand, some silt - saturated</u>	Recovery = 16" PID = 0.9 ppm
40			4	<u>End of Boring at 40 feet</u>	
41					
42					
43					
44					
45					



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BORING LOG

Boring No.

EB-3

Sheet 1 of:

2

Project No.:

K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date:

4/15/13

Drilling Firm: SJB, Inc

Finish Date:

4/15/13

Groundwater

Depth

Date & Time

Drill Rig: CME - 55 ATV

Inspector:

N. Wohlabough

While Drilling:

27'

04/15/13

Casing: 3.25 HSAs

Rock Core:

Undist:

Before Casing Removal:

31.5'

04/15/13

Sampler: 2" Split Spoon

Other:

After Casing Removal:

Hammer: Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS
1	S-1		0	<u>Asphalt and fill material (Sand)- dry</u>	Recovery = 11" PID = 0.6 ppm
			8		
			87		
2					
3					
4					
5					
6	S-2		7	<u>Medium brown coarse Sand, some silt - moist</u>	Recovery = 18" PID = 0.6 ppm
			14		
			18		
7			17		
8					
9					
10					
11	S-3		9	<u>Medium brown Silt, some clay, some fine sand - moist</u>	Recovery = 17" PID = 0.6 ppm
			5		
			19		
12			25		
13					
14					
15					
16	S-4		25	<u>Medium brown very fine Sand, some silt - moist</u>	Recovery = 22" PID = 0.5 ppm
			34		
			44		
17			41		
18					
19					
20					
21	S-5		31	<u>Medium brown fine Sand, some silt - moist</u>	Recovery = 20" PID = 0.5 ppm
			43		
			50/4		
22					
23	S-6		45	<u>Medium brown fine Sand, some silt - moist</u>	Recovery = 9" PID = 0.9 ppm
			50/3		



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BORING LOG

Boring No.

EB-3

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/15/13

Finish Date:

4/15/13

Inspector:

N. Wohlabaugh

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24					
25	S-7		24	<u>Medium brown very fine Sand, some silt - moist</u>	Recovery = 19"
			32		PID = 0.6 ppm
			40		
26			50		
27	S-8		36	<u>Medium brown very fine Sand, some silt - saturated at 27'</u>	Recovery = 15"
			41	<u>Sample 26 - 28' analyzed for VOCs</u>	PID = 0.9 ppm
			49		
28			49		
29	S-9		9	<u>Medium brown fine Sand, some silt - saturated at 27'</u>	Recovery = 19"
			11		PID = 1.0 ppm
			18		
30			21		
31	S-10		24	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 16"
			32	<u>Water measured in hole at 31.5'</u>	PID = 1.6 ppm
			39		
32			48		
33	S-11		27	<u>Medium brown fine Sand, some silt, some clay - moist</u>	Recovery = 24"
			38		PID = 1.3 ppm
34			50/3		
35	S-12		14	<u>Medium brown fine to medium Sand, some silt - saturated</u>	Recovery = 18"
			27		PID = 0.8 ppm
			29		
36			31		
37	S-13		12	<u>Medium brown medium grained Sand, some silt - saturated</u>	Recovery = 24"
			17		PID = 0.8 ppm
			27		
38			36		
39	S-14		WofH	<u>Medium brown medium grained Sand, some silt - saturated</u>	Recovery = 12"
			7		PID = 1.2 ppm
			13		
40			18	<u>End of Boring at 40 feet</u>	
41					
42					
43					
44					
45					

c - coarse
 m - medium
 f - fine

a - and - 35-50%
 s - some - 20-35%
 l - little - 10-20%
 t - trace - 0-10%



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BORING LOG

Boring No.

EB-4

Sheet 1 of:

2

Project No.:

K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date:

4/15/13

Drilling Firm: SJB, Inc

Finish Date:

4/15/13

Groundwater

Depth

Date & Time

Drill Rig:

CME - 55 ATV

Inspector:

N. Wohlabaugh

While Drilling:

28'

04/15/13

Casing:

3.25 HSAs

Rock Core:

Undist:

Before Casing Removal:

Sampler:

2" Split Spoon

Other:

After Casing Removal:

Hammer:

Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey</small>	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small>	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		6	<u>Asphalt and sand fill - dry</u>		Recovery = 12"
			13			PID = 0.5 ppm
			26			
2			7			
3						
4						
5						
6	S-2		8	<u>Medium brown fine Sand, some medium gravel, some silt - moist</u>		Recovery = 6"
			11			PID = 0.6 ppm
			12			
7			7			
8						
9						
10						
11	S-3		6	<u>Medium brown fine Sand, 6" of maroon clay - moist</u>		Recovery = 18"
			4			PID = 0.4 ppm
			14			
			20			
12						
13						
14						
15						
16	S-4		20	<u>Medium brown fine Sand, some silt, little medium gravel - moist</u>		Recovery = 23"
			23			PID = 0.7 ppm
			33			
			42			
17						
18						
19						
20						
21	S-5		47	<u>Medium brown fine Sand, some silt, little medium gravel - moist</u>		Recovery = 8"
			50/3			PID = 0.8 ppm
22						
23	S-6		15	<u>Medium brown fine Sand - moist</u>		Recovery = 6"
			21			PID = 0.0 ppm



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BORING LOG

Boring No.

EB-4

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/15/13

Finish Date:

4/15/13

Inspector:

N. Wohlabaugh

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, moisture, core run, RQD, % recovered)	
						c - coarse m - medium f - fine
24			50/3			
25	S-7		28	<u>Medium brown fine Sand, some silt, little medium gravel - moist</u>	Recovery = 20"	
			31		PID = 0.2 ppm	
			41			
26			48			
27	S-8		50/4	<u>Medium brown fine Sand, some medium gravel - moist</u>	Recovery = 2"	
					PID = 0.2 ppm	
28						
29	S-9		31	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 14"	
				42		PID = 0.0 ppm
30			50/4			
31	S-10		22	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 18"	
				29		PID = 0.3 ppm
				31		
32			31			
33	S-11		20	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 24"	
				23	<u>Groundwater measured at 32'</u>	PID = 0.6 ppm
				36		
34			42			
35	S-12		18	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 15"	
				28		PID = 0.5 ppm
				37		
36			45			
37	S-13		15	<u>Medium brown fine Sand, some silt, little gravel- saturated</u>	Recovery = 24"	
				34	<u>Sample 36 - 38' analyzed for VOCs</u>	PID = 4.0 ppm
				27		
38			37			
39	S-14		5	<u>Medium brown fine Sand, some silt, little gravel- saturated</u>	Recovery = 16"	
				6		PID = 0.0 ppm
				12		
40			6	<u>End of Boring at 40 feet</u>		
41						
42						
43						
44						
45						



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BORING LOG

Boring No. EB-5
Sheet 1 of: 1
Project No.: K11.002.001

Project Name:	1001 Main Street - Brownfield Cleanup	Surface Elev.:	
Location:	1001 Main Street, Buffalo, NY	Datum:	
Client:	Kalieda Health	Start Date:	4/15/13
Drilling Firm:	SJB, Inc	Finish Date:	4/15/13
Groundwater	Depth	Date & Time	Drill Rig: CME - 55 ATV
While Drilling:			Casing: 3.25 HSAs Rock Core:
Before Casing Removal:			Sampler: 2" Split Spoon Other:
After Casing Removal:			Inspector: N. Wohlabaugh
			Undist:
			Hammer: Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS
				c - coarse m - medium f - fine a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	(e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
				S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	
1	S-1		7	<u>Gravel, brick and sand fill - dry</u>	Recovery = 13"
2			7		PID = 1.3 ppm
3			10		
4					
5					
6	S-2		3	<u>Gravel, brick and sand fill - dry</u>	Recovery = 11"
7			6		PID = 0.4 ppm
8			7		
9			13		
10					
11				<u>Refusal at 8' - End of Boring</u>	
12					
13				<u>First boring abandoned. Retried 5 feet north with refusal at 8'</u>	
14					<u>Retried 5 feet west with refusal at 8'</u>
15				<u>Note: Test pit 8 feet west of original boring excavated in shored construction area. Sample collected from test pit at 30-31 ft BGS</u>	



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BORING LOG

Boring No.

EB-6

Sheet 1 of:

2

Project No.:

K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date:

4/16/13

Drilling Firm: SJB, Inc

Finish Date:

4/16/13

Groundwater

Depth

Date & Time

Drill Rig:

CME - 55 ATV

Inspector:

N. Wohlabaugh

While Drilling:

26'

04/16/13

Casing:

3.25 HSAs

Rock Core:

Undist:

Before Casing Removal:

Sampler:

2" Split Spoon

Other:

After Casing Removal:

Hammer:

Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	MATERIAL DESCRIPTION a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		16		<u>Asphalt and gravel Fill - dry</u>	Recovery = 11" PID = NA
2			50//4			
3						
4						
5						
6	S-2		6		<u>Red brown Clay, some sand, some silt, little gravel - moist</u>	Recovery = 16" PID = 0.0 ppm
6			5			
7			4 6			
8						
9						
10						
11	S-3		16		<u>Light brown Sand, some silt - dry</u>	Recovery = 24" PID = 0.2 ppm
11			28			
12			36 42			
12						
13						
14						
15						
16	S-4		16		<u>Medium brown fine Sand upper 6", light brown Sand lower 6" - dry</u>	Recovery = 14" PID = 0.0 ppm
16			36			
17			50//4			
18						
19						
20						
21	S-5		25		<u>Light brown upper 6", medium brown Sand, some silt lower 18" - dry</u>	Recovery = 24" PID = 0.2 ppm
21			34			
22			40			
22			48			
23	S-6		40		<u>Medium brown Sand - moist</u>	Recovery = 9" PID = 0.0 ppm
23			50//4			



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BORING LOG

Boring No.

EB-6

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/16/13

Finish Date:

4/16/13

Inspector:

N. Wohlabaugh

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine MATERIAL DESCRIPTION S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24						
25	S-7		11	<u>Light brown fine Sand, some silt - saturated at bottom</u>		Recovery = 20"
			25			PID = 0.0 ppm
			29			
26	▼		29			
			26	<u>Medium brown very fine Sand, some silt - saturated</u>		Recovery = 16"
27	S-8		26			PID = 0.3 ppm
			29			
28			25			
			10	<u>Medium brown very fine Sand, some silt - saturated</u>		Recovery = 17"
29	S-9		12			PID = 0.3 ppm
			9			
30			10			
			4	<u>Medium brown Sand, some silt - saturated</u>		Recovery = 16"
31	S-10		18	<u>Sample 30 - 32' analyzed for VOCs</u>		PID = 0.2 ppm
			24			
32			29			
			20	<u>Medium brown Sand, some silt - saturated</u>		Recovery = 24"
33	S-11		29			PID = 0.0 ppm
			32			
34			45			
			34	<u>Medium brown Sand, some silt - saturated</u>		Recovery = 20"
35	S-12		36			PID = 0.0 ppm
			44			
36			35			
			10	<u>Medium grey medium Sand, some silt, little gravel- saturated</u>		Recovery = 16"
37	S-13		11			PID = 0.1 ppm
			15			
38			16			
			4	<u>Medium grey medium to coarse Sand, fine gravel lower 6" - saturated</u>		Recovery = 21"
39	S-14		6			PID = 0.5 ppm
			5			
40			10	<u>End of Boring at 40 feet</u>		
41						
42						
43						
44						
45						



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BORING LOG

Boring No. EB-7

Sheet 1 of: 2

Project No.: K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date: 4/16/13

Drilling Firm: SJB, Inc

Finish Date: 4/16/13

Groundwater **Depth** **Date & Time** **Drill Rig:** CME - 55 ATV

Inspector: N. Wohlabaugh

While Drilling: 28' 04/16/13 **Casing:** 3.25 HSAs **Rock Core:**

Undist:

Before Casing Removal: **Sampler:** 2" Split Spoon **Other:**

After Casing Removal: **Hammer:** Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse m - medium f - fine S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		9	<u>Asphalt brick and stone Fill - dry</u>	Recovery = 12" PID = 0.0 ppm
			21		
2			15		
3					
4					
5					
6	S-2		17	<u>Medium grey-brown fine Sand, some silt- dry</u>	Recovery = 15" PID = 0.0 ppm
			17		
7			27		
			24		
8					
9					
10					
11	S-3		11	<u>Medium grey-brown fine Sand, some silt- dry</u>	Recovery = 14" PID = 0.1 ppm
			25		
12			31		
			41		
13					
14					
15					
16	S-4		25	<u>Medium brown fine Sand, some silt - dry</u>	Recovery = 15" PID = 0.0 ppm
			28		
17			32		
			35		
18					
19					
20					
21	S-5		18	<u>Medium brown fine Sand, some silt - dry</u>	Recovery = 15" PID = 0.1 ppm
			37		
22			42		
			44		
23	S-6		50/4	<u>Medium brown fine Sand, some silt - dry</u>	Recovery = 4" PID = 1.5 ppm



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BORING LOG

Boring No.

EB-7

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/16/13

Finish Date:

4/16/13

Inspector:

N. Wohlabaugh

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine</small> S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small> (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24					
25	S-7		15	<u>Medium brown fine Sand, some silt - moist</u>	Recovery = 9"
			50//4		PID = 1.4 ppm
26					
27	S-8		18	<u>Medium brown fine Sand, some silt - moist</u>	Recovery = 17"
			20		PID = 1.7 ppm
28			24		
			27		
29	S-9		19	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 20"
			23		PID = 1.0 ppm
30			28		
			35		
31	S-10		8	<u>Medium brown medium to coarse Sand, some silt - saturated</u>	Recovery = 13"
			9	<u>Sample 30 - 32' analyzed for VOCs</u>	PID = 1.7 ppm
32			21		
			28		
33	S-11		26	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 21"
			32		PID = 0.8 ppm
34			33		
			35		
35	S-12		15	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 23"
			19		PID = NA
36			30		
			28		
37	S-13		15	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 20"
			19		PID = NA
38			14		
			12		
39	S-14		13	<u>Medium brown fine Sand, some silt - saturated</u>	Recovery = 18"
			10		PID = NA
40			10		
			8	<u>End of Boring at 40 feet</u>	
41					
42					
43					
44					
45					



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BORING LOG

Boring No.

EB-8

Sheet 1 of:

2

Project No.:

K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date:

4/16/13

Drilling Firm: SJB, Inc

Finish Date:

4/16/13

Groundwater

Depth

Date & Time

Drill Rig:

CME - 55 ATV

Inspector:

N. Wohlabaugh

While Drilling:

26'

04/16/13

Casing:

3.25 HSAs

Rock Core:

Undist:

Before Casing Removal:

Sampler:

2" Split Spoon

Other:

After Casing Removal:

Hammer:

Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS
				c - coarse m - medium f - fine a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10% S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	(e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		0	<u>Asphalt and gravel Fill, underlain by red brown Clay - moist</u>	Recovery = 8"
			11		PID = 0.1 ppm
2			11		
			7		
3					
4					
5					
6			3	<u>Red-brown Clay with 6" of red-brown medium Sand atbottom - moist</u>	Recovery = 21"
7	S-2		3		PID = 0.0 ppm
			5		
8			4		
9					
10					
11			29	<u>Light brown fine Sand, some silt, loose - dry</u>	Recovery = 10"
12	S-3		40		PID = 0.0 ppm
			10		
13					
14					
15					
16			16	<u>Medium brown fine Sand, some silt top 8", the Light brown fine Sand, loose - dry</u>	Recovery = 23"
17	S-4		35		PID = 0.0 ppm
			43		
18			36		
19					
20					
21			24	<u>Light brown fine Sand, some sil, loose - dry</u>	Recovery = 13"
22	S-5		35		0.0 ppm
			45		
23	S-6		48		
			49	<u>Fine to medium brown light fine Sand, some silt - dry</u>	Recovery = 8"
			50/4		PID = 0.1 ppm



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BORING LOG

Boring No.

EB-8

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/16/13

Finish Date:

4/16/13

Inspector:

N. Wohlabaugh

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION <small>c - coarse m - medium f - fine S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey</small>	COMMENTS <small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small> (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24					
25	S-7		16	<u>Medium brown fine Sand, some silt, loose - wet</u>	Recovery = 23"
			44		PID = 0.0 ppm
			49		
26	▼		45		
			46	<u>Medium brown fine to medium Sand, some silt, loose - saturated</u>	Recovery = 8"
27	S-8		50//4		PID = 0.1 ppm
28					
			28	<u>Medium brown fine to medium Sand, some silt, loose - saturated</u>	Recovery = 16"
29	S-9		36		PID = 0.0 ppm
			50//4		
30					
			28	<u>Medium brown fine to medium Sand, some silt, loose - saturated</u>	Recovery = 10"
31	S-10		30		PID = 0.0 ppm
			42		
32			49		
			48	<u>Medium brown fine to medium Sand, some silt, loose - saturated</u>	Recovery = 12"
33	S-11		50//4		PID = 0.8 ppm
34					
			15	<u>Medium brown fine to medium Sand upper 6", then red-brown Clay - moist</u>	Recovery = 24"
35	S-12		38	<u>to wet</u>	PID = 3.4 ppm
			25		
36			48		
			38	<u>Medium brown fine to medium Sand, some silt, loose - saturated</u>	Recovery = 21"
37	S-13		39		PID = 1.6 ppm
			50//4		
38					
			9	<u>Medium brown fine to medium Sand, some silt, loose - saturated</u>	Recovery = 21"
39	S-14		11	<u>Sample 38 - 40 analyzed for VOCs</u>	PID = 0.7 ppm
			18		
40			31	<u>End of Boring at 40 feet</u>	
41					
42					
43					
44					
45					



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BORING LOG

Boring No. EB-9

Sheet 1 of: 2

Project No.: K11.002.001

Project Name: 1001 Main Street - Brownfield Cleanup

Surface Elev.:

Location: 1001 Main Street, Buffalo, NY

Datum:

Client: Kalieda Health

Start Date: 4/16/13

Drilling Firm: SJB, Inc

Finish Date: 4/16/13

Groundwater **Depth** **Date & Time** **Drill Rig:** CME - 55 ATV

Inspector: N. Wohlabaugh

While Drilling: 28' 04/16/13 **Casing:** 3.25 HSAs **Rock Core:**

Undist:

Before Casing Removal: **Sampler:** 2" Split Spoon **Other:**

After Casing Removal: **Hammer:** Auto-hammer

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	<small>c - coarse m - medium f - fine</small> MATERIAL DESCRIPTION <small>S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey</small>	<small>a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%</small>	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	S-1		14	<u>Gravel and sand Fill - dry</u>		Recovery = 10" PID = 0.8 ppm
			11			
			8			
2			7			
3						
4						
5						
6	S-2		3	<u>Red brown fine to medium Sand, some silt - dry</u>		Recovery = 21" PID = 0.8 ppm
			5			
			8			
7			10			
8						
9						
10						
11	S-3		15	<u>Medium brown fine to medium Sand, some silt, loose - dry to slightly moist</u>		Recovery = 20" PID = 0.5 ppm
			26			
			31			
12			42			
13						
14						
15						
16	S-4		31	<u>Medium brown fine to medium Sand, some silt, loose - dry to slightly moist</u>		Recovery = 13" PID = 0.9 ppm
			49			
			50//4			
17						
18						
19						
20						
21	S-5		18	<u>Medium brown fine Sand, some silt - slightly moist</u>		Recovery = 23" PID = 0.9 ppm
			27			
			36			
22			42			
23	S-6		48	<u>Not Available</u>		Recovery = NA PID = NA
			50//2			



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BORING LOG

Boring No.

EB-9

Sheet 2 of:

2

Project No.:

K11.002.001

Start Date:

4/16/13

Finish Date:

4/16/13

Inspector:

N. Wohlabaugh

Project Name: 1001 Main Street - Brownfield Cleanup

Location: 1001 Main Street, Buffalo, NY

Client: Kalieda Health

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine	MATERIAL DESCRIPTION S - Sand, \$ - Silt, G - Gravel, C - Clay, cly - clayey	a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24							
25	S-7		16		<u>Medium brown fine Sand, some silt - wet</u>		Recovery = 19"
			30				PID = 2.9 ppm
			40				
26			43				
			50/4		<u>Medium brown fine Sand, some silt - wet</u>		Recovery = 4"
27	S-8						PID = 4.2 ppm
28	▼						
29	S-9		22		<u>Medium brown fine Sand, some silt, little clay - saturated</u>		Recovery = 20"
			40				PID = 3.5 ppm
			33				
30			45				
31	S-10		27		<u>Medium brown fine Sand, some silt, little clay - saturated</u>		Recovery = 15"
			36				PID = 4.0 ppm
			37				
32			40				
33	S-11		8		<u>Medium brown fine Sand, some silt - saturated</u>		Recovery = 17"
			12		<u>Slight petroleum odor</u>		PID = 2.2 ppm
			12				
34			15				
35	S-12		16		<u>Medium to dark grey medium to coarse Sand, some coarse gravel - saturated</u>		Recovery = 23"
			23		<u>Slight petroleum odor</u>		PID = 5.2 ppm
			17				
36			27				
37	S-13		16		<u>Medium to dark grey Gravel, some coarse sand - saturated</u>		Recovery = 14"
			18		<u>Slight petroleum odor</u>		PID = 6.3 ppm
			22				
38			24				
39	S-14		12		<u>Medium to dark grey coarse Sand, bottom 6" is red brown very fine Sand, some silt - saturated; slight petroleum odor</u>		Recovery = 20"
			18				PID = 6.9 ppm
			21		<u>Sample 38 - 40' analyzed for VOCs</u>		
40			30		<u>End of Boring at 40 feet</u>		
41							
42							
43							
44							
45							

APPENDIX B - ANALYTICAL DATA REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-36330-1

Client Project/Site: 979-1001 Main St., Buffalo Brownfields

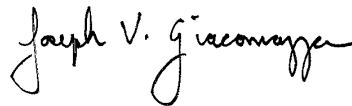
For:

C&S Engineers, Inc.

90 Broadway

Buffalo, New York 14203

Attn: Mr. Mark Colmerauer



Authorized for release by:

4/16/2013 2:14:44 PM

Joe Giacomazza

Project Administrator

joe.giacomazza@testamericainc.com

Designee for

Sally Hoffman

Project Manager II

sally.hoffman@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Job ID: 480-36330-1

Laboratory: TestAmerica Buffalo

Narrative

**Job Narrative
480-36330-1**

Receipt

The samples were received on 4/15/2013 11:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA

Method(s) 8260B: The method blank for batch 113009 contained methylene chloride and toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

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Detection Summary

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Client Sample ID: EB-1 28-30

Lab Sample ID: 480-36330-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.5	J	3.8	0.51	ug/Kg	1	☼	8260B	Total/NA
Toluene	1.0	J B	3.8	0.29	ug/Kg	1	☼	8260B	Total/NA
Xylenes, Total	0.67	J	7.6	0.64	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: EB-2 30-32

Lab Sample ID: 480-36330-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	22	3.7	ug/Kg	1	☼	8260B	Total/NA
Cyclohexane	1.9	J	4.4	0.62	ug/Kg	1	☼	8260B	Total/NA
Ethylbenzene	0.37	J	4.4	0.30	ug/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	3.3	J	4.4	0.67	ug/Kg	1	☼	8260B	Total/NA
Toluene	1.7	J B	4.4	0.33	ug/Kg	1	☼	8260B	Total/NA
Xylenes, Total	2.1	J	8.8	0.74	ug/Kg	1	☼	8260B	Total/NA

Client Sample ID: EB-3 26-28

Lab Sample ID: 480-36330-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	1.9	J	4.4	0.62	ug/Kg	1	☼	8260B	Total/NA
Ethylbenzene	0.37	J	4.4	0.30	ug/Kg	1	☼	8260B	Total/NA
Methylcyclohexane	3.2	J	4.4	0.67	ug/Kg	1	☼	8260B	Total/NA
Toluene	1.9	J B	4.4	0.33	ug/Kg	1	☼	8260B	Total/NA
Xylenes, Total	2.0	J	8.8	0.74	ug/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Client Sample ID: EB-1 28-30

Lab Sample ID: 480-36330-1

Date Collected: 04/11/13 15:30

Matrix: Solid

Date Received: 04/15/13 11:40

Percent Solids: 89.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.8	0.28	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,1,2,2-Tetrachloroethane	ND		3.8	0.62	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,1,2-Trichloroethane	ND		3.8	0.49	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.8	0.87	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,1-Dichloroethane	ND		3.8	0.46	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,1-Dichloroethene	ND		3.8	0.47	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,2,4-Trichlorobenzene	ND		3.8	0.23	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.9	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,2-Dibromoethane	ND		3.8	0.49	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,2-Dichlorobenzene	ND		3.8	0.30	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,2-Dichloroethane	ND		3.8	0.19	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,2-Dichloropropane	ND		3.8	1.9	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,3-Dichlorobenzene	ND		3.8	0.20	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
1,4-Dichlorobenzene	ND		3.8	0.53	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
2-Hexanone	ND		19	1.9	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
2-Butanone (MEK)	ND		19	1.4	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		19	1.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Acetone	ND		19	3.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Benzene	ND		3.8	0.19	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Bromodichloromethane	ND		3.8	0.51	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Bromoform	ND		3.8	1.9	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Bromomethane	ND		3.8	0.34	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Carbon disulfide	ND		3.8	1.9	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Carbon tetrachloride	ND		3.8	0.37	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Chlorobenzene	ND		3.8	0.50	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Dibromochloromethane	ND		3.8	0.49	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Chloroethane	ND		3.8	0.86	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Chloroform	ND		3.8	0.24	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Chloromethane	ND		3.8	0.23	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
cis-1,2-Dichloroethene	ND		3.8	0.49	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
cis-1,3-Dichloropropene	ND		3.8	0.55	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Cyclohexane	ND		3.8	0.53	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Dichlorodifluoromethane	ND		3.8	0.31	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Ethylbenzene	ND		3.8	0.26	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Isopropylbenzene	ND		3.8	0.57	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Methyl acetate	ND		3.8	0.71	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Methyl tert-butyl ether	ND		3.8	0.37	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Methylcyclohexane	ND		3.8	0.58	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Methylene Chloride	ND		3.8	1.8	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Styrene	ND		3.8	0.19	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Tetrachloroethene	2.5 J		3.8	0.51	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Toluene	1.0 J B		3.8	0.29	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
trans-1,2-Dichloroethene	ND		3.8	0.39	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
trans-1,3-Dichloropropene	ND		3.8	1.7	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Trichloroethene	ND		3.8	0.84	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Trichlorofluoromethane	ND		3.8	0.36	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Vinyl chloride	ND		3.8	0.46	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1
Xylenes, Total	0.67 J		7.6	0.64	ug/Kg	☼	04/15/13 20:05	04/15/13 23:20	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Client Sample ID: EB-1 28-30

Date Collected: 04/11/13 15:30

Date Received: 04/15/13 11:40

Lab Sample ID: 480-36330-1

Matrix: Solid

Percent Solids: 89.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	04/15/13 20:05	04/15/13 23:20	1
Toluene-d8 (Surr)	96		71 - 125	04/15/13 20:05	04/15/13 23:20	1
4-Bromofluorobenzene (Surr)	106		72 - 126	04/15/13 20:05	04/15/13 23:20	1

Client Sample ID: EB-2 30-32

Date Collected: 04/12/13 15:30

Date Received: 04/15/13 11:40

Lab Sample ID: 480-36330-2

Matrix: Solid

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.72	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,1-Dichloroethane	ND		4.4	0.54	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,2-Dibromoethane	ND		4.4	0.57	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,2-Dichlorobenzene	ND		4.4	0.35	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,3-Dichlorobenzene	ND		4.4	0.23	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
1,4-Dichlorobenzene	ND		4.4	0.62	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Acetone	4.8	J	22	3.7	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Benzene	ND		4.4	0.22	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Bromomethane	ND		4.4	0.40	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Carbon tetrachloride	ND		4.4	0.43	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Dibromochloromethane	ND		4.4	0.57	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Chloroethane	ND		4.4	1.0	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Chloromethane	ND		4.4	0.27	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
cis-1,2-Dichloroethene	ND		4.4	0.57	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
cis-1,3-Dichloropropene	ND		4.4	0.64	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Cyclohexane	1.9	J	4.4	0.62	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Ethylbenzene	0.37	J	4.4	0.30	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Isopropylbenzene	ND		4.4	0.67	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Methyl acetate	ND		4.4	0.82	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Methylcyclohexane	3.3	J	4.4	0.67	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Styrene	ND		4.4	0.22	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Client Sample ID: EB-2 30-32

Lab Sample ID: 480-36330-2

Date Collected: 04/12/13 15:30

Matrix: Solid

Date Received: 04/15/13 11:40

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Toluene	1.7	J B	4.4	0.33	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
trans-1,2-Dichloroethene	ND		4.4	0.46	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Trichloroethene	ND		4.4	0.97	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Trichlorofluoromethane	ND		4.4	0.42	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Vinyl chloride	ND		4.4	0.54	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Xylenes, Total	2.1	J	8.8	0.74	ug/Kg	☼	04/15/13 20:05	04/15/13 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 126				04/15/13 20:05	04/15/13 23:46	1
Toluene-d8 (Surr)	96		71 - 125				04/15/13 20:05	04/15/13 23:46	1
4-Bromofluorobenzene (Surr)	106		72 - 126				04/15/13 20:05	04/15/13 23:46	1

Client Sample ID: EB-3 26-28

Lab Sample ID: 480-36330-3

Date Collected: 04/12/13 15:30

Matrix: Solid

Date Received: 04/15/13 11:40

Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.71	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,1-Dichloroethane	ND		4.4	0.54	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,2-Dibromoethane	ND		4.4	0.56	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,2-Dichlorobenzene	ND		4.4	0.34	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,3-Dichlorobenzene	ND		4.4	0.23	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
1,4-Dichlorobenzene	ND		4.4	0.62	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Acetone	ND		22	3.7	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Benzene	ND		4.4	0.22	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Bromomethane	ND		4.4	0.40	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Carbon tetrachloride	ND		4.4	0.43	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Dibromochloromethane	ND		4.4	0.56	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Chloroethane	ND		4.4	0.99	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Chloromethane	ND		4.4	0.27	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
cis-1,2-Dichloroethene	ND		4.4	0.56	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1

TestAmerica Buffalo

Client Sample Results

Client: C&S Engineers, Inc.
 Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Client Sample ID: EB-3 26-28

Lab Sample ID: 480-36330-3

Date Collected: 04/12/13 15:30

Matrix: Solid

Date Received: 04/15/13 11:40

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.4	0.63	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Cyclohexane	1.9	J	4.4	0.62	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Ethylbenzene	0.37	J	4.4	0.30	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Methyl acetate	ND		4.4	0.82	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Methylcyclohexane	3.2	J	4.4	0.67	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Methylene Chloride	ND		4.4	2.0	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Styrene	ND		4.4	0.22	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Toluene	1.9	J B	4.4	0.33	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Trichloroethene	ND		4.4	0.97	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Trichlorofluoromethane	ND		4.4	0.42	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Vinyl chloride	ND		4.4	0.54	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Xylenes, Total	2.0	J	8.8	0.74	ug/Kg	☼	04/15/13 20:05	04/16/13 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 126				04/15/13 20:05	04/16/13 00:12	1
Toluene-d8 (Surr)	95		71 - 125				04/15/13 20:05	04/16/13 00:12	1
4-Bromofluorobenzene (Surr)	105		72 - 126				04/15/13 20:05	04/16/13 00:12	1

Surrogate Summary

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	TOL	BFB
		(64-126)	(71-125)	(72-126)
480-36330-1	EB-1 28-30	97	96	106
480-36330-2	EB-2 30-32	97	96	106
480-36330-3	EB-3 26-28	97	95	105
LCS 480-113009/5	Lab Control Sample	91	97	110
MB 480-113009/6	Method Blank	91	96	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: C&S Engineers, Inc.
 Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-113009/6

Matrix: Solid

Analysis Batch: 113009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			04/15/13 22:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg			04/15/13 22:38	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg			04/15/13 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg			04/15/13 22:38	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			04/15/13 22:38	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			04/15/13 22:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg			04/15/13 22:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg			04/15/13 22:38	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg			04/15/13 22:38	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			04/15/13 22:38	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			04/15/13 22:38	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg			04/15/13 22:38	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			04/15/13 22:38	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			04/15/13 22:38	1
2-Hexanone	ND		25	2.5	ug/Kg			04/15/13 22:38	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg			04/15/13 22:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg			04/15/13 22:38	1
Acetone	ND		25	4.2	ug/Kg			04/15/13 22:38	1
Benzene	ND		5.0	0.25	ug/Kg			04/15/13 22:38	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg			04/15/13 22:38	1
Bromoform	ND		5.0	2.5	ug/Kg			04/15/13 22:38	1
Bromomethane	ND		5.0	0.45	ug/Kg			04/15/13 22:38	1
Carbon disulfide	ND		5.0	2.5	ug/Kg			04/15/13 22:38	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			04/15/13 22:38	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			04/15/13 22:38	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg			04/15/13 22:38	1
Chloroethane	ND		5.0	1.1	ug/Kg			04/15/13 22:38	1
Chloroform	ND		5.0	0.31	ug/Kg			04/15/13 22:38	1
Chloromethane	ND		5.0	0.30	ug/Kg			04/15/13 22:38	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			04/15/13 22:38	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg			04/15/13 22:38	1
Cyclohexane	ND		5.0	0.70	ug/Kg			04/15/13 22:38	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg			04/15/13 22:38	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			04/15/13 22:38	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg			04/15/13 22:38	1
Methyl acetate	ND		5.0	0.93	ug/Kg			04/15/13 22:38	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			04/15/13 22:38	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg			04/15/13 22:38	1
Methylene Chloride	2.33	J	5.0	2.3	ug/Kg			04/15/13 22:38	1
Styrene	ND		5.0	0.25	ug/Kg			04/15/13 22:38	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			04/15/13 22:38	1
Toluene	1.11	J	5.0	0.38	ug/Kg			04/15/13 22:38	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			04/15/13 22:38	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg			04/15/13 22:38	1
Trichloroethene	ND		5.0	1.1	ug/Kg			04/15/13 22:38	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg			04/15/13 22:38	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			04/15/13 22:38	1
Xylenes, Total	ND		10	0.84	ug/Kg			04/15/13 22:38	1

TestAmerica Buffalo

QC Sample Results

Client: C&S Engineers, Inc.
 Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

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

Lab Sample ID: MB 480-113009/6

Matrix: Solid

Analysis Batch: 113009

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		64 - 126		04/15/13 22:38	1
Toluene-d8 (Surr)	96		71 - 125		04/15/13 22:38	1
4-Bromofluorobenzene (Surr)	108		72 - 126		04/15/13 22:38	1

Lab Sample ID: LCS 480-113009/5

Matrix: Solid

Analysis Batch: 113009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	73 - 126
1,1-Dichloroethene	50.0	42.7		ug/Kg		85	59 - 125
1,2-Dichlorobenzene	50.0	48.6		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	77 - 122
Benzene	50.0	45.8		ug/Kg		92	79 - 127
Chlorobenzene	50.0	51.2		ug/Kg		102	76 - 124
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	81 - 117
Ethylbenzene	50.0	50.9		ug/Kg		102	80 - 120
Methyl tert-butyl ether	50.0	48.5		ug/Kg		97	63 - 125
Tetrachloroethene	50.0	54.2		ug/Kg		108	74 - 122
Toluene	50.0	48.9		ug/Kg		98	74 - 128
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	78 - 126
Trichloroethene	50.0	49.5		ug/Kg		99	77 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		64 - 126
Toluene-d8 (Surr)	97		71 - 125
4-Bromofluorobenzene (Surr)	110		72 - 126

QC Association Summary

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

GC/MS VOA

Analysis Batch: 113009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-36330-1	EB-1 28-30	Total/NA	Solid	8260B	113011
480-36330-2	EB-2 30-32	Total/NA	Solid	8260B	113011
480-36330-3	EB-3 26-28	Total/NA	Solid	8260B	113011
LCS 480-113009/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-113009/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 113011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-36330-1	EB-1 28-30	Total/NA	Solid	5035	
480-36330-2	EB-2 30-32	Total/NA	Solid	5035	
480-36330-3	EB-3 26-28	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 113010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-36330-1	EB-1 28-30	Total/NA	Solid	Moisture	
480-36330-2	EB-2 30-32	Total/NA	Solid	Moisture	
480-36330-3	EB-3 26-28	Total/NA	Solid	Moisture	

Lab Chronicle

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Client Sample ID: EB-1 28-30

Date Collected: 04/11/13 15:30

Date Received: 04/15/13 11:40

Lab Sample ID: 480-36330-1

Matrix: Solid

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			113011	04/15/13 20:05	CDC	TAL BUF
Total/NA	Analysis	8260B		1	113009	04/15/13 23:20	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	113010	04/15/13 19:55	CDC	TAL BUF

Client Sample ID: EB-2 30-32

Date Collected: 04/12/13 15:30

Date Received: 04/15/13 11:40

Lab Sample ID: 480-36330-2

Matrix: Solid

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			113011	04/15/13 20:05	CDC	TAL BUF
Total/NA	Analysis	8260B		1	113009	04/15/13 23:46	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	113010	04/15/13 19:55	CDC	TAL BUF

Client Sample ID: EB-3 26-28

Date Collected: 04/12/13 15:30

Date Received: 04/15/13 11:40

Lab Sample ID: 480-36330-3

Matrix: Solid

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			113011	04/15/13 20:05	CDC	TAL BUF
Total/NA	Analysis	8260B		1	113009	04/16/13 00:12	CDC	TAL BUF
Total/NA	Analysis	Moisture		1	113010	04/15/13 19:55	CDC	TAL BUF

Laboratory References:

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

Certification Summary

Client: C&S Engineers, Inc.
 Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13 *
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-13 *
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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



Sample Summary

Client: C&S Engineers, Inc.
Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-36330-1	EB-1 28-30	Solid	04/11/13 15:30	04/15/13 11:40
480-36330-2	EB-2 30-32	Solid	04/12/13 15:30	04/15/13 11:40
480-36330-3	EB-3 26-28	Solid	04/12/13 15:30	04/15/13 11:40

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: C.E.S Engineers Project Manager: Mark Colmeauer Date: 4/15/13 Chain of Custody Number: 231830
 Address: 90 Broadway Telephone Number (Area Code)/Fax Number: 716-864-3752 Lab Number: _____ Page: 1 of 1
 City: Buffalo State: NY Zip Code: 14203 Site Contact: _____
 Project Name and Location (State): MOR Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No.: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			All	Aqueous	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH		
EB-1 28-30	4/11/13	3:30	X	X	X	X	X	X	X	X	X	X	X	
EB-2 30-32	4/12/13	3:30	X	X	X	X	X	X	X	X	X	X	X	
EB-3 26-28	4/12/13	3:30	X	X	X	X	X	X	X	X	X	X	X	

Analysis (Attach list if more space is needed):
8260 VOC
h2o
recat

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Other
 Disposal By Lab Archive For _____ Months
 Return To Client Sample Disposal

Turnaround Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By: Cody J. M. [Signature] Date: 4/15/13 Time: 11:00
 2. Relinquished By: [Signature] Date: 4/15/13 Time: 11:40
 3. Relinquished By: [Signature] Date: _____ Time: _____

Comments: 4/15/13

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-36330-1

Login Number: 36330

List Number: 1

Creator: Janish, Carl

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	c+s
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

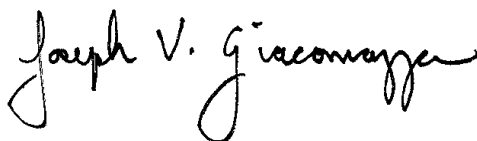
Job Number: 480-36412-1

Job Description: 979-1001 Main St., Buffalo Brownfields

For:

C&S Engineers, Inc.
90 Broadway
Buffalo, NY 14203

Attention: Mr. Mark Colmerauer



Approved for release.
Joe Giacomazza
Project Administrator
4/18/2013 4:07 PM

Designee for
Sally Hoffman
Project Manager II
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04/18/2013

cc: Cody Martin

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Job Narrative
480-36412-1

Receipt

The samples were received on 4/16/2013 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method(s) 8260B: The method blank for batch 113252 contained toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-36412-1	EB-04 36-38	Solid	04/16/2013 0730	04/16/2013 1620
480-36412-2	EB-06 30-32	Solid	04/16/2013 0730	04/16/2013 1620
480-36412-3	EB-07 30-32	Solid	04/16/2013 0730	04/16/2013 1620
480-36412-4	EB-05 30-31	Solid	04/16/2013 1430	04/16/2013 1620
480-36412-5	EB-08 34-36	Solid	04/16/2013 1430	04/16/2013 1620
480-36412-6	EB-09 38-40	Solid	04/16/2013 1430	04/16/2013 1620

EXECUTIVE SUMMARY - Detections

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-36412-1	EB-04 36-38					
Acetone		9.5	J	22	ug/Kg	8260B
Toluene		0.75	J B	4.4	ug/Kg	8260B
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
480-36412-2	EB-06 30-32					
Toluene		0.96	J B	4.6	ug/Kg	8260B
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
480-36412-3	EB-07 30-32					
Toluene		0.86	J B	4.7	ug/Kg	8260B
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
480-36412-4	EB-05 30-31					
Toluene		0.55	J B	4.8	ug/Kg	8260B
Percent Moisture		8.6		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
480-36412-5	EB-08 34-36					
Acetone		7.5	J	21	ug/Kg	8260B
Cyclohexane		1.8	J	4.3	ug/Kg	8260B
Ethylbenzene		5.0		4.3	ug/Kg	8260B
Methylcyclohexane		0.82	J	4.3	ug/Kg	8260B
Toluene		0.91	J B	4.3	ug/Kg	8260B
Xylenes, Total		0.71	J	8.5	ug/Kg	8260B
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
480-36412-6	EB-09 38-40					
Acetone		6.9	J	21	ug/Kg	8260B
Ethylbenzene		0.43	J	4.3	ug/Kg	8260B
Toluene		0.89	J B	4.3	ug/Kg	8260B
Xylenes, Total		1.2	J	8.6	ug/Kg	8260B
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture

METHOD SUMMARY

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5035
Percent Moisture	TAL BUF	EPA Moisture	

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Method	Analyst	Analyst ID
SW846 8260B	Jones, Rebecca	RJ
EPA Moisture	Cwiklinski, Charles D	CDC

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-04 36-38

Lab Sample ID: 480-36412-1

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

% Moisture: 13.4

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7034.D
Dilution:	1.0			Initial Weight/Volume:	6.53 g
Analysis Date:	04/16/2013 2336			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.32	4.4
1,1,2,2-Tetrachloroethane		ND		0.72	4.4
1,1,2-Trichloroethane		ND		0.57	4.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	4.4
1,1-Dichloroethane		ND		0.54	4.4
1,1-Dichloroethene		ND		0.54	4.4
1,2,4-Trichlorobenzene		ND		0.27	4.4
1,2-Dibromo-3-Chloropropane		ND		2.2	4.4
1,2-Dibromoethane		ND		0.57	4.4
1,2-Dichlorobenzene		ND		0.35	4.4
1,2-Dichloroethane		ND		0.22	4.4
1,2-Dichloropropane		ND		2.2	4.4
1,3-Dichlorobenzene		ND		0.23	4.4
1,4-Dichlorobenzene		ND		0.62	4.4
2-Hexanone		ND		2.2	22
2-Butanone (MEK)		ND		1.6	22
4-Methyl-2-pentanone (MIBK)		ND		1.4	22
Acetone		9.5	J	3.7	22
Benzene		ND		0.22	4.4
Bromodichloromethane		ND		0.59	4.4
Bromoform		ND		2.2	4.4
Bromomethane		ND		0.40	4.4
Carbon disulfide		ND		2.2	4.4
Carbon tetrachloride		ND		0.43	4.4
Chlorobenzene		ND		0.58	4.4
Dibromochloromethane		ND		0.57	4.4
Chloroethane		ND		1.0	4.4
Chloroform		ND		0.27	4.4
Chloromethane		ND		0.27	4.4
cis-1,2-Dichloroethene		ND		0.57	4.4
cis-1,3-Dichloropropene		ND		0.64	4.4
Cyclohexane		ND		0.62	4.4
Dichlorodifluoromethane		ND		0.37	4.4
Ethylbenzene		ND		0.30	4.4
Isopropylbenzene		ND		0.67	4.4
Methyl acetate		ND		0.82	4.4
Methyl tert-butyl ether		ND		0.43	4.4
Methylcyclohexane		ND		0.67	4.4
Methylene Chloride		ND		2.0	4.4
Styrene		ND		0.22	4.4
Tetrachloroethene		ND		0.59	4.4
Toluene		0.75	J B	0.33	4.4
trans-1,2-Dichloroethene		ND		0.46	4.4
trans-1,3-Dichloropropene		ND		1.9	4.4
Trichloroethene		ND		0.97	4.4
Trichlorofluoromethane		ND		0.42	4.4

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-04 36-38

Lab Sample ID: 480-36412-1

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

% Moisture: 13.4

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-113252 Instrument ID: HP5973F
Prep Method: 5035 Prep Batch: 480-113260 Lab File ID: F7034.D
Dilution: 1.0 Initial Weight/Volume: 6.53 g
Analysis Date: 04/16/2013 2336 Final Weight/Volume: 5 g
Prep Date: 04/16/2013 2101

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.54	4.4
Xylenes, Total		ND		0.74	8.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
Toluene-d8 (Surr)	98		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-06 30-32

Lab Sample ID: 480-36412-2

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

% Moisture: 15.1

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7035.D
Dilution:	1.0			Initial Weight/Volume:	6.39 g
Analysis Date:	04/17/2013 0002			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.33	4.6
1,1,2,2-Tetrachloroethane		ND		0.75	4.6
1,1,2-Trichloroethane		ND		0.60	4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	4.6
1,1-Dichloroethane		ND		0.56	4.6
1,1-Dichloroethene		ND		0.56	4.6
1,2,4-Trichlorobenzene		ND		0.28	4.6
1,2-Dibromo-3-Chloropropane		ND		2.3	4.6
1,2-Dibromoethane		ND		0.59	4.6
1,2-Dichlorobenzene		ND		0.36	4.6
1,2-Dichloroethane		ND		0.23	4.6
1,2-Dichloropropane		ND		2.3	4.6
1,3-Dichlorobenzene		ND		0.24	4.6
1,4-Dichlorobenzene		ND		0.65	4.6
2-Hexanone		ND		2.3	23
2-Butanone (MEK)		ND		1.7	23
4-Methyl-2-pentanone (MIBK)		ND		1.5	23
Acetone		ND		3.9	23
Benzene		ND		0.23	4.6
Bromodichloromethane		ND		0.62	4.6
Bromoform		ND		2.3	4.6
Bromomethane		ND		0.41	4.6
Carbon disulfide		ND		2.3	4.6
Carbon tetrachloride		ND		0.45	4.6
Chlorobenzene		ND		0.61	4.6
Dibromochloromethane		ND		0.59	4.6
Chloroethane		ND		1.0	4.6
Chloroform		ND		0.28	4.6
Chloromethane		ND		0.28	4.6
cis-1,2-Dichloroethene		ND		0.59	4.6
cis-1,3-Dichloropropene		ND		0.66	4.6
Cyclohexane		ND		0.65	4.6
Dichlorodifluoromethane		ND		0.38	4.6
Ethylbenzene		ND		0.32	4.6
Isopropylbenzene		ND		0.69	4.6
Methyl acetate		ND		0.86	4.6
Methyl tert-butyl ether		ND		0.45	4.6
Methylcyclohexane		ND		0.70	4.6
Methylene Chloride		ND		2.1	4.6
Styrene		ND		0.23	4.6
Tetrachloroethene		ND		0.62	4.6
Toluene		0.96	JB	0.35	4.6
trans-1,2-Dichloroethene		ND		0.48	4.6
trans-1,3-Dichloropropene		ND		2.0	4.6
Trichloroethene		ND		1.0	4.6
Trichlorofluoromethane		ND		0.44	4.6

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-06 30-32

Lab Sample ID: 480-36412-2

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

% Moisture: 15.1

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-113252 Instrument ID: HP5973F
Prep Method: 5035 Prep Batch: 480-113260 Lab File ID: F7035.D
Dilution: 1.0 Initial Weight/Volume: 6.39 g
Analysis Date: 04/17/2013 0002 Final Weight/Volume: 5 g
Prep Date: 04/16/2013 2101

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.56	4.6
Xylenes, Total		ND		0.77	9.2
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		102		64 - 126	
Toluene-d8 (Surr)		96		71 - 125	
4-Bromofluorobenzene (Surr)		100		72 - 126	

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-07 30-32

Lab Sample ID: 480-36412-3

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

% Moisture: 14.0

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7036.D
Dilution:	1.0			Initial Weight/Volume:	6.16 g
Analysis Date:	04/17/2013 0027			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.34	4.7
1,1,2,2-Tetrachloroethane		ND		0.77	4.7
1,1,2-Trichloroethane		ND		0.61	4.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	4.7
1,1-Dichloroethane		ND		0.58	4.7
1,1-Dichloroethene		ND		0.58	4.7
1,2,4-Trichlorobenzene		ND		0.29	4.7
1,2-Dibromo-3-Chloropropane		ND		2.4	4.7
1,2-Dibromoethane		ND		0.61	4.7
1,2-Dichlorobenzene		ND		0.37	4.7
1,2-Dichloroethane		ND		0.24	4.7
1,2-Dichloropropane		ND		2.4	4.7
1,3-Dichlorobenzene		ND		0.24	4.7
1,4-Dichlorobenzene		ND		0.66	4.7
2-Hexanone		ND		2.4	24
2-Butanone (MEK)		ND		1.7	24
4-Methyl-2-pentanone (MIBK)		ND		1.5	24
Acetone		ND		4.0	24
Benzene		ND		0.23	4.7
Bromodichloromethane		ND		0.63	4.7
Bromoform		ND		2.4	4.7
Bromomethane		ND		0.42	4.7
Carbon disulfide		ND		2.4	4.7
Carbon tetrachloride		ND		0.46	4.7
Chlorobenzene		ND		0.62	4.7
Dibromochloromethane		ND		0.60	4.7
Chloroethane		ND		1.1	4.7
Chloroform		ND		0.29	4.7
Chloromethane		ND		0.28	4.7
cis-1,2-Dichloroethene		ND		0.60	4.7
cis-1,3-Dichloropropene		ND		0.68	4.7
Cyclohexane		ND		0.66	4.7
Dichlorodifluoromethane		ND		0.39	4.7
Ethylbenzene		ND		0.33	4.7
Isopropylbenzene		ND		0.71	4.7
Methyl acetate		ND		0.88	4.7
Methyl tert-butyl ether		ND		0.46	4.7
Methylcyclohexane		ND		0.72	4.7
Methylene Chloride		ND		2.2	4.7
Styrene		ND		0.24	4.7
Tetrachloroethene		ND		0.63	4.7
Toluene		0.86	JB	0.36	4.7
trans-1,2-Dichloroethene		ND		0.49	4.7
trans-1,3-Dichloropropene		ND		2.1	4.7
Trichloroethene		ND		1.0	4.7
Trichlorofluoromethane		ND		0.45	4.7

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-07 30-32

Lab Sample ID: 480-36412-3

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

% Moisture: 14.0

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B Analysis Batch: 480-113252 Instrument ID: HP5973F
Prep Method: 5035 Prep Batch: 480-113260 Lab File ID: F7036.D
Dilution: 1.0 Initial Weight/Volume: 6.16 g
Analysis Date: 04/17/2013 0027 Final Weight/Volume: 5 g
Prep Date: 04/16/2013 2101

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.58	4.7
Xylenes, Total		ND		0.79	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
Toluene-d8 (Surr)	98		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-05 30-31

Lab Sample ID: 480-36412-4

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

% Moisture: 8.6

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7037.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Analysis Date:	04/17/2013 0052			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.35	4.8
1,1,2,2-Tetrachloroethane		ND		0.78	4.8
1,1,2-Trichloroethane		ND		0.62	4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	4.8
1,1-Dichloroethane		ND		0.59	4.8
1,1-Dichloroethene		ND		0.59	4.8
1,2,4-Trichlorobenzene		ND		0.29	4.8
1,2-Dibromo-3-Chloropropane		ND		2.4	4.8
1,2-Dibromoethane		ND		0.62	4.8
1,2-Dichlorobenzene		ND		0.38	4.8
1,2-Dichloroethane		ND		0.24	4.8
1,2-Dichloropropane		ND		2.4	4.8
1,3-Dichlorobenzene		ND		0.25	4.8
1,4-Dichlorobenzene		ND		0.67	4.8
2-Hexanone		ND		2.4	24
2-Butanone (MEK)		ND		1.8	24
4-Methyl-2-pentanone (MIBK)		ND		1.6	24
Acetone		ND		4.0	24
Benzene		ND		0.24	4.8
Bromodichloromethane		ND		0.64	4.8
Bromoform		ND		2.4	4.8
Bromomethane		ND		0.43	4.8
Carbon disulfide		ND		2.4	4.8
Carbon tetrachloride		ND		0.47	4.8
Chlorobenzene		ND		0.63	4.8
Dibromochloromethane		ND		0.62	4.8
Chloroethane		ND		1.1	4.8
Chloroform		ND		0.30	4.8
Chloromethane		ND		0.29	4.8
cis-1,2-Dichloroethene		ND		0.62	4.8
cis-1,3-Dichloropropene		ND		0.69	4.8
Cyclohexane		ND		0.67	4.8
Dichlorodifluoromethane		ND		0.40	4.8
Ethylbenzene		ND		0.33	4.8
Isopropylbenzene		ND		0.72	4.8
Methyl acetate		ND		0.89	4.8
Methyl tert-butyl ether		ND		0.47	4.8
Methylcyclohexane		ND		0.73	4.8
Methylene Chloride		ND		2.2	4.8
Styrene		ND		0.24	4.8
Tetrachloroethene		ND		0.64	4.8
Toluene		0.55	JB	0.36	4.8
trans-1,2-Dichloroethene		ND		0.50	4.8
trans-1,3-Dichloropropene		ND		2.1	4.8
Trichloroethene		ND		1.1	4.8
Trichlorofluoromethane		ND		0.45	4.8

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-05 30-31

Lab Sample ID: 480-36412-4

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

% Moisture: 8.6

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7037.D
Dilution:	1.0			Initial Weight/Volume:	5.69 g
Analysis Date:	04/17/2013 0052			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.59	4.8
Xylenes, Total		ND		0.81	9.6

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

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-08 34-36

Lab Sample ID: 480-36412-5

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

% Moisture: 13.7

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7038.D
Dilution:	1.0			Initial Weight/Volume:	6.81 g
Analysis Date:	04/17/2013 0117			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.31	4.3
1,1,2,2-Tetrachloroethane		ND		0.69	4.3
1,1,2-Trichloroethane		ND		0.55	4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.97	4.3
1,1-Dichloroethane		ND		0.52	4.3
1,1-Dichloroethene		ND		0.52	4.3
1,2,4-Trichlorobenzene		ND		0.26	4.3
1,2-Dibromo-3-Chloropropane		ND		2.1	4.3
1,2-Dibromoethane		ND		0.55	4.3
1,2-Dichlorobenzene		ND		0.33	4.3
1,2-Dichloroethane		ND		0.21	4.3
1,2-Dichloropropane		ND		2.1	4.3
1,3-Dichlorobenzene		ND		0.22	4.3
1,4-Dichlorobenzene		ND		0.60	4.3
2-Hexanone		ND		2.1	21
2-Butanone (MEK)		ND		1.6	21
4-Methyl-2-pentanone (MIBK)		ND		1.4	21
Acetone		7.5	J	3.6	21
Benzene		ND		0.21	4.3
Bromodichloromethane		ND		0.57	4.3
Bromoform		ND		2.1	4.3
Bromomethane		ND		0.38	4.3
Carbon disulfide		ND		2.1	4.3
Carbon tetrachloride		ND		0.41	4.3
Chlorobenzene		ND		0.56	4.3
Dibromochloromethane		ND		0.54	4.3
Chloroethane		ND		0.96	4.3
Chloroform		ND		0.26	4.3
Chloromethane		ND		0.26	4.3
cis-1,2-Dichloroethene		ND		0.54	4.3
cis-1,3-Dichloropropene		ND		0.61	4.3
Cyclohexane		1.8	J	0.60	4.3
Dichlorodifluoromethane		ND		0.35	4.3
Ethylbenzene		5.0		0.29	4.3
Isopropylbenzene		ND		0.64	4.3
Methyl acetate		ND		0.79	4.3
Methyl tert-butyl ether		ND		0.42	4.3
Methylcyclohexane		0.82	J	0.65	4.3
Methylene Chloride		ND		2.0	4.3
Styrene		ND		0.21	4.3
Tetrachloroethene		ND		0.57	4.3
Toluene		0.91	J B	0.32	4.3
trans-1,2-Dichloroethene		ND		0.44	4.3
trans-1,3-Dichloropropene		ND		1.9	4.3
Trichloroethene		ND		0.94	4.3
Trichlorofluoromethane		ND		0.40	4.3

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-08 34-36

Lab Sample ID: 480-36412-5

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

% Moisture: 13.7

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7038.D
Dilution:	1.0			Initial Weight/Volume:	6.81 g
Analysis Date:	04/17/2013 0117			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.52	4.3
Xylenes, Total		0.71	J	0.71	8.5
Surrogate		%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		104		64 - 126	
Toluene-d8 (Surr)		99		71 - 125	
4-Bromofluorobenzene (Surr)		101		72 - 126	

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-09 38-40

Lab Sample ID: 480-36412-6

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

% Moisture: 11.7

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7039.D
Dilution:	1.0			Initial Weight/Volume:	6.6 g
Analysis Date:	04/17/2013 0143			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.31	4.3
1,1,2,2-Tetrachloroethane		ND		0.70	4.3
1,1,2-Trichloroethane		ND		0.56	4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.98	4.3
1,1-Dichloroethane		ND		0.52	4.3
1,1-Dichloroethene		ND		0.53	4.3
1,2,4-Trichlorobenzene		ND		0.26	4.3
1,2-Dibromo-3-Chloropropane		ND		2.1	4.3
1,2-Dibromoethane		ND		0.55	4.3
1,2-Dichlorobenzene		ND		0.34	4.3
1,2-Dichloroethane		ND		0.22	4.3
1,2-Dichloropropane		ND		2.1	4.3
1,3-Dichlorobenzene		ND		0.22	4.3
1,4-Dichlorobenzene		ND		0.60	4.3
2-Hexanone		ND		2.1	21
2-Butanone (MEK)		ND		1.6	21
4-Methyl-2-pentanone (MIBK)		ND		1.4	21
Acetone		6.9	J	3.6	21
Benzene		ND		0.21	4.3
Bromodichloromethane		ND		0.57	4.3
Bromoform		ND		2.1	4.3
Bromomethane		ND		0.39	4.3
Carbon disulfide		ND		2.1	4.3
Carbon tetrachloride		ND		0.42	4.3
Chlorobenzene		ND		0.57	4.3
Dibromochloromethane		ND		0.55	4.3
Chloroethane		ND		0.97	4.3
Chloroform		ND		0.27	4.3
Chloromethane		ND		0.26	4.3
cis-1,2-Dichloroethene		ND		0.55	4.3
cis-1,3-Dichloropropene		ND		0.62	4.3
Cyclohexane		ND		0.60	4.3
Dichlorodifluoromethane		ND		0.35	4.3
Ethylbenzene		0.43	J	0.30	4.3
Isopropylbenzene		ND		0.65	4.3
Methyl acetate		ND		0.80	4.3
Methyl tert-butyl ether		ND		0.42	4.3
Methylcyclohexane		ND		0.65	4.3
Methylene Chloride		ND		2.0	4.3
Styrene		ND		0.21	4.3
Tetrachloroethene		ND		0.58	4.3
Toluene		0.89	J B	0.32	4.3
trans-1,2-Dichloroethene		ND		0.44	4.3
trans-1,3-Dichloropropene		ND		1.9	4.3
Trichloroethene		ND		0.94	4.3
Trichlorofluoromethane		ND		0.41	4.3

Analytical Data

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Client Sample ID: EB-09 38-40

Lab Sample ID: 480-36412-6

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

% Moisture: 11.7

Date Received: 04/16/2013 1620

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-113252	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-113260	Lab File ID:	F7039.D
Dilution:	1.0			Initial Weight/Volume:	6.6 g
Analysis Date:	04/17/2013 0143			Final Weight/Volume:	5 g
Prep Date:	04/16/2013 2101				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.52	4.3
Xylenes, Total		1.2	J	0.72	8.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		64 - 126
Toluene-d8 (Surr)	98		71 - 125
4-Bromofluorobenzene (Surr)	99		72 - 126

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

General Chemistry

Client Sample ID: EB-04 36-38

Lab Sample ID: 480-36412-1

Client Matrix: Solid

Date Sampled: 04/16/2013 0730

Date Received: 04/16/2013 1620

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

General Chemistry

Client Sample ID: EB-06 30-32

Lab Sample ID: 480-36412-2

Date Sampled: 04/16/2013 0730

Client Matrix: Solid

Date Received: 04/16/2013 1620

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

General Chemistry

Client Sample ID: EB-07 30-32

Lab Sample ID: 480-36412-3

Client Matrix: Solid

Date Sampled: 04/16/2013 0730

Date Received: 04/16/2013 1620

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

General Chemistry

Client Sample ID: EB-05 30-31

Lab Sample ID: 480-36412-4

Date Sampled: 04/16/2013 1430

Client Matrix: Solid

Date Received: 04/16/2013 1620

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.6		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

General Chemistry

Client Sample ID: EB-08 34-36

Lab Sample ID: 480-36412-5

Client Matrix: Solid

Date Sampled: 04/16/2013 1430

Date Received: 04/16/2013 1620

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

General Chemistry

Client Sample ID: EB-09 38-40

Lab Sample ID: 480-36412-6

Client Matrix: Solid

Date Sampled: 04/16/2013 1430

Date Received: 04/16/2013 1620

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-113262	Analysis Date: 04/16/2013 2140					DryWt Corrected: N

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-36412-1	EB-04 36-38	99	98	101
480-36412-2	EB-06 30-32	102	96	100
480-36412-3	EB-07 30-32	101	98	101
480-36412-4	EB-05 30-31	100	100	102
480-36412-5	EB-08 34-36	104	99	101
480-36412-6	EB-09 38-40	102	98	99
MB 480-113252/6		96	98	100
LCS 480-113252/5		96	97	99

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

Quality Control Results

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Method Blank - Batch: 480-113252

**Method: 8260B
Preparation: N/A**

Lab Sample ID: MB 480-113252/6
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/16/2013 2257
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 480-113252
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: HP5973F
 Lab File ID: F7033.D
 Initial Weight/Volume: 5 g
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.36	5.0
1,1,2,2-Tetrachloroethane	ND		0.81	5.0
1,1,2-Trichloroethane	ND		0.65	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	5.0
1,1-Dichloroethane	ND		0.61	5.0
1,1-Dichloroethene	ND		0.61	5.0
1,2,4-Trichlorobenzene	ND		0.30	5.0
1,2-Dibromo-3-Chloropropane	ND		2.5	5.0
1,2-Dibromoethane	ND		0.64	5.0
1,2-Dichlorobenzene	ND		0.39	5.0
1,2-Dichloroethane	ND		0.25	5.0
1,2-Dichloropropane	ND		2.5	5.0
1,3-Dichlorobenzene	ND		0.26	5.0
1,4-Dichlorobenzene	ND		0.70	5.0
2-Hexanone	ND		2.5	25
2-Butanone (MEK)	ND		1.8	25
4-Methyl-2-pentanone (MIBK)	ND		1.6	25
Acetone	ND		4.2	25
Benzene	ND		0.25	5.0
Bromodichloromethane	ND		0.67	5.0
Bromoform	ND		2.5	5.0
Bromomethane	ND		0.45	5.0
Carbon disulfide	ND		2.5	5.0
Carbon tetrachloride	ND		0.48	5.0
Chlorobenzene	ND		0.66	5.0
Dibromochloromethane	ND		0.64	5.0
Chloroethane	ND		1.1	5.0
Chloroform	ND		0.31	5.0
Chloromethane	ND		0.30	5.0
cis-1,2-Dichloroethene	ND		0.64	5.0
cis-1,3-Dichloropropene	ND		0.72	5.0
Cyclohexane	ND		0.70	5.0
Dichlorodifluoromethane	ND		0.41	5.0
Ethylbenzene	ND		0.35	5.0
Isopropylbenzene	ND		0.75	5.0
Methyl acetate	ND		0.93	5.0
Methyl tert-butyl ether	ND		0.49	5.0
Methylcyclohexane	ND		0.76	5.0
Methylene Chloride	ND		2.3	5.0
Styrene	ND		0.25	5.0
Tetrachloroethene	ND		0.67	5.0
Toluene	0.792	J	0.38	5.0
trans-1,2-Dichloroethene	ND		0.52	5.0
trans-1,3-Dichloropropene	ND		2.2	5.0
Trichloroethene	ND		1.1	5.0

Quality Control Results

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Method Blank - Batch: 480-113252

Method: 8260B
Preparation: N/A

Lab Sample ID: MB 480-113252/6	Analysis Batch: 480-113252	Instrument ID: HP5973F
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: F7033.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 04/16/2013 2257	Units: ug/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		
Leach Date: N/A		

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

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	64 - 126
Toluene-d8 (Surr)	98	71 - 125
4-Bromofluorobenzene (Surr)	100	72 - 126

Lab Control Sample - Batch: 480-113252

Method: 8260B
Preparation: N/A

Lab Sample ID: LCS 480-113252/5	Analysis Batch: 480-113252	Instrument ID: HP5973F
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: F7032.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 04/16/2013 2232	Units: ug/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	48.4	97	73 - 126	
1,1-Dichloroethene	50.0	43.4	87	59 - 125	
1,2-Dichlorobenzene	50.0	51.3	103	75 - 120	
1,2-Dichloroethane	50.0	50.1	100	77 - 122	
Benzene	50.0	45.2	90	79 - 127	
Chlorobenzene	50.0	50.9	102	76 - 124	
cis-1,2-Dichloroethene	50.0	47.5	95	81 - 117	
Ethylbenzene	50.0	51.1	102	80 - 120	
Methyl tert-butyl ether	50.0	47.9	96	63 - 125	
Tetrachloroethene	50.0	53.9	108	74 - 122	
Toluene	50.0	48.7	97	74 - 128	
trans-1,2-Dichloroethene	50.0	48.5	97	78 - 126	
Trichloroethene	50.0	48.3	97	77 - 129	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	64 - 126
Toluene-d8 (Surr)	97	71 - 125
4-Bromofluorobenzene (Surr)	99	72 - 126

DATA REPORTING QUALIFIERS

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Lab Section	Qualifier	Description
GC/MS VOA	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-113252					
LCS 480-113252/5	Lab Control Sample	T	Solid	8260B	
MB 480-113252/6	Method Blank	T	Solid	8260B	
480-36412-1	EB-04 36-38	T	Solid	8260B	480-113260
480-36412-2	EB-06 30-32	T	Solid	8260B	480-113260
480-36412-3	EB-07 30-32	T	Solid	8260B	480-113260
480-36412-4	EB-05 30-31	T	Solid	8260B	480-113260
480-36412-5	EB-08 34-36	T	Solid	8260B	480-113260
480-36412-6	EB-09 38-40	T	Solid	8260B	480-113260
Prep Batch: 480-113260					
480-36412-1	EB-04 36-38	T	Solid	5035	
480-36412-2	EB-06 30-32	T	Solid	5035	
480-36412-3	EB-07 30-32	T	Solid	5035	
480-36412-4	EB-05 30-31	T	Solid	5035	
480-36412-5	EB-08 34-36	T	Solid	5035	
480-36412-6	EB-09 38-40	T	Solid	5035	

Report Basis

T = Total

General Chemistry

Analysis Batch:480-113262					
480-36412-1	EB-04 36-38	T	Solid	Moisture	
480-36412-2	EB-06 30-32	T	Solid	Moisture	
480-36412-3	EB-07 30-32	T	Solid	Moisture	
480-36412-4	EB-05 30-31	T	Solid	Moisture	
480-36412-5	EB-08 34-36	T	Solid	Moisture	
480-36412-6	EB-09 38-40	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Laboratory Chronicle

Lab ID: 480-36412-1

Client ID: EB-04 36-38

Sample Date/Time: 04/16/2013 07:30

Received Date/Time: 04/16/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-36412-B-1-A		480-113252	480-113260	04/16/2013 21:01	1	TAL BUF	CDC
A:8260B	480-36412-B-1-A		480-113252	480-113260	04/16/2013 23:36	1	TAL BUF	RJ
A:Moisture	480-36412-D-1		480-113262		04/16/2013 21:40	1	TAL BUF	CDC

Lab ID: 480-36412-2

Client ID: EB-06 30-32

Sample Date/Time: 04/16/2013 07:30

Received Date/Time: 04/16/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-36412-A-2-A		480-113252	480-113260	04/16/2013 21:01	1	TAL BUF	CDC
A:8260B	480-36412-A-2-A		480-113252	480-113260	04/17/2013 00:02	1	TAL BUF	RJ
A:Moisture	480-36412-D-2		480-113262		04/16/2013 21:40	1	TAL BUF	CDC

Lab ID: 480-36412-3

Client ID: EB-07 30-32

Sample Date/Time: 04/16/2013 07:30

Received Date/Time: 04/16/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-36412-A-3-A		480-113252	480-113260	04/16/2013 21:01	1	TAL BUF	CDC
A:8260B	480-36412-A-3-A		480-113252	480-113260	04/17/2013 00:27	1	TAL BUF	RJ
A:Moisture	480-36412-D-3		480-113262		04/16/2013 21:40	1	TAL BUF	CDC

Lab ID: 480-36412-4

Client ID: EB-05 30-31

Sample Date/Time: 04/16/2013 14:30

Received Date/Time: 04/16/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-36412-A-4-A		480-113252	480-113260	04/16/2013 21:01	1	TAL BUF	CDC
A:8260B	480-36412-A-4-A		480-113252	480-113260	04/17/2013 00:52	1	TAL BUF	RJ
A:Moisture	480-36412-D-4		480-113262		04/16/2013 21:40	1	TAL BUF	CDC

Lab ID: 480-36412-5

Client ID: EB-08 34-36

Sample Date/Time: 04/16/2013 14:30

Received Date/Time: 04/16/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-36412-A-5-A		480-113252	480-113260	04/16/2013 21:01	1	TAL BUF	CDC
A:8260B	480-36412-A-5-A		480-113252	480-113260	04/17/2013 01:17	1	TAL BUF	RJ
A:Moisture	480-36412-D-5		480-113262		04/16/2013 21:40	1	TAL BUF	CDC

Quality Control Results

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Laboratory Chronicle

Lab ID: 480-36412-6

Client ID: EB-09 38-40

Sample Date/Time: 04/16/2013 14:30

Received Date/Time: 04/16/2013 16:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-36412-A-6-A		480-113252	480-113260	04/16/2013 21:01	1	TAL BUF	CDC
A:8260B	480-36412-A-6-A		480-113252	480-113260	04/17/2013 01:43	1	TAL BUF	RJ
A:Moisture	480-36412-D-6		480-113262		04/16/2013 21:40	1	TAL BUF	CDC

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260B	MB 480-113252/6		480-113252		04/16/2013 22:57	1	TAL BUF	RJ

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260B	LCS 480-113252/5		480-113252		04/16/2013 22:32	1	TAL BUF	RJ

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: C&S Engineers, Inc.
 Project/Site: 979-1001 Main St., Buffalo Brownfields

TestAmerica Job ID: 480-36412-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1

SDG No.: _____

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
EB-04 36-38	480-36412-1	99	98	101
EB-06 30-32	480-36412-2	102	96	100
EB-07 30-32	480-36412-3	101	98	101
EB-05 30-31	480-36412-4	100	100	102
EB-08 34-36	480-36412-5	104	99	101
EB-09 38-40	480-36412-6	102	98	99
	MB 480-113252/6	96	98	100
	LCS 480-113252/5	96	97	99

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

QC LIMITS
64-126
71-125
72-126

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: F7032.D
 Lab ID: LCS 480-113252/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	50.0	48.4	97	73-126	
1,1-Dichloroethene	50.0	43.4	87	59-125	
1,2-Dichlorobenzene	50.0	51.3	103	75-120	
1,2-Dichloroethane	50.0	50.1	100	77-122	
Benzene	50.0	45.2	90	79-127	
Chlorobenzene	50.0	50.9	102	76-124	
cis-1,2-Dichloroethene	50.0	47.5	95	81-117	
Ethylbenzene	50.0	51.1	102	80-120	
Methyl tert-butyl ether	50.0	47.9	96	63-125	
Tetrachloroethene	50.0	53.9	108	74-122	
Toluene	50.0	48.7	97	74-128	
trans-1,2-Dichloroethene	50.0	48.5	97	78-126	
Trichloroethene	50.0	48.3	97	77-129	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab File ID: F7033.D Lab Sample ID: MB 480-113252/6
 Matrix: Solid Heated Purge: (Y/N) N
 Instrument ID: HP5973F Date Analyzed: 04/16/2013 22:57
 GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-113252/5	F7032.D	04/16/2013 22:32
EB-04 36-38	480-36412-1	F7034.D	04/16/2013 23:36
EB-06 30-32	480-36412-2	F7035.D	04/17/2013 00:02
EB-07 30-32	480-36412-3	F7036.D	04/17/2013 00:27
EB-05 30-31	480-36412-4	F7037.D	04/17/2013 00:52
EB-08 34-36	480-36412-5	F7038.D	04/17/2013 01:17
EB-09 38-40	480-36412-6	F7039.D	04/17/2013 01:43

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab File ID: F6720.D BFB Injection Date: 04/03/2013
 Instrument ID: HP5973F BFB Injection Time: 12:22
 Analysis Batch No.: 110659

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.4	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	79.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.5) 1
176	95.0 - 101.0 % of mass 174	76.1	(96.4) 1
177	5.0 - 9.0 % of mass 176	4.7	(6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 480-110659/4	F6722.D	04/03/2013	13:16
	STD2 480-110659/5	F6723.D	04/03/2013	13:42
	STD3 480-110659/6	F6724.D	04/03/2013	14:07
	STD4 480-110659/7	F6725.D	04/03/2013	14:33
	STD5 480-110659/8	F6726.D	04/03/2013	14:58
	STD6 480-110659/9	F6727.D	04/03/2013	15:23
	STD7 480-110659/10	F6728.D	04/03/2013	15:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab File ID: F7029.D BFB Injection Date: 04/16/2013
 Instrument ID: HP5973F BFB Injection Time: 20:55
 Analysis Batch No.: 113252

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.1	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	81.3	
175	5.0 - 9.0 % of mass 174	6.2	(7.7) 1
176	95.0 - 101.0 % of mass 174	77.4	(95.2) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-113252/3	F7030.D	04/16/2013	21:21
	CCV 480-113252/4	F7031.D	04/16/2013	22:07
	LCS 480-113252/5	F7032.D	04/16/2013	22:32
	MB 480-113252/6	F7033.D	04/16/2013	22:57
EB-04 36-38	480-36412-1	F7034.D	04/16/2013	23:36
EB-06 30-32	480-36412-2	F7035.D	04/17/2013	00:02
EB-07 30-32	480-36412-3	F7036.D	04/17/2013	00:27
EB-05 30-31	480-36412-4	F7037.D	04/17/2013	00:52
EB-08 34-36	480-36412-5	F7038.D	04/17/2013	01:17
EB-09 38-40	480-36412-6	F7039.D	04/17/2013	01:43

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Sample No.: STD5 480-110659/8 Date Analyzed: 04/03/2013 14:58
 Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm)
 Lab File ID (Standard): F6726.D Heated Purge: (Y/N) N
 Calibration ID: 13049

	DFB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	425417	5.61	213707	8.38	197285	10.70
UPPER LIMIT	850834	6.11	427414	8.88	394570	11.20
LOWER LIMIT	212709	5.11	106854	7.88	98643	10.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-113252/3	387044	5.61	181918	8.38	172824	10.70

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Sample No.: CCVIS 480-113252/3 Date Analyzed: 04/16/2013 21:21
 Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm)
 Lab File ID (Standard): F7030.D Heated Purge: (Y/N) N
 Calibration ID: 13049

	DFB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	387044	5.61	181918	8.38	172824	10.70	
UPPER LIMIT	774088	6.11	363836	8.88	345648	11.20	
LOWER LIMIT	193522	5.11	90959	7.88	86412	10.20	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-113252/4		382730	5.61	184726	8.38	173285	10.70
LCS 480-113252/5		377964	5.61	180295	8.38	165179	10.70
MB 480-113252/6		370067	5.61	175272	8.38	161770	10.70
480-36412-1	EB-04 36-38	367401	5.61	173752	8.38	157193	10.70
480-36412-2	EB-06 30-32	357257	5.61	171790	8.38	159853	10.70
480-36412-3	EB-07 30-32	355772	5.61	167526	8.38	152474	10.70
480-36412-4	EB-05 30-31	358376	5.61	168072	8.38	154998	10.70
480-36412-5	EB-08 34-36	351749	5.61	167131	8.38	156586	10.70
480-36412-6	EB-09 38-40	350681	5.61	166908	8.38	153805	10.70

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-04 36-38 Lab Sample ID: 480-36412-1
 Matrix: Solid Lab File ID: F7034.D
 Analysis Method: 8260B Date Collected: 04/16/2013 07:30
 Sample wt/vol: 6.53(g) Date Analyzed: 04/16/2013 23:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 13.4 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.4	0.32
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.4	0.72
79-00-5	1,1,2-Trichloroethane	ND		4.4	0.57
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0
75-34-3	1,1-Dichloroethane	ND		4.4	0.54
75-35-4	1,1-Dichloroethene	ND		4.4	0.54
120-82-1	1,2,4-Trichlorobenzene	ND		4.4	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.4	2.2
106-93-4	1,2-Dibromoethane	ND		4.4	0.57
95-50-1	1,2-Dichlorobenzene	ND		4.4	0.35
107-06-2	1,2-Dichloroethane	ND		4.4	0.22
78-87-5	1,2-Dichloropropane	ND		4.4	2.2
541-73-1	1,3-Dichlorobenzene	ND		4.4	0.23
106-46-7	1,4-Dichlorobenzene	ND		4.4	0.62
591-78-6	2-Hexanone	ND		22	2.2
78-93-3	2-Butanone (MEK)	ND		22	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.4
67-64-1	Acetone	9.5	J	22	3.7
71-43-2	Benzene	ND		4.4	0.22
75-27-4	Bromodichloromethane	ND		4.4	0.59
75-25-2	Bromoform	ND		4.4	2.2
74-83-9	Bromomethane	ND		4.4	0.40
75-15-0	Carbon disulfide	ND		4.4	2.2
56-23-5	Carbon tetrachloride	ND		4.4	0.43
108-90-7	Chlorobenzene	ND		4.4	0.58
124-48-1	Dibromochloromethane	ND		4.4	0.57
75-00-3	Chloroethane	ND		4.4	1.0
67-66-3	Chloroform	ND		4.4	0.27
74-87-3	Chloromethane	ND		4.4	0.27
156-59-2	cis-1,2-Dichloroethene	ND		4.4	0.57
10061-01-5	cis-1,3-Dichloropropene	ND		4.4	0.64
110-82-7	Cyclohexane	ND		4.4	0.62
75-71-8	Dichlorodifluoromethane	ND		4.4	0.37
100-41-4	Ethylbenzene	ND		4.4	0.30
98-82-8	Isopropylbenzene	ND		4.4	0.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-04 36-38 Lab Sample ID: 480-36412-1
 Matrix: Solid Lab File ID: F7034.D
 Analysis Method: 8260B Date Collected: 04/16/2013 07:30
 Sample wt/vol: 6.53(g) Date Analyzed: 04/16/2013 23:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 13.4 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.4	0.82
1634-04-4	Methyl tert-butyl ether	ND		4.4	0.43
108-87-2	Methylcyclohexane	ND		4.4	0.67
75-09-2	Methylene Chloride	ND		4.4	2.0
100-42-5	Styrene	ND		4.4	0.22
127-18-4	Tetrachloroethene	ND		4.4	0.59
108-88-3	Toluene	0.75	J B	4.4	0.33
156-60-5	trans-1,2-Dichloroethene	ND		4.4	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		4.4	1.9
79-01-6	Trichloroethene	ND		4.4	0.97
75-69-4	Trichlorofluoromethane	ND		4.4	0.42
75-01-4	Vinyl chloride	ND		4.4	0.54
1330-20-7	Xylenes, Total	ND		8.8	0.74

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7034.D
 Lims ID: 480-36412-B-1-A Client ID: EB-4 36-38
 Inject. Date: 16-Apr-2013 23:36:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-36412-B-1-A
 Misc. Info.: 480-0020671-007 =480-0020671-007
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 1
 Lims Batch ID: 113252 Lims Sample ID: 7
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 17-Apr-2013 02:56:24 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK030

First Level Reviewer: cwiklinc

Date: 17-Apr-2013 02:56:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	94	367401	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	85	173752	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	157193	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	61288	49.6	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	395158	49.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	121379	50.5	
10 Dichlorodifluoromethane	85		2.000					
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.852					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43	3.308	3.302	0.006	68	8705	10.7	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.527					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
39 1,1-Dichloroethane	63		4.178					
43 2-Butanone (MEK)	43		4.616					9
45 cis-1,2-Dichloroethene	96		4.628					
50 Chloroform	83		4.872					
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.054					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.328					9
58 1,2-Dichloroethane	62		5.365					
62 Trichloroethene	95		5.851					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
64 Methylcyclohexane	83		5.991					9
65 1,2-Dichloropropane	63		6.076					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	6.995	6.995	0.0	52	5246	0.8535	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
80 2-Hexanone	43		7.591					
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91		8.473					
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	51	3652	0.8280	
91 o-Xylene	106		9.021					9
92 Styrene	104		9.045					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					
111 1,3-Dichlorobenzene	146		10.645					9
113 1,4-Dichlorobenzene	146		10.724					9
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.740					
119 1,2,4-Trichlorobenzene	180		12.391					
S 124 Xylenes, Total	1				0		0.8280	

QC Flag Legend

Processing Flags

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7034.D

Injection Date: 16-Apr-2013 23:36:30 Limit Group: MV - 8260B ICAL

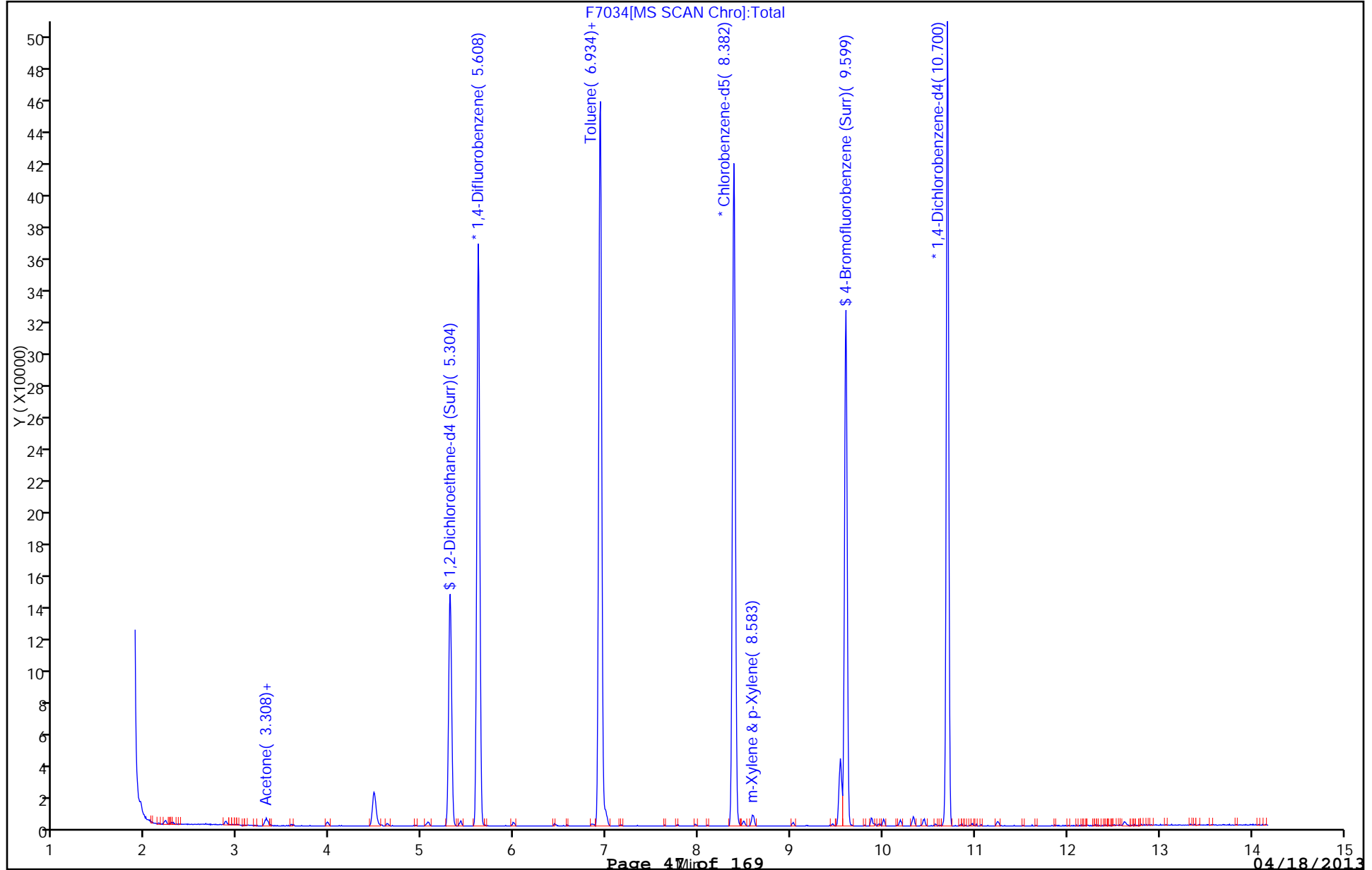
Client ID: EB-4 36-38 Instrument ID: HP5973F

Lims Batch ID: 113252 Lims Sample ID: 7

Operator ID: CDC Purge Vol: 5.000 mL

Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7034.D

Injection Date: 16-Apr-2013 23:36:30

Limit Group: MV - 8260B ICAL

Client ID: EB-4 36-38

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 7

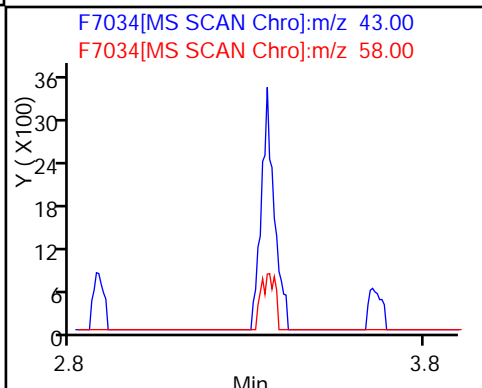
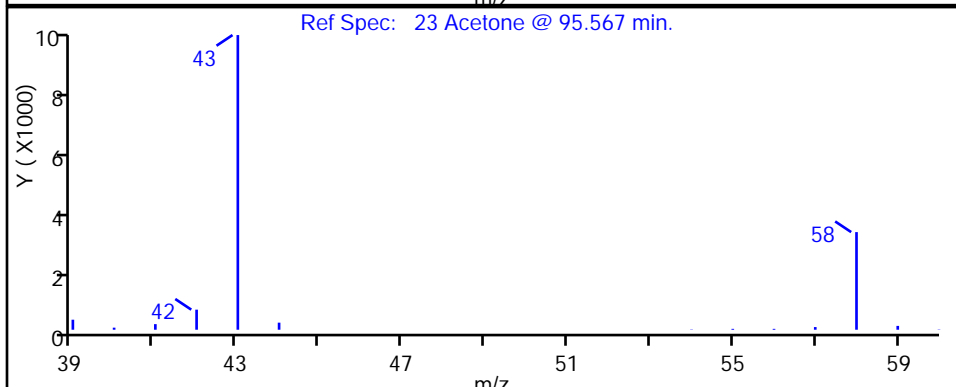
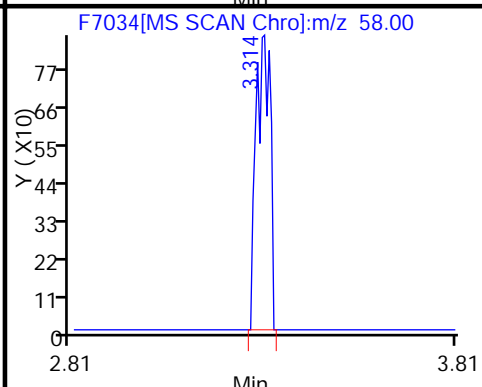
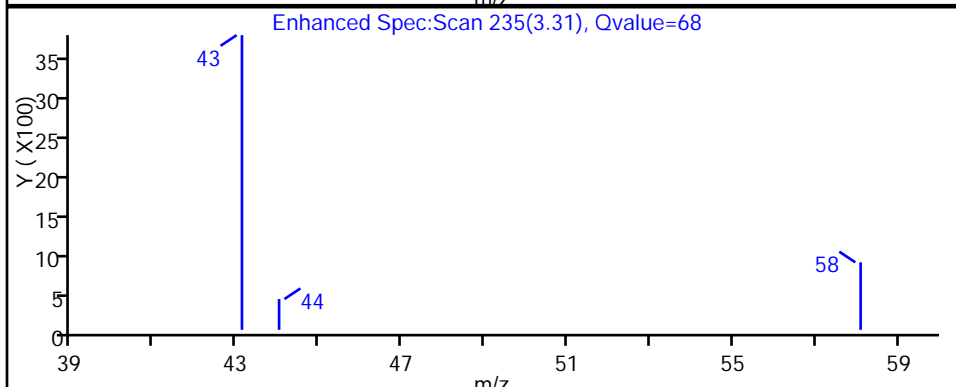
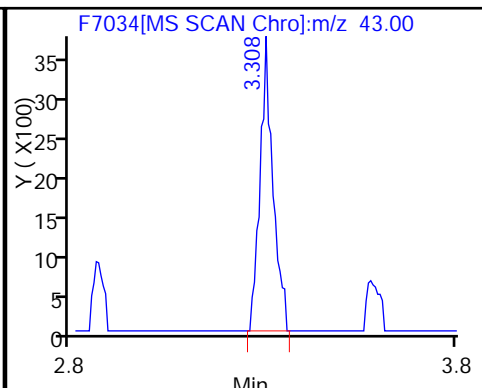
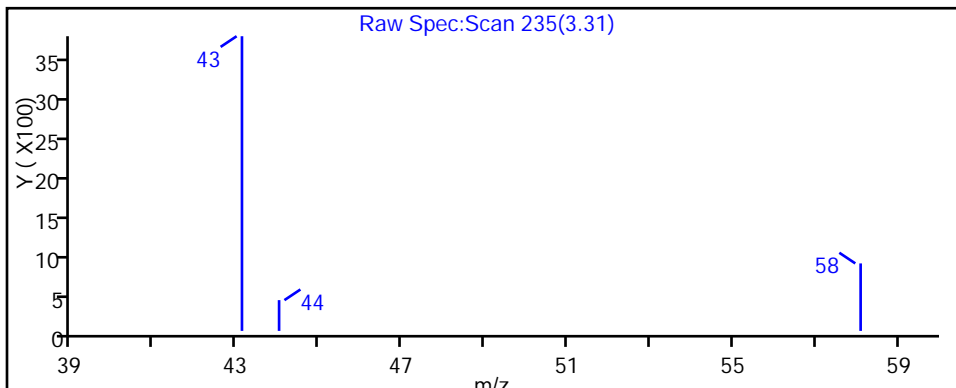
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

23 Acetone



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7034.D

Injection Date: 16-Apr-2013 23:36:30

Limit Group: MV - 8260B ICAL

Client ID: EB-4 36-38

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 7

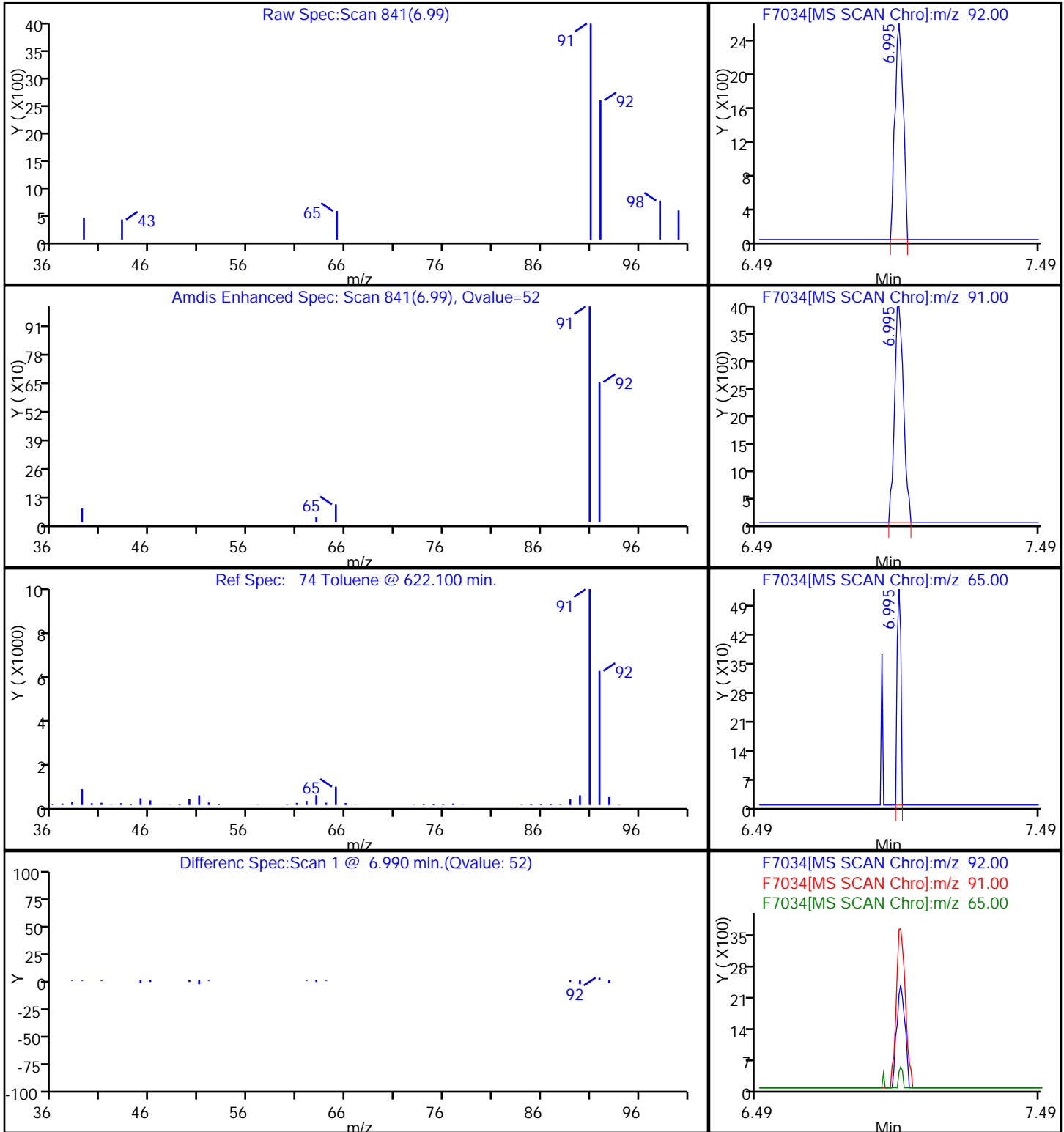
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-06 30-32 Lab Sample ID: 480-36412-2
 Matrix: Solid Lab File ID: F7035.D
 Analysis Method: 8260B Date Collected: 04/16/2013 07:30
 Sample wt/vol: 6.39(g) Date Analyzed: 04/17/2013 00:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 15.1 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.6	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.6	0.75
79-00-5	1,1,2-Trichloroethane	ND		4.6	0.60
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1
75-34-3	1,1-Dichloroethane	ND		4.6	0.56
75-35-4	1,1-Dichloroethene	ND		4.6	0.56
120-82-1	1,2,4-Trichlorobenzene	ND		4.6	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.6	2.3
106-93-4	1,2-Dibromoethane	ND		4.6	0.59
95-50-1	1,2-Dichlorobenzene	ND		4.6	0.36
107-06-2	1,2-Dichloroethane	ND		4.6	0.23
78-87-5	1,2-Dichloropropane	ND		4.6	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.6	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.6	0.65
591-78-6	2-Hexanone	ND		23	2.3
78-93-3	2-Butanone (MEK)	ND		23	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	ND		23	3.9
71-43-2	Benzene	ND		4.6	0.23
75-27-4	Bromodichloromethane	ND		4.6	0.62
75-25-2	Bromoform	ND		4.6	2.3
74-83-9	Bromomethane	ND		4.6	0.41
75-15-0	Carbon disulfide	ND		4.6	2.3
56-23-5	Carbon tetrachloride	ND		4.6	0.45
108-90-7	Chlorobenzene	ND		4.6	0.61
124-48-1	Dibromochloromethane	ND		4.6	0.59
75-00-3	Chloroethane	ND		4.6	1.0
67-66-3	Chloroform	ND		4.6	0.28
74-87-3	Chloromethane	ND		4.6	0.28
156-59-2	cis-1,2-Dichloroethene	ND		4.6	0.59
10061-01-5	cis-1,3-Dichloropropene	ND		4.6	0.66
110-82-7	Cyclohexane	ND		4.6	0.65
75-71-8	Dichlorodifluoromethane	ND		4.6	0.38
100-41-4	Ethylbenzene	ND		4.6	0.32
98-82-8	Isopropylbenzene	ND		4.6	0.69

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-06 30-32 Lab Sample ID: 480-36412-2
 Matrix: Solid Lab File ID: F7035.D
 Analysis Method: 8260B Date Collected: 04/16/2013 07:30
 Sample wt/vol: 6.39(g) Date Analyzed: 04/17/2013 00:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 15.1 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.6	0.86
1634-04-4	Methyl tert-butyl ether	ND		4.6	0.45
108-87-2	Methylcyclohexane	ND		4.6	0.70
75-09-2	Methylene Chloride	ND		4.6	2.1
100-42-5	Styrene	ND		4.6	0.23
127-18-4	Tetrachloroethene	ND		4.6	0.62
108-88-3	Toluene	0.96	J B	4.6	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.6	0.48
10061-02-6	trans-1,3-Dichloropropene	ND		4.6	2.0
79-01-6	Trichloroethene	ND		4.6	1.0
75-69-4	Trichlorofluoromethane	ND		4.6	0.44
75-01-4	Vinyl chloride	ND		4.6	0.56
1330-20-7	Xylenes, Total	ND		9.2	0.77

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	96		71-125
460-00-4	4-Bromofluorobenzene (Surr)	100		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7035.D
 Lims ID: 480-36412-A-2-A Client ID: EB-6 30-32
 Inject. Date: 17-Apr-2013 00:02:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-36412-A-2-A
 Misc. Info.: 480-0020671-008 =480-0020671-008
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 2
 Lims Batch ID: 113252 Lims Sample ID: 8
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 17-Apr-2013 02:56:24 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK030

First Level Reviewer: cwiklinc

Date: 17-Apr-2013 02:56:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	94	357257	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	86	171790	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	95	159853	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.310	5.304	0.006	97	61080	50.8	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	383384	48.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	119393	50.2	
10 Dichlorodifluoromethane	85		2.000					
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.852					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43	3.320	3.302	0.018	65	2806	3.56	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.527					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
39 1,1-Dichloroethane	63		4.178					
43 2-Butanone (MEK)	43		4.616					9
45 cis-1,2-Dichloroethene	96		4.628					
50 Chloroform	83		4.872					
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.054					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.328					9
58 1,2-Dichloroethane	62		5.365					
62 Trichloroethene	95		5.851					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
64 Methylcyclohexane	83		5.991					9
65 1,2-Dichloropropane	63		6.076					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	6.995	6.995	0.0	59	6327	1.04	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
80 2-Hexanone	43		7.591					
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91		8.473					
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	38	3205	0.7350	
91 o-Xylene	106		9.021					9
92 Styrene	104		9.045					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.724					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.740					
119 1,2,4-Trichlorobenzene	180		12.391					
S 124 Xylenes, Total	1				0		0.7350	

QC Flag Legend

Processing Flags

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7035.D

Injection Date: 17-Apr-2013 00:02:30 Limit Group: MV - 8260B ICAL

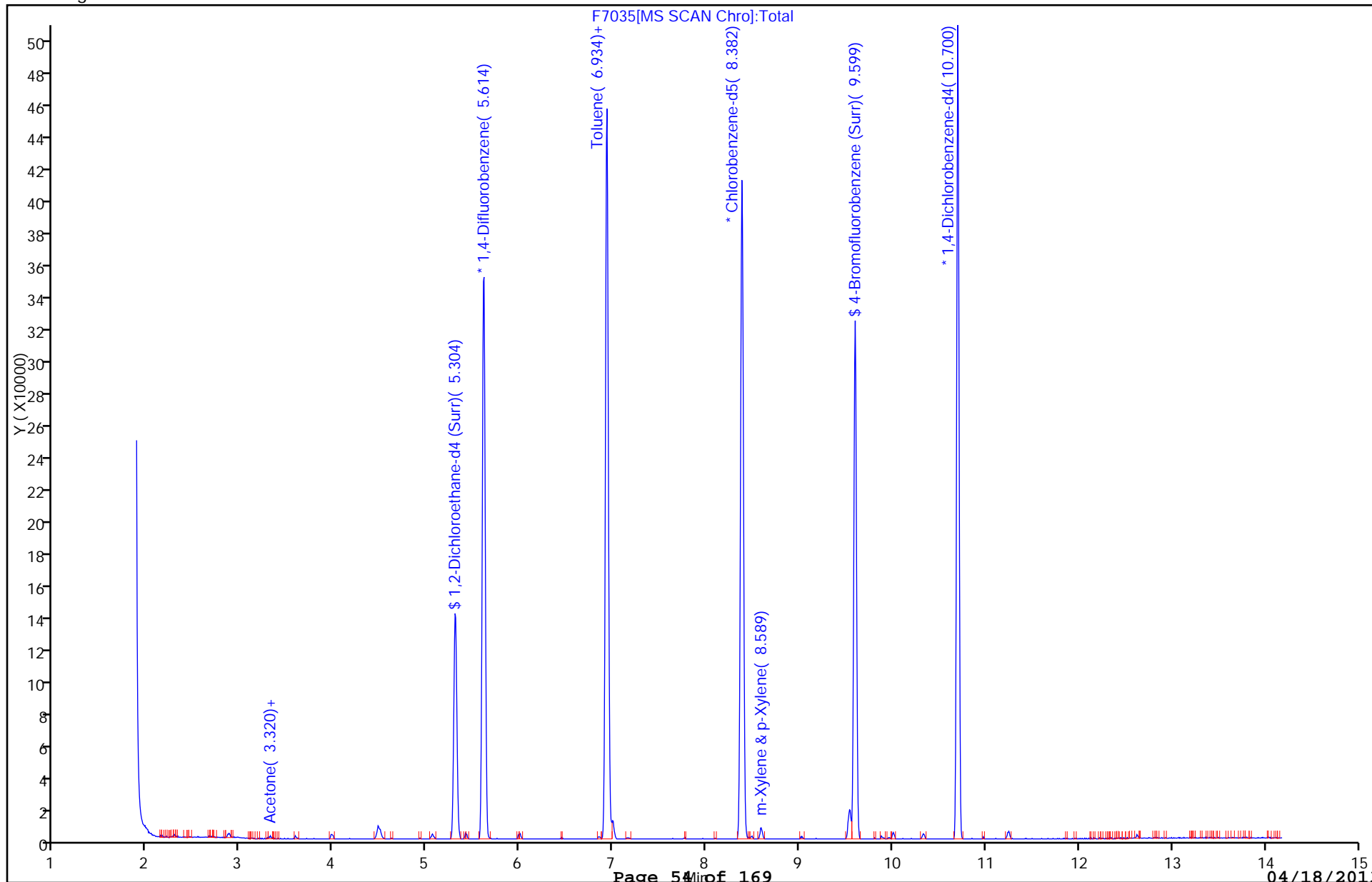
Client ID: EB-6 30-32 Instrument ID: HP5973F

Lims Batch ID: 113252 Lims Sample ID: 8

Operator ID: CDC Purge Vol: 5.000 mL

Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7035.D

Injection Date: 17-Apr-2013 00:02:30

Limit Group: MV - 8260B ICAL

Client ID: EB-6 30-32

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 8

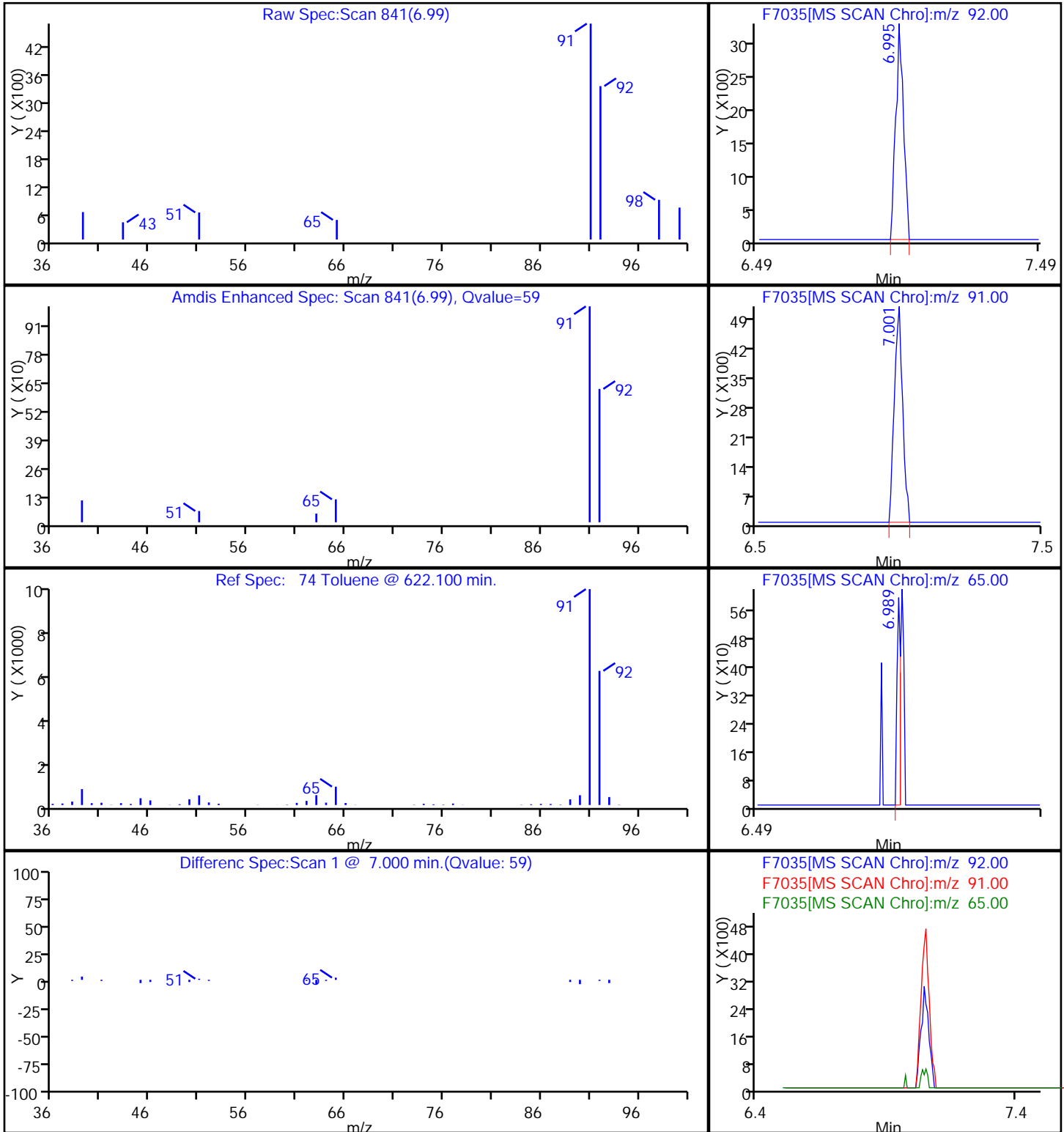
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-07 30-32 Lab Sample ID: 480-36412-3
 Matrix: Solid Lab File ID: F7036.D
 Analysis Method: 8260B Date Collected: 04/16/2013 07:30
 Sample wt/vol: 6.16(g) Date Analyzed: 04/17/2013 00:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 14.0 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.7	0.34
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.7	0.77
79-00-5	1,1,2-Trichloroethane	ND		4.7	0.61
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1
75-34-3	1,1-Dichloroethane	ND		4.7	0.58
75-35-4	1,1-Dichloroethene	ND		4.7	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		4.7	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.7	2.4
106-93-4	1,2-Dibromoethane	ND		4.7	0.61
95-50-1	1,2-Dichlorobenzene	ND		4.7	0.37
107-06-2	1,2-Dichloroethane	ND		4.7	0.24
78-87-5	1,2-Dichloropropane	ND		4.7	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.7	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.7	0.66
591-78-6	2-Hexanone	ND		24	2.4
78-93-3	2-Butanone (MEK)	ND		24	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.5
67-64-1	Acetone	ND		24	4.0
71-43-2	Benzene	ND		4.7	0.23
75-27-4	Bromodichloromethane	ND		4.7	0.63
75-25-2	Bromoform	ND		4.7	2.4
74-83-9	Bromomethane	ND		4.7	0.42
75-15-0	Carbon disulfide	ND		4.7	2.4
56-23-5	Carbon tetrachloride	ND		4.7	0.46
108-90-7	Chlorobenzene	ND		4.7	0.62
124-48-1	Dibromochloromethane	ND		4.7	0.60
75-00-3	Chloroethane	ND		4.7	1.1
67-66-3	Chloroform	ND		4.7	0.29
74-87-3	Chloromethane	ND		4.7	0.28
156-59-2	cis-1,2-Dichloroethene	ND		4.7	0.60
10061-01-5	cis-1,3-Dichloropropene	ND		4.7	0.68
110-82-7	Cyclohexane	ND		4.7	0.66
75-71-8	Dichlorodifluoromethane	ND		4.7	0.39
100-41-4	Ethylbenzene	ND		4.7	0.33
98-82-8	Isopropylbenzene	ND		4.7	0.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-07 30-32 Lab Sample ID: 480-36412-3
 Matrix: Solid Lab File ID: F7036.D
 Analysis Method: 8260B Date Collected: 04/16/2013 07:30
 Sample wt/vol: 6.16(g) Date Analyzed: 04/17/2013 00:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 14.0 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.7	0.88
1634-04-4	Methyl tert-butyl ether	ND		4.7	0.46
108-87-2	Methylcyclohexane	ND		4.7	0.72
75-09-2	Methylene Chloride	ND		4.7	2.2
100-42-5	Styrene	ND		4.7	0.24
127-18-4	Tetrachloroethene	ND		4.7	0.63
108-88-3	Toluene	0.86	J B	4.7	0.36
156-60-5	trans-1,2-Dichloroethene	ND		4.7	0.49
10061-02-6	trans-1,3-Dichloropropene	ND		4.7	2.1
79-01-6	Trichloroethene	ND		4.7	1.0
75-69-4	Trichlorofluoromethane	ND		4.7	0.45
75-01-4	Vinyl chloride	ND		4.7	0.58
1330-20-7	Xylenes, Total	ND		9.4	0.79

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7036.D
 Lims ID: 480-36412-A-3-A Client ID: EB-7 30-32
 Inject. Date: 17-Apr-2013 00:27:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-36412-A-3-A
 Misc. Info.: 480-0020671-009 =480-0020671-009
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 3
 Lims Batch ID: 113252 Lims Sample ID: 9
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 17-Apr-2013 02:57:06 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK030

First Level Reviewer: cwiklinc

Date: 17-Apr-2013 02:57:06

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	94	355772	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	84	167526	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	152474	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	60249	50.3	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	382133	49.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	117128	50.5	
10 Dichlorodifluoromethane	85		2.000					
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.852					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43		3.302					
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.527					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
39 1,1-Dichloroethane	63		4.178					
43 2-Butanone (MEK)	43		4.616					
45 cis-1,2-Dichloroethene	96		4.628					
50 Chloroform	83		4.872					9
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.054					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.328					9
58 1,2-Dichloroethane	62		5.365					
62 Trichloroethene	95		5.851					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
64 Methylcyclohexane	83		5.991					9
65 1,2-Dichloropropane	63		6.076					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	7.001	6.995	0.006	53	5420	0.9146	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
80 2-Hexanone	43		7.591					
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91		8.473					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					9
92 Styrene	104		9.045					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.724					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.740					
119 1,2,4-Trichlorobenzene	180		12.391					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7036.D

Injection Date: 17-Apr-2013 00:27:30 Limit Group: MV - 8260B ICAL

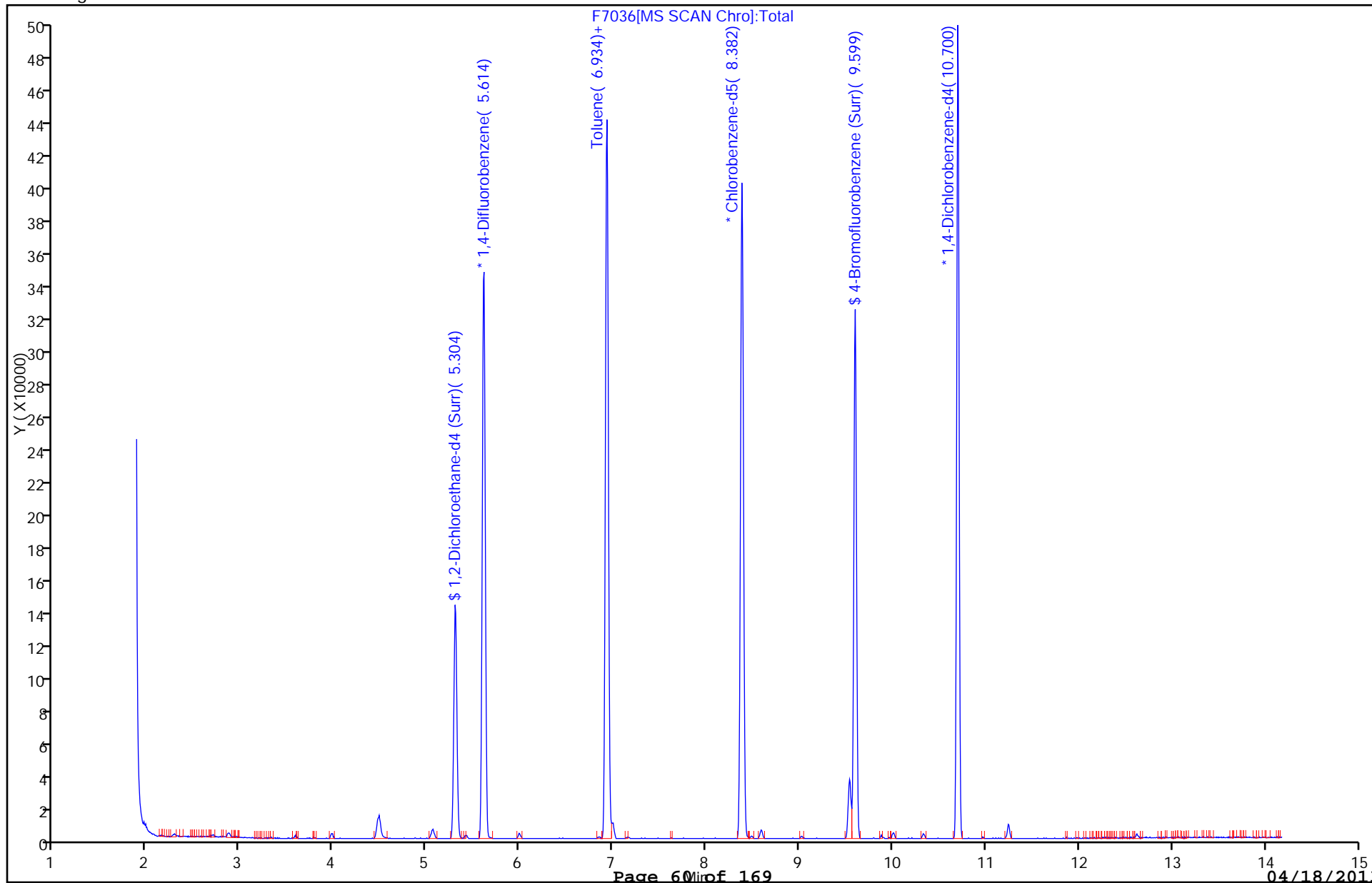
Client ID: EB-7 30-32 Instrument ID: HP5973F

Lims Batch ID: 113252 Lims Sample ID: 9

Operator ID: CDC Purge Vol: 5.000 mL

Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7036.D

Injection Date: 17-Apr-2013 00:27:30

Limit Group: MV - 8260B ICAL

Client ID: EB-7 30-32

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 9

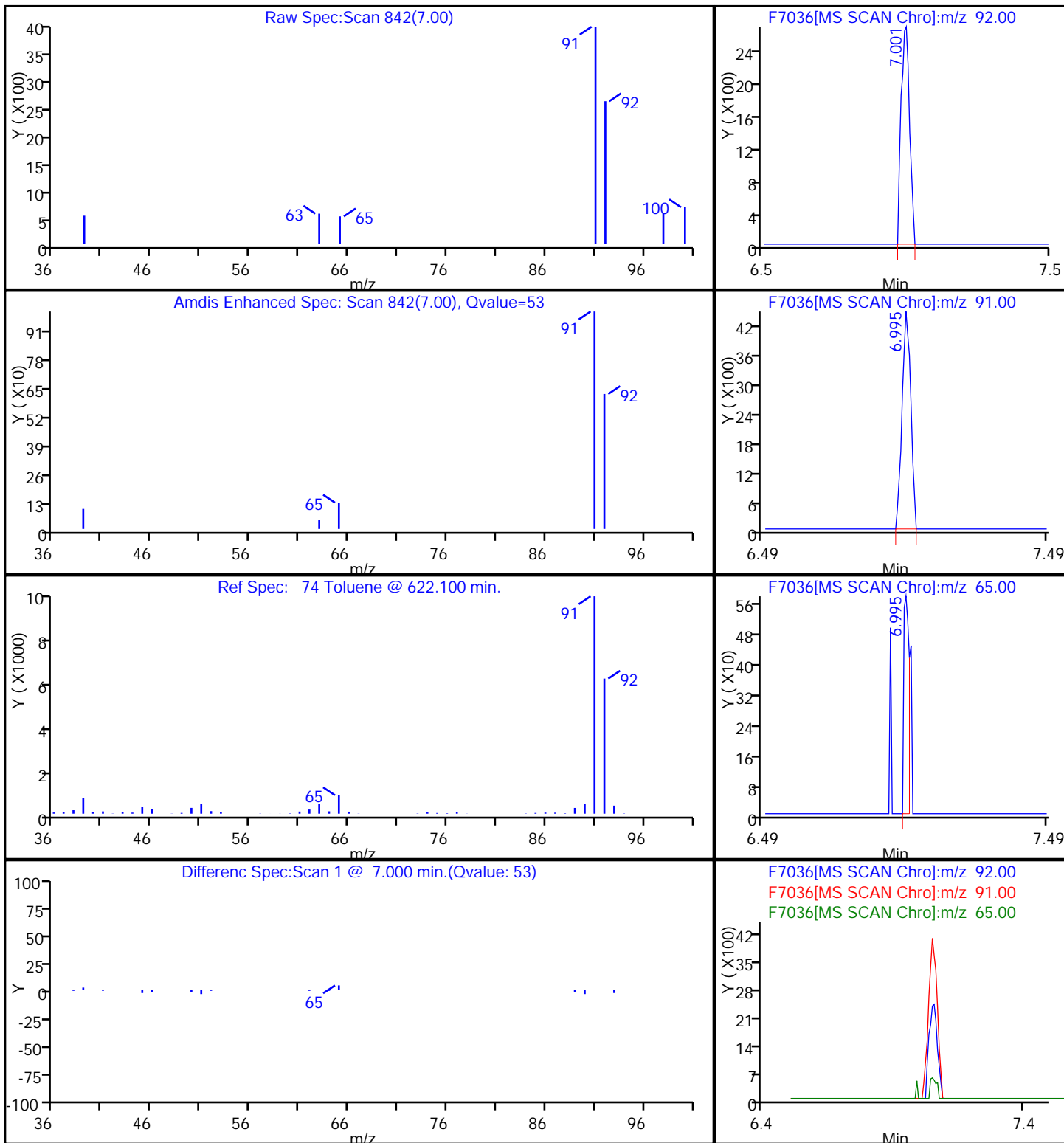
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-05 30-31 Lab Sample ID: 480-36412-4
 Matrix: Solid Lab File ID: F7037.D
 Analysis Method: 8260B Date Collected: 04/16/2013 14:30
 Sample wt/vol: 5.69(g) Date Analyzed: 04/17/2013 00:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 8.6 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.8	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.8	0.78
79-00-5	1,1,2-Trichloroethane	ND		4.8	0.62
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1
75-34-3	1,1-Dichloroethane	ND		4.8	0.59
75-35-4	1,1-Dichloroethene	ND		4.8	0.59
120-82-1	1,2,4-Trichlorobenzene	ND		4.8	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.8	2.4
106-93-4	1,2-Dibromoethane	ND		4.8	0.62
95-50-1	1,2-Dichlorobenzene	ND		4.8	0.38
107-06-2	1,2-Dichloroethane	ND		4.8	0.24
78-87-5	1,2-Dichloropropane	ND		4.8	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.8	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.8	0.67
591-78-6	2-Hexanone	ND		24	2.4
78-93-3	2-Butanone (MEK)	ND		24	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.6
67-64-1	Acetone	ND		24	4.0
71-43-2	Benzene	ND		4.8	0.24
75-27-4	Bromodichloromethane	ND		4.8	0.64
75-25-2	Bromoform	ND		4.8	2.4
74-83-9	Bromomethane	ND		4.8	0.43
75-15-0	Carbon disulfide	ND		4.8	2.4
56-23-5	Carbon tetrachloride	ND		4.8	0.47
108-90-7	Chlorobenzene	ND		4.8	0.63
124-48-1	Dibromochloromethane	ND		4.8	0.62
75-00-3	Chloroethane	ND		4.8	1.1
67-66-3	Chloroform	ND		4.8	0.30
74-87-3	Chloromethane	ND		4.8	0.29
156-59-2	cis-1,2-Dichloroethene	ND		4.8	0.62
10061-01-5	cis-1,3-Dichloropropene	ND		4.8	0.69
110-82-7	Cyclohexane	ND		4.8	0.67
75-71-8	Dichlorodifluoromethane	ND		4.8	0.40
100-41-4	Ethylbenzene	ND		4.8	0.33
98-82-8	Isopropylbenzene	ND		4.8	0.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-05 30-31 Lab Sample ID: 480-36412-4
 Matrix: Solid Lab File ID: F7037.D
 Analysis Method: 8260B Date Collected: 04/16/2013 14:30
 Sample wt/vol: 5.69(g) Date Analyzed: 04/17/2013 00:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 8.6 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.8	0.89
1634-04-4	Methyl tert-butyl ether	ND		4.8	0.47
108-87-2	Methylcyclohexane	ND		4.8	0.73
75-09-2	Methylene Chloride	ND		4.8	2.2
100-42-5	Styrene	ND		4.8	0.24
127-18-4	Tetrachloroethene	ND		4.8	0.64
108-88-3	Toluene	0.55	J B	4.8	0.36
156-60-5	trans-1,2-Dichloroethene	ND		4.8	0.50
10061-02-6	trans-1,3-Dichloropropene	ND		4.8	2.1
79-01-6	Trichloroethene	ND		4.8	1.1
75-69-4	Trichlorofluoromethane	ND		4.8	0.45
75-01-4	Vinyl chloride	ND		4.8	0.59
1330-20-7	Xylenes, Total	ND		9.6	0.81

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

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7037.D
 Lims ID: 480-36412-A-4-A Client ID: EB-5 30-31
 Inject. Date: 17-Apr-2013 00:52:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-36412-A-4-A
 Misc. Info.: 480-0020671-010 =480-0020671-010
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 4
 Lims Batch ID: 113252 Lims Sample ID: 10
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 17-Apr-2013 02:57:06 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK030

First Level Reviewer: cwiklinc

Date: 17-Apr-2013 02:57:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	94	358376	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	84	168072	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	154998	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	95	60537	50.2	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	93	388095	49.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	88	119045	51.2	
10 Dichlorodifluoromethane	85		2.000					
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.852					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43		3.302					
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.527					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
39 1,1-Dichloroethane	63		4.178					
43 2-Butanone (MEK)	43		4.616					
45 cis-1,2-Dichloroethene	96		4.628					
50 Chloroform	83		4.872					
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.054					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.328					
58 1,2-Dichloroethane	62		5.365					
62 Trichloroethene	95		5.851					

9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
64 Methylcyclohexane	83		5.991					
65 1,2-Dichloropropane	63		6.076					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	6.995	6.995	0.0	37	3395	0.5710	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
80 2-Hexanone	43		7.591					
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91		8.473					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.724					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.740					
119 1,2,4-Trichlorobenzene	180		12.391					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7037.D

Injection Date: 17-Apr-2013 00:52:30 Limit Group: MV - 8260B ICAL

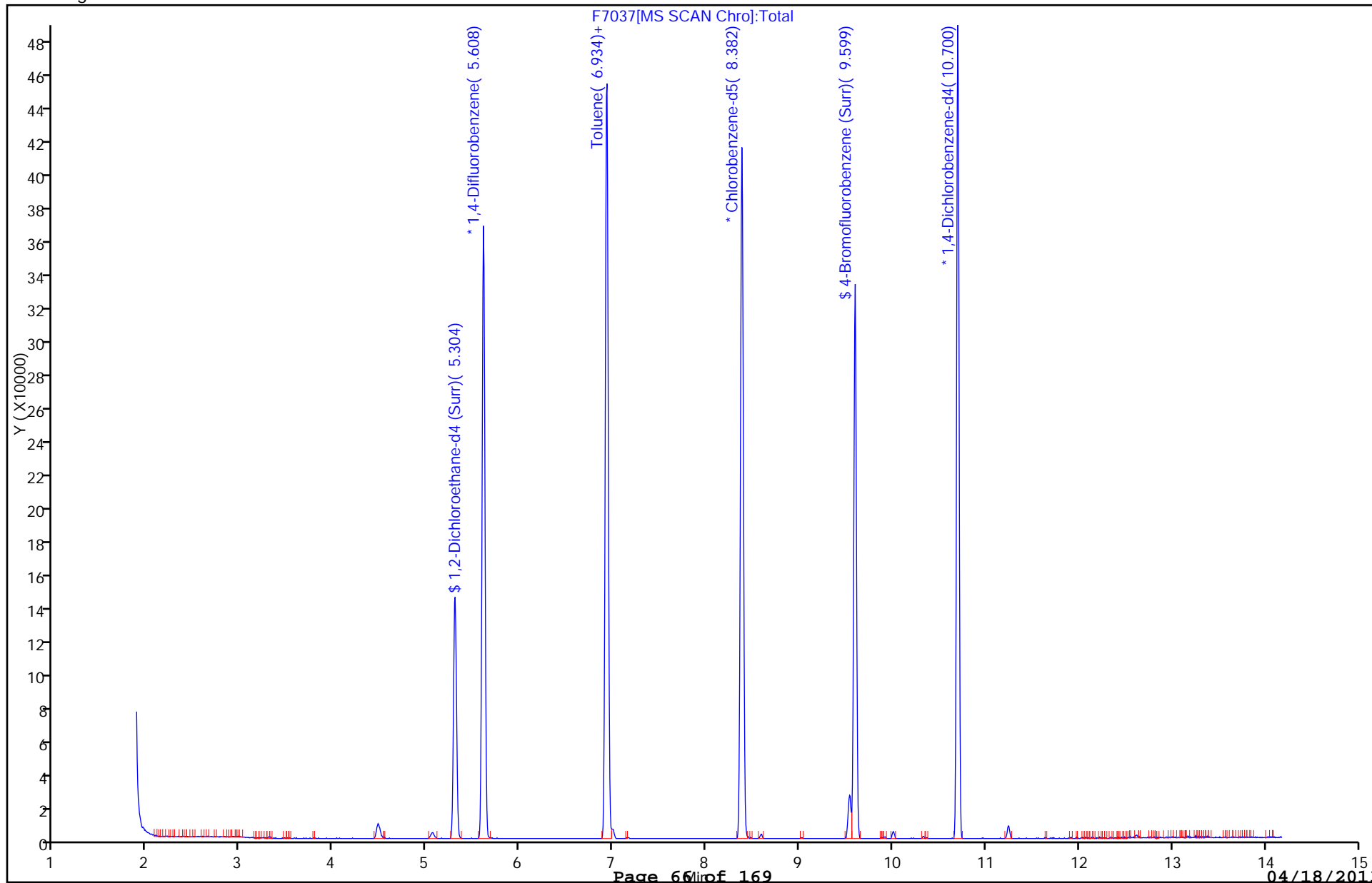
Client ID: EB-5 30-31 Instrument ID: HP5973F

Lims Batch ID: 113252 Lims Sample ID: 10

Operator ID: CDC Purge Vol: 5.000 mL

Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7037.D

Injection Date: 17-Apr-2013 00:52:30

Limit Group: MV - 8260B ICAL

Client ID: EB-5 30-31

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 10

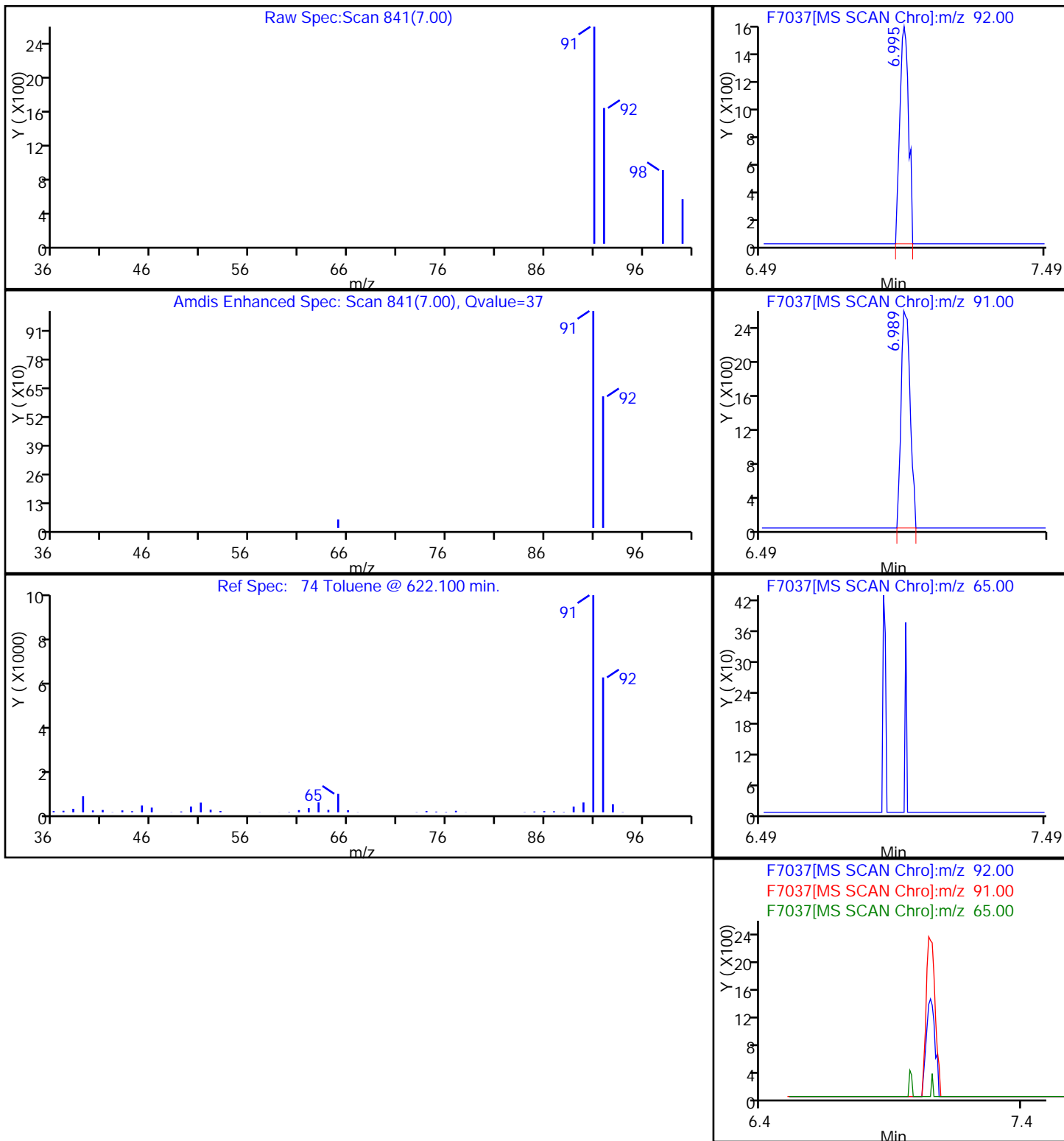
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-08 34-36 Lab Sample ID: 480-36412-5
 Matrix: Solid Lab File ID: F7038.D
 Analysis Method: 8260B Date Collected: 04/16/2013 14:30
 Sample wt/vol: 6.81(g) Date Analyzed: 04/17/2013 01:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 13.7 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.69
79-00-5	1,1,2-Trichloroethane	ND		4.3	0.55
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.97
75-34-3	1,1-Dichloroethane	ND		4.3	0.52
75-35-4	1,1-Dichloroethene	ND		4.3	0.52
120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.1
106-93-4	1,2-Dibromoethane	ND		4.3	0.55
95-50-1	1,2-Dichlorobenzene	ND		4.3	0.33
107-06-2	1,2-Dichloroethane	ND		4.3	0.21
78-87-5	1,2-Dichloropropane	ND		4.3	2.1
541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
591-78-6	2-Hexanone	ND		21	2.1
78-93-3	2-Butanone (MEK)	ND		21	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		21	1.4
67-64-1	Acetone	7.5	J	21	3.6
71-43-2	Benzene	ND		4.3	0.21
75-27-4	Bromodichloromethane	ND		4.3	0.57
75-25-2	Bromoform	ND		4.3	2.1
74-83-9	Bromomethane	ND		4.3	0.38
75-15-0	Carbon disulfide	ND		4.3	2.1
56-23-5	Carbon tetrachloride	ND		4.3	0.41
108-90-7	Chlorobenzene	ND		4.3	0.56
124-48-1	Dibromochloromethane	ND		4.3	0.54
75-00-3	Chloroethane	ND		4.3	0.96
67-66-3	Chloroform	ND		4.3	0.26
74-87-3	Chloromethane	ND		4.3	0.26
156-59-2	cis-1,2-Dichloroethene	ND		4.3	0.54
10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.61
110-82-7	Cyclohexane	1.8	J	4.3	0.60
75-71-8	Dichlorodifluoromethane	ND		4.3	0.35
100-41-4	Ethylbenzene	5.0		4.3	0.29
98-82-8	Isopropylbenzene	ND		4.3	0.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-08 34-36 Lab Sample ID: 480-36412-5
 Matrix: Solid Lab File ID: F7038.D
 Analysis Method: 8260B Date Collected: 04/16/2013 14:30
 Sample wt/vol: 6.81(g) Date Analyzed: 04/17/2013 01:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 13.7 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.3	0.79
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	0.82	J	4.3	0.65
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.21
127-18-4	Tetrachloroethene	ND		4.3	0.57
108-88-3	Toluene	0.91	J B	4.3	0.32
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.94
75-69-4	Trichlorofluoromethane	ND		4.3	0.40
75-01-4	Vinyl chloride	ND		4.3	0.52
1330-20-7	Xylenes, Total	0.71	J	8.5	0.71

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D
 Lims ID: 480-36412-A-5-A Client ID: EB-8 34-36
 Inject. Date: 17-Apr-2013 01:17:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-36412-A-5-A
 Misc. Info.: 480-0020671-011 =480-0020671-011
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 5
 Lims Batch ID: 113252 Lims Sample ID: 11
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 17-Apr-2013 02:57:41 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK030

First Level Reviewer: cwiklinc

Date: 17-Apr-2013 02:57:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	94	351749	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	85	167131	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	95	156586	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.310	5.304	0.006	97	61275	51.8	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	382923	49.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	116514	50.4	
10 Dichlorodifluoromethane	85		2.000					
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.852					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43	3.321	3.302	0.019	62	6866	8.85	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.527					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
39 1,1-Dichloroethane	63		4.178					
43 2-Butanone (MEK)	43		4.616					
45 cis-1,2-Dichloroethene	96		4.628					
50 Chloroform	83		4.872					
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56	5.060	5.054	0.006	29	8962	2.12	
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.328					9
58 1,2-Dichloroethane	62		5.365					9
62 Trichloroethene	95		5.851					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
64 Methylcyclohexane	83	5.997	5.991	0.006	38	3924	0.9670	
65 1,2-Dichloropropane	63		6.076					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	6.995	6.995	0.0	57	6351	1.07	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
80 2-Hexanone	43		7.591					
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91	8.473	8.473	0.0	90	62692	5.87	
90 m-Xylene & p-Xylene	106	8.595	8.589	0.006	45	3529	0.8318	
91 o-Xylene	106		9.021					9
92 Styrene	104		9.045					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					9
97 1,1,2,2-Tetrachloroethane	83		9.757					
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.724					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.740					
119 1,2,4-Trichlorobenzene	180		12.391					
S 124 Xylenes, Total	1				0		0.8318	

QC Flag Legend

Processing Flags

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30 Limit Group: MV - 8260B ICAL

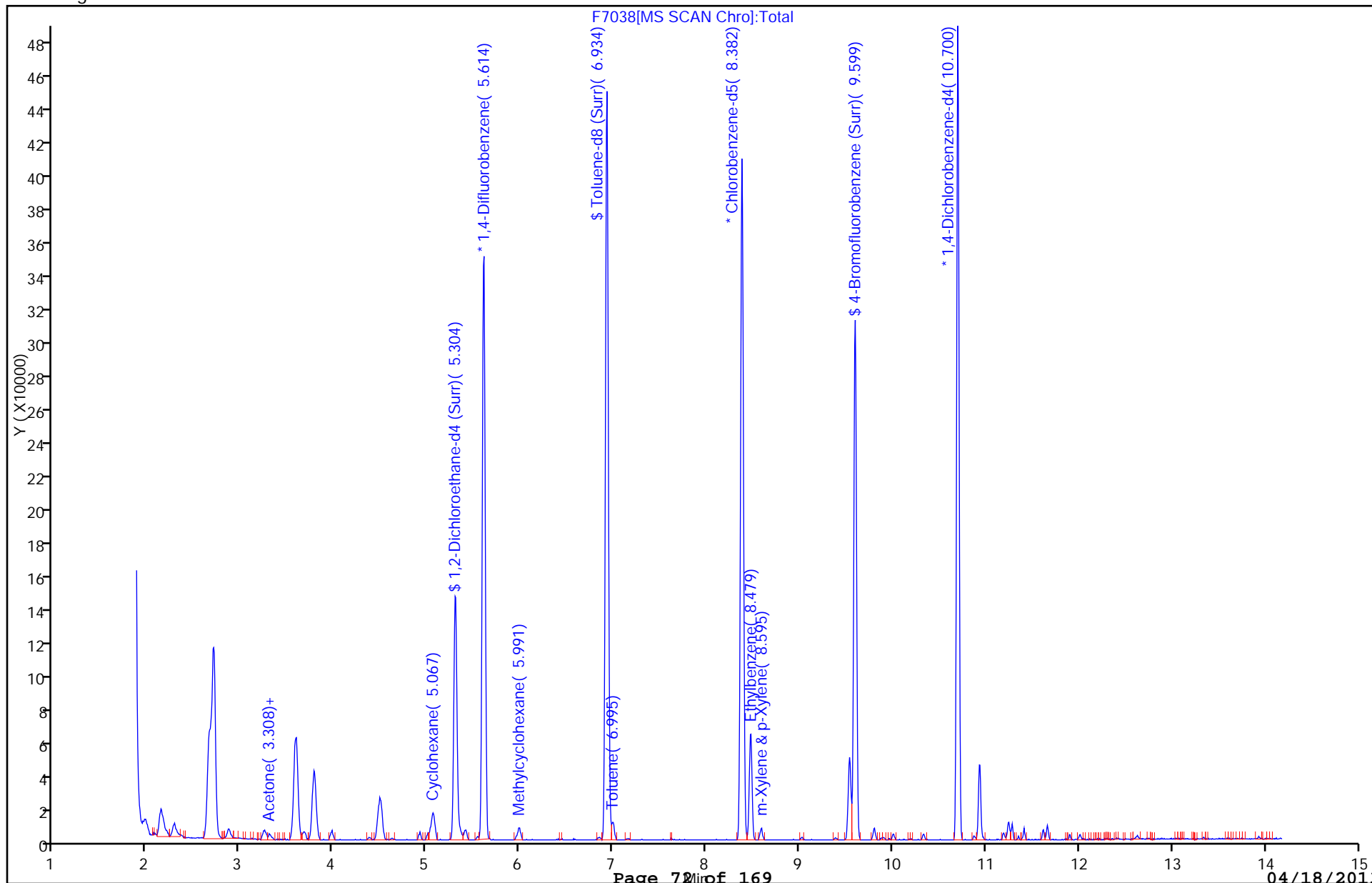
Client ID: EB-8 34-36 Instrument ID: HP5973F

Lims Batch ID: 113252 Lims Sample ID: 11

Operator ID: CDC Purge Vol: 5.000 mL

Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30

Limit Group: MV - 8260B ICAL

Client ID: EB-8 34-36

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 11

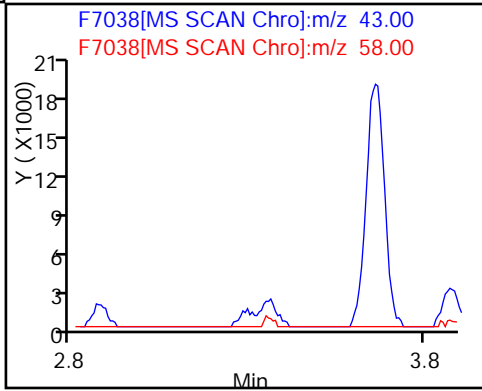
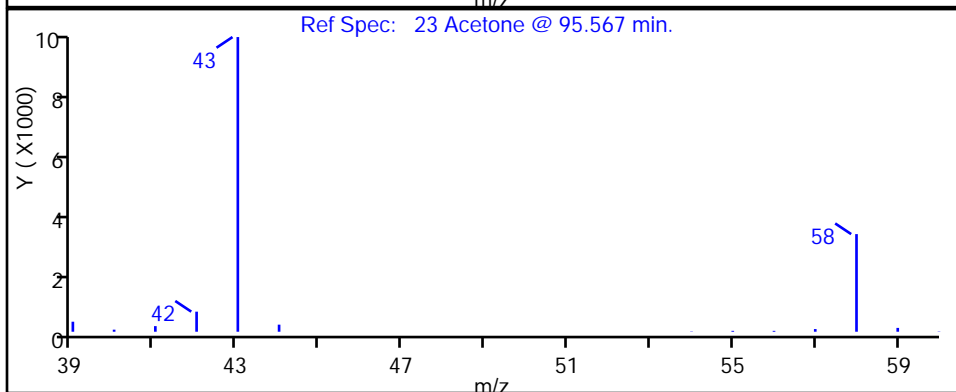
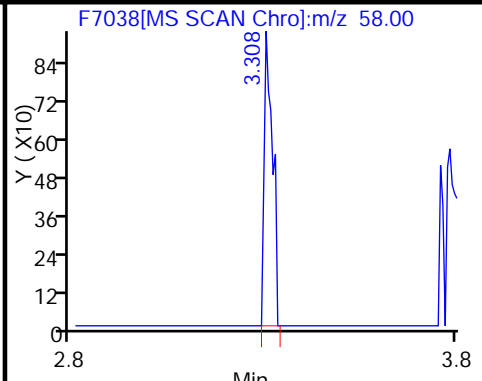
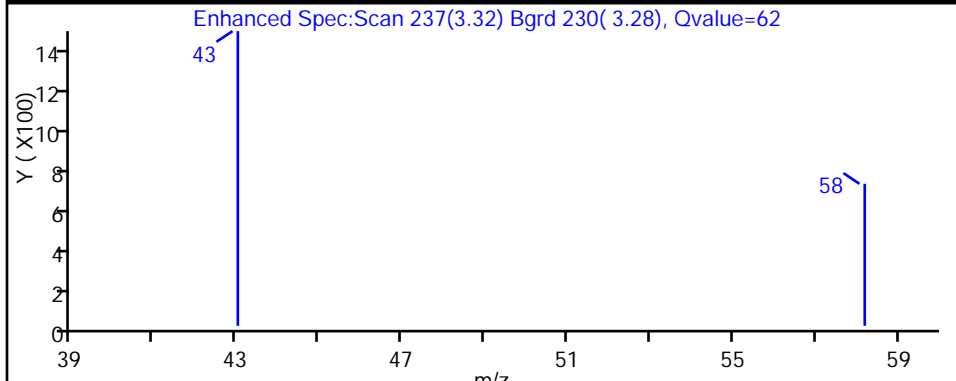
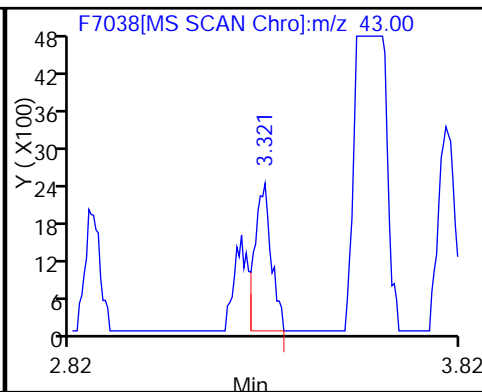
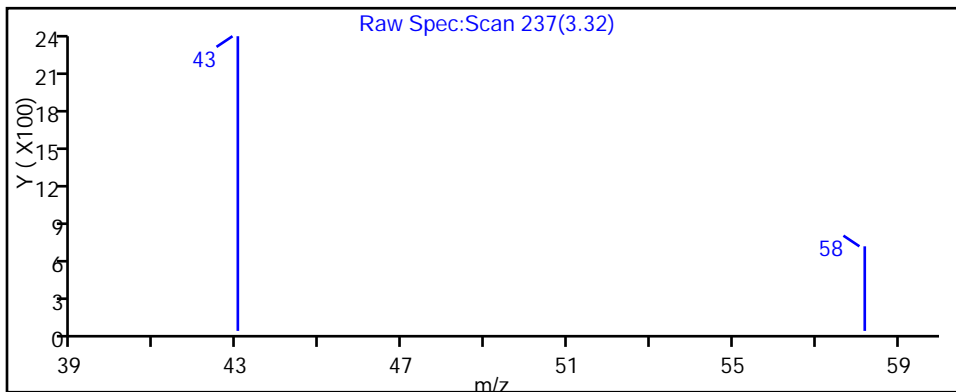
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

23 Acetone



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30

Limit Group: MV - 8260B ICAL

Client ID: EB-8 34-36

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 11

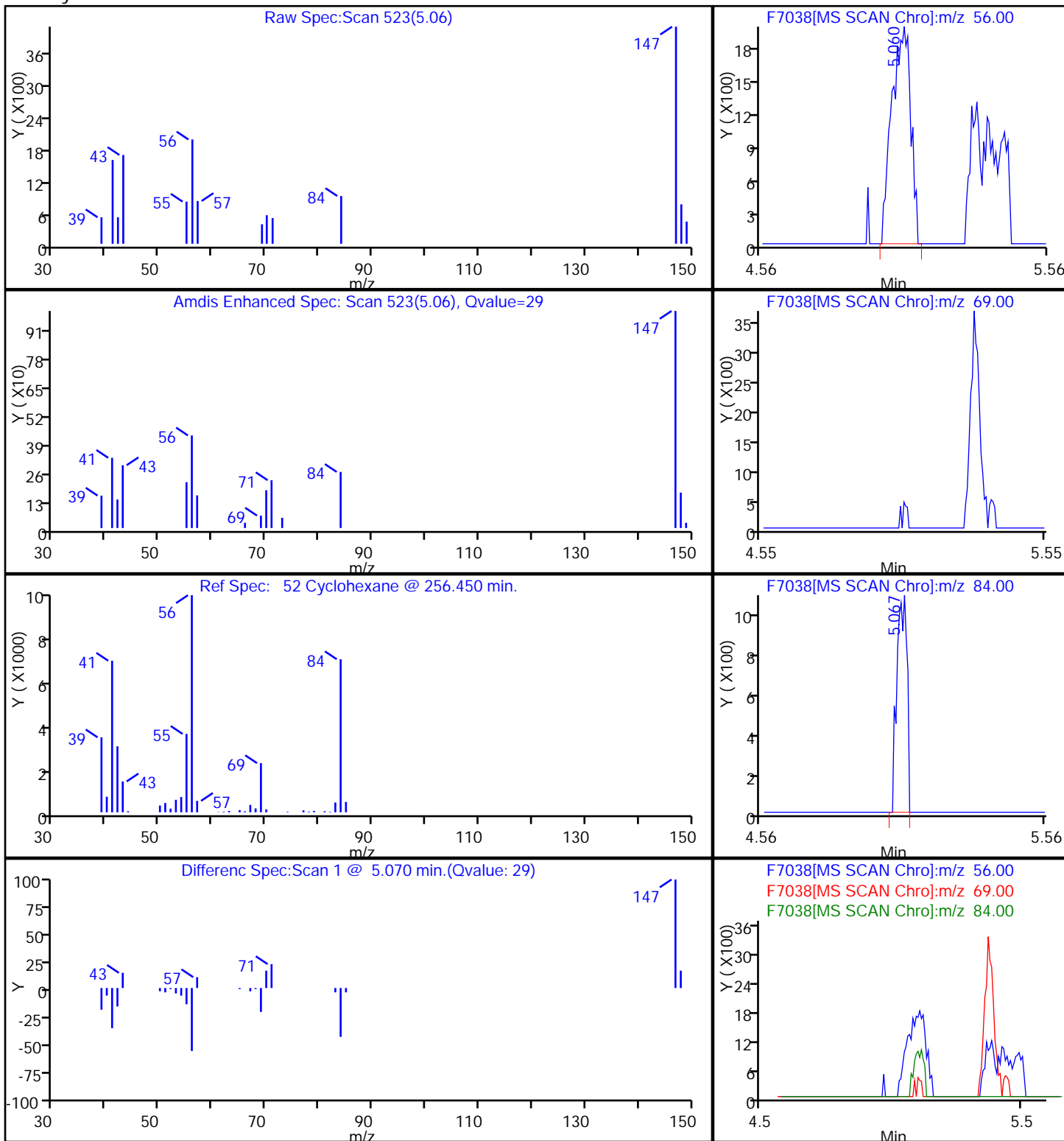
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

52 Cyclohexane



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30

Limit Group: MV - 8260B ICAL

Client ID: EB-8 34-36

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 11

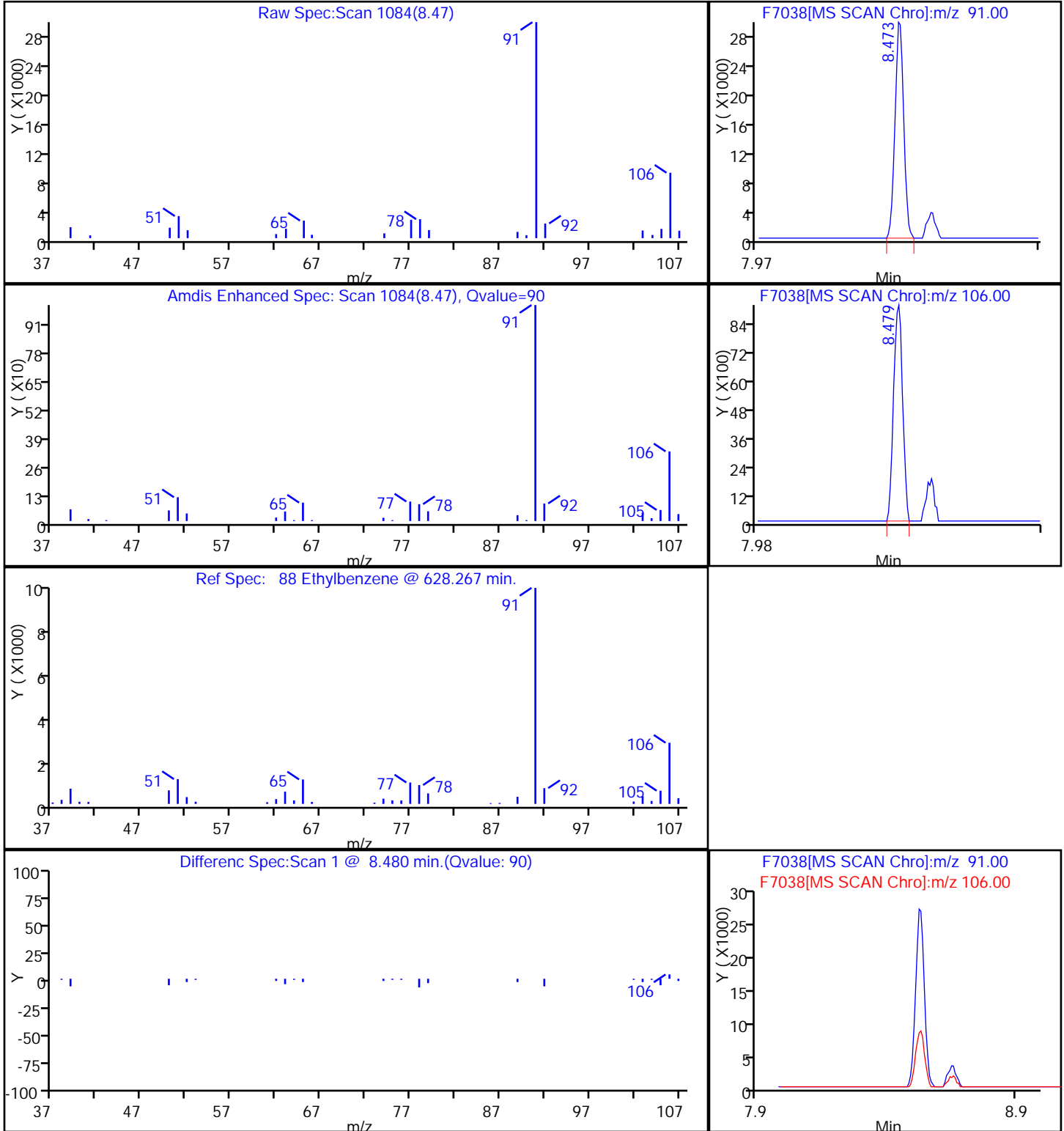
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

88 Ethylbenzene



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30

Limit Group: MV - 8260B ICAL

Client ID: EB-8 34-36

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 11

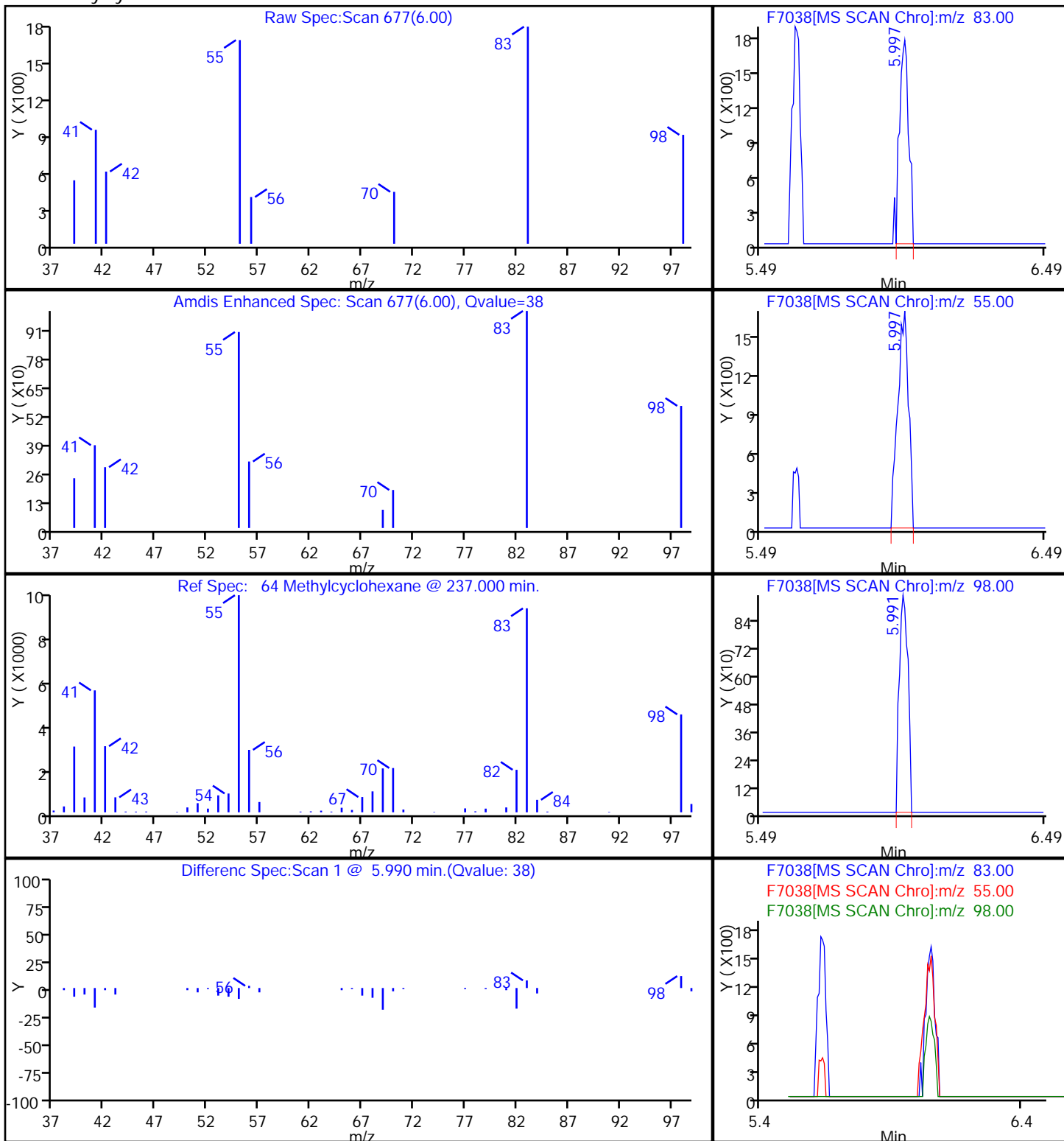
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

64 Methylcyclohexane



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30

Limit Group: MV - 8260B ICAL

Client ID: EB-8 34-36

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 11

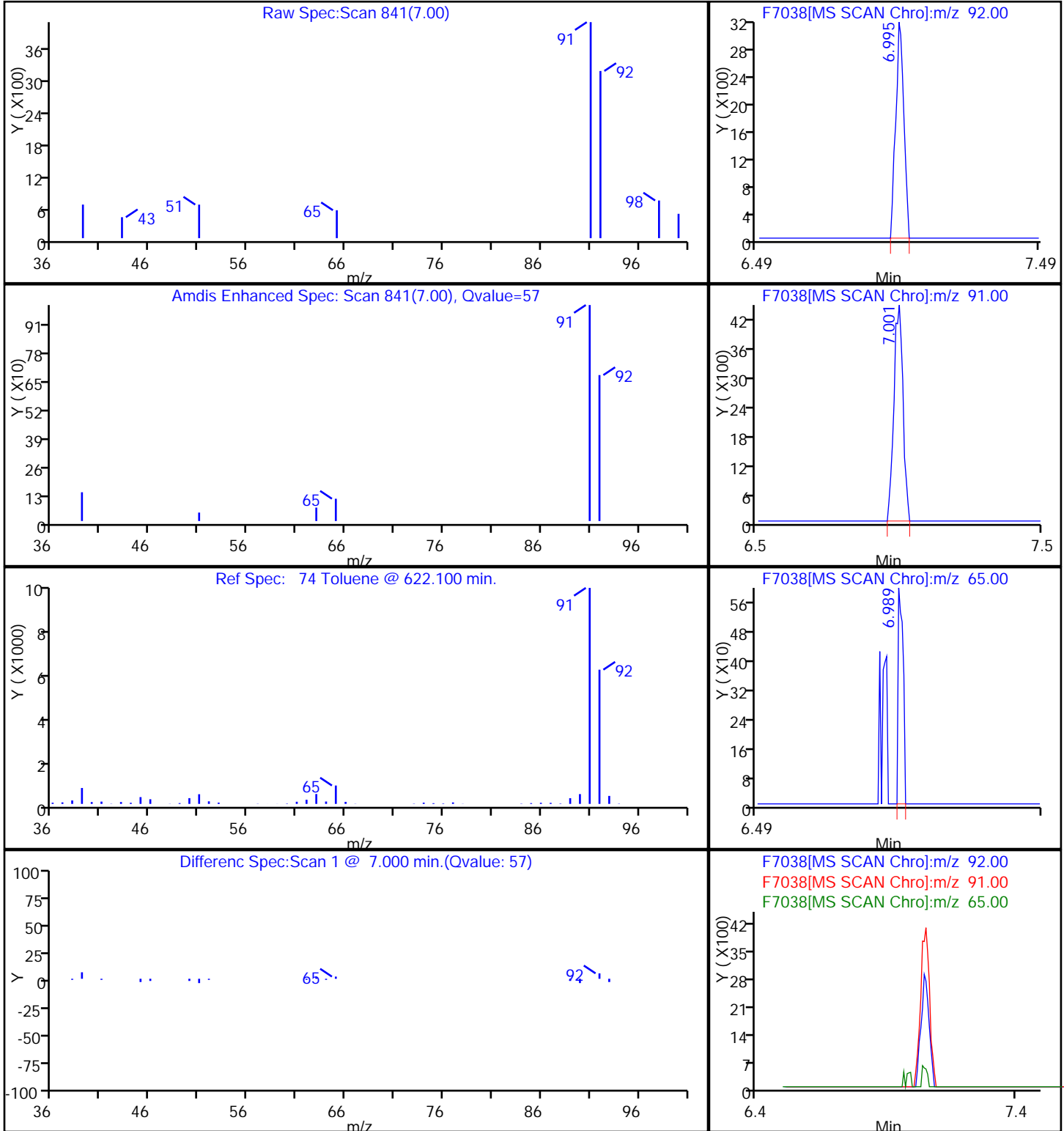
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7038.D

Injection Date: 17-Apr-2013 01:17:30

Limit Group: MV - 8260B ICAL

Client ID: EB-8 34-36

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 11

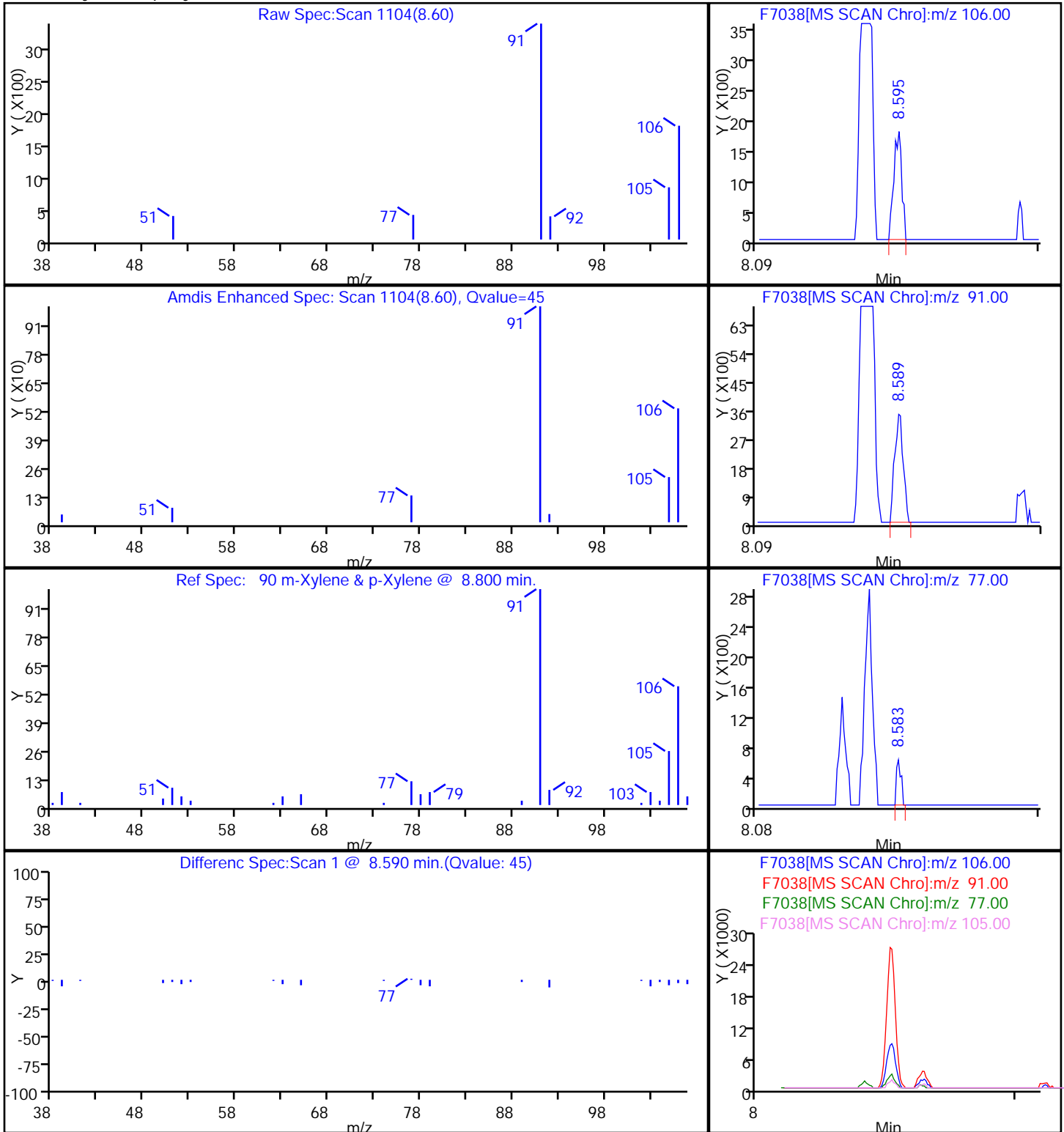
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

90 m-Xylene & p-Xylene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-09 38-40 Lab Sample ID: 480-36412-6
 Matrix: Solid Lab File ID: F7039.D
 Analysis Method: 8260B Date Collected: 04/16/2013 14:30
 Sample wt/vol: 6.6(g) Date Analyzed: 04/17/2013 01:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 11.7 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.70
79-00-5	1,1,2-Trichloroethane	ND		4.3	0.56
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.98
75-34-3	1,1-Dichloroethane	ND		4.3	0.52
75-35-4	1,1-Dichloroethene	ND		4.3	0.53
120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.1
106-93-4	1,2-Dibromoethane	ND		4.3	0.55
95-50-1	1,2-Dichlorobenzene	ND		4.3	0.34
107-06-2	1,2-Dichloroethane	ND		4.3	0.22
78-87-5	1,2-Dichloropropane	ND		4.3	2.1
541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
591-78-6	2-Hexanone	ND		21	2.1
78-93-3	2-Butanone (MEK)	ND		21	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		21	1.4
67-64-1	Acetone	6.9	J	21	3.6
71-43-2	Benzene	ND		4.3	0.21
75-27-4	Bromodichloromethane	ND		4.3	0.57
75-25-2	Bromoform	ND		4.3	2.1
74-83-9	Bromomethane	ND		4.3	0.39
75-15-0	Carbon disulfide	ND		4.3	2.1
56-23-5	Carbon tetrachloride	ND		4.3	0.42
108-90-7	Chlorobenzene	ND		4.3	0.57
124-48-1	Dibromochloromethane	ND		4.3	0.55
75-00-3	Chloroethane	ND		4.3	0.97
67-66-3	Chloroform	ND		4.3	0.27
74-87-3	Chloromethane	ND		4.3	0.26
156-59-2	cis-1,2-Dichloroethene	ND		4.3	0.55
10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.62
110-82-7	Cyclohexane	ND		4.3	0.60
75-71-8	Dichlorodifluoromethane	ND		4.3	0.35
100-41-4	Ethylbenzene	0.43	J	4.3	0.30
98-82-8	Isopropylbenzene	ND		4.3	0.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: EB-09 38-40 Lab Sample ID: 480-36412-6
 Matrix: Solid Lab File ID: F7039.D
 Analysis Method: 8260B Date Collected: 04/16/2013 14:30
 Sample wt/vol: 6.6(g) Date Analyzed: 04/17/2013 01:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: 11.7 Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.3	0.80
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.65
75-09-2	Methylene Chloride	ND		4.3	2.0
100-42-5	Styrene	ND		4.3	0.21
127-18-4	Tetrachloroethene	ND		4.3	0.58
108-88-3	Toluene	0.89	J B	4.3	0.32
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	ND		4.3	0.94
75-69-4	Trichlorofluoromethane	ND		4.3	0.41
75-01-4	Vinyl chloride	ND		4.3	0.52
1330-20-7	Xylenes, Total	1.2	J	8.6	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7039.D
 Lims ID: 480-36412-A-6-A Client ID: EB-9 38-40
 Inject. Date: 17-Apr-2013 01:43:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-36412-A-6-A
 Misc. Info.: 480-0020671-012 =480-0020671-012
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 6
 Lims Batch ID: 113252 Lims Sample ID: 12
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 17-Apr-2013 02:58:32 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK030

First Level Reviewer: cwiklinc

Date: 17-Apr-2013 02:58:32

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	94	350681	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	84	166908	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	153805	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	60038	50.9	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	91	377630	48.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	114796	49.7	
10 Dichlorodifluoromethane	85		2.000					
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.852					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43	3.314	3.302	0.012	66	6243	8.07	
26 Carbon disulfide	76	3.491	3.473	0.019	78	12010	2.26	
27 Methyl acetate	43		3.527					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
39 1,1-Dichloroethane	63		4.178					
43 2-Butanone (MEK)	43		4.616					9
45 cis-1,2-Dichloroethene	96		4.628					
50 Chloroform	83		4.872					9
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.054					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.328					9
58 1,2-Dichloroethane	62		5.365					
62 Trichloroethene	95		5.851					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
64 Methylcyclohexane	83		5.991					9
65 1,2-Dichloropropane	63		6.076					
68 Dichlorobromomethane	83		6.320					9
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	6.995	6.995	0.0	61	6134	1.04	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
80 2-Hexanone	43		7.591					9
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91	8.473	8.473	0.0	1	5320	0.4987	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	82	5803	1.37	
91 o-Xylene	106		9.021					9
92 Styrene	104		9.045					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					9
97 1,1,2,2-Tetrachloroethane	83		9.757					
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.724					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.740					
119 1,2,4-Trichlorobenzene	180		12.391					
S 124 Xylenes, Total	1				0		1.37	

QC Flag Legend

Processing Flags

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7039.D

Injection Date: 17-Apr-2013 01:43:30 Limit Group: MV - 8260B ICAL

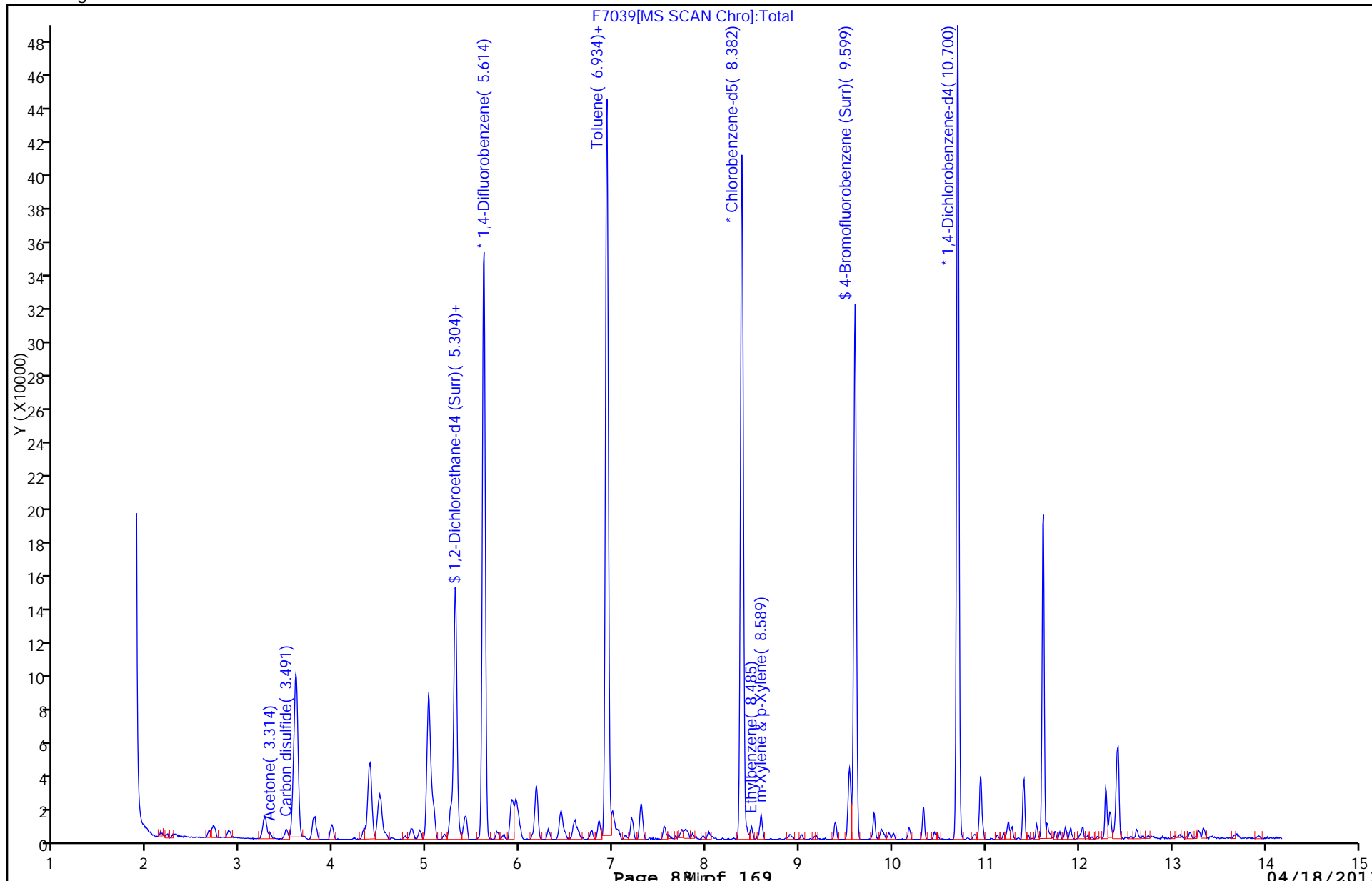
Client ID: EB-9 38-40 Instrument ID: HP5973F

Lims Batch ID: 113252 Lims Sample ID: 12

Operator ID: CDC Purge Vol: 5.000 mL

Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7039.D

Injection Date: 17-Apr-2013 01:43:30

Limit Group: MV - 8260B ICAL

Client ID: EB-9 38-40

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 12

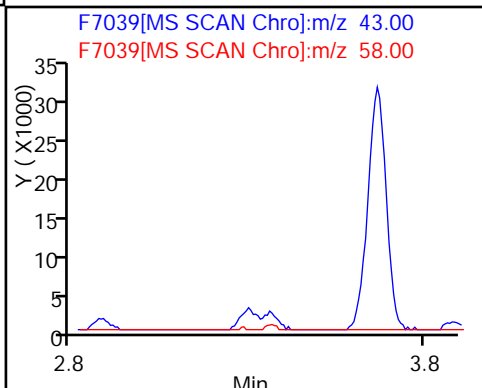
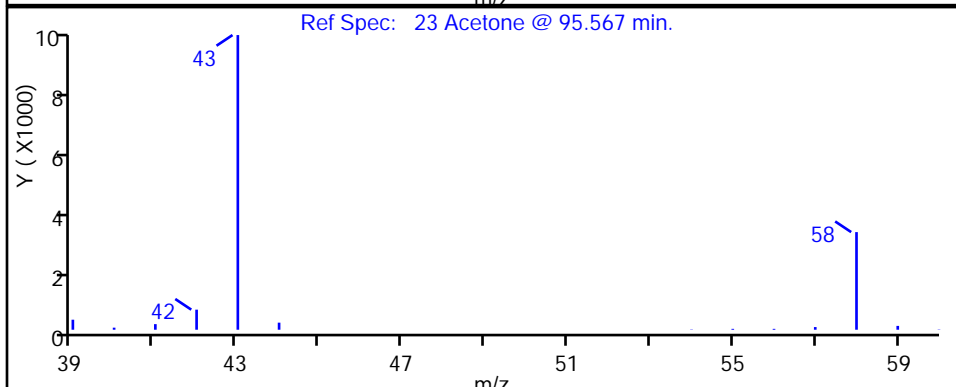
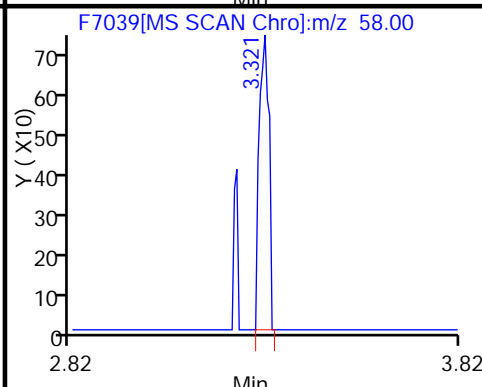
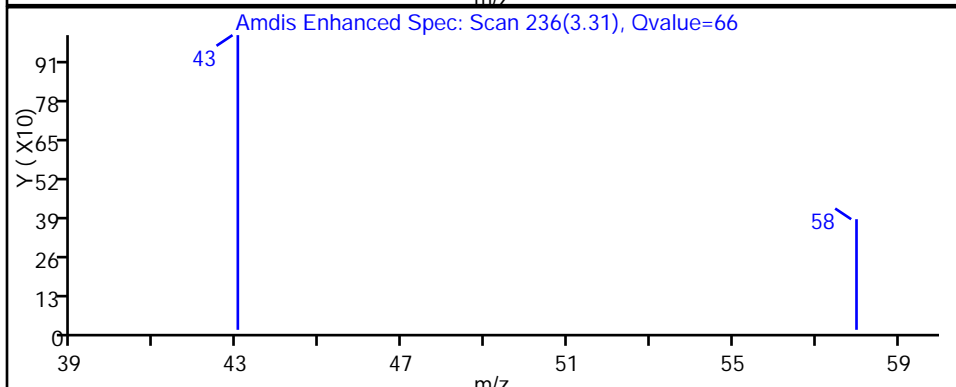
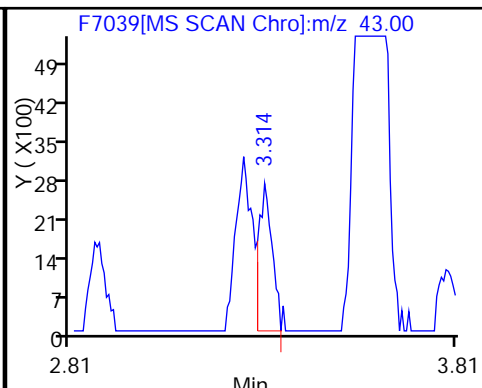
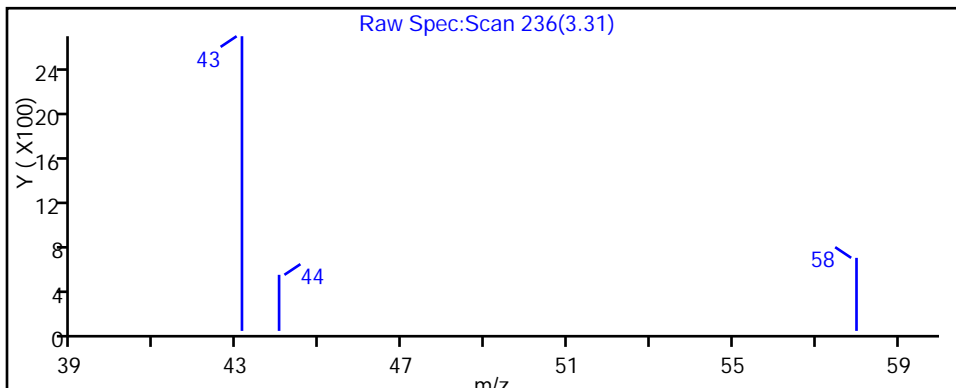
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

23 Acetone



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7039.D

Injection Date: 17-Apr-2013 01:43:30

Limit Group: MV - 8260B ICAL

Client ID: EB-9 38-40

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 12

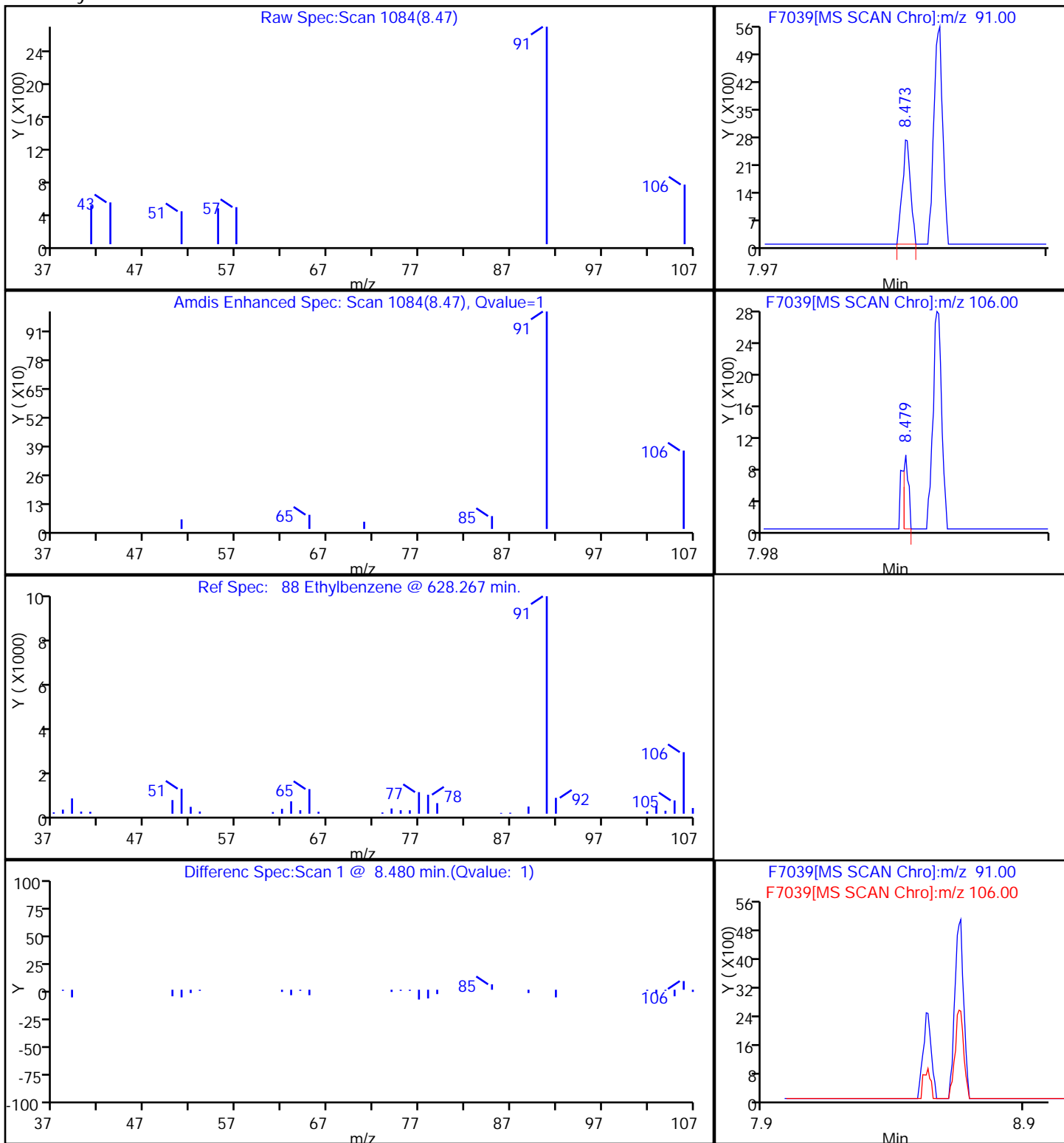
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

88 Ethylbenzene



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7039.D

Injection Date: 17-Apr-2013 01:43:30

Limit Group: MV - 8260B ICAL

Client ID: EB-9 38-40

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 12

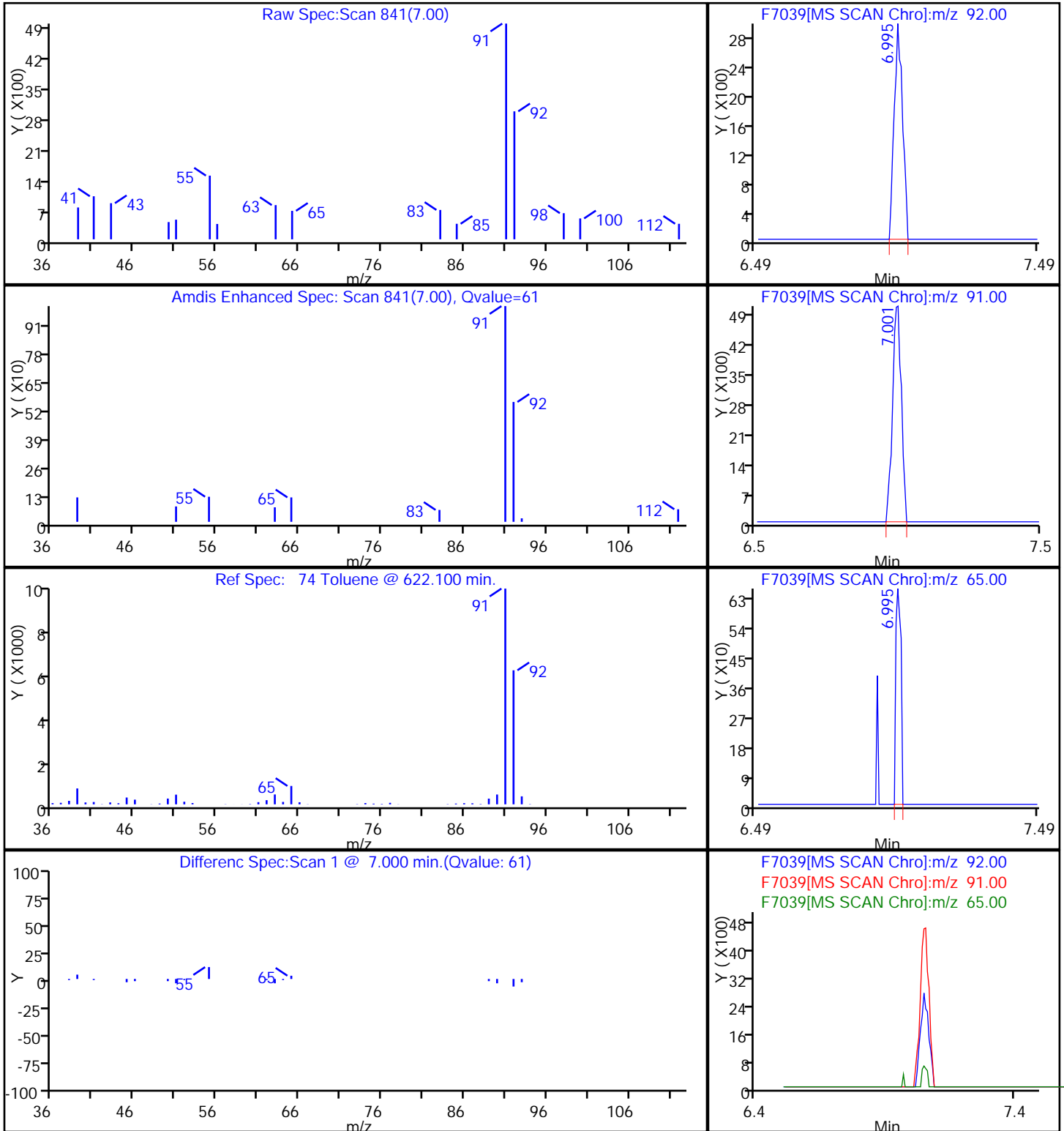
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7039.D

Injection Date: 17-Apr-2013 01:43:30

Limit Group: MV - 8260B ICAL

Client ID: EB-9 38-40

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 12

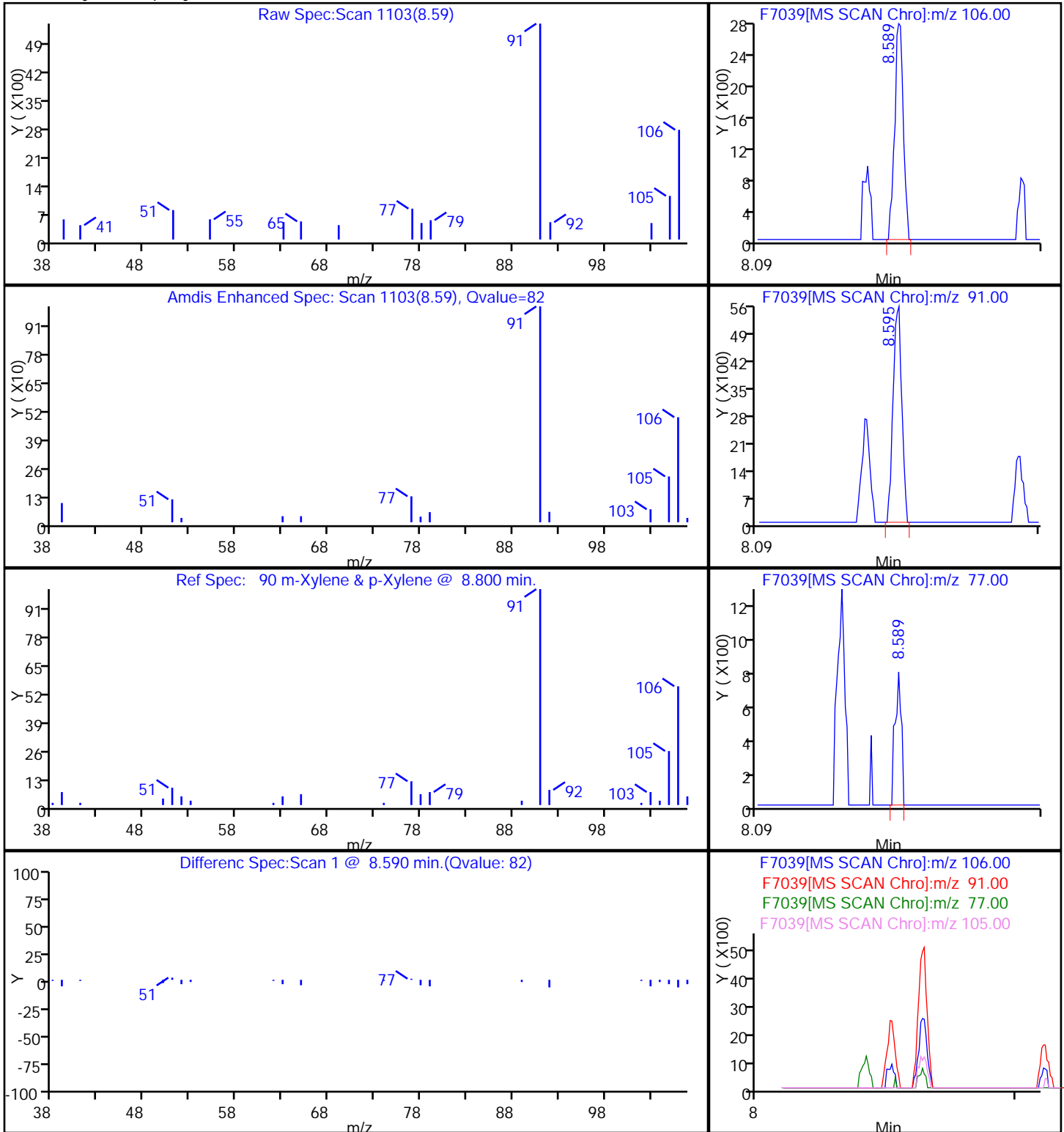
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

90 m-Xylene & p-Xylene



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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1 Analy Batch No.: 110659

SDG No.: _____

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

Calibration Start Date: 04/03/2013 13:16 Calibration End Date: 04/03/2013 15:49 Calibration ID: 13049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-110659/4	F6722.D
Level 2	STD2 480-110659/5	F6723.D
Level 3	STD3 480-110659/6	F6724.D
Level 4	STD4 480-110659/7	F6725.D
Level 5	STD5 480-110659/8	F6726.D
Level 6	STD6 480-110659/9	F6727.D
Level 7	STD7 480-110659/10	F6728.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	0.2296 0.2566	0.2508 0.2352	0.2567	0.2408	0.2285	Ave		0.2426			5.0		15.0				
Chloromethane	0.3057 0.2509	0.2905 0.2391	0.2911	0.2668	0.2582	Ave		0.2718		0.1000	9.0		15.0				
Vinyl chloride	0.2727 0.2313	0.2688 0.2177	0.2418	0.2327	0.2258	Ave		0.2416			8.8		30.0				
Bromomethane	0.1201 0.1116	0.1168 0.1226	0.1090	0.1104	0.1057	Ave		0.1138			5.5		15.0				
Chloroethane	0.1058 0.1020	0.1129 0.1092	0.1071	0.1013	0.0990	Ave		0.1053			4.6		15.0				
Trichlorofluoromethane	0.3523 0.3355	0.3449 0.3392	0.2619	0.3145	0.3171	Ave		0.3236			9.4		15.0				
Acrolein	0.0562 0.0526	0.0602 0.0509	0.0606	0.0581	0.0559	Ave		0.0563			6.5		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2704 0.2691	0.2945 0.2575	0.2724	0.2703	0.2583	Ave		0.2704			4.5		15.0				
1,1-Dichloroethene	0.2953 0.2829	0.3229 0.2746	0.2905	0.2929	0.2851	Ave		0.2920			5.2		30.0				
Acetone	0.1178 0.0999	0.1207 0.0956	0.1212	0.1097	0.1072	Ave		0.1103			9.2		15.0				
Iodomethane	0.3473 0.3624	0.3481 0.3611	0.3647	0.3665	0.3630	Ave		0.3590			2.2		15.0				
Carbon disulfide	0.6485 0.8425	0.6713 0.8520	0.7318	0.7719	0.7931	Ave		0.7587			10.0		15.0				
Methyl acetate	0.4744 0.4504	0.4909 0.4289	0.5195	0.4850	0.4811	Ave		0.4757			6.1		15.0				
Acetonitrile	0.0229 0.0228	0.0263 0.0217	0.0272	0.0259	0.0244	Ave		0.0245			8.4		15.0				

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

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

Lab Name: TestAmerica Buffalo

Job No.: 480-36412-1

Analy Batch No.: 110659

SDG No.: _____

Instrument ID: HP5973F

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

Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 13:16

Calibration End Date: 04/03/2013 15:49

Calibration ID: 13049

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylene Chloride	0.4659 0.3373	0.4308 0.3306	0.3948	0.3754	0.3571	Ave		0.3846			13.0		15.0				
Methyl tert-butyl ether	1.0072 0.9553	0.9989 0.9437	1.0346	1.0260	0.9962	Ave		0.9946			3.4		15.0				
trans-1,2-Dichloroethene	0.3562 0.3249	0.3429 0.3123	0.3526	0.3430	0.3330	Ave		0.3378			4.6		15.0				
Acrylonitrile	0.1416 0.1367	0.1508 0.1315	0.1571	0.1482	0.1449	Ave		0.1444			6.0		15.0				
Vinyl acetate	0.6063 0.5599	0.6201 0.5183	0.6538	0.6276	0.6022	Ave		0.5983			7.6		15.0				
1,1-Dichloroethane	0.6278 0.5642	0.6257 0.5436	0.6218	0.6091	0.5814	Ave		0.5962		0.1000	5.6		15.0				
2-Butanone (MEK)	0.1828 0.1689	0.1888 0.1608	0.1990	0.1860	0.1814	Ave		0.1811			7.0		15.0				
2,2-Dichloropropane	0.4466 0.4494	0.4693 0.4339	0.4634	0.4469	0.4415	Ave		0.4501			2.7		15.0				
cis-1,2-Dichloroethene	0.3609 0.3586	0.3921 0.3446	0.3881	0.3890	0.3713	Ave		0.3721			4.9		15.0				
Bromochloromethane	0.1692 0.1747	0.1781 0.1724	0.1906	0.1906	0.1800	Ave		0.1794			4.7		15.0				
Tetrahydrofuran	0.1227 0.1110	0.1287 0.1049	0.1336	0.1238	0.1200	Ave		0.1207			8.2		15.0				
Chloroform	0.5746 0.5605	0.5879 0.5541	0.5914	0.5975	0.5664	Ave		0.5761			2.9		30.0				
1,1,1-Trichloroethane	0.4643 0.4962	0.4918 0.4948	0.4776	0.4919	0.4822	Ave		0.4856			2.4		15.0				
Cyclohexane	0.6218 0.5907	0.6319 0.5620	0.6415	0.6037	0.5636	Ave		0.6022			5.3		15.0				
1,1-Dichloropropene	0.4535 0.4351	0.4812 0.4200	0.4581	0.4521	0.4300	Ave		0.4471			4.6		15.0				
Carbon tetrachloride	0.3610 0.4309	0.3807 0.4324	0.4019	0.3975	0.4080	Ave		0.4018			6.4		15.0				
Benzene	1.4144 1.2893	1.4325 1.2404	1.3999	1.3681	1.3177	Ave		1.3518			5.3		15.0				
1,2-Dichloroethane	0.4595 0.4431	0.4654 0.4343	0.4774	0.4646	0.4529	Ave		0.4567			3.2		15.0				
Trichloroethene	0.3492 0.3410	0.3484 0.3346	0.3602	0.3463	0.3372	Ave		0.3453			2.5		15.0				
Methylcyclohexane	0.5685 0.5702	0.6092 0.5469	0.6083	0.5846	0.5503	Ave		0.5768			4.4		15.0				

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

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

Lab Name: TestAmerica Buffalo

Job No.: 480-36412-1

Analy Batch No.: 110659

SDG No.: _____

Instrument ID: HP5973F

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

Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 13:16

Calibration End Date: 04/03/2013 15:49

Calibration ID: 13049

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,2-Dichloropropane	0.3577 0.3422	0.3396 0.3292	0.3509	0.3537	0.3486	Ave		0.3460			2.8		30.0				
Dibromomethane	0.1889 0.1973	0.1833 0.1986	0.2022	0.2038	0.2007	Ave		0.1964			3.8		15.0				
Bromodichloromethane	0.3267 0.4242	0.3474 0.4343	0.3820	0.3929	0.4128	Ave		0.3886			10.0		15.0				
2-Chloroethyl vinyl ether	0.2212 0.2130	0.2253 0.1984	0.2370	0.2324	0.2268	Ave		0.2220			5.8		15.0				
cis-1,3-Dichloropropene	0.4286 0.5203	0.4742 0.5209	0.4898	0.5146	0.5196	Ave		0.4954			7.0		15.0				
4-Methyl-2-pentanone (MIBK)	0.7261 0.6895	0.7688 0.6409	0.8101	0.7546	0.7460	Ave		0.7337			7.5		15.0				
Toluene	1.9277 1.6658	1.9338 1.6104	1.7794	1.7544	1.7099	Ave		1.7688			7.0		30.0				
Ethyl methacrylate	0.7218 0.8131	0.7820 0.8015	0.8408	0.8545	0.8491	Ave		0.8090			5.8		15.0				
trans-1,3-Dichloropropene	0.7395 0.9248	0.8148 0.9151	0.8893	0.9158	0.9240	Ave		0.8747			8.1		15.0				
1,1,2-Trichloroethane	0.4612 0.4671	0.4636 0.4609	0.4916	0.4797	0.4775	Ave		0.4716			2.5		15.0				
Tetrachloroethene	0.7236 0.6927	0.7403 0.6671	0.7226	0.7190	0.6991	Ave		0.7092			3.5		15.0				
1,3-Dichloropropane	0.9932 0.9352	1.0443 0.8826	1.0360	0.9878	0.9656	Ave		0.9778			5.8		15.0				
2-Hexanone	0.5126 0.4915	0.5304 0.4543	0.5686	0.5368	0.5283	Ave		0.5175			7.0		15.0				
Dibromochloromethane	0.4124 0.6433	0.4559 0.6594	0.4934	0.5550	0.6100	Lin1	-0.935	0.6519						0.9990		0.9900	
1,2-Dibromoethane	0.5348 0.6166	0.5805 0.6133	0.6108	0.6268	0.6264	Ave		0.6013			5.5		15.0				
Chlorobenzene	2.0467 1.8046	2.0059 1.7560	1.9524	1.9240	1.8624	Ave		1.9074		0.3000	5.5		15.0				
Ethylbenzene	3.3867 3.0382	3.3731 2.8871	3.3144	3.2459	3.1255	Ave		3.1958			5.8		30.0				
1,1,1,2-Tetrachloroethane	0.5183 0.6209	0.5413 0.6105	0.5894	0.6224	0.6278	Ave		0.5901			7.4		15.0				
m,p-Xylene	1.3931 1.1895	1.3198 1.1183	1.3317	1.2868	1.2454	Ave		1.2692			7.3		15.0				
o-Xylene	1.2751 1.1767	1.2929 1.1234	1.3176	1.2599	1.2183	Ave		1.2377			5.6		15.0				

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

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

Lab Name: TestAmerica Buffalo

Job No.: 480-36412-1

Analy Batch No.: 110659

SDG No.: _____

Instrument ID: HP5973F

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

Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 13:16

Calibration End Date: 04/03/2013 15:49

Calibration ID: 13049

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Styrene	2.0358 1.9856	2.0719 1.8961	2.1081	2.1057	2.0696	Ave		2.0390			3.7		15.0				
Bromoform	0.1884 0.3846	0.2304 0.4125	0.2763	0.2964	0.3635	Lin1	-0.832	0.4007		0.1000				0.9960		0.9900	
Isopropylbenzene	3.5733 3.3124	3.7342 3.2365	3.5747	3.5027	3.3496	Ave		3.4690			5.1		15.0				
1,1,2,2-Tetrachloroethane	0.7389 0.7978	0.8253 0.7868	0.8556	0.8448	0.8437	Ave		0.8133		0.3000	5.1		15.0				
Bromobenzene	0.8599 0.8089	0.9341 0.7942	0.8802	0.8816	0.8517	Ave		0.8587			5.5		15.0				
trans-1,4-Dichloro-2-butene	0.1966 0.2233	0.2273 0.2139	0.2422	0.2355	0.2361	Ave		0.2250			6.9		15.0				
N-Propylbenzene	4.2363 3.7277	4.4082 3.4347	4.2500	4.1610	3.8988	Ave		4.0167			8.6		15.0				
1,2,3-Trichloropropane	0.2381 0.2457	0.2769 0.2342	0.2770	0.2697	0.2597	Ave		0.2573			7.0		15.0				
2-Chlorotoluene	0.8769 0.7976	0.8825 0.7740	0.8558	0.8359	0.8231	Ave		0.8351			4.8		15.0				
1,3,5-Trimethylbenzene	3.0176 2.8167	3.1735 2.7095	3.0401	2.9942	2.8930	Ave		2.9492			5.2		15.0				
4-Chlorotoluene	0.9045 0.8266	0.8896 0.8167	0.8902	0.8675	0.8447	Ave		0.8628			4.0		15.0				
tert-Butylbenzene	0.6364 0.5962	0.6738 0.5811	0.6353	0.6355	0.6061	Ave		0.6235			5.0		15.0				
1,2,4-Trimethylbenzene	3.1634 2.7661	3.1358 2.7240	3.0385	3.0110	2.8742	Ave		2.9590			5.9		15.0				
sec-Butylbenzene	3.7964 3.5308	3.9093 3.3919	3.7942	3.7402	3.5892	Ave		3.6789			4.9		15.0				
4-Isopropyltoluene	3.1152 2.9235	3.3129 2.8133	3.1753	3.1069	2.9706	Ave		3.0597			5.5		15.0				
1,3-Dichlorobenzene	1.7307 1.5311	1.7288 1.5234	1.6782	1.6748	1.6002	Ave		1.6382			5.3		15.0				
1,4-Dichlorobenzene	1.7260 1.5532	1.7703 1.5529	1.7111	1.6978	1.6111	Ave		1.6603			5.3		15.0				
n-Butylbenzene	2.8360 2.6649	2.9400 2.5875	2.8521	2.8076	2.7253	Ave		2.7734			4.4		15.0				
1,2-Dichlorobenzene	1.6213 1.4774	1.6350 1.4499	1.6131	1.5903	1.5246	Ave		1.5588			4.8		15.0				
1,2-Dibromo-3-Chloropropane	0.0723 0.1403	0.1030 0.1436	0.1185	0.1215	0.1312	Lin1	-0.210	0.1422						0.9990		0.9900	

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1 Analy Batch No.: 110659
 SDG No.: _____
 Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 04/03/2013 13:16 Calibration End Date: 04/03/2013 15:49 Calibration ID: 13049

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	0.8949 0.9140	0.9318 0.8967	0.9266	0.9454	0.9475	Ave		0.9224			2.3		15.0				
Hexachlorobutadiene	0.4859 0.4854	0.5169 0.4678	0.5133	0.5048	0.4884	Ave		0.4946			3.6		15.0				
Naphthalene	2.6871 2.4372	2.6779 2.3321	2.6316	2.6089	2.5583	Ave		2.5619			5.2		15.0				
1,2,3-Trichlorobenzene	0.7394 0.8078	0.8413 0.7731	0.8380	0.8490	0.8356	Ave		0.8120			5.1		15.0				
1,2-Dichloroethane-d4 (Surr)	0.1701 0.1678	0.1692 0.1634	0.1724	0.1679	0.1671	Ave		0.1683			1.7		15.0				
Toluene-d8 (Surr)	2.3078 2.3153	2.3245 2.3257	2.3117	2.3100	2.3380	Ave		2.3190			0.5		15.0				
4-Bromofluorobenzene (Surr)	0.6897 0.6921	0.6817 0.6964	0.6907	0.6956	0.6951	Ave		0.6916			0.7		15.0				

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

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

Lab Name: TestAmerica Buffalo

Job No.: 480-36412-1

Analy Batch No.: 110659

SDG No.: _____

Instrument ID: HP5973F

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

Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 13:16

Calibration End Date: 04/03/2013 15:49

Calibration ID: 13049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-110659/4	F6722.D
Level 2	STD2 480-110659/5	F6723.D
Level 3	STD3 480-110659/6	F6724.D
Level 4	STD4 480-110659/7	F6725.D
Level 5	STD5 480-110659/8	F6726.D
Level 6	STD6 480-110659/9	F6727.D
Level 7	STD7 480-110659/10	F6728.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFB	Ave	4868 221953	10598 411495	21651	40451	97193	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	DFB	Ave	6481 217059	12276 418223	24558	44815	109835	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	DFB	Ave	5781 200102	11362 380919	20394	39087	96078	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	DFB	Ave	2547 96550	4938 214481	9192	18545	44952	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	DFB	Ave	2242 88231	4772 191027	9034	17008	42125	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	DFB	Ave	7469 290203	14578 593318	22089	52834	134905	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	DFB	Ave	23811 909571	50849 1780188	102250	195194	475807	50.0 2000	100 4000	200	400	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	DFB	Ave	5733 232789	12447 450422	22977	45402	109873	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	DFB	Ave	6260 244721	13647 480441	24500	49191	121294	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	DFB	Ave	12487 432099	25498 836423	51098	92161	228098	12.5 500	25.0 1000	50.0	100	250
Iodomethane	DFB	Ave	7363 313468	14712 631749	30759	61564	154441	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	DFB	Ave	13747 728731	28373 1490494	61724	129661	337409	2.50 100	5.00 200	10.0	20.0	50.0
Methyl acetate	DFB	Ave	10058 389560	20747 750379	43820	81460	204678	2.50 100	5.00 200	10.0	20.0	50.0
Acetonitrile	DFB	Ave	19454 789627	44443 1521041	91607	174312	414610	100 4000	200 8000	400	800	2000
Methylene Chloride	DFB	Ave	9877 291767	18208 578432	33300	63053	151929	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1 Analy Batch No.: 110659

SDG No.: _____

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

Calibration Start Date: 04/03/2013 13:16 Calibration End Date: 04/03/2013 15:49 Calibration ID: 13049

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl tert-butyl ether	DFB	Ave	21352 826353	42217 1650883	87272	172334	423780	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	DFB	Ave	7551 281024	14494 546289	29739	57612	141682	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	DFB	Ave	15011 591017	31866 1150263	66271	124433	308189	12.5 500	25.0 1000	50.0	100	250
Vinyl acetate	DFB	Ave	64265 2421451	131043 4533296	275737	527130	1280847	12.5 500	25.0 1000	50.0	100	250
1,1-Dichloroethane	DFB	Ave	13309 488053	26444 950891	52446	102314	247349	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	DFB	Ave	19377 730386	39892 1406242	83913	156202	385831	12.5 500	25.0 1000	50.0	100	250
2,2-Dichloropropane	DFB	Ave	9468 388696	19836 759007	39086	75064	187840	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,2-Dichloroethene	DFB	Ave	7650 310210	16572 602908	32738	65337	157954	2.50 100	5.00 200	10.0	20.0	50.0
Bromochloromethane	DFB	Ave	3586 151129	7529 301678	16074	32024	76593	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	DFB	Ave	13006 480249	27196 917682	56339	103948	255282	12.5 500	25.0 1000	50.0	100	250
Chloroform	DFB	Ave	12182 484799	24846 969409	49886	100362	240935	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	DFB	Ave	9842 429222	20785 865673	40288	82634	205157	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	DFB	Ave	13182 510983	26706 983081	54108	101401	239775	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	DFB	Ave	9613 376318	20336 734797	38643	75938	182942	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	DFB	Ave	7654 372761	16088 756357	33904	66765	173573	2.50 100	5.00 200	10.0	20.0	50.0
Benzene	DFB	Ave	29984 1115184	60541 2170007	118084	229806	560581	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	DFB	Ave	9741 383242	19668 759834	40265	78035	192686	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	DFB	Ave	7403 294960	14724 585332	30381	58172	143457	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	DFB	Ave	12051 493200	25746 956677	51308	98198	234105	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	DFB	Ave	7582 295958	14353 575950	29597	59415	148297	2.50 100	5.00 200	10.0	20.0	50.0
Dibromomethane	DFB	Ave	4004 170639	7746 347416	17057	34231	85369	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1 Analy Batch No.: 110659

SDG No.: _____

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

Calibration Start Date: 04/03/2013 13:16 Calibration End Date: 04/03/2013 15:49 Calibration ID: 13049

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromodichloromethane	DFB	Ave	6926 366891	14682 759796	32219	65999	175628	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	DFB	Ave	23447 921071	47611 1735514	99954	195217	482506	12.5 500	25.0 1000	50.0	100	250
cis-1,3-Dichloropropene	DFB	Ave	9086 450087	20041 911173	41312	86431	221052	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	38965 1509495	81792 2843023	172978	322128	797081	12.5 500	25.0 1000	50.0	100	250
Toluene	CBZ	Ave	20689 729324	41148 1428737	75993	149798	365424	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBZ	Ave	7747 355981	16639 711105	35908	72959	181456	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZ	Ave	7937 404885	17338 811843	37979	78192	197458	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	4950 204497	9864 408870	20994	40956	102055	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBZ	Ave	7766 303291	15752 591861	30861	61386	149407	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBZ	Ave	10659 409434	22220 782992	44244	84345	206354	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBZ	Ave	27509 1075978	56425 2015211	121407	229150	564475	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBZ	Lin1	4426 281645	9701 585038	21070	47385	130356	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBZ	Ave	5740 269960	12351 544098	26085	53514	133856	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobenzene	CBZ	Ave	21966 790119	42682 1557887	83383	164273	397999	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBZ	Ave	36347 1330224	71773 2561345	141547	277139	667935	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5563 271856	11518 541592	25172	53146	134163	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBZ	Ave	29903 1041575	56166 1984193	113750	219741	532287	5.00 200	10.0 400	20.0	40.0	100
o-Xylene	CBZ	Ave	13685 515199	27511 996644	56269	107577	260357	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBZ	Ave	21849 869348	44086 1682164	90033	179786	442282	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBZ	Lin1	2022 168383	4902 365990	11799	25310	77693	2.50 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCB	Ave	35113 1331009	72261 2590055	140747	276348	660819	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo

Job No.: 480-36412-1

Analy Batch No.: 110659

SDG No.: _____

Instrument ID: HP5973F

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

Heated Purge: (Y/N) N

Calibration Start Date: 04/03/2013 13:16

Calibration End Date: 04/03/2013 15:49

Calibration ID: 13049

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	7261 320576	15970 629636	33687	66654	166447	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCB	Ave	8450 325047	18076 635593	34656	69553	168026	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	9659 448605	21988 855983	47674	92915	232894	12.5 500	25.0 1000	50.0	100	250
N-Propylbenzene	DCB	Ave	41628 1497860	85304 2748675	167338	328282	769174	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCB	Ave	2340 98740	5359 187420	10905	21278	51236	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCB	Ave	8617 320502	17077 619400	33694	65945	162393	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	29653 1131819	61412 2168300	119701	236230	570741	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCB	Ave	8888 332149	17214 653569	35052	68442	166656	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCB	Ave	6254 239562	13038 465048	25016	50139	119577	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	31085 1111488	60682 2179903	119638	237556	567041	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCB	Ave	37306 1418778	75650 2714456	149392	295086	708096	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCB	Ave	30612 1174720	64109 2251423	125022	245121	586060	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	17007 615220	33454 1219155	66075	132131	315703	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dichlorobenzene	DCB	Ave	16961 624094	34258 1242742	67372	133949	317846	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCB	Ave	27868 1070836	56893 2070691	112299	221506	537663	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	15932 593635	31640 1160339	63512	125470	300786	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	710 56391	1994 114896	4665	9589	25889	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	8794 367260	18031 717601	36484	74591	186930	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCB	Ave	4775 195064	10002 374374	20210	39827	96345	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCB	Ave	26405 979339	51821 1866265	103614	205830	504716	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	7266 324577	16281 618667	32995	66984	164857	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1 Analy Batch No.: 110659

SDG No.: _____

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

Calibration Start Date: 04/03/2013 13:16 Calibration End Date: 04/03/2013 15:49 Calibration ID: 13049

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	72139 72570	71491 71472	72713	70517	71092	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	495357 506858	494604 515829	493623	493082	499657	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	148035 151511	145044 154455	147481	148485	148540	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6722.D
 Lims ID: STD1 Client ID:
 Inject. Date: 03-Apr-2013 13:16:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: STD1
 Misc. Info.: 480-0020220-004 =480-0020220-004
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 4
 Lims Batch ID: 110659 Lims Sample ID: 4
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 15:57:24 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 15:57:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.614	-0.006	94	423988	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	84	214646	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	95	196531	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	98	72139	50.6	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	495357	49.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	148035	49.9	
10 Dichlorodifluoromethane	85	2.013	2.013	0.0	28	4868	2.37	
12 Chloromethane	50	2.152	2.165	-0.013	56	6481	2.81	
13 Vinyl chloride	62	2.286	2.292	-0.006	20	5781	2.82	
14 Bromomethane	94	2.554	2.566	-0.012	24	2547	2.64	
15 Chloroethane	64	2.633	2.639	-0.006	38	2242	2.51	
17 Trichlorofluoromethane	101	2.858	2.864	-0.006	19	7469	2.72	
20 Acrolein	56	3.199	3.199	0.0	83	23811	49.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.241	3.229	0.012	11	5733	2.50	
22 1,1-Dichloroethene	96	3.260	3.266	-0.006	60	6260	2.53	
23 Acetone	43	3.314	3.315	0.0	77	12487	13.4	
25 Iodomethane	142	3.424	3.430	-0.006	75	7363	2.42	
26 Carbon disulfide	76	3.485	3.485	0.0	78	13747	2.14	
27 Methyl acetate	43	3.533	3.534	-0.001	86	10058	2.49	
29 Acetonitrile	40	3.576	3.570	0.006	93	19454	94.0	
30 Methylene Chloride	84	3.655	3.655	0.0	73	9877	3.03	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	72	21352	2.53	
34 trans-1,2-Dichloroethene	96	3.838	3.844	-0.006	77	7551	2.64	
33 Acrylonitrile	53	3.856	3.856	0.0	87	15011	12.3	
37 Vinyl acetate	43	4.160	4.160	0.0	96	64265	12.7	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	38	13309	2.63	
43 2-Butanone (MEK)	43	4.628	4.622	0.006	95	19377	12.6	
44 2,2-Dichloropropane	77	4.635	4.629	0.006	25	9468	2.48	
45 cis-1,2-Dichloroethene	96	4.635	4.641	-0.006	35	7650	2.42	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.841	4.848	-0.007	72	3586	2.36	
49 Tetrahydrofuran	42	4.860	4.860	0.0	87	13006	12.7	
50 Chloroform	83	4.884	4.878	0.006	41	12182	2.49	
51 1,1,1-Trichloroethane	97	5.024	5.030	-0.006	59	9842	2.39	
52 Cyclohexane	56	5.054	5.054	0.0	22	13182	2.58	
54 1,1-Dichloropropene	75	5.146	5.146	0.0	53	9613	2.54	
55 Carbon tetrachloride	117	5.152	5.158	-0.006	70	7654	2.25	
57 Benzene	78	5.334	5.334	0.0	68	29984	2.62	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	59	9741	2.52	
62 Trichloroethene	95	5.857	5.857	0.0	67	7403	2.53	
64 Methylcyclohexane	83	5.991	5.997	-0.006	72	12051	2.46	
65 1,2-Dichloropropane	63	6.082	6.083	-0.001	60	7582	2.58	
67 Dibromomethane	93	6.210	6.210	0.0	67	4004	2.40	
68 Dichlorobromomethane	83	6.320	6.320	0.0	37	6926	2.10	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	73	23447	12.5	
72 cis-1,3-Dichloropropene	75	6.697	6.703	-0.006	52	9086	2.16	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	83	38965	12.4	
74 Toluene	92	6.995	7.001	-0.006	74	20689	2.72	
75 Ethyl methacrylate	69	7.214	7.214	0.0	46	7747	2.23	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	51	7937	2.11	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	38	4950	2.44	
81 Tetrachloroethene	166	7.524	7.524	0.0	77	7766	2.55	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	34	10659	2.54	
80 2-Hexanone	43	7.597	7.591	0.006	91	27509	12.4	
83 Chlorodibromomethane	129	7.835	7.829	0.005	1	4426	3.02	
84 Ethylene Dibromide	107	7.962	7.962	0.0	40	5740	2.22	
87 Chlorobenzene	112	8.412	8.419	-0.007	75	21966	2.68	
88 Ethylbenzene	91	8.473	8.479	-0.006	82	36347	2.65	
89 1,1,1,2-Tetrachloroethane	131	8.498	8.492	0.006	55	5563	2.20	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	29903	5.49	
91 o-Xylene	106	9.027	9.027	0.0	80	13685	2.58	
92 Styrene	104	9.045	9.045	0.0	81	21849	2.50	
95 Bromoform	173	9.313	9.319	-0.006	1	2022	3.25	
94 Isopropylbenzene	105	9.386	9.386	0.0	71	35113	2.58	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	21	7261	2.27	
101 Bromobenzene	156	9.775	9.769	0.006	69	8450	2.50	
98 trans-1,4-Dichloro-2-butene	53	9.806	9.800	0.006	35	9659	10.9	
99 N-Propylbenzene	91	9.799	9.800	-0.001	87	41628	2.64	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	11	2340	2.31	
103 2-Chlorotoluene	126	9.927	9.933	-0.006	75	8617	2.63	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	63	29653	2.56	
105 4-Chlorotoluene	126	10.037	10.037	0.0	64	8888	2.62	
106 tert-Butylbenzene	134	10.280	10.280	0.0	59	6254	2.55	
107 1,2,4-Trimethylbenzene	105	10.329	10.335	-0.006	76	31085	2.67	
109 sec-Butylbenzene	105	10.481	10.481	0.0	57	37306	2.58	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	76	30612	2.55	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	60	17007	2.64	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	69	16961	2.60	
115 n-Butylbenzene	91	10.974	10.974	0.0	79	27868	2.56	
116 1,2-Dichlorobenzene	146	11.071	11.065	0.006	77	15932	2.60	
117 1,2-Dibromo-3-Chloropropane	75	11.746	11.740	0.006	1	710	2.75	
119 1,2,4-Trichlorobenzene	180	12.385	12.391	-0.006	39	8794	2.43	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	33	4775	2.46	
121 Naphthalene	128	12.622	12.622	0.0	66	26405	2.62	
122 1,2,3-Trichlorobenzene	180	12.835	12.841	-0.006	36	7266	2.28	
S 123 Total BTEX	1				0		16.1	
S 124 Xylenes, Total	1				0		8.06	
S 125 1,2-Dichloroethene, Total	1				0		5.06	
S 126 1,3-Dichloropropene, Total	1				0		4.28	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6722.D

Injection Date: 03-Apr-2013 13:16:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 4

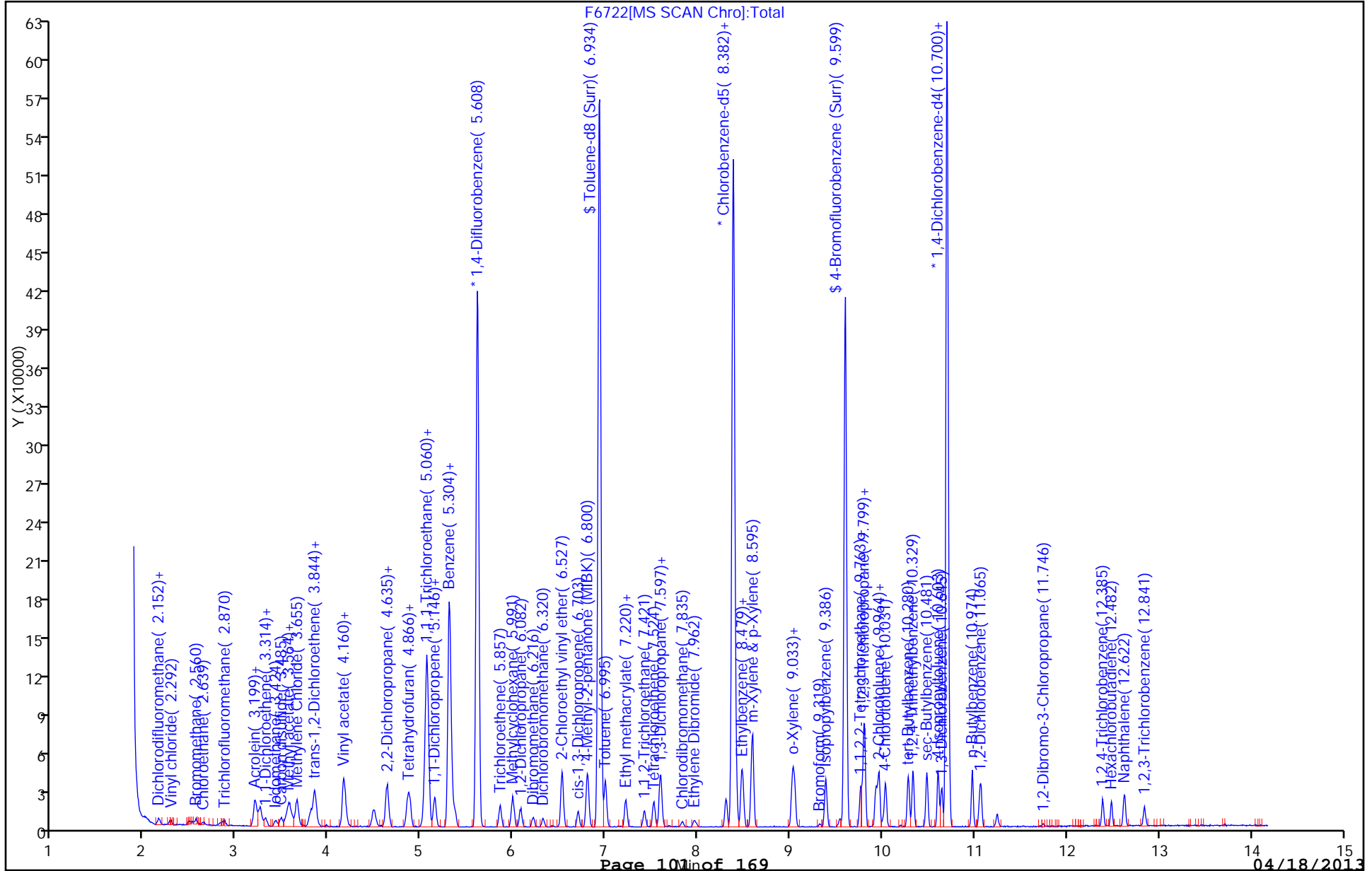
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6723.D
 Lims ID: STD2 Client ID:
 Inject. Date: 03-Apr-2013 13:42:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: STD2
 Misc. Info.: 480-0020220-005 =480-0020220-005
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 5
 Lims Batch ID: 110659 Lims Sample ID: 5
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 16:00:11 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 16:00:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.614	-0.006	94	422636	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	84	212783	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	95	193513	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	98	71491	50.3	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	494604	50.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	145044	49.3	
10 Dichlorodifluoromethane	85	2.006	2.013	-0.007	57	10598	5.17	
12 Chloromethane	50	2.158	2.165	-0.007	76	12276	5.34	
13 Vinyl chloride	62	2.280	2.292	-0.012	44	11362	5.56	
14 Bromomethane	94	2.554	2.566	-0.012	74	4938	5.14	
15 Chloroethane	64	2.627	2.639	-0.012	61	4772	5.36	
17 Trichlorofluoromethane	101	2.858	2.864	-0.006	43	14578	5.33	
20 Acrolein	56	3.193	3.199	-0.006	88	50849	106.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.229	3.229	0.0	51	12447	5.45	
22 1,1-Dichloroethene	96	3.260	3.266	-0.006	77	13647	5.53	
23 Acetone	43	3.302	3.315	-0.012	86	25498	27.3	
25 Iodomethane	142	3.424	3.430	-0.006	76	14712	4.85	
26 Carbon disulfide	76	3.473	3.485	-0.013	94	28373	4.42	
27 Methyl acetate	43	3.533	3.534	-0.001	89	20747	5.16	
29 Acetonitrile	40	3.564	3.570	-0.006	98	44443	215.2	
30 Methylene Chloride	84	3.649	3.655	-0.006	80	18208	5.60	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	79	42217	5.02	
34 trans-1,2-Dichloroethene	96	3.838	3.844	-0.006	87	14494	5.08	
33 Acrylonitrile	53	3.850	3.856	-0.006	98	31866	26.1	
37 Vinyl acetate	43	4.154	4.160	-0.006	96	131043	25.9	
39 1,1-Dichloroethane	63	4.172	4.178	-0.006	59	26444	5.25	
43 2-Butanone (MEK)	43	4.622	4.622	0.0	96	39892	26.1	
44 2,2-Dichloropropane	77	4.622	4.629	-0.007	44	19836	5.21	
45 cis-1,2-Dichloroethene	96	4.634	4.641	-0.007	71	16572	5.27	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.841	4.848	-0.007	83	7529	4.97	
49 Tetrahydrofuran	42	4.853	4.860	-0.007	88	27196	26.7	
50 Chloroform	83	4.872	4.878	-0.006	78	24846	5.10	
51 1,1,1-Trichloroethane	97	5.024	5.030	-0.006	66	20785	5.06	
52 Cyclohexane	56	5.054	5.054	0.0	33	26706	5.25	
54 1,1-Dichloropropene	75	5.139	5.146	-0.007	83	20336	5.38	
55 Carbon tetrachloride	117	5.158	5.158	0.0	71	16088	4.74	
57 Benzene	78	5.328	5.334	-0.006	97	60541	5.30	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	78	19668	5.09	
62 Trichloroethene	95	5.851	5.857	-0.006	82	14724	5.05	
64 Methylcyclohexane	83	5.997	5.997	0.0	80	25746	5.28	
65 1,2-Dichloropropane	63	6.070	6.083	-0.013	70	14353	4.91	
67 Dibromomethane	93	6.210	6.210	0.0	78	7746	4.67	
68 Dichlorobromomethane	83	6.320	6.320	0.0	66	14682	4.47	
69 2-Chloroethyl vinyl ether	63	6.526	6.527	-0.001	85	47611	25.4	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	63	20041	4.79	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	93	81792	26.2	
74 Toluene	92	6.995	7.001	-0.006	89	41148	5.47	
75 Ethyl methacrylate	69	7.214	7.214	0.0	74	16639	4.83	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	70	17338	4.66	
79 1,1,2-Trichloroethane	83	7.415	7.421	-0.006	66	9864	4.91	
81 Tetrachloroethene	166	7.524	7.524	0.0	87	15752	5.22	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	46	22220	5.34	
80 2-Hexanone	43	7.597	7.591	0.006	90	56425	25.6	
83 Chlorodibromomethane	129	7.828	7.829	-0.001	39	9701	4.93	
84 Ethylene Dibromide	107	7.962	7.962	0.0	48	12351	4.83	
87 Chlorobenzene	112	8.412	8.419	-0.007	88	42682	5.26	
88 Ethylbenzene	91	8.473	8.479	-0.006	85	71773	5.28	
89 1,1,1,2-Tetrachloroethane	131	8.491	8.492	-0.001	30	11518	4.59	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	56166	10.4	
91 o-Xylene	106	9.027	9.027	0.0	86	27511	5.22	
92 Styrene	104	9.045	9.045	0.0	88	44086	5.08	
95 Bromoform	173	9.325	9.319	0.006	58	4902	4.95	
94 Isopropylbenzene	105	9.386	9.386	0.0	84	72261	5.38	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	49	15970	5.07	
101 Bromobenzene	156	9.769	9.769	0.0	85	18076	5.44	
98 trans-1,4-Dichloro-2-butene	53	9.799	9.800	-0.001	39	21988	25.3	
99 N-Propylbenzene	91	9.806	9.800	0.006	89	85304	5.49	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	30	5359	5.38	
103 2-Chlorotoluene	126	9.933	9.933	0.0	89	17077	5.28	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	73	61412	5.38	
105 4-Chlorotoluene	126	10.037	10.037	0.0	86	17214	5.15	
106 tert-Butylbenzene	134	10.274	10.280	-0.006	80	13038	5.40	
107 1,2,4-Trimethylbenzene	105	10.335	10.335	0.0	86	60682	5.30	
109 sec-Butylbenzene	105	10.481	10.481	0.0	78	75650	5.31	
110 4-Isopropyltoluene	119	10.602	10.603	-0.001	90	64109	5.41	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	82	33454	5.28	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	85	34258	5.33	
115 n-Butylbenzene	91	10.974	10.974	0.0	88	56893	5.30	
116 1,2-Dichlorobenzene	146	11.071	11.065	0.006	89	31640	5.24	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	1	1994	5.10	
119 1,2,4-Trichlorobenzene	180	12.385	12.391	-0.006	70	18031	5.05	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	66	10002	5.22	
121 Naphthalene	128	12.622	12.622	0.0	84	51821	5.23	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	68	16281	5.18	
S 123 Total BTEX	1				0		31.7	
S 124 Xylenes, Total	1				0		15.6	
S 125 1,2-Dichloroethene, Total	1				0		10.3	
S 126 1,3-Dichloropropene, Total	1				0		9.44	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6723.D

Injection Date: 03-Apr-2013 13:42:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 5

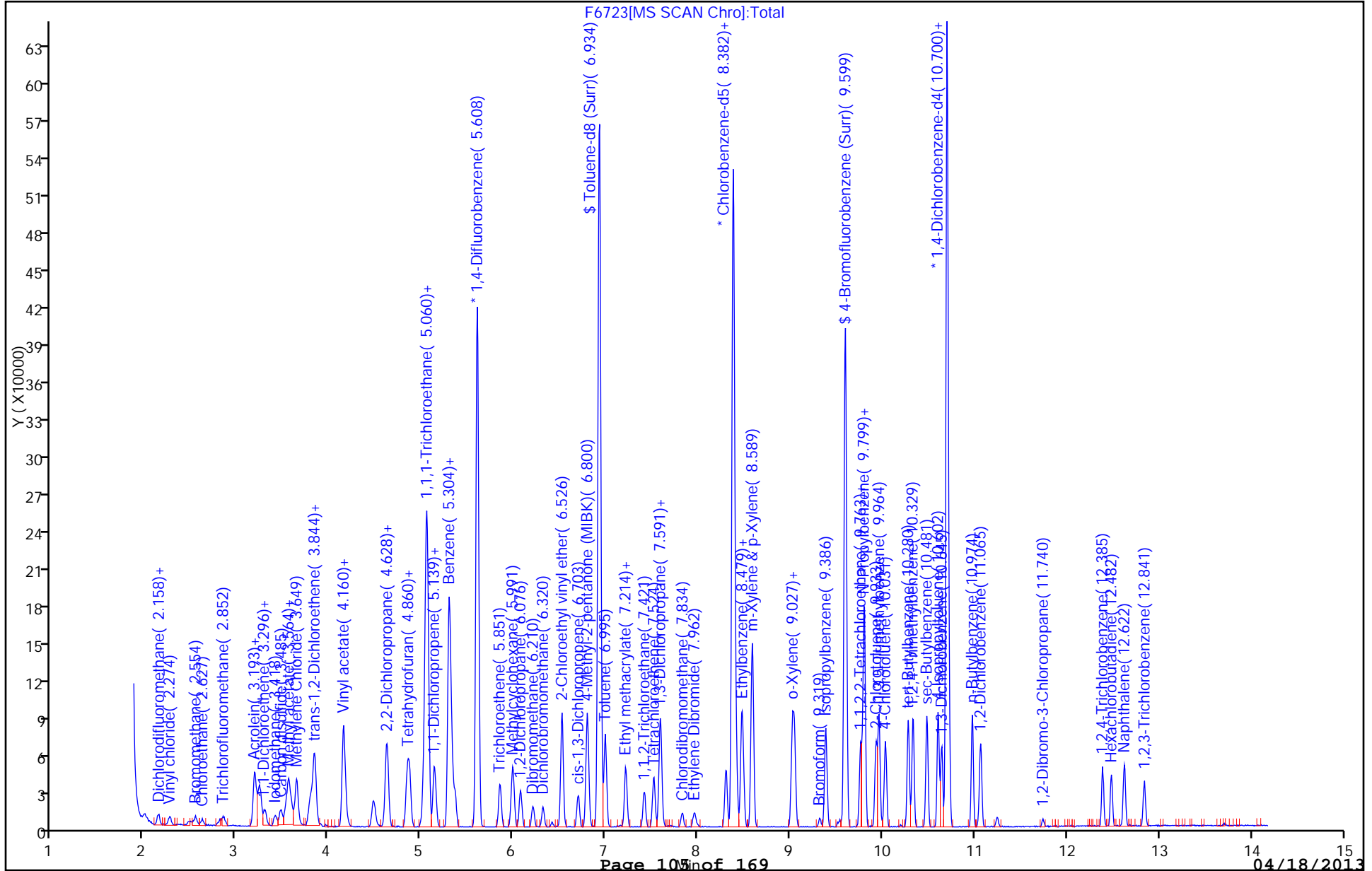
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6724.D
 Lims ID: STD3 Client ID:
 Inject. Date: 03-Apr-2013 14:07:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: STD3
 Misc. Info.: 480-0020220-006 =480-0020220-006
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 6
 Lims Batch ID: 110659 Lims Sample ID: 6
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 16:00:49 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 16:00:49

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.614	-0.006	94	421748	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	83	213536	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	91	196868	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	97	72713	51.2	
\$ 5 Toluene-d8 (Surr)	98	6.928	6.934	-0.006	92	493623	49.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	147481	49.9	
10 Dichlorodifluoromethane	85	2.001	2.013	-0.012	67	21651	10.6	
12 Chloromethane	50	2.159	2.165	-0.006	83	24558	10.7	
13 Vinyl chloride	62	2.274	2.292	-0.018	52	20394	10.0	
14 Bromomethane	94	2.560	2.566	-0.006	74	9192	9.58	
15 Chloroethane	64	2.627	2.639	-0.012	60	9034	10.2	
17 Trichlorofluoromethane	101	2.858	2.864	-0.006	54	22089	8.09	
20 Acrolein	56	3.193	3.199	-0.006	91	102250	215.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.229	3.229	0.0	67	22977	10.1	
22 1,1-Dichloroethene	96	3.260	3.266	-0.006	91	24500	9.95	
23 Acetone	43	3.308	3.315	-0.006	95	51098	54.9	
25 Iodomethane	142	3.424	3.430	-0.006	92	30759	10.2	
26 Carbon disulfide	76	3.479	3.485	-0.006	94	61724	9.64	
27 Methyl acetate	43	3.534	3.534	0.0	88	43820	10.9	
29 Acetonitrile	40	3.570	3.570	0.0	98	91607	445.1	
30 Methylene Chloride	84	3.649	3.655	-0.006	88	33300	10.3	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	86	87272	10.4	
34 trans-1,2-Dichloroethene	96	3.838	3.844	-0.006	94	29739	10.4	
33 Acrylonitrile	53	3.856	3.856	0.0	98	66271	54.4	
37 Vinyl acetate	43	4.154	4.160	-0.006	97	275737	54.6	
39 1,1-Dichloroethane	63	4.172	4.178	-0.006	77	52446	10.4	
43 2-Butanone (MEK)	43	4.623	4.622	0.001	100	83913	54.9	
44 2,2-Dichloropropane	77	4.623	4.629	-0.006	52	39086	10.3	
45 cis-1,2-Dichloroethene	96	4.635	4.641	-0.006	78	32738	10.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.842	4.848	-0.006	90	16074	10.6	
49 Tetrahydrofuran	42	4.860	4.860	0.0	90	56339	55.3	
50 Chloroform	83	4.878	4.878	0.0	76	49886	10.3	
51 1,1,1-Trichloroethane	97	5.024	5.030	-0.006	87	40288	9.84	
52 Cyclohexane	56	5.048	5.054	-0.006	89	54108	10.7	
54 1,1-Dichloropropene	75	5.140	5.146	-0.006	89	38643	10.2	
55 Carbon tetrachloride	117	5.152	5.158	-0.006	83	33904	10.0	
57 Benzene	78	5.328	5.334	-0.006	96	118084	10.4	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	85	40265	10.5	
62 Trichloroethene	95	5.857	5.857	0.0	91	30381	10.4	
64 Methylcyclohexane	83	5.991	5.997	-0.006	83	51308	10.5	
65 1,2-Dichloropropane	63	6.077	6.083	-0.007	88	29597	10.1	
67 Dibromomethane	93	6.210	6.210	0.0	85	17057	10.3	
68 Dichlorobromomethane	83	6.320	6.320	0.0	87	32219	9.83	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	88	99954	53.4	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	79	41312	9.89	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	95	172978	55.2	
74 Toluene	92	7.001	7.001	0.0	95	75993	10.1	
75 Ethyl methacrylate	69	7.214	7.214	0.0	82	35908	10.4	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	86	37979	10.2	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	79	20994	10.4	
81 Tetrachloroethene	166	7.524	7.524	0.0	94	30861	10.2	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	84	44244	10.6	
80 2-Hexanone	43	7.597	7.591	0.006	97	121407	54.9	
83 Chlorodibromomethane	129	7.835	7.829	0.006	67	21070	9.00	
84 Ethylene Dibromide	107	7.962	7.962	0.0	76	26085	10.2	
87 Chlorobenzene	112	8.413	8.419	-0.006	92	83383	10.2	
88 Ethylbenzene	91	8.473	8.479	-0.006	96	141547	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	85	25172	9.99	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	113750	21.0	
91 o-Xylene	106	9.021	9.027	-0.006	93	56269	10.6	
92 Styrene	104	9.045	9.045	0.0	93	90033	10.3	
95 Bromoform	173	9.325	9.319	0.006	74	11799	8.97	
94 Isopropylbenzene	105	9.386	9.386	0.0	92	140747	10.3	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	84	33687	10.5	
101 Bromobenzene	156	9.769	9.769	0.0	88	34656	10.3	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	56	47674	53.8	
99 N-Propylbenzene	91	9.800	9.800	0.0	96	167338	10.6	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	58	10905	10.8	
103 2-Chlorotoluene	126	9.933	9.933	0.0	94	33694	10.2	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	83	119701	10.3	
105 4-Chlorotoluene	126	10.037	10.037	0.0	95	35052	10.3	
106 tert-Butylbenzene	134	10.280	10.280	0.0	87	25016	10.2	
107 1,2,4-Trimethylbenzene	105	10.329	10.335	-0.006	94	119638	10.3	
109 sec-Butylbenzene	105	10.481	10.481	0.0	88	149392	10.3	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	91	125022	10.4	
111 1,3-Dichlorobenzene	146	10.639	10.645	-0.006	86	66075	10.2	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	93	67372	10.3	
115 n-Butylbenzene	91	10.974	10.974	0.0	94	112299	10.3	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	94	63512	10.3	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	30	4665	9.81	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	86	36484	10.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.482	0.0	85	20210	10.4	
121 Naphthalene	128	12.622	12.622	0.0	94	103614	10.3	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	83	32995	10.3	
S 123 Total BTEX	1				0		62.4	
S 124 Xylenes, Total	1				0		31.6	
S 125 1,2-Dichloroethene, Total	1				0		20.9	
S 126 1,3-Dichloropropene, Total	1				0		20.1	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6724.D

Injection Date: 03-Apr-2013 14:07:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 6

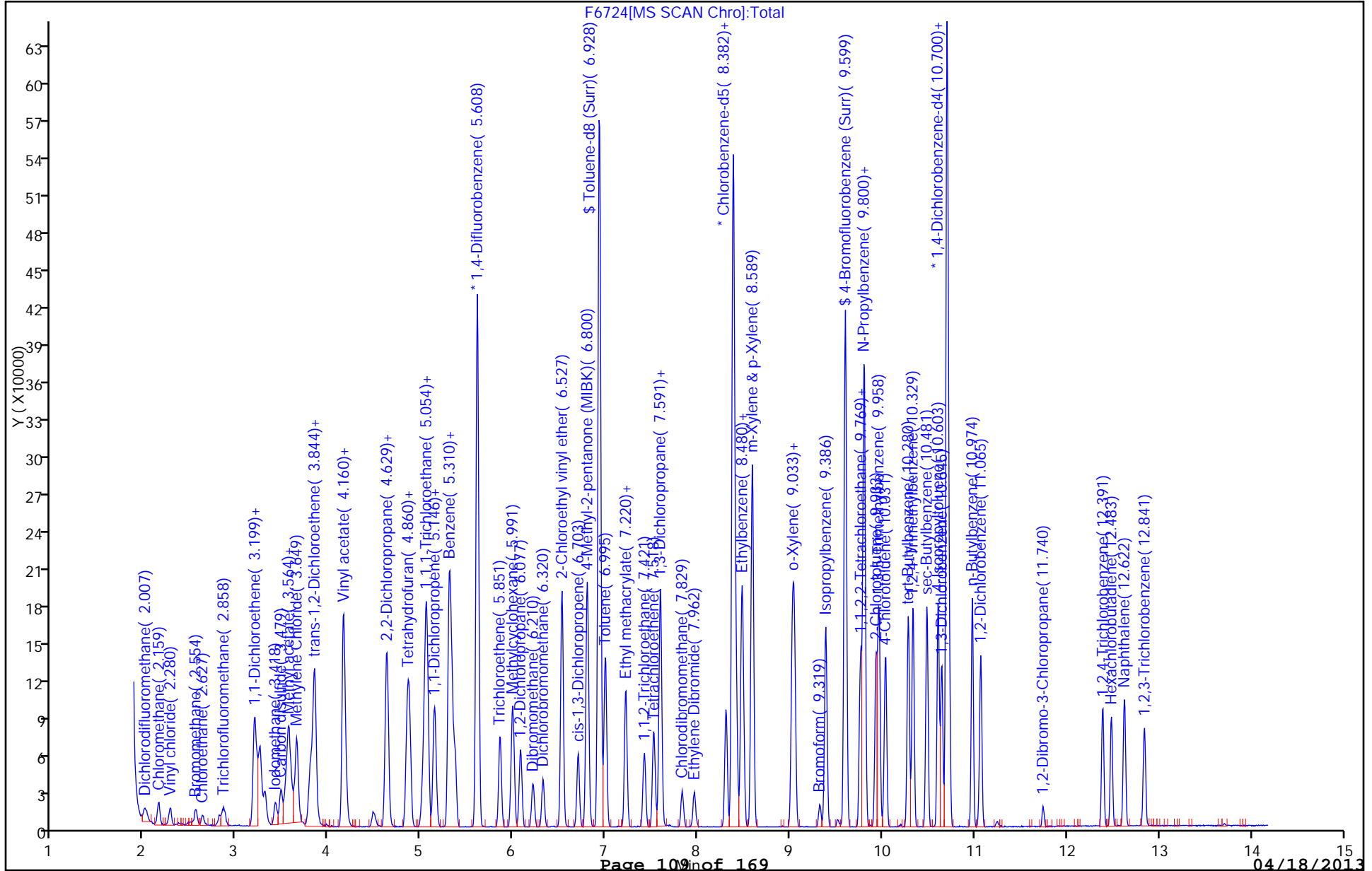
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6725.D
 Lims ID: STD4 Client ID:
 Inject. Date: 03-Apr-2013 14:33:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: STD4
 Misc. Info.: 480-0020220-007 =480-0020220-007
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 7
 Lims Batch ID: 110659 Lims Sample ID: 7
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 16:01:20 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 16:01:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.614	0.0	94	419933	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	81	213456	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	94	197238	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	97	70517	49.9	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	493082	49.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	148485	50.3	
10 Dichlorodifluoromethane	85	2.019	2.013	0.006	85	40451	19.9	
12 Chloromethane	50	2.165	2.165	0.0	97	44815	19.6	
13 Vinyl chloride	62	2.286	2.292	-0.006	69	39087	19.3	
14 Bromomethane	94	2.566	2.566	0.0	80	18545	19.4	
15 Chloroethane	64	2.645	2.639	0.006	78	17008	19.2	
17 Trichlorofluoromethane	101	2.864	2.864	0.0	86	52834	19.4	
20 Acrolein	56	3.199	3.199	0.0	95	195194	412.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.235	3.229	0.006	84	45402	20.0	
22 1,1-Dichloroethene	96	3.260	3.266	-0.006	93	49191	20.1	
23 Acetone	43	3.314	3.315	0.0	98	92161	99.5	
25 Iodomethane	142	3.424	3.430	-0.006	96	61564	20.4	
26 Carbon disulfide	76	3.485	3.485	0.0	97	129661	20.3	
27 Methyl acetate	43	3.533	3.534	-0.001	91	81460	20.4	
29 Acetonitrile	40	3.570	3.570	0.0	100	174312	848.4	
30 Methylene Chloride	84	3.655	3.655	0.0	87	63053	19.5	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	85	172334	20.6	
34 trans-1,2-Dichloroethene	96	3.844	3.844	0.0	98	57612	20.3	
33 Acrylonitrile	53	3.856	3.856	0.0	97	124433	102.6	
37 Vinyl acetate	43	4.160	4.160	0.0	97	527130	104.9	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	89	102314	20.4	
43 2-Butanone (MEK)	43	4.622	4.622	0.0	99	156202	102.7	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	55	75064	19.9	
45 cis-1,2-Dichloroethene	96	4.635	4.641	-0.006	80	65337	20.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.848	4.848	0.0	94	32024	21.3	
49 Tetrahydrofuran	42	4.860	4.860	0.0	91	103948	102.6	
50 Chloroform	83	4.878	4.878	0.0	93	100362	20.7	
51 1,1,1-Trichloroethane	97	5.024	5.030	-0.006	90	82634	20.3	
52 Cyclohexane	56	5.054	5.054	0.0	92	101401	20.0	
54 1,1-Dichloropropene	75	5.146	5.146	0.0	92	75938	20.2	
55 Carbon tetrachloride	117	5.158	5.158	0.0	86	66765	19.8	
57 Benzene	78	5.334	5.334	0.0	97	229806	20.2	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	73	78035	20.3	
62 Trichloroethene	95	5.857	5.857	0.0	91	58172	20.1	
64 Methylcyclohexane	83	5.991	5.997	-0.006	91	98198	20.3	
65 1,2-Dichloropropane	63	6.083	6.083	-0.001	92	59415	20.4	
67 Dibromomethane	93	6.210	6.210	0.0	86	34231	20.8	
68 Dichlorobromomethane	83	6.326	6.320	0.006	94	65999	20.2	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	91	195217	104.7	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	83	86431	20.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	95	322128	102.8	
74 Toluene	92	6.995	7.001	-0.006	97	149798	19.8	
75 Ethyl methacrylate	69	7.214	7.214	0.0	86	72959	21.1	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	95	78192	20.9	
79 1,1,2-Trichloroethane	83	7.415	7.421	-0.006	88	40956	20.3	
81 Tetrachloroethene	166	7.518	7.524	-0.006	90	61386	20.3	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	91	84345	20.2	
80 2-Hexanone	43	7.591	7.591	0.0	96	229150	103.7	
83 Chlorodibromomethane	129	7.835	7.829	0.006	81	47385	18.5	
84 Ethylene Dibromide	107	7.962	7.962	0.0	84	53514	20.8	
87 Chlorobenzene	112	8.413	8.419	-0.007	92	164273	20.2	
88 Ethylbenzene	91	8.473	8.479	-0.006	97	277139	20.3	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	90	53146	21.1	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	219741	40.6	
91 o-Xylene	106	9.027	9.027	0.0	93	107577	20.4	
92 Styrene	104	9.045	9.045	0.0	96	179786	20.7	
95 Bromoform	173	9.325	9.319	0.006	88	25310	16.9	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	276348	20.2	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	85	66654	20.8	
101 Bromobenzene	156	9.769	9.769	0.0	92	69553	20.5	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	52	92915	104.7	
99 N-Propylbenzene	91	9.800	9.800	0.0	96	328282	20.7	
100 1,2,3-Trichloropropane	110	9.818	9.812	0.006	37	21278	21.0	
103 2-Chlorotoluene	126	9.933	9.933	0.0	96	65945	20.0	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	82	236230	20.3	
105 4-Chlorotoluene	126	10.037	10.037	0.0	97	68442	20.1	
106 tert-Butylbenzene	134	10.280	10.280	0.0	89	50139	20.4	
107 1,2,4-Trimethylbenzene	105	10.329	10.335	-0.006	96	237556	20.4	
109 sec-Butylbenzene	105	10.481	10.481	0.0	92	295086	20.3	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	94	245121	20.3	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	95	132131	20.4	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	94	133949	20.5	
115 n-Butylbenzene	91	10.974	10.974	0.0	96	221506	20.2	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	97	125470	20.4	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	61	9589	18.6	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	92	74591	20.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	93	39827	20.4	
121 Naphthalene	128	12.622	12.622	0.0	96	205830	20.4	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	94	66984	20.9	
S 123 Total BTEX	1				0		121.3	
S 124 Xylenes, Total	1				0		60.9	
S 125 1,2-Dichloroethene, Total	1				0		41.2	
S 126 1,3-Dichloropropene, Total	1				0		41.7	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6725.D

Injection Date: 03-Apr-2013 14:33:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 7

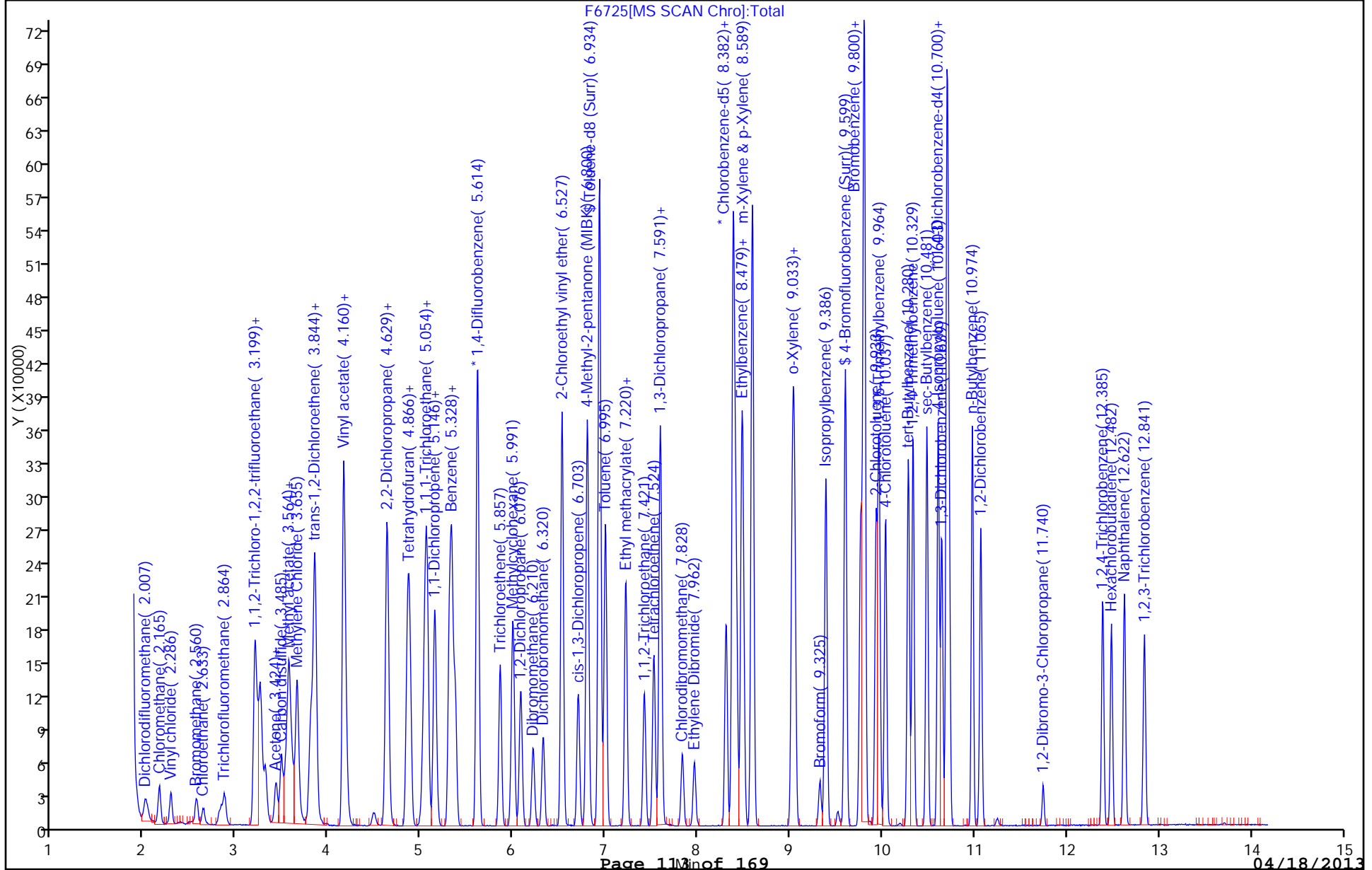
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6726.D
 Lims ID: STD5 Client ID:
 Inject. Date: 03-Apr-2013 14:58:30 Dil. Factor: 1.0000
 Sample Type: ICIS Calib Level: 5
 Sample ID: STD5
 Misc. Info.: 480-0020220-008 =480-0020220-008
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 8
 Lims Batch ID: 110659 Lims Sample ID: 8
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 15:51:48 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 15:51:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.614	0.0	94	425417	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	83	213707	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	94	197285	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	94	71092	49.7	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	499657	50.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	148540	50.3	
10 Dichlorodifluoromethane	85	2.013	2.013	0.0	95	97193	47.1	
12 Chloromethane	50	2.165	2.165	0.0	99	109835	47.5	
13 Vinyl chloride	62	2.292	2.292	0.0	97	96078	46.7	
14 Bromomethane	94	2.566	2.566	0.0	88	44952	46.4	
15 Chloroethane	64	2.639	2.639	0.0	95	42125	47.0	
17 Trichlorofluoromethane	101	2.864	2.864	0.0	93	134905	49.0	
20 Acrolein	56	3.199	3.199	0.0	96	475807	992.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.229	3.229	0.0	79	109873	47.8	
22 1,1-Dichloroethene	96	3.266	3.266	0.0	98	121294	48.8	
23 Acetone	43	3.315	3.315	0.0	98	228098	243.0	
25 Iodomethane	142	3.430	3.430	0.0	97	154441	50.6	
26 Carbon disulfide	76	3.485	3.485	0.0	98	337409	52.3	
27 Methyl acetate	43	3.534	3.534	0.0	92	204678	50.6	
29 Acetonitrile	40	3.570	3.570	0.0	99	414610	1965.3	
30 Methylene Chloride	84	3.655	3.655	0.0	92	151929	46.4	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	88	423780	50.1	
34 trans-1,2-Dichloroethene	96	3.844	3.844	0.0	99	141682	49.3	
33 Acrylonitrile	53	3.856	3.856	0.0	98	308189	250.9	
37 Vinyl acetate	43	4.160	4.160	0.0	97	1280847	251.6	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	96	247349	48.8	
43 2-Butanone (MEK)	43	4.622	4.622	0.0	100	385831	250.4	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	72	187840	49.0	
45 cis-1,2-Dichloroethene	96	4.641	4.641	0.0	82	157954	49.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.848	4.848	0.0	93	76593	50.2	
49 Tetrahydrofuran	42	4.860	4.860	0.0	91	255282	248.6	
50 Chloroform	83	4.878	4.878	0.0	94	240935	49.2	
51 1,1,1-Trichloroethane	97	5.030	5.030	0.0	95	205157	49.7	
52 Cyclohexane	56	5.054	5.054	0.0	90	239775	46.8	
54 1,1-Dichloropropene	75	5.146	5.146	0.0	94	182942	48.1	
55 Carbon tetrachloride	117	5.158	5.158	0.0	85	173573	50.8	
57 Benzene	78	5.334	5.334	0.0	97	560581	48.7	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	82	192686	49.6	
62 Trichloroethene	95	5.857	5.857	0.0	97	143457	48.8	
64 Methylcyclohexane	83	5.997	5.997	0.0	90	234105	47.7	
65 1,2-Dichloropropane	63	6.083	6.083	0.0	96	148297	50.4	
67 Dibromomethane	93	6.210	6.210	0.0	87	85369	51.1	
68 Dichlorobromomethane	83	6.320	6.320	0.0	99	175628	53.1	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	92	482506	255.4	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	90	221052	52.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	96	797081	254.2	
74 Toluene	92	7.001	7.001	0.0	98	365424	48.3	
75 Ethyl methacrylate	69	7.214	7.214	0.0	91	181456	52.5	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	94	197458	52.8	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	91	102055	50.6	
81 Tetrachloroethene	166	7.524	7.524	0.0	98	149407	49.3	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	92	206354	49.4	
80 2-Hexanone	43	7.591	7.591	0.0	96	564475	255.2	
83 Chlorodibromomethane	129	7.829	7.829	0.0	88	130356	48.2	
84 Ethylene Dibromide	107	7.962	7.962	0.0	98	133856	52.1	
87 Chlorobenzene	112	8.419	8.419	0.0	95	397999	48.8	
88 Ethylbenzene	91	8.479	8.479	0.0	98	667935	48.9	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	93	134163	53.2	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	532287	98.1	
91 o-Xylene	106	9.027	9.027	0.0	94	260357	49.2	
92 Styrene	104	9.045	9.045	0.0	95	442282	50.8	
95 Bromoform	173	9.319	9.319	0.0	97	77693	47.4	
94 Isopropylbenzene	105	9.386	9.386	0.0	95	660819	48.3	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	89	166447	51.9	
101 Bromobenzene	156	9.769	9.769	0.0	93	168026	49.6	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	60	232894	262.4	
99 N-Propylbenzene	91	9.800	9.800	0.0	96	769174	48.5	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	59	51236	49.8	
103 2-Chlorotoluene	126	9.933	9.933	0.0	94	162393	49.3	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	92	570741	49.0	
105 4-Chlorotoluene	126	10.037	10.037	0.0	97	166656	49.0	
106 tert-Butylbenzene	134	10.280	10.280	0.0	91	119577	48.6	
107 1,2,4-Trimethylbenzene	105	10.335	10.335	0.0	96	567041	48.6	
109 sec-Butylbenzene	105	10.481	10.481	0.0	94	708096	48.8	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	96	586060	48.5	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	95	315703	48.8	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	94	317846	48.5	
115 n-Butylbenzene	91	10.974	10.974	0.0	96	537663	49.1	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	97	300786	48.9	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	75	25889	47.6	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	95	186930	51.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	98	96345	49.4	
121 Naphthalene	128	12.622	12.622	0.0	97	504716	49.9	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	95	164857	51.5	
S 123 Total BTEX	1				0		293.3	
S 124 Xylenes, Total	1				0		147.3	
S 125 1,2-Dichloroethene, Total	1				0		99.2	
S 126 1,3-Dichloropropene, Total	1				0		105.3	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6726.D

Injection Date: 03-Apr-2013 14:58:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 8

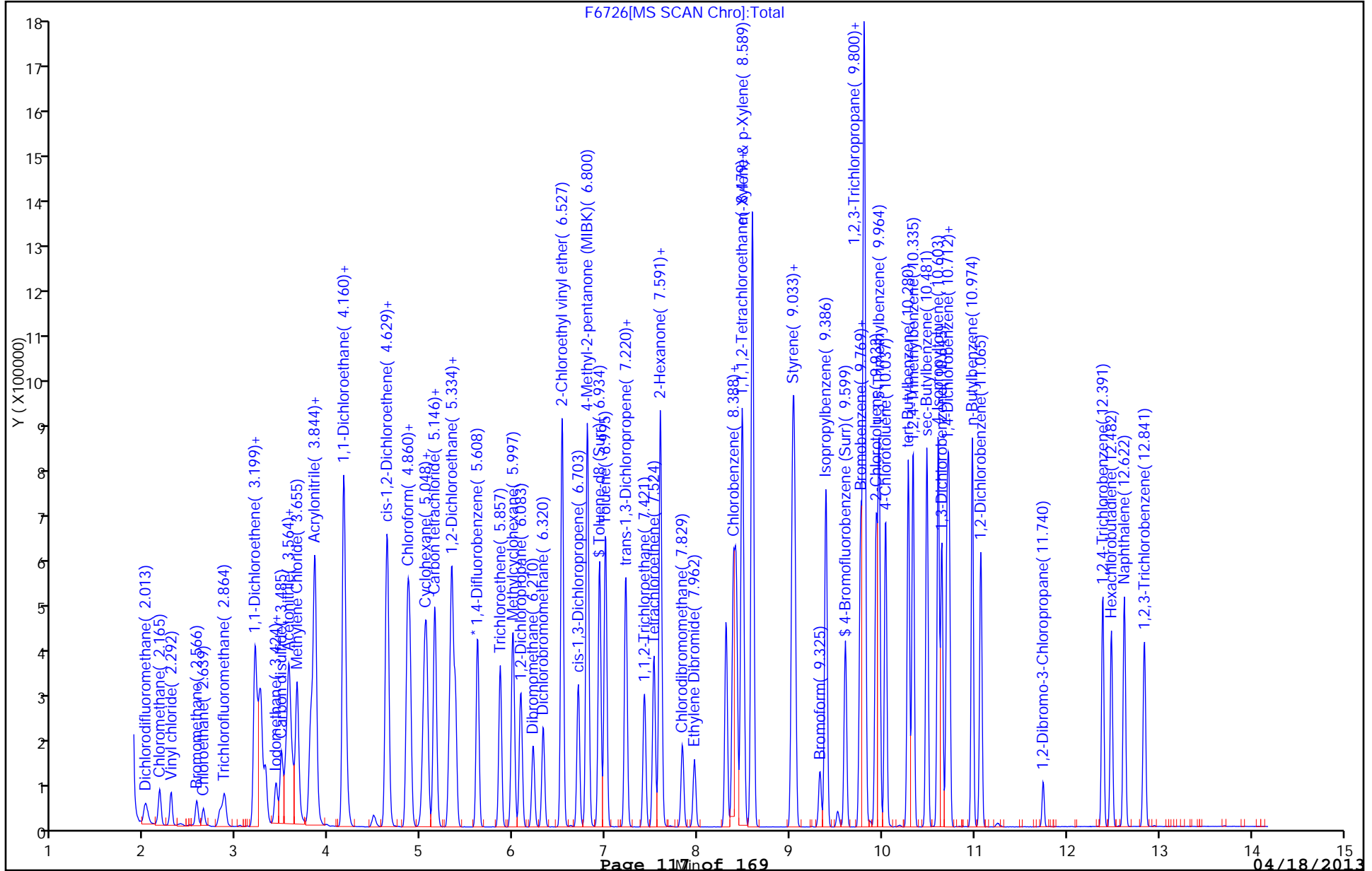
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6727.D
 Lims ID: STD6 Client ID:
 Inject. Date: 03-Apr-2013 15:23:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: STD6
 Misc. Info.: 480-0020220-009 =480-0020220-009
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 9
 Lims Batch ID: 110659 Lims Sample ID: 9
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 16:01:39 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 16:01:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.614	-0.006	94	432488	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	75	218913	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	68	200912	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	92	72570	49.9	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	506858	49.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	151511	50.0	
10 Dichlorodifluoromethane	85	2.012	2.013	-0.001	98	221953	105.8	
12 Chloromethane	50	2.165	2.165	0.0	99	217059	92.3	
13 Vinyl chloride	62	2.286	2.292	-0.006	99	200102	95.8	
14 Bromomethane	94	2.566	2.566	0.0	89	96550	98.1	
15 Chloroethane	64	2.633	2.639	-0.006	98	88231	96.9	
17 Trichlorofluoromethane	101	2.864	2.864	0.0	98	290203	103.7	
20 Acrolein	56	3.193	3.199	-0.006	97	909571	1866.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.229	3.229	0.0	93	232789	99.5	
22 1,1-Dichloroethene	96	3.260	3.266	-0.006	94	244721	96.9	
23 Acetone	43	3.308	3.315	-0.006	98	432099	452.9	
25 Iodomethane	142	3.424	3.430	-0.006	98	313468	100.9	
26 Carbon disulfide	76	3.479	3.485	-0.006	99	728731	111.0	
27 Methyl acetate	43	3.527	3.534	-0.007	92	389560	94.7	
29 Acetonitrile	40	3.564	3.570	-0.006	99	789627	3731.5	
30 Methylene Chloride	84	3.649	3.655	-0.006	92	291767	87.7	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	86	826353	96.1	
34 trans-1,2-Dichloroethene	96	3.838	3.844	-0.006	99	281024	96.2	
33 Acrylonitrile	53	3.850	3.856	-0.006	99	591017	473.2	
37 Vinyl acetate	43	4.154	4.160	-0.006	97	2421451	467.9	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	95	488053	94.6	
43 2-Butanone (MEK)	43	4.616	4.622	-0.006	99	730386	466.3	
44 2,2-Dichloropropane	77	4.622	4.629	-0.007	68	388696	99.8	
45 cis-1,2-Dichloroethene	96	4.635	4.641	-0.006	83	310210	96.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.841	4.848	-0.007	92	151129	97.4	
49 Tetrahydrofuran	42	4.860	4.860	0.0	91	480249	460.1	
50 Chloroform	83	4.878	4.878	0.0	93	484799	97.3	
51 1,1,1-Trichloroethane	97	5.024	5.030	-0.006	95	429222	102.2	
52 Cyclohexane	56	5.054	5.054	0.0	90	510983	98.1	
54 1,1-Dichloropropene	75	5.139	5.146	-0.007	96	376318	97.3	
55 Carbon tetrachloride	117	5.152	5.158	-0.006	90	372761	107.3	
57 Benzene	78	5.328	5.334	-0.006	97	1115184	95.4	
58 1,2-Dichloroethane	62	5.365	5.371	-0.006	92	383242	97.0	
62 Trichloroethene	95	5.857	5.857	0.0	99	294960	98.8	
64 Methylcyclohexane	83	5.991	5.997	-0.006	91	493200	98.8	
65 1,2-Dichloropropane	63	6.076	6.083	-0.007	96	295958	98.9	
67 Dibromomethane	93	6.210	6.210	0.0	88	170639	100.5	
68 Dichlorobromomethane	83	6.320	6.320	0.0	99	366891	109.1	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	-0.001	92	921071	479.6	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	92	450087	105.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	96	1509495	469.9	
74 Toluene	92	6.995	7.001	-0.006	99	729324	94.2	
75 Ethyl methacrylate	69	7.214	7.214	0.0	92	355981	100.5	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	96	404885	105.7	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	90	204497	99.0	
81 Tetrachloroethene	166	7.524	7.524	0.0	97	303291	97.7	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	91	409434	95.6	
80 2-Hexanone	43	7.591	7.591	0.0	96	1075978	474.9	
83 Chlorodibromomethane	129	7.828	7.829	-0.001	89	281645	100.1	
84 Ethylene Dibromide	107	7.962	7.962	0.0	98	269960	102.5	
87 Chlorobenzene	112	8.412	8.419	-0.007	94	790119	94.6	
88 Ethylbenzene	91	8.473	8.479	-0.006	98	1330224	95.1	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	93	271856	105.2	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	1041575	187.4	
91 o-Xylene	106	9.027	9.027	0.0	94	515199	95.1	
92 Styrene	104	9.045	9.045	0.0	94	869348	97.4	
95 Bromoform	173	9.325	9.319	0.006	96	168383	98.1	
94 Isopropylbenzene	105	9.386	9.386	0.0	96	1331009	95.5	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	87	320576	98.1	
101 Bromobenzene	156	9.769	9.769	0.0	93	325047	94.2	
98 trans-1,4-Dichloro-2-butene	53	9.799	9.800	-0.001	57	448605	496.2	
99 N-Propylbenzene	91	9.799	9.800	-0.001	95	1497860	92.8	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	79	98740	95.5	
103 2-Chlorotoluene	126	9.933	9.933	0.0	96	320502	95.5	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	84	1131819	95.5	
105 4-Chlorotoluene	126	10.037	10.037	0.0	97	332149	95.8	
106 tert-Butylbenzene	134	10.280	10.280	0.0	91	239562	95.6	
107 1,2,4-Trimethylbenzene	105	10.329	10.335	-0.006	96	1111488	93.5	
109 sec-Butylbenzene	105	10.481	10.481	0.0	94	1418778	96.0	
110 4-Isopropyltoluene	119	10.603	10.603	-0.001	96	1174720	95.5	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	96	615220	93.5	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	94	624094	93.5	
115 n-Butylbenzene	91	10.974	10.974	0.0	97	1070836	96.1	
116 1,2-Dichlorobenzene	146	11.071	11.065	0.006	98	593635	94.8	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	79	56391	100.2	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	95	367260	99.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	98	195064	98.1	
121 Naphthalene	128	12.622	12.622	0.0	97	979339	95.1	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	96	324577	99.5	
S 123 Total BTEX	1				0		567.1	
S 124 Xylenes, Total	1				0		282.5	
S 125 1,2-Dichloroethene, Total	1				0		192.6	
S 126 1,3-Dichloropropene, Total	1				0		210.7	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6727.D

Injection Date: 03-Apr-2013 15:23:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 9

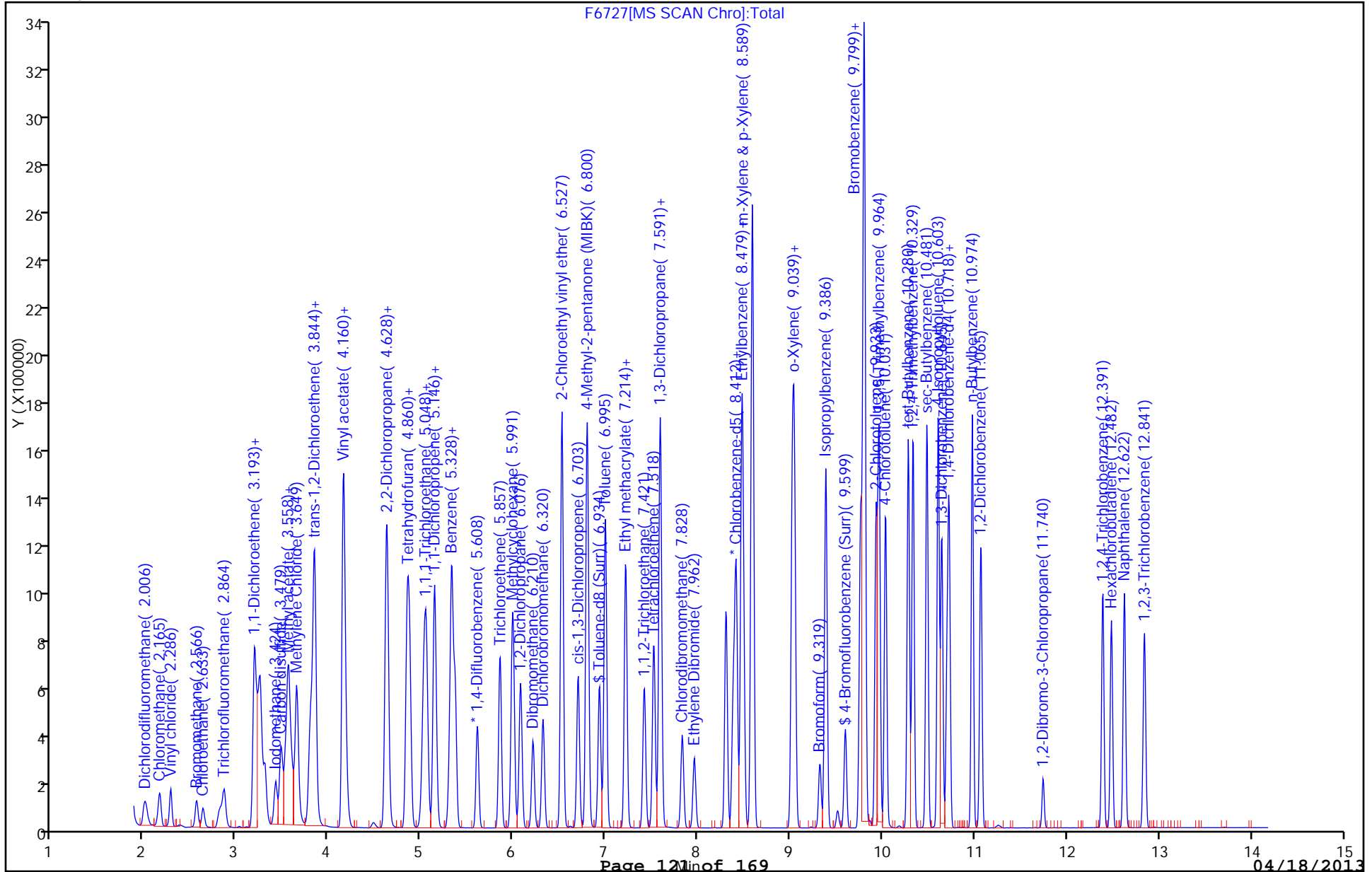
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Lims ID: STD7 Client ID:
 Inject. Date: 03-Apr-2013 15:49:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 7
 Sample ID: STD7
 Misc. Info.: 480-0020220-010 =480-0020220-010
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 10
 Lims Batch ID: 110659 Lims Sample ID: 10
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 16:02:06 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: jonesr

Date: 03-Apr-2013 16:02:06

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.614	0.0	94	437346	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	75	221796	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	94	200067	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	83	71472	48.6	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	515829	50.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	154455	50.3	
10 Dichlorodifluoromethane	85	2.013	2.013	0.0	98	411495	193.9	
12 Chloromethane	50	2.177	2.165	0.012	99	418223	175.9	
13 Vinyl chloride	62	2.292	2.292	0.0	99	380919	180.3	
14 Bromomethane	94	2.578	2.566	0.012	89	214481	215.6	
15 Chloroethane	64	2.645	2.639	0.006	99	191027	207.4	
17 Trichlorofluoromethane	101	2.870	2.864	0.006	97	593318	209.6	
20 Acrolein	56	3.199	3.199	0.0	97	1780188	3612.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.235	3.229	0.006	93	450422	190.5	
22 1,1-Dichloroethene	96	3.266	3.266	0.0	94	480441	188.1	
23 Acetone	43	3.308	3.315	-0.006	98	836423	866.9	
25 Iodomethane	142	3.430	3.430	0.0	98	631749	201.2	
26 Carbon disulfide	76	3.485	3.485	0.0	99	1490494	224.6	
27 Methyl acetate	43	3.533	3.534	-0.001	91	750379	180.3	
29 Acetonitrile	40	3.564	3.570	-0.006	99	1521041	7108.1	
30 Methylene Chloride	84	3.655	3.655	0.0	92	578432	172.0	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	86	1650883	189.8	
34 trans-1,2-Dichloroethene	96	3.844	3.844	0.0	99	546289	184.9	
33 Acrylonitrile	53	3.856	3.856	0.0	98	1150263	910.7	
37 Vinyl acetate	43	4.160	4.160	0.0	97	4533296	866.2	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	96	950891	182.3	
43 2-Butanone (MEK)	43	4.616	4.622	-0.006	99	1406242	887.8	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	66	759007	192.8	
45 cis-1,2-Dichloroethene	96	4.635	4.641	-0.006	83	602908	185.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.848	4.848	0.0	98	301678	192.3	
49 Tetrahydrofuran	42	4.860	4.860	0.0	90	917682	869.4	
50 Chloroform	83	4.878	4.878	0.0	94	969409	192.4	
51 1,1,1-Trichloroethane	97	5.024	5.030	-0.006	95	865673	203.8	
52 Cyclohexane	56	5.054	5.054	0.0	91	983081	186.6	
54 1,1-Dichloropropene	75	5.146	5.146	0.0	97	734797	187.9	
55 Carbon tetrachloride	117	5.158	5.158	0.0	90	756357	215.2	
57 Benzene	78	5.334	5.334	0.0	97	2170007	183.5	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	92	759834	190.2	
62 Trichloroethene	95	5.857	5.857	0.0	99	585332	193.8	
64 Methylcyclohexane	83	5.997	5.997	0.0	92	956677	189.6	
65 1,2-Dichloropropane	63	6.083	6.083	-0.001	95	575950	190.3	
67 Dibromomethane	93	6.210	6.210	0.0	89	347416	202.2	
68 Dichlorobromomethane	83	6.320	6.320	0.0	100	759796	223.5	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	93	1735514	893.7	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	92	911173	210.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	95	2843023	873.5	
74 Toluene	92	6.995	7.001	-0.006	99	1428737	182.1	
75 Ethyl methacrylate	69	7.214	7.214	0.0	92	711105	198.2	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	96	811843	209.2	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	91	408870	195.4	
81 Tetrachloroethene	166	7.524	7.524	0.0	96	591861	188.1	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	91	782992	180.5	
80 2-Hexanone	43	7.597	7.591	0.006	95	2015211	877.9	
83 Chlorodibromomethane	129	7.828	7.829	-0.001	90	585038	203.8	
84 Ethylene Dibromide	107	7.962	7.962	0.0	99	544098	204.0	
87 Chlorobenzene	112	8.413	8.419	-0.006	93	1557887	184.1	
88 Ethylbenzene	91	8.479	8.479	0.0	98	2561345	180.7	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	90	541592	206.9	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	1984193	352.4	
91 o-Xylene	106	9.027	9.027	0.0	94	996644	181.5	
92 Styrene	104	9.051	9.045	0.006	95	1682164	186.0	
95 Bromoform	173	9.325	9.319	0.006	97	365990	208.0	
94 Isopropylbenzene	105	9.386	9.386	0.0	96	2590055	186.6	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	88	629636	193.5	
101 Bromobenzene	156	9.769	9.769	0.0	93	635593	185.0	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	61	855983	950.9	
99 N-Propylbenzene	91	9.806	9.800	0.006	95	2748675	171.0	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	75	187420	182.0	
103 2-Chlorotoluene	126	9.933	9.933	0.0	94	619400	185.4	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	93	2168300	183.7	
105 4-Chlorotoluene	126	10.037	10.037	0.0	98	653569	189.3	
106 tert-Butylbenzene	134	10.280	10.280	0.0	91	465048	186.4	
107 1,2,4-Trimethylbenzene	105	10.335	10.335	0.0	96	2179903	184.1	
109 sec-Butylbenzene	105	10.481	10.481	0.0	94	2714456	184.4	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	96	2251423	183.9	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	96	1219155	186.0	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	95	1242742	187.1	
115 n-Butylbenzene	91	10.974	10.974	0.0	97	2070691	186.6	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	97	1160339	186.0	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	85	114896	203.5	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	94	717601	194.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	99	374374	189.2	
121 Naphthalene	128	12.622	12.622	0.0	97	1866265	182.1	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	96	618667	190.4	
S 123 Total BTEX	1				0		1080.2	
S 124 Xylenes, Total	1				0		533.9	
S 125 1,2-Dichloroethene, Total	1				0		370.1	
S 126 1,3-Dichloropropene, Total	1				0		419.5	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D

Injection Date: 03-Apr-2013 15:49:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 110659

Lims Sample ID: 10

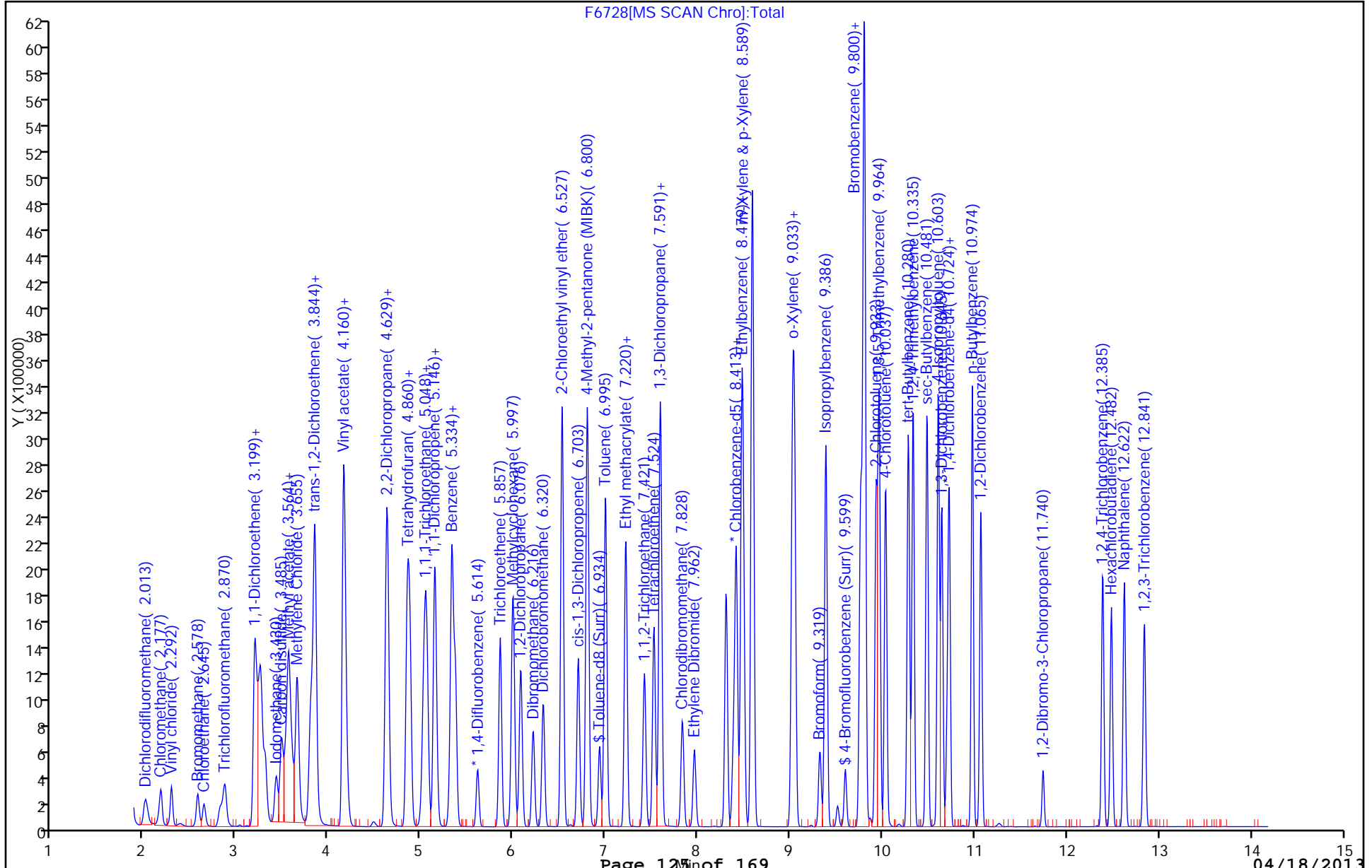
Operator ID: rj

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-113252/3 Calibration Date: 04/16/2013 21:21
 Instrument ID: HP5973F Calib Start Date: 04/03/2013 13:16
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/03/2013 15:49
 Lab File ID: F7030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2426	0.2515		51.8	50.0	3.7	50.0
Chloromethane	Ave	0.2718	0.2501	0.1000	46.0	50.0	-8.0	50.0
Vinyl chloride	Ave	0.2416	0.2317		48.0	50.0	-4.1	20.0
Bromomethane	Ave	0.1138	0.1141		50.2	50.0	0.3	50.0
Chloroethane	Ave	0.1053	0.1065		50.6	50.0	1.1	50.0
Trichlorofluoromethane	Ave	0.3236	0.3566		55.1	50.0	10.2	50.0
Acrolein	Ave	0.0563	0.0493		876	1000	-12.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2704	0.2799		51.8	50.0	3.5	50.0
1,1-Dichloroethene	Ave	0.2920	0.2853	0.1000	48.8	50.0	-2.3	20.0
Acetone	Ave	0.1103	0.1026		233	250	-7.0	50.0
Iodomethane	Ave	0.3590	0.3520		49.0	50.0	-1.9	50.0
Carbon disulfide	Ave	0.7587	0.8066		53.2	50.0	6.3	50.0
Methyl acetate	Ave	0.4757	0.4167		43.8	50.0	-12.4	50.0
Acetonitrile	Ave	0.0245	0.0220		1800	2000	-10.0	50.0
Methylene Chloride	Ave	0.3846	0.3321		43.2	50.0	-13.6	50.0
Methyl tert-butyl ether	Ave	0.9946	0.9583		48.2	50.0	-3.6	50.0
trans-1,2-Dichloroethene	Ave	0.3378	0.3248		48.1	50.0	-3.9	50.0
Acrylonitrile	Ave	0.1444	0.1305		226	250	-9.6	50.0
Vinyl acetate	Ave	0.5983	0.5663		237	250	-5.4	50.0
1,1-Dichloroethane	Ave	0.5962	0.5686		47.7	50.0	-4.6	50.0
2-Butanone (MEK)	Ave	0.1811	0.1663		230	250	-8.2	50.0
2,2-Dichloropropane	Ave	0.4501	0.5006		55.6	50.0	11.2	50.0
cis-1,2-Dichloroethene	Ave	0.3721	0.3508		47.1	50.0	-5.7	50.0
Bromochloromethane	Ave	0.1794	0.1725		48.1	50.0	-3.9	50.0
Tetrahydrofuran	Ave	0.1207	0.1096		227	250	-9.1	50.0
Chloroform	Ave	0.5761	0.5590		48.5	50.0	-3.0	20.0
1,1,1-Trichloroethane	Ave	0.4856	0.5270		54.3	50.0	8.5	50.0
Cyclohexane	Ave	0.6022	0.5744		47.7	50.0	-4.6	50.0
1,1-Dichloropropene	Ave	0.4471	0.4373		48.9	50.0	-2.2	50.0
Carbon tetrachloride	Ave	0.4018	0.4603		57.3	50.0	14.6	50.0
Benzene	Ave	1.352	1.218		45.0	50.0	-9.9	50.0
1,2-Dichloroethane	Ave	0.4567	0.4601		50.4	50.0	0.7	50.0
Trichloroethene	Ave	0.3453	0.3301		47.8	50.0	-4.4	50.0
Methylcyclohexane	Ave	0.5768	0.5589		48.4	50.0	-3.1	50.0
1,2-Dichloropropane	Ave	0.3460	0.3193		46.1	50.0	-7.7	20.0
Dibromomethane	Ave	0.1964	0.1873		47.7	50.0	-4.7	50.0
Bromodichloromethane	Ave	0.3886	0.4117		53.0	50.0	5.9	50.0
2-Chloroethyl vinyl ether	Ave	0.2220	0.2063		232	250	-7.1	50.0
cis-1,3-Dichloropropene	Ave	0.4954	0.5010		50.6	50.0	1.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7337	0.7399		252	250	0.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-113252/3 Calibration Date: 04/16/2013 21:21
 Instrument ID: HP5973F Calib Start Date: 04/03/2013 13:16
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/03/2013 15:49
 Lab File ID: F7030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.769	1.768		50.0	50.0	-0.0	20.0
Ethyl methacrylate	Ave	0.8090	0.8168		50.5	50.0	1.0	50.0
trans-1,3-Dichloropropene	Ave	0.8747	0.9854		56.3	50.0	12.7	50.0
1,1,2-Trichloroethane	Ave	0.4716	0.4633		49.1	50.0	-1.8	50.0
Tetrachloroethene	Ave	0.7092	0.7595		53.5	50.0	7.1	50.0
1,3-Dichloropropane	Ave	0.9778	0.9739		49.8	50.0	-0.4	50.0
2-Hexanone	Ave	0.5175	0.5280		255	250	2.0	50.0
Dibromochloromethane	Lin1		0.6753		53.2	50.0	6.5	50.0
1,2-Dibromoethane	Ave	0.6013	0.6271		52.1	50.0	4.3	50.0
Chlorobenzene	Ave	1.907	1.926	0.3000	50.5	50.0	1.0	50.0
Ethylbenzene	Ave	3.196	3.299		51.6	50.0	3.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5901	0.6882		58.3	50.0	16.6	50.0
m,p-Xylene	Ave	1.269	1.312		103	100	3.3	50.0
o-Xylene	Ave	1.238	1.263		51.0	50.0	2.1	50.0
Styrene	Ave	2.039	2.100		51.5	50.0	3.0	50.0
Bromoform	Lin1		0.4171	0.1000	54.1	50.0	8.2	50.0
Isopropylbenzene	Ave	3.469	3.539		51.0	50.0	2.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8133	0.8097	0.3000	49.8	50.0	-0.4	50.0
Bromobenzene	Ave	0.8587	0.8548		49.8	50.0	-0.5	50.0
N-Propylbenzene	Ave	4.017	4.066		50.6	50.0	1.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2250	0.2416		269	250	7.4	50.0
1,2,3-Trichloropropane	Ave	0.2573	0.2643		51.4	50.0	2.7	50.0
2-Chlorotoluene	Ave	0.8351	0.8366		50.1	50.0	0.2	50.0
1,3,5-Trimethylbenzene	Ave	2.949	3.009		51.0	50.0	2.0	50.0
4-Chlorotoluene	Ave	0.8628	0.8671		50.2	50.0	0.5	50.0
tert-Butylbenzene	Ave	0.6235	0.6458		51.8	50.0	3.6	50.0
1,2,4-Trimethylbenzene	Ave	2.959	2.980		50.4	50.0	0.7	50.0
sec-Butylbenzene	Ave	3.679	3.798		51.6	50.0	3.2	50.0
4-Isopropyltoluene	Ave	3.060	3.184		52.0	50.0	4.1	50.0
1,3-Dichlorobenzene	Ave	1.638	1.648		50.3	50.0	0.6	50.0
1,4-Dichlorobenzene	Ave	1.660	1.668		50.2	50.0	0.4	50.0
n-Butylbenzene	Ave	2.773	2.868		51.7	50.0	3.4	50.0
1,2-Dichlorobenzene	Ave	1.559	1.547		49.6	50.0	-0.7	50.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1499		54.2	50.0	8.4	50.0
1,2,4-Trichlorobenzene	Ave	0.9224	0.9783		53.0	50.0	6.1	50.0
Hexachlorobutadiene	Ave	0.4946	0.5425		54.8	50.0	9.7	50.0
Naphthalene	Ave	2.562	2.535		49.5	50.0	-1.1	50.0
1,2,3-Trichlorobenzene	Ave	0.8120	0.8735		53.8	50.0	7.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1683	0.1661		49.3	50.0	-1.3	50.0
Toluene-d8 (Surr)	Ave	2.319	2.322		50.1	50.0	0.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6916	0.7064		51.1	50.0	2.1	50.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7030.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 16-Apr-2013 21:21:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: CCVIS
 Misc. Info.: 480-0020671-003 =480-0020671-003
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 1
 Lims Batch ID: 113252 Lims Sample ID: 3
 Sublist: chrom-F-8260 SOIL*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 16-Apr-2013 21:48:39 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: cwiklinc

Date: 16-Apr-2013 21:48:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	94	387044	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	82	181918	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	84	172824	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	92	64271	49.3	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	91	422489	50.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	128504	51.1	
10 Dichlorodifluoromethane	85	2.000	2.000	0.0	83	97352	51.8	
12 Chloromethane	50	2.158	2.158	0.0	88	96782	46.0	
13 Vinyl chloride	62	2.280	2.280	0.0	92	89675	48.0	
14 Bromomethane	94	2.566	2.566	0.0	87	44176	50.2	
15 Chloroethane	64	2.633	2.633	0.0	95	41224	50.6	
17 Trichlorofluoromethane	101	2.852	2.852	0.0	82	138000	55.1	
20 Acrolein	56	3.187	3.187	0.0	97	381910	875.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.229	3.229	0.0	83	108322	51.8	
22 1,1-Dichloroethene	96	3.254	3.254	0.0	86	110419	48.8	
23 Acetone	43	3.302	3.302	0.0	97	198541	232.5	
25 Iodomethane	142	3.412	3.412	0.0	98	136248	49.0	
26 Carbon disulfide	76	3.473	3.473	0.0	99	312173	53.2	
27 Methyl acetate	43	3.527	3.527	0.0	91	161285	43.8	
29 Acetonitrile	40	3.558	3.558	0.0	99	341018	1800.8	
30 Methylene Chloride	84	3.649	3.649	0.0	89	128534	43.2	
32 Methyl tert-butyl ether	73	3.801	3.801	0.0	90	370908	48.2	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	98	125714	48.1	
33 Acrylonitrile	53	3.850	3.850	0.0	99	252633	226.0	
37 Vinyl acetate	43	4.154	4.154	0.0	97	1095879	236.6	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	84	220060	47.7	
43 2-Butanone (MEK)	43	4.616	4.616	0.0	99	321817	229.6	
44 2,2-Dichloropropane	77	4.622	4.622	0.0	61	193768	55.6	
45 cis-1,2-Dichloroethene	96	4.628	4.628	0.0	69	135762	47.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.841	4.841	0.0	94	66755	48.1	
49 Tetrahydrofuran	42	4.853	4.853	0.0	92	212185	227.1	
50 Chloroform	83	4.872	4.872	0.0	81	216351	48.5	
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	95	203985	54.3	
52 Cyclohexane	56	5.054	5.054	0.0	92	222297	47.7	
54 1,1-Dichloropropene	75	5.139	5.139	0.0	94	169237	48.9	
55 Carbon tetrachloride	117	5.152	5.152	0.0	80	178158	57.3	
57 Benzene	78	5.328	5.328	0.0	98	471293	45.0	
58 1,2-Dichloroethane	62	5.365	5.365	0.0	82	178067	50.4	
62 Trichloroethene	95	5.851	5.851	0.0	93	127776	47.8	
64 Methylcyclohexane	83	5.991	5.991	0.0	91	216302	48.4	
65 1,2-Dichloropropane	63	6.076	6.076	0.0	93	123580	46.1	
67 Dibromomethane	93	6.210	6.210	0.0	86	72474	47.7	
68 Dichlorobromomethane	83	6.320	6.320	0.0	98	159341	53.0	
69 2-Chloroethyl vinyl ether	63	6.526	6.526	0.0	93	399196	232.3	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	88	193891	50.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.800	6.800	0.0	96	672995	252.1	
74 Toluene	92	6.995	6.995	0.0	98	321698	50.0	
75 Ethyl methacrylate	69	7.214	7.214	0.0	91	148594	50.5	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	95	179264	56.3	
79 1,1,2-Trichloroethane	83	7.415	7.415	0.0	85	84281	49.1	
81 Tetrachloroethene	166	7.524	7.524	0.0	91	138167	53.5	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	93	177176	49.8	
80 2-Hexanone	43	7.591	7.591	0.0	96	480301	255.1	
83 Chlorodibromomethane	129	7.828	7.828	0.0	87	122844	53.2	
84 Ethylene Dibromide	107	7.962	7.962	0.0	97	114088	52.1	
87 Chlorobenzene	112	8.412	8.412	0.0	94	350402	50.5	
88 Ethylbenzene	91	8.473	8.473	0.0	98	600182	51.6	
89 1,1,1,2-Tetrachloroethane	131	8.491	8.491	0.0	91	125199	58.3	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	477195	103.3	
91 o-Xylene	106	9.021	9.021	0.0	96	229801	51.0	
92 Styrene	104	9.045	9.045	0.0	94	382075	51.5	
95 Bromoform	173	9.325	9.325	0.0	96	75871	54.1	
94 Isopropylbenzene	105	9.386	9.386	0.0	95	611622	51.0	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	87	139927	49.8	
101 Bromobenzene	156	9.769	9.769	0.0	93	147729	49.8	
98 trans-1,4-Dichloro-2-butene	53	9.799	9.799	0.0	58	208805	268.5	
99 N-Propylbenzene	91	9.799	9.799	0.0	96	702689	50.6	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	68	45680	51.4	
103 2-Chlorotoluene	126	9.933	9.933	0.0	96	144591	50.1	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	85	520095	51.0	
105 4-Chlorotoluene	126	10.031	10.031	0.0	98	149849	50.2	
106 tert-Butylbenzene	134	10.280	10.280	0.0	91	111605	51.8	
107 1,2,4-Trimethylbenzene	105	10.335	10.335	0.0	96	515044	50.4	
109 sec-Butylbenzene	105	10.481	10.481	0.0	93	656415	51.6	
110 4-Isopropyltoluene	119	10.602	10.602	0.0	94	550254	52.0	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	96	284800	50.3	
113 1,4-Dichlorobenzene	146	10.724	10.724	0.0	94	288218	50.2	
115 n-Butylbenzene	91	10.974	10.974	0.0	97	495614	51.7	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	97	267399	49.6	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	73	25908	54.2	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	94	169076	53.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.482	12.482	0.0	97	93758	54.8	
121 Naphthalene	128	12.622	12.622	0.0	97	438062	49.5	
122 1,2,3-Trichlorobenzene	180	12.841	12.841	0.0	96	150961	53.8	
S 125 1,2-Dichloroethene, Total	1				0		95.2	
S 126 1,3-Dichloropropene, Total	1				0		106.9	
S 123 Total BTEX	1				0		301.0	
S 124 Xylenes, Total	1				0		154.4	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7030.D

Injection Date: 16-Apr-2013 21:21:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 3

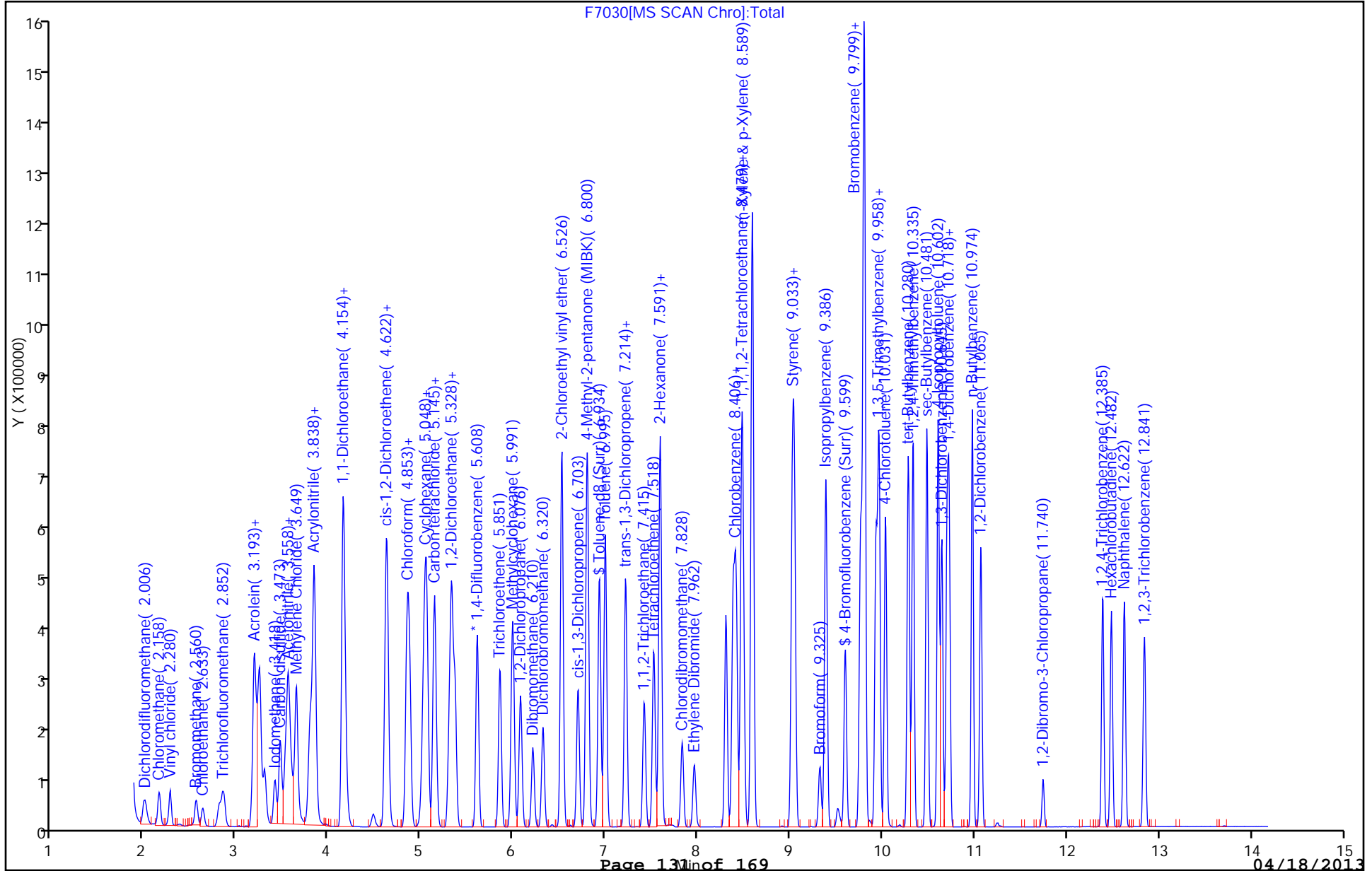
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab Sample ID: CCV 480-113252/4 Calibration Date: 04/16/2013 22:07
 Instrument ID: HP5973F Calib Start Date: 03/21/2013 03:15
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 03/21/2013 05:22
 Lab File ID: F7031.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4099	0.3922		47.8	50.0	-4.3	50.0
Dichlorofluoromethane	Ave	0.3678	0.4136		56.2	50.0	12.5	50.0
Ethyl ether	Ave	0.3038	0.2867		47.2	50.0	-5.6	50.0
Isopropyl alcohol	Ave	0.0330	0.0332		1010	1000	0.6	50.0
Allyl chloride	Ave	0.6252	0.5684		45.5	50.0	-9.1	50.0
t-Butyl alcohol	Ave	0.0539	0.0552		1020	1000	2.3	50.0
Hexane	Ave	0.5952	0.6018		50.6	50.0	1.1	50.0
Isopropyl ether	Ave	1.275	1.200		47.1	50.0	-5.9	50.0
1,1-Dimethoxyethane	Ave	0.0767	0.0878		286	250	14.4	50.0
Chloroprene	Ave	0.6017	0.5813		48.3	50.0	-3.4	50.0
Tert-butyl ethyl ether	Ave	1.168	1.184		50.7	50.0	1.4	50.0
Ethyl acetate	Ave	0.3885	0.3743		48.2	50.0	-3.7	50.0
Propionitrile	Ave	0.0584	0.0573		490	500	-1.9	50.0
Methacrylonitrile	Ave	0.2315	0.2172		46.9	50.0	-6.2	50.0
Isobutyl alcohol	Ave	0.0250	0.0241		1930	2000	-3.3	50.0
Tert-amyl methyl ether	Ave	1.006	1.013		50.3	50.0	0.7	50.0
n-Heptane	Ave	0.6522	0.6446		49.4	50.0	-1.2	50.0
n-Butanol	Ave	0.0216	0.0162		1500	2000	-25.0	50.0
Methyl methacrylate	Ave	0.3433	0.3216		46.8	50.0	-6.3	50.0
1,4-Dioxane	Ave	0.0092	0.0079		1720	2000	-14.1	50.0
2-Nitropropane	Ave	0.2672	0.2341		219	250	-12.4	50.0
Epichlorohydrin	Ave	0.0429	0.0441		1030	1000	2.9	50.0
p-Monochlorobenzotrifluoride	Ave	1.132	1.167		51.5	50.0	3.0	50.0
3-Chlorobenzotrifluoride	Ave	1.032	1.164		56.4	50.0	12.8	50.0
2-Chlorobenzotrifluoride	Ave	1.078	1.135		52.7	50.0	5.3	50.0
Cyclohexanone	Ave	0.2511	0.1933		385	500	-23.0	50.0
3-Chlorotoluene	Ave	0.9695	0.9164		47.3	50.0	-5.5	50.0
Pentachloroethane	Ave	0.3956	0.4479		56.6	50.0	13.2	50.0
Dicyclopentadiene	Ave	4.013	3.434		42.8	50.0	-14.4	50.0
1,2,3-Trimethylbenzene	Ave	3.345	3.195		47.8	50.0	-4.5	50.0
1,3,5-Trichlorobenzene	Ave	1.142	1.216		53.2	50.0	6.4	50.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7031.D
 Lims ID: CCV Client ID:
 Inject. Date: 16-Apr-2013 22:07:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: CCV
 Misc. Info.: 480-0020671-004 =480-0020671-004
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 2
 Lims Batch ID: 113252 Lims Sample ID: 4
 Sublist: chrom-F-8260 SOIL*sub5
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 16-Apr-2013 22:57:47 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK022

First Level Reviewer: cwiklinc

Date: 16-Apr-2013 22:57:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	94	382730	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	87	184726	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	173285	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	64702	50.2	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	417453	48.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	126035	49.3	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	78	150111	47.8	
16 Dichlorofluoromethane	67	2.816	2.816	0.0	97	158285	56.2	
18 Ethyl ether	59	3.028	3.028	0.0	93	109711	47.2	
19 Propene oxide	58	3.126	3.126	0.0	94	176720	259.9	
24 Isopropyl alcohol	45	3.393	3.393	0.0	99	254344	1005.6	
28 3-Chloro-1-propene	41	3.539	3.539	0.0	91	217539	45.5	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	100	422501	1023.3	
35 Hexane	57	3.978	3.978	0.0	92	230324	50.6	
36 Isopropyl ether	45	4.130	4.130	0.0	96	459279	47.1	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	94	167920	286.0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	91	222464	48.3	
41 Tert-butyl ethyl ether	59	4.409	4.409	0.0	98	453326	50.7	
42 Ethyl acetate	43	4.610	4.610	0.0	98	143256	48.2	
46 Propionitrile	54	4.714	4.714	0.0	98	219248	490.4	
47 Methacrylonitrile	41	4.817	4.817	0.0	94	83127	46.9	
53 Isobutyl alcohol	43	5.194	5.194	0.0	95	369556	1934.7	
56 Tert-amyl methyl ether	73	5.340	5.340	0.0	97	387672	50.3	
59 n-Heptane	43	5.419	5.419	0.0	94	246722	49.4	
60 n-Butanol	56	5.742	5.742	0.0	87	248083	1500.5	
63 Methyl methacrylate	41	6.082	6.082	0.0	92	123071	46.8	
66 1,4-Dioxane	88	6.180	6.180	0.0	91	58442	1718.3	
70 2-Nitropropane	43	6.533	6.533	0.0	95	202814	219.0	
71 Epichlorohydrin	57	6.642	6.642	0.0	99	337745	1029.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.309	8.309	0.0	93	202178	51.5	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	90	201720	56.4	
93 2-Chlorobenzotrifluoride	180	9.301	9.301	0.0	96	196759	52.7	
96 Cyclohexanone	55	9.580	9.580	0.0	92	334990	385.0	
104 3-Chlorotoluene	126	9.988	9.988	0.0	96	158804	47.3	
108 Pentachloroethane	167	10.359	10.359	0.0	88	77606	56.6	
114 Dicyclopentadiene	66	10.718	10.718	0.0	97	595079	42.8	
112 1,2,3-Trimethylbenzene	105	10.736	10.736	0.0	97	553664	47.8	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	96	210695	53.2	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7031.D

Injection Date: 16-Apr-2013 22:07:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 4

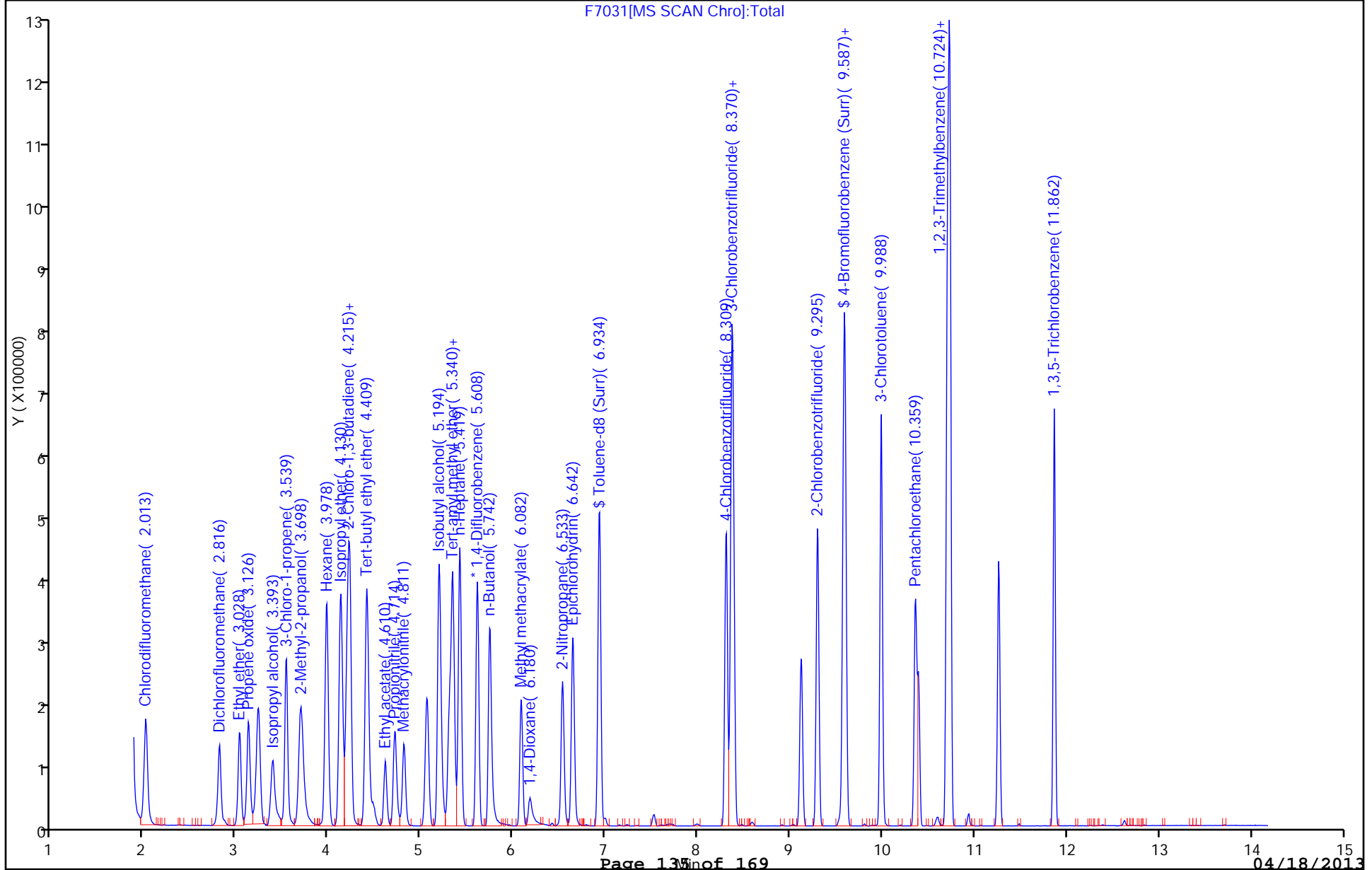
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Lab Sample ID: CCV 480-113252/4 Calibration Date: 04/16/2013 22:07
 Instrument ID: HP5973F Calib Start Date: 04/03/2013 13:16
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/03/2013 15:49
 Lab File ID: F7031.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.1683	0.1691		50.2	50.0	0.5	50.0
Toluene-d8 (Surr)	Ave	2.319	2.260		48.7	50.0	-2.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6916	0.6823		49.3	50.0	-1.3	50.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7031.D
 Lims ID: CCV Client ID:
 Inject. Date: 16-Apr-2013 22:07:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: CCV
 Misc. Info.: 480-0020671-004 =480-0020671-004
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 2
 Lims Batch ID: 113252 Lims Sample ID: 4
 Sublist: chrom-F-8260 SOIL*sub5
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 16-Apr-2013 22:57:47 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK022

First Level Reviewer: cwiklinc

Date: 16-Apr-2013 22:57:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	94	382730	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	87	184726	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	173285	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	64702	50.2	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	417453	48.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	126035	49.3	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	78	150111	47.8	
16 Dichlorofluoromethane	67	2.816	2.816	0.0	97	158285	56.2	
18 Ethyl ether	59	3.028	3.028	0.0	93	109711	47.2	
19 Propene oxide	58	3.126	3.126	0.0	94	176720	259.9	
24 Isopropyl alcohol	45	3.393	3.393	0.0	99	254344	1005.6	
28 3-Chloro-1-propene	41	3.539	3.539	0.0	91	217539	45.5	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	100	422501	1023.3	
35 Hexane	57	3.978	3.978	0.0	92	230324	50.6	
36 Isopropyl ether	45	4.130	4.130	0.0	96	459279	47.1	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	94	167920	286.0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	91	222464	48.3	
41 Tert-butyl ethyl ether	59	4.409	4.409	0.0	98	453326	50.7	
42 Ethyl acetate	43	4.610	4.610	0.0	98	143256	48.2	
46 Propionitrile	54	4.714	4.714	0.0	98	219248	490.4	
47 Methacrylonitrile	41	4.817	4.817	0.0	94	83127	46.9	
53 Isobutyl alcohol	43	5.194	5.194	0.0	95	369556	1934.7	
56 Tert-amyl methyl ether	73	5.340	5.340	0.0	97	387672	50.3	
59 n-Heptane	43	5.419	5.419	0.0	94	246722	49.4	
60 n-Butanol	56	5.742	5.742	0.0	87	248083	1500.5	
63 Methyl methacrylate	41	6.082	6.082	0.0	92	123071	46.8	
66 1,4-Dioxane	88	6.180	6.180	0.0	91	58442	1718.3	
70 2-Nitropropane	43	6.533	6.533	0.0	95	202814	219.0	
71 Epichlorohydrin	57	6.642	6.642	0.0	99	337745	1029.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.309	8.309	0.0	93	202178	51.5	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	90	201720	56.4	
93 2-Chlorobenzotrifluoride	180	9.301	9.301	0.0	96	196759	52.7	
96 Cyclohexanone	55	9.580	9.580	0.0	92	334990	385.0	
104 3-Chlorotoluene	126	9.988	9.988	0.0	96	158804	47.3	
108 Pentachloroethane	167	10.359	10.359	0.0	88	77606	56.6	
114 Dicyclopentadiene	66	10.718	10.718	0.0	97	595079	42.8	
112 1,2,3-Trimethylbenzene	105	10.736	10.736	0.0	97	553664	47.8	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	96	210695	53.2	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7031.D

Injection Date: 16-Apr-2013 22:07:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 4

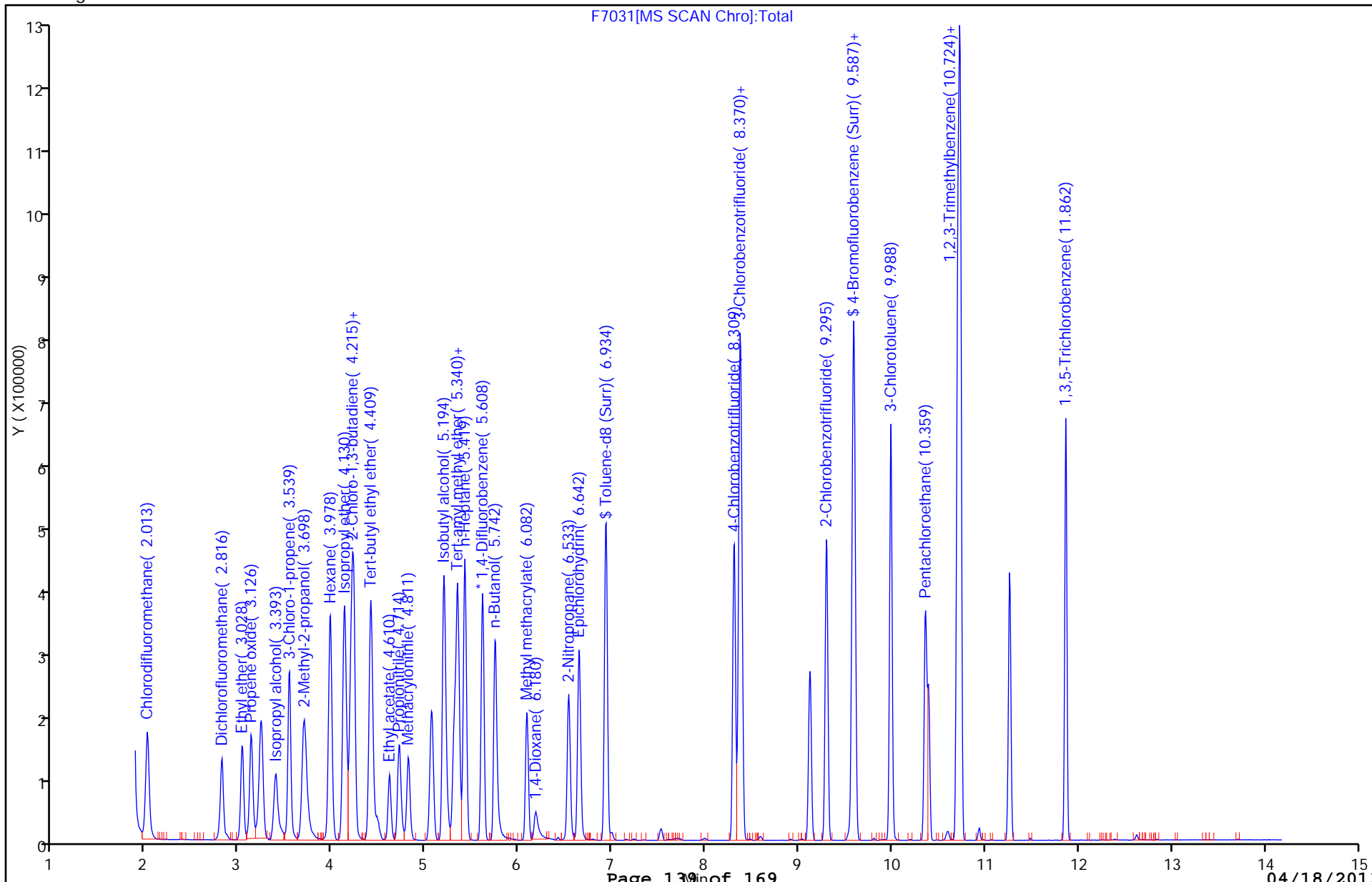
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6720.D
 Lims ID: BFB Client ID:
 Inject. Date: 03-Apr-2013 12:22:30 Dil. Factor: 1.0000
 Sample Type: BFB
 Sample ID: BFB
 Misc. Info.: 480-0020220-002 =480-0020220-002
 Operator: rj Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 2
 Lims Batch ID: 110659 Lims Sample ID: 2
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F-8260 SOIL.m
 Last Update: 03-Apr-2013 12:13:09 Calib Date: 21-Mar-2013 05:22:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130320-19835.b\F6445.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

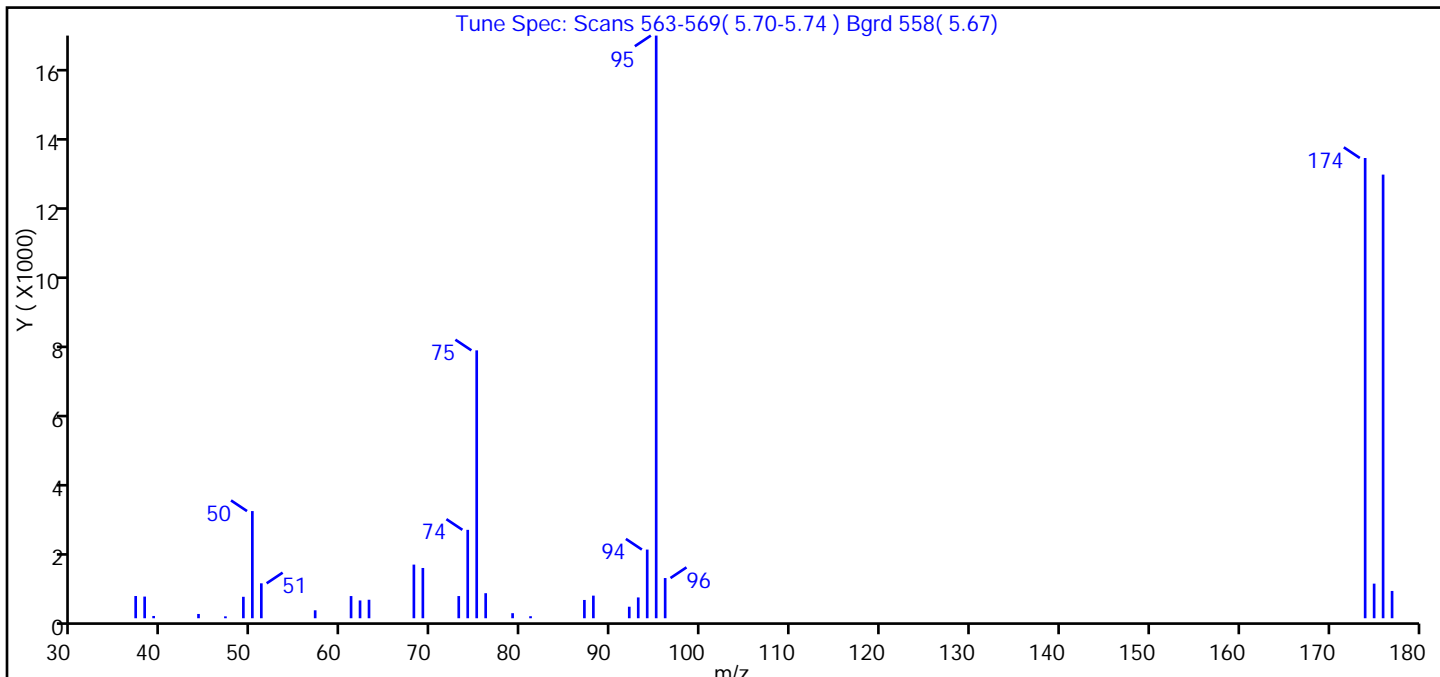
First Level Reviewer: jonesr Date: 03-Apr-2013 12:13:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114		5.608					
* 2 Chlorobenzene-d5	82		8.382					
* 3 1,4-Dichlorobenzene-d4	152		10.700					
\$ 4 1,2-Dichloroethane-d4 (Surr)	67		5.304					
\$ 61 BFB	95	5.728	5.728	0.0	0	50132	0	
\$ 5 Toluene-d8 (Surr)	98		6.934					
\$ 6 4-Bromofluorobenzene (Surr)	174		9.599					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6720.D
 Injection Date: 03-Apr-2013 12:22:30 Limit Group: MV - 8260B ICAL
 Client ID: Instrument ID: HP5973F
 Lims Batch ID: 110659 Lims Sample ID: 2
 Operator ID: rj Purge Vol: 5.000 mL
 Column Type: ZB-624 Column Dia: 0.25 mm
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.39
75	30.00 - 60.00% of mass 95	45.98
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	78.99
175	5.00 - 9.00% of mass 174	5.94 (7.52)
176	95.00 - 101.00% of mass 174	76.14 (96.39)
177	5.00 - 9.00% of mass 176	4.69 (6.15)

Data File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6720.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 03-Apr-2013 12:22:30
Spectrum: Tune Spec: Scans 563-569(5.70-5.74) Bgrd 558(5.67)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	632	57.00	226	75.00	7614	94.00	1952
38.00	616	61.00	631	76.00	712	95.00	16560
39.00	65	62.00	506	79.00	144	96.00	1143
44.00	122	63.00	526	81.00	58	174.00	13081
47.00	54	68.00	1525	87.00	520	175.00	984
49.00	610	69.00	1429	88.00	643	176.00	12609
50.00	3046	73.00	631	92.00	328	177.00	776
51.00	993	74.00	2513	93.00	592		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7029.D
 Lims ID: BFB Client ID:
 Inject. Date: 16-Apr-2013 20:55:30 Dil. Factor: 1.0000
 Sample Type: BFB
 Sample ID: BFB
 Misc. Info.: 480-0020671-002 =480-0020671-002
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 1
 Lims Batch ID: 113252 Lims Sample ID: 2
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 16-Apr-2013 21:50:52 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: cwiklinc

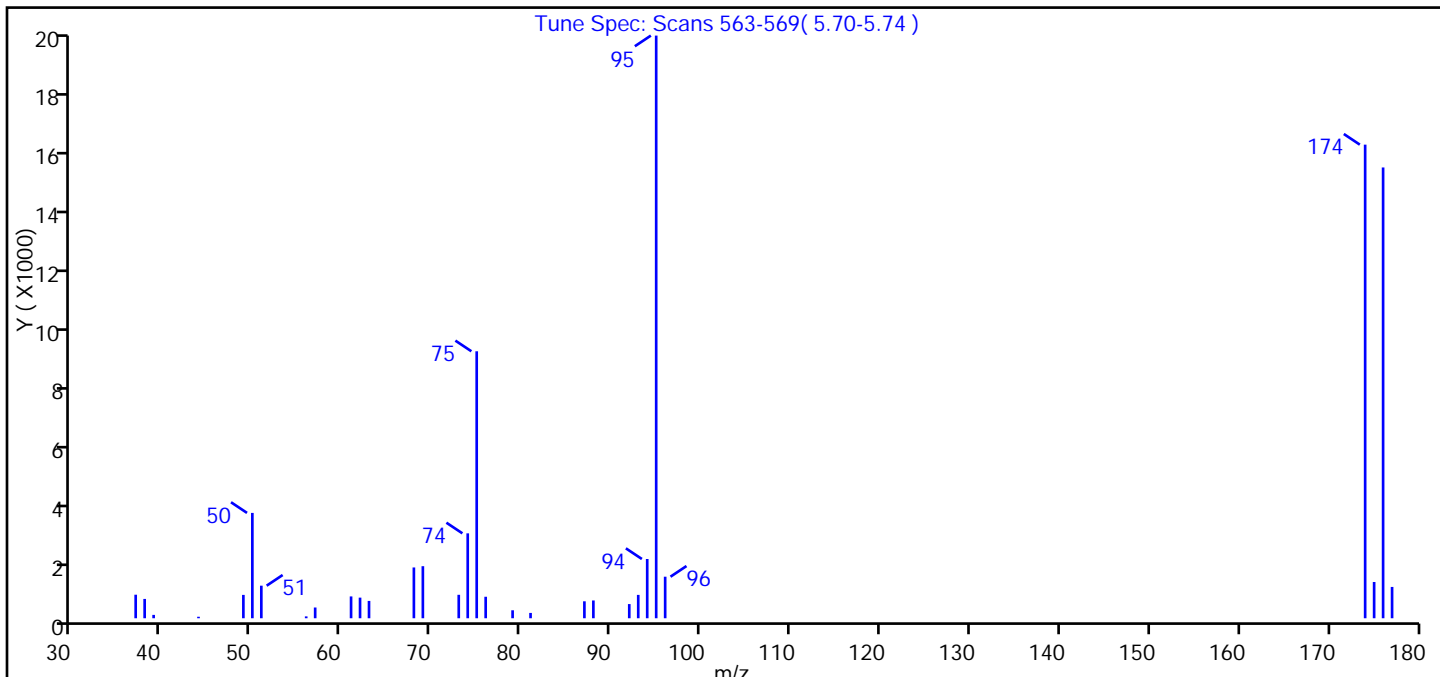
Date: 16-Apr-2013 21:03:38

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene		114	5.608					
* 2 Chlorobenzene-d5		82	8.382					
* 3 1,4-Dichlorobenzene-d4		152	10.700					
\$ 4 1,2-Dichloroethane-d4 (Surr)		67	5.304					
\$ 61 BFB		95	5.722	5.722	0.0	0	57552	0
\$ 5 Toluene-d8 (Surr)		98	6.934					
\$ 6 4-Bromofluorobenzene (Surr)		174	9.599					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7029.D
 Injection Date: 16-Apr-2013 20:55:30 Limit Group: MV - 8260B ICAL
 Client ID: Instrument ID: HP5973F
 Lims Batch ID: 113252 Lims Sample ID: 2
 Operator ID: CDC Purge Vol: 5.000 mL
 Column Type: ZB-624 Column Dia: 0.25 mm
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.08
75	30.00 - 60.00% of mass 95	45.82
96	5.00 - 9.00% of mass 95	7.13
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.28
175	5.00 - 9.00% of mass 174	6.22 (7.65)
176	95.00 - 101.00% of mass 174	77.37 (95.18)
177	5.00 - 9.00% of mass 176	5.37 (6.95)

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7029.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 16-Apr-2013 20:55:30
Spectrum: Tune Spec: Scans 563-569(5.70-5.74)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	782	57.00	357	75.00	8867	94.00	1968
38.00	642	61.00	725	76.00	714	95.00	19352
39.00	112	62.00	685	79.00	265	96.00	1380
44.00	50	63.00	576	81.00	177	174.00	15730
49.00	776	68.00	1687	87.00	563	175.00	1204
50.00	3499	69.00	1729	88.00	591	176.00	14972
51.00	1082	73.00	779	92.00	471	177.00	1040
56.00	62	74.00	2820	93.00	776		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-113252/6
 Matrix: Solid Lab File ID: F7033.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 04/16/2013 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-113252/6
 Matrix: Solid Lab File ID: F7033.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 04/16/2013 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	0.93
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	0.792	J	5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	100		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7033.D
 Lims ID: MB Client ID:
 Inject. Date: 16-Apr-2013 22:57:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: MB
 Misc. Info.: 480-0020671-006 =480-0020671-006
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 4
 Lims Batch ID: 113252 Lims Sample ID: 6
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 16-Apr-2013 22:59:04 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 16-Apr-2013 22:59:04

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	94	370067	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	85	175272	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	95	161770	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	59492	47.8	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	397919	48.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	86	120749	49.8	
10 Dichlorodifluoromethane	85		2.000					
11 Chlorodifluoromethane	51		2.013					9
12 Chloromethane	50		2.158					
13 Vinyl chloride	62		2.280					
14 Bromomethane	94		2.566					
15 Chloroethane	64		2.633					
16 Dichlorofluoromethane	67		2.816					
17 Trichlorofluoromethane	101		2.852					
18 Ethyl ether	59		3.028					
19 Propene oxide	58		3.126					
20 Acrolein	56		3.187					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.229					
22 1,1-Dichloroethene	96		3.254					
23 Acetone	43		3.302					9
24 Isopropyl alcohol	45		3.393					
25 Iodomethane	142		3.412					
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.527					
28 3-Chloro-1-propene	41		3.539					
29 Acetonitrile	40		3.558					
30 Methylene Chloride	84	3.661	3.649	0.012	43	1726	0.6064	
31 2-Methyl-2-propanol	59		3.698					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
33 Acrylonitrile	53		3.850					
35 Hexane	57	3.984	3.978	0.006	47	2107	0.4783	
134 Halothane	117		4.130					
36 Isopropyl ether	45		4.130					
37 Vinyl acetate	43		4.154					
39 1,1-Dichloroethane	63		4.178					
38 1,1-Dimethoxyethane	75		4.203					
40 2-Chloro-1,3-butadiene	53		4.227					
41 Tert-butyl ethyl ether	59		4.409					9
42 Ethyl acetate	43		4.610					9
43 2-Butanone (MEK)	43		4.616					9
44 2,2-Dichloropropane	77		4.622					9
45 cis-1,2-Dichloroethene	96		4.628					
46 Propionitrile	54		4.714					
47 Methacrylonitrile	41		4.817					
48 Chlorobromomethane	128		4.841					
49 Tetrahydrofuran	42		4.853					
50 Chloroform	83		4.872					
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.054					
54 1,1-Dichloropropene	75		5.139					9
55 Carbon tetrachloride	117		5.152					9
53 Isobutyl alcohol	43		5.194					9
57 Benzene	78		5.328					
56 Tert-amyl methyl ether	73		5.340					
58 1,2-Dichloroethane	62		5.365					
59 n-Heptane	43		5.419					
136 2,4,4-Trimethyl-1-pentene	55		5.736					
60 n-Butanol	56		5.742					
62 Trichloroethene	95		5.851					
135 2,4,4-Trimethyl-2-pentene	97		5.924					
64 Methylcyclohexane	83		5.991					
65 1,2-Dichloropropane	63		6.076					
63 Methyl methacrylate	41		6.082					
66 1,4-Dioxane	88		6.180					
67 Dibromomethane	93		6.210					
68 Dichlorobromomethane	83		6.320					
69 2-Chloroethyl vinyl ether	63		6.526					
70 2-Nitropropane	43		6.533					9
71 Epichlorohydrin	57		6.642					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.800					9
74 Toluene	92	7.001	6.995	0.006	47	4909	0.7917	
75 Ethyl methacrylate	69		7.214					
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.524					
82 1,3-Dichloropropane	76		7.585					
80 2-Hexanone	43		7.591					9
83 Chlorodibromomethane	129		7.828					
84 Ethylene Dibromide	107		7.962					
86 4-Chlorobenzotrifluoride	180		8.309					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
85 3-Chlorobenzotrifluoride	180		8.364					
87 Chlorobenzene	112		8.412					
88 Ethylbenzene	91		8.473					
89 1,1,1,2-Tetrachloroethane	131		8.491					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
93 2-Chlorobenzotrifluoride	180		9.301					
95 Bromoform	173		9.325					
94 Isopropylbenzene	105		9.386					
96 Cyclohexanone	55		9.580					9
97 1,1,2,2-Tetrachloroethane	83		9.757					
101 Bromobenzene	156		9.769					
98 trans-1,4-Dichloro-2-butene	53		9.799					
99 N-Propylbenzene	91		9.799					
100 1,2,3-Trichloropropane	110		9.812					
103 2-Chlorotoluene	126		9.933					
102 1,3,5-Trimethylbenzene	105		9.964					9
104 3-Chlorotoluene	126		9.988					
105 4-Chlorotoluene	126		10.031					
106 tert-Butylbenzene	134		10.280					
107 1,2,4-Trimethylbenzene	105	10.335	10.335	0.0	1	2484	0.2595	
108 Pentachloroethane	167		10.359					
109 sec-Butylbenzene	105		10.481					9
110 4-Isopropyltoluene	119		10.602					
111 1,3-Dichlorobenzene	146		10.645					
114 Dicyclopentadiene	66		10.718					9
113 1,4-Dichlorobenzene	146		10.724					
112 1,2,3-Trimethylbenzene	105		10.736					
76 2-Methylthiophene	97		10.900					
115 n-Butylbenzene	91		10.974					
78 3-Methylthiophene	97		11.028					
116 1,2-Dichlorobenzene	146		11.065					9
117 1,2-Dibromo-3-Chloropropane	75		11.740					
118 1,3,5-Trichlorobenzene	180		11.862					
119 1,2,4-Trichlorobenzene	180		12.391					
120 Hexachlorobutadiene	225		12.482					
121 Naphthalene	128		12.622					9
122 1,2,3-Trichlorobenzene	180		12.841					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
S 123 Total BTEX	1				0		0.7917	
S 124 Xylenes, Total	1		30.000					7
T 137 Ethyl acrylate	1		0.000					1
T 138 Aziridine TIC	1		0.000					1
T 132 Methyl acrylate	1		0.000					1
T 133 cis-1,4-Dichloro-2-butene	88		0.000					1
T 141 Pentachloroethane TIC	1		0.000					1
T 142 1-Bromopropane	1		0.000					1
T 139 Bromoethane TIC	1		0.000					1
T 140 bis(chloromethyl)ether TIC	1		0.000					1
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
T 127 Ethanol TIC	45		0.000					1
T 7 Ethylene oxide	1		0.000					1
T 8 t-Amyl alcohol	59		0.000					1
T 130 Hexachloroethane	117		0.000					1
T 131 Nitrobenzene	77		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1
T 129 tert-amyl alcohol TIC	59		0.000					1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

9 - Failed A Reference Spectral Test

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7033.D

Injection Date: 16-Apr-2013 22:57:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 6

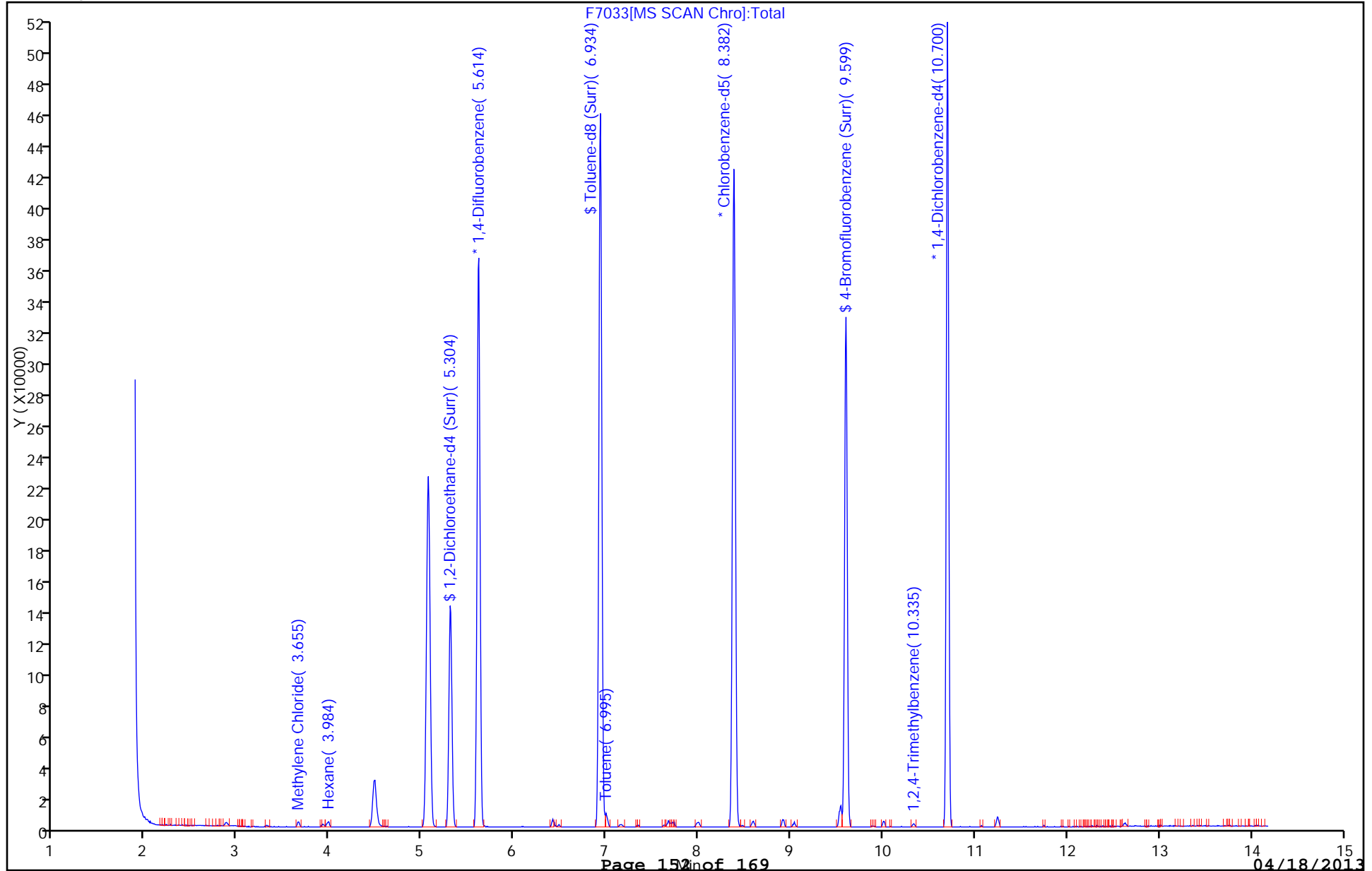
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7033.D

Injection Date: 16-Apr-2013 22:57:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 6

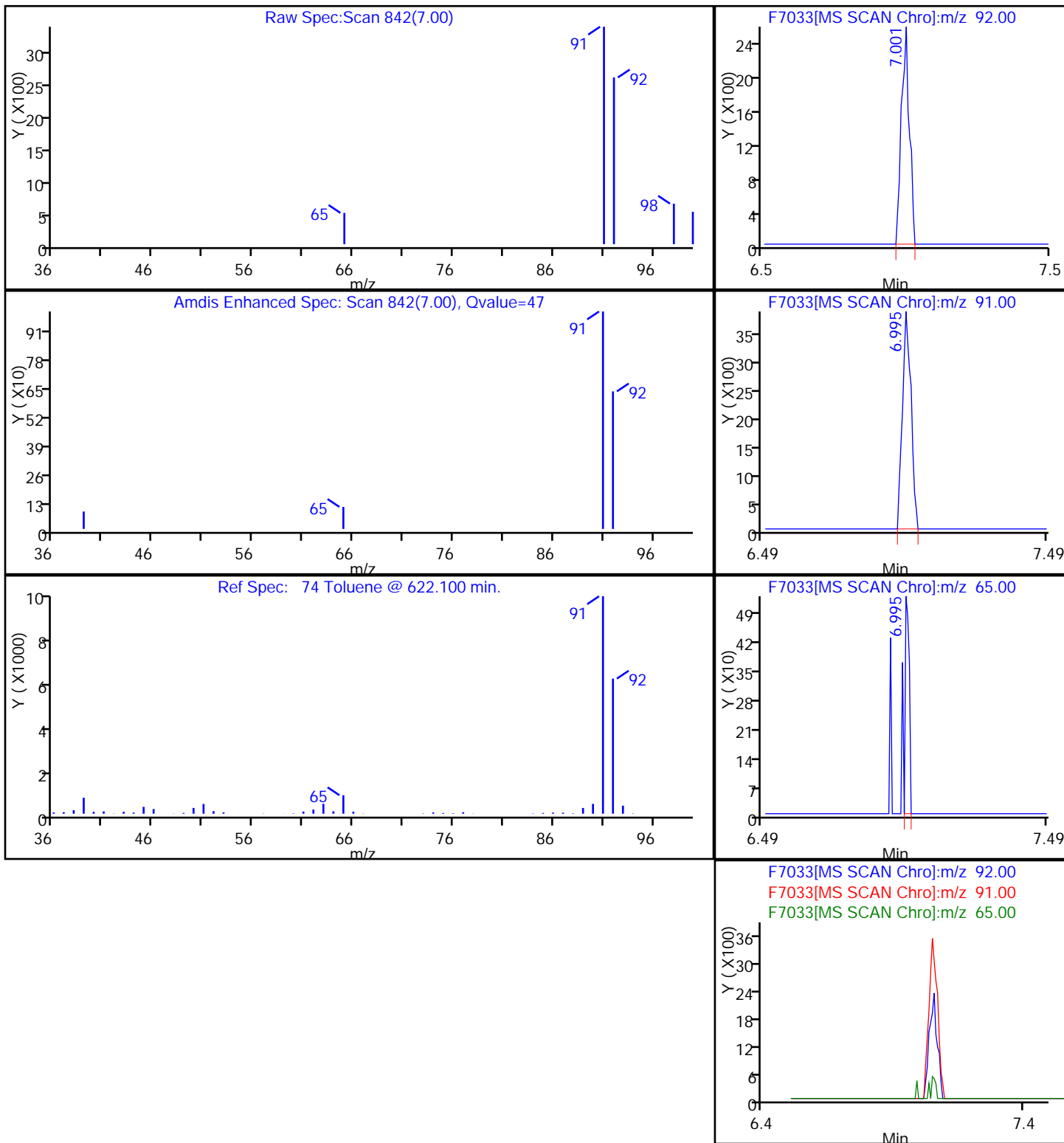
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

74 Toluene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-113252/5
 Matrix: Solid Lab File ID: F7032.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 04/16/2013 22:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 113252 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	48.4		5.0	0.61
75-35-4	1,1-Dichloroethene	43.4		5.0	0.61
95-50-1	1,2-Dichlorobenzene	51.3		5.0	0.39
107-06-2	1,2-Dichloroethane	50.1		5.0	0.25
71-43-2	Benzene	45.2		5.0	0.25
108-90-7	Chlorobenzene	50.9		5.0	0.66
156-59-2	cis-1,2-Dichloroethene	47.5		5.0	0.64
100-41-4	Ethylbenzene	51.1		5.0	0.35
1634-04-4	Methyl tert-butyl ether	47.9		5.0	0.49
127-18-4	Tetrachloroethene	53.9		5.0	0.67
108-88-3	Toluene	48.7		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	48.5		5.0	0.52
79-01-6	Trichloroethene	48.3		5.0	1.1
1330-20-7	Xylenes, Total	152		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
2037-26-5	Toluene-d8 (Surr)	97		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7032.D
 Lims ID: LCS Client ID:
 Inject. Date: 16-Apr-2013 22:32:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: LCS
 Misc. Info.: 480-0020671-005 =480-0020671-005
 Operator: CDC Instrument ID: HP5973F
 Purge Vol: 5.000 mL ALS Bottle#: 3
 Lims Batch ID: 113252 Lims Sample ID: 5
 Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F-8260 SOIL.m
 Last Update: 16-Apr-2013 22:58:20 Calib Date: 03-Apr-2013 15:49:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973F\20130403-20220.b\F6728.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK022

First Level Reviewer: cwiklinc

Date: 16-Apr-2013 22:58:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	94	377964	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	84	180295	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	96	165179	50.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.310	5.304	0.006	92	61209	48.1	
\$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	92	407228	48.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	122950	49.3	
22 1,1-Dichloroethene	96	3.266	3.254	0.012	97	95831	43.4	
32 Methyl tert-butyl ether	73	3.807	3.801	0.006	91	360243	47.9	
34 trans-1,2-Dichloroethene	96	3.844	3.838	0.006	97	123840	48.5	
39 1,1-Dichloroethane	63	4.178	4.178	0.0	97	218241	48.4	
45 cis-1,2-Dichloroethene	96	4.641	4.628	0.013	80	133657	47.5	
57 Benzene	78	5.334	5.328	0.006	98	461807	45.2	
58 1,2-Dichloroethane	62	5.371	5.365	0.007	81	173070	50.1	
62 Trichloroethene	95	5.857	5.851	0.006	97	125947	48.3	
74 Toluene	92	6.995	6.995	0.0	98	310830	48.7	
81 Tetrachloroethene	166	7.524	7.524	0.0	97	137850	53.9	
87 Chlorobenzene	112	8.413	8.412	0.001	92	350260	50.9	
88 Ethylbenzene	91	8.473	8.473	0.0	97	589439	51.1	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	98	462545	101.1	
91 o-Xylene	106	9.021	9.021	0.0	96	226677	50.8	
107 1,2,4-Trimethylbenzene	105	10.329	10.335	-0.006	97	501672	51.3	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	96	264398	51.3	
S 125 1,2-Dichloroethene, Total	1				0		96.0	
S 124 Xylenes, Total	1				0		151.9	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20130416-20671.b\F7032.D

Injection Date: 16-Apr-2013 22:32:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973F

Lims Batch ID: 113252

Lims Sample ID: 5

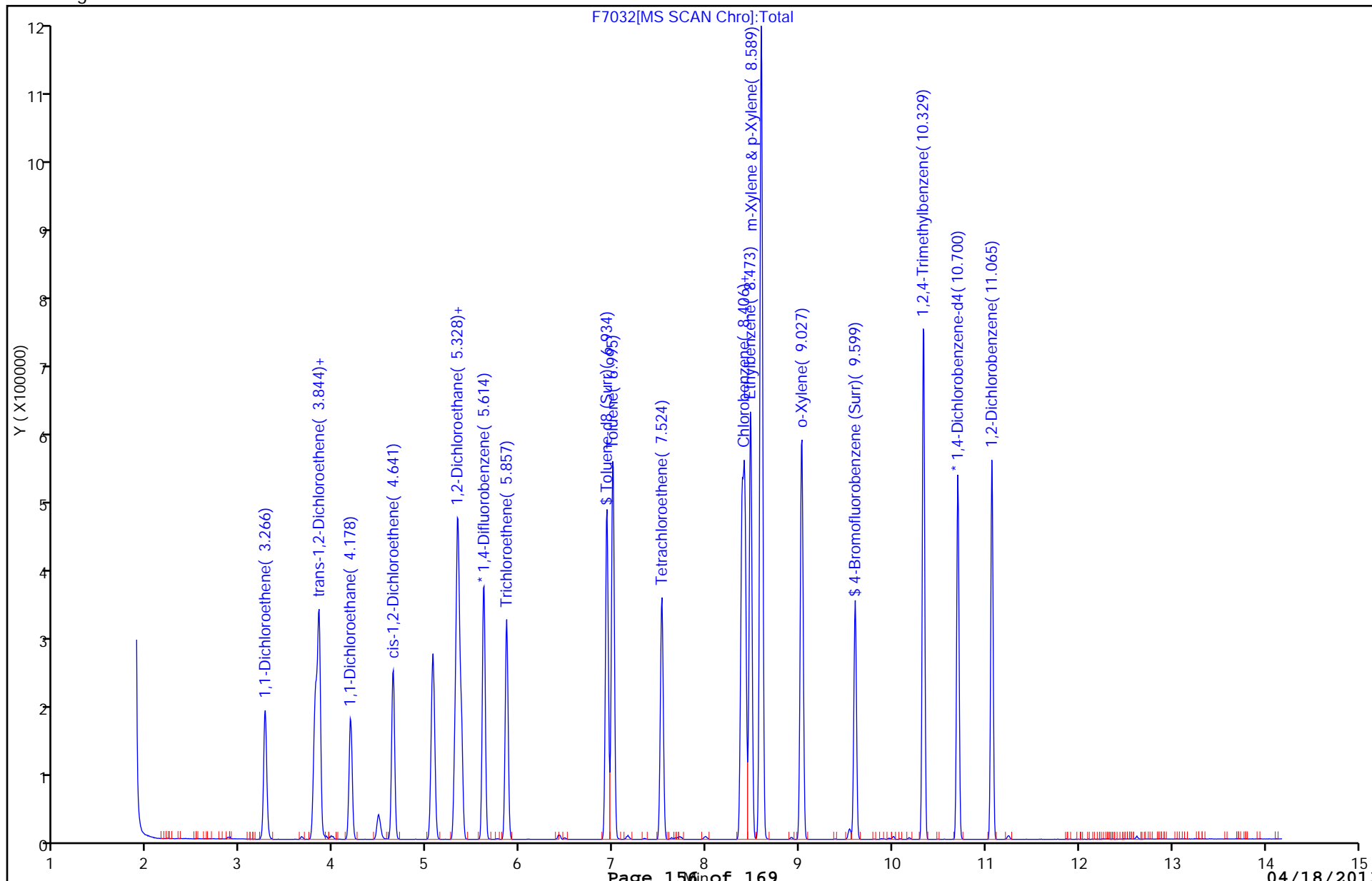
Operator ID: CDC

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1

SDG No.: _____

Instrument ID: HP5973F Start Date: 04/03/2013 12:22Analysis Batch Number: 110659 End Date: 04/03/2013 17:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-110659/2		04/03/2013 12:22	1	F6720.D	ZB-624 (60) 0.25 (mm)
STD1 480-110659/4 IC		04/03/2013 13:16	1	F6722.D	ZB-624 (60) 0.25 (mm)
STD2 480-110659/5 IC		04/03/2013 13:42	1	F6723.D	ZB-624 (60) 0.25 (mm)
STD3 480-110659/6 IC		04/03/2013 14:07	1	F6724.D	ZB-624 (60) 0.25 (mm)
STD4 480-110659/7 IC		04/03/2013 14:33	1	F6725.D	ZB-624 (60) 0.25 (mm)
STD5 480-110659/8 ICIS		04/03/2013 14:58	1	F6726.D	ZB-624 (60) 0.25 (mm)
STD6 480-110659/9 IC		04/03/2013 15:23	1	F6727.D	ZB-624 (60) 0.25 (mm)
STD7 480-110659/10 IC		04/03/2013 15:49	1	F6728.D	ZB-624 (60) 0.25 (mm)
MDLV 480-110659/12		04/03/2013 16:44	1		ZB-624 (60) 0.25 (mm)
ICV 480-110659/13		04/03/2013 17:09	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1

SDG No.: _____

Instrument ID: HP5973F Start Date: 04/16/2013 20:55

Analysis Batch Number: 113252 End Date: 04/17/2013 06:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-113252/2		04/16/2013 20:55	1	F7029.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-113252/3		04/16/2013 21:21	1	F7030.D	ZB-624 (60) 0.25 (mm)
CCV 480-113252/4		04/16/2013 22:07	1	F7031.D	ZB-624 (60) 0.25 (mm)
LCS 480-113252/5		04/16/2013 22:32	1	F7032.D	ZB-624 (60) 0.25 (mm)
MB 480-113252/6		04/16/2013 22:57	1	F7033.D	ZB-624 (60) 0.25 (mm)
480-36412-1	EB-04 36-38	04/16/2013 23:36	1	F7034.D	ZB-624 (60) 0.25 (mm)
480-36412-2	EB-06 30-32	04/17/2013 00:02	1	F7035.D	ZB-624 (60) 0.25 (mm)
480-36412-3	EB-07 30-32	04/17/2013 00:27	1	F7036.D	ZB-624 (60) 0.25 (mm)
480-36412-4	EB-05 30-31	04/17/2013 00:52	1	F7037.D	ZB-624 (60) 0.25 (mm)
480-36412-5	EB-08 34-36	04/17/2013 01:17	1	F7038.D	ZB-624 (60) 0.25 (mm)
480-36412-6	EB-09 38-40	04/17/2013 01:43	1	F7039.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 02:33	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 02:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 03:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 03:50	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 04:16	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 04:41	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 05:06	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 05:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 05:57	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/17/2013 06:22	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1

SDG No.: _____

Batch Number: 113260 Batch Start Date: 04/16/13 21:01 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035 Batch End Date: 04/16/13 22:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
480-36412-B-1	EB-04 36-38	5035, 8260B	T	30.58 g	37.11 g	6.53 g	5 g		
480-36412-A-2	EB-06 30-32	5035, 8260B	T	30.55 g	36.94 g	6.39 g	5 g		
480-36412-A-3	EB-07 30-32	5035, 8260B	T	30.32 g	36.48 g	6.16 g	5 g		
480-36412-A-4	EB-05 30-31	5035, 8260B	T	30.50 g	36.19 g	5.69 g	5 g		
480-36412-A-5	EB-08 34-36	5035, 8260B	T	30.51 g	37.32 g	6.81 g	5 g		
480-36412-A-6	EB-09 38-40	5035, 8260B	T	30.68 g	37.28 g	6.6 g	5 g		

Batch Notes	

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-36412-1

SDG No.: _____

Project: 979-1001 Main St., Buffalo Brownfields

Client Sample ID	Lab Sample ID
<u>EB-04 36-38</u>	<u>480-36412-1</u>
<u>EB-06 30-32</u>	<u>480-36412-2</u>
<u>EB-07 30-32</u>	<u>480-36412-3</u>
<u>EB-05 30-31</u>	<u>480-36412-4</u>
<u>EB-08 34-36</u>	<u>480-36412-5</u>
<u>EB-09 38-40</u>	<u>480-36412-6</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-36412-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-36412-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/16/2013 21:40 End Date: 04/16/2013 21:40

Lab Sample ID	D / F	T y p e	Time	Analytes															
				% S o l	M o i s t														
480-36412-1	1	T	21:40	X	X														
480-36412-2	1	T	21:40	X	X														
480-36412-3	1	T	21:40	X	X														
480-36412-4	1	T	21:40	X	X														
480-36412-5	1	T	21:40	X	X														
480-36412-6	1	T	21:40	X	X														
ZZZZZZ			21:40																

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-36412-1

SDG No.: _____

Batch Number: 113262 Batch Start Date: 04/16/13 21:40 Batch Analyst: Cwiklinski, Charles D

Batch Method: Moisture Batch End Date: 04/17/13 04:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-36412-D-1	EB-04 36-38	Moisture	T	4.45 g	10.95 g	10.08 g			
480-36412-D-2	EB-06 30-32	Moisture	T	4.45 g	10.55 g	9.63 g			
480-36412-D-3	EB-07 30-32	Moisture	T	4.45 g	10.53 g	9.68 g			
480-36412-D-4	EB-05 30-31	Moisture	T	4.45 g	9.81 g	9.35 g			
480-36412-D-5	EB-08 34-36	Moisture	T	4.45 g	10.21 g	9.42 g			
480-36412-D-6	EB-09 38-40	Moisture	T	4.45 g	10.35 g	9.66 g			

Batch Notes	
Batch Comment	pp-bsl-6
Date samples were placed in the oven	04/1/2013
Time samples were place in the oven	22:00
Date samples were removed from oven	04/17/2013
Time Samples were removed from oven	03:45

Basis	Basis Description
T	Total/NA

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

Moisture

Shipping and Receiving Documents

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes No

TestAmei

THE LEADER IN ENVIRONMENT



480-36412 Chain of Custody

Client

C&S Engineers, Inc

Project Manager

Mark Colmerauer

Date

4/16/13

Chain of Custody Number

231831

Address

90 Broadway

Telephone Number (Area Code)/Fax Number

716-847-1630

Page

1

of 1

City

Buffalo NY 14203

Site Contact

Lab Contact

Project Name and Location (State)

MOB

Carrier/Waybill Number

Lab Number

Special Instructions/
Conditions of Receipt

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

ERB-04 36-38
ERB-06 30-32
ERB-07 30-32

Date
4/16/13 7:30

Time

Matrix

Air
Aqueous
Sed.
Soil
Unpres.

Containers & Preservatives

H2SO4
HNO3
HCl
NaOH
ZnAc/
NaOH
MeOH
H2O
8260 VOC

Date

Time

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal

Return To Client Disposal By Lab Archive For _____ Months

QC Requirements (Specify)

(A fee may be assessed if samples are retained longer than 1 month)

Turnaround Time Required

24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By

Code A [Signature]

Date

4/16/13 3:40

1. Received By

[Signature]

Date

4/16/13 1540

2. Relinquished By

[Signature]

Date

4/16/13 1000

2. Received By

[Signature]

Date

4/16/13 1620

3. Relinquished By

[Signature]

Date

[Blank]

3. Received By

[Signature]

Date

[Blank]

Comments

2481

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client

C & S Engineers, Inc

Project Manager

Mark Colmeyer

Date

4/16/13

Chain of Custody Number

231832

Telephone Number (Area Code)/Fax Number

716-847-1635

Lab Number

Page _____ of _____

Site Contact

Lab Contact

Analysis (Attach list if more space is needed)

Carrier/Waybill Number

Matrix

Containers & Preservatives

Special Instructions/
Conditions of Receipt

Address
90 Broadway
City
Buffalo State
NY Zip Code
14203

Contract/Purchase Order/Quote No.

1408

Sample I.D. (No. and Description)
(Containers for each sample may be combined on one line)

Sample I.D. (No. and Description)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Meth	H2O	8260 VOC
EB-05 30-81'	4/16/13	2:30				X	X						X	X	X
EB-08 34-36'															
EB-09 38-40'															

Sample I.D. (No. and Description)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Meth	H2O	8260 VOC
EB-05 30-81'	4/16/13	2:30				X	X						X	X	X
EB-08 34-36'															
EB-09 38-40'															

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal

Return to Client Disposal By Lab Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By

Cody A. [Signature]

Date
4/16/13 Time
3:40

1. Received By

[Signature]

Date
4/16/13 Time
12:10

2. Relinquished By

[Signature]

Date
4/16/13 Time
16:20

2. Received By

[Signature]

Date
4/16/13 Time
16:20

3. Relinquished By

[Signature]

Date
4/16/13 Time
16:20

3. Received By

[Signature]

Date
4/16/13 Time
16:20

Comments

244 B1

Login Sample Receipt Checklist

Client: C&S Engineers, Inc.

Job Number: 480-36412-1

Login Number: 36412

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	c+s
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	