ANALYTICAL REPORT

Job Number: 280-69452-1

Job Description: GSI - McConnell Air Force Base, Kansas

For:
GSI Environmental, Inc
9600 Great Hills Trail, Ste 350E
Austin, TX 78759

Attention: Anna Zabierek

Approved for release.
Elaine M Walker
Project Manager II
6/15/2015 11:12 AM

Elaine M Walker, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0156
elaine.walker@testamericainc.com
06/15/2015

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE
Client: GSI Environmental, Inc
Project: GSI - McConnell Air Force Base, Kansas
Report Number: 280-69452-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Thirteen samples were received on 05/19/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.2°C.

The Chain of Custody lists sample 54403-TB16-0515- (280-69452-1) as a solid; however, the sample is a liquid trip blank.

The Chain of Custody does not list a sample collect date/time for sample 54403-TB16-0515- (280-69452-1). The trip blank sample was logged with a collection date/time of 5/19/15 00:00.

It was noted that the NaHSO4 vials submitted for sample 54400-SB01-0515-0 (280-69452-2) did not contain liquid, and therefore the requested VOC analysis of the Terra Core vials could not be performed. The sample was re-logged for VOC analysis form a soil jar. Volume will be taken from the 4-oz soil jar submitted for percent moisture analysis.

VOC analysis requires zero headspace. The soil jar submitted for sample 54400-SB01-0515-0 (280-69452-2) was opened in order to remove volume for the percent moisture analysis. As such, loss of volatiles may have occurred and the VOC analysis will be biased low.

The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

VOLATILE ORGANIC COMPOUNDS (GC/MS) - WATER

Sample 54403-TB16-0515- (280-69452-1) was analyzed for volatile organic compounds (GC/MS) in accordance with 8260B. The sample was analyzed on 05/29/2015.

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

VOLATILE ORGANIC COMPOUNDS (GC/MS) - LL SOIL JAR

Sample 54400-SB01-0515-0 (280-69452-2) was analyzed for volatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8260B. The sample was analyzed on 05/21/2015.

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

VOLATILE ORGANIC COMPOUNDS (GC/MS) - LL TERRA CORE SOIL

Samples 54400-SB01-0515-5 (280-69452-3), 54400-SB01-0515-12.5 (280-69452-4), 54400-SB01-0515-15 (280-69452-5), 54400-SB02-0515-0 (280-69452-6), 54400-SB02-0515-2.5 (280-69452-7), 54400-SB02-0515-10 (280-69452-8), 54400-SB02-0515-15 (280-69452-9), 54400-SB03-0515-0 (280-69452-10), 54400-SB03-0515-5 (280-69452-11), 54400-SB03-0515-10 (280-69452-12) and 54400-SB03-0515-15 (280-69452-13) were analyzed for volatile organic compounds (GC/MS) in accordance with 8260B. The samples were prepared on 05/18/2015 and analyzed on 05/19/2015.

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

PERCENT SOLIDS

Samples 54400-SB01-0515-0 (280-69452-2), 54400-SB01-0515-5 (280-69452-3), 54400-SB01-0515-12.5 (280-69452-4), 54400-SB01-0515-15 (280-69452-5), 54400-SB02-0515-0 (280-69452-6), 54400-SB02-0515-2.5 (280-69452-7), 54400-SB02-0515-10 (280-69452-8), 54400-SB02-0515-15 (280-69452-9), 54400-SB03-0515-0 (280-69452-10), 54400-SB03-0515-5 (280-69452-11), 54400-SB03-0515-10 (280-69452-12) and 54400-SB03-0515-15 (280-69452-13) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 05/20/2015.

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_H Analysis Batch Number: 279265

Lab Sample ID: IC 280-279265/9 Client Sample ID:

Date Analyzed: 05/28/15 00:18 Lab File ID: H2949.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.08	Assign Peak	moanm	06/02/15 08:03
1,2,3-Trichlorobenzene	16.53	Assign Peak	moanm	06/02/15 08:03

Lab Sample ID: IC 280-279265/10 Client Sample ID:

Date Analyzed: 05/28/15 00:40 Lab File ID: H2950.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.25	Baseline	wickhamt	05/28/15 06:21
1,2,4-Trichlorobenzene	16.08	Assign Peak	moanm	06/02/15 08:03
1,2,3-Trichlorobenzene	16.53	Assign Peak	moanm	06/02/15 08:03

Lab Sample ID: IC 280-279265/11 Client Sample ID:

Date Analyzed: 05/28/15 01:03 Lab File ID: H2951.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.25	Shouldering	wickhamt	05/28/15 06:22
1,2,4-Trichlorobenzene	16.07	Assign Peak	moanm	06/02/15 08:04
1,2,3-Trichlorobenzene	16.52	Assign Peak	moanm	06/02/15 08:04

Lab Sample ID: IC 280-279265/12 Client Sample ID:

Date Analyzed: 05/28/15 01:25 Lab File ID: H2952.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.09	Assign Peak	moanm	06/02/15 08:04
1,2,3-Trichlorobenzene	16.54	Assign Peak	moanm	06/02/15 08:04

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_H Analysis Batch Number: 279265

Lab Sample ID: IC 280-279265/13 Client Sample ID:

Date Analyzed: 05/28/15 01:48 Lab File ID: H2953.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.07	Assign Peak	moanm	06/02/15 08:04
1,2,3-Trichlorobenzene	16.53	Assign Peak	moanm	06/02/15 08:04

Lab Sample ID: IC 280-279265/14 Client Sample ID:

Date Analyzed: 05/28/15 02:10 Lab File ID: H2954.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.09	Assign Peak	moanm	06/02/15 08:04
1,2,3-Trichlorobenzene	16.54	Assign Peak	moanm	06/02/15 08:04

Lab Sample ID: IC 280-279265/15 Client Sample ID:

Date Analyzed: 05/28/15 02:33 Lab File ID: H2955.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.08	Assign Peak	moanm	06/02/15 08:05
1,2,3-Trichlorobenzene	16.53	Assign Peak	moanm	06/02/15 08:05

Lab Sample ID: IC 280-279265/16 Client Sample ID:

Date Analyzed: 05/28/15 03:18 Lab File ID: H2957.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.80	Split Peak	wickhamt	05/28/15 06:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_H Analysis Batch Number: 279265

Lab Sample ID: IC 280-279265/17 Client Sample ID:

Date Analyzed: 05/28/15 03:40 Lab File ID: H2958.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.17	Shouldering	wickhamt	05/28/15 06:52
Acetonitrile	3.85	Split Peak	wickhamt	05/28/15 06:50

Lab Sample ID: IC 280-279265/18 Client Sample ID:

Date Analyzed: 05/28/15 04:03 Lab File ID: H2959.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.19	Shouldering	wickhamt	05/28/15 06:52

Lab Sample ID: IC 280-279265/20 Client Sample ID:

Date Analyzed: 05/28/15 04:48 Lab File ID: H2961.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	3.63	Assign Peak	wickhamt	05/28/15 06:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_H Analysis Batch Number: 279635

Lab Sample ID: CCV 280-279635/2 Client Sample ID:

Date Analyzed: 05/29/15 21:00 Lab File ID: H3062.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.09	Assign Peak	bergerb	06/02/15 16:41
1,2,3-Trichlorobenzene	16.53	Assign Peak	bergerb	06/02/15 16:41

Lab Sample ID: LCS 280-279635/4 Client Sample ID:

Date Analyzed: 05/29/15 21:45 Lab File ID: H3064.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.09	Assign Peak	bergerb	06/02/15 16:42
1,2,3-Trichlorobenzene	16.54	Assign Peak	bergerb	06/02/15 16:42

Lab Sample ID: CCVC 280-279635/56 Client Sample ID:

Date Analyzed: 05/30/15 07:07 Lab File ID: H3089.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	16.08	Assign Peak	bergerb	06/02/15 16:41
1,2,3-Trichlorobenzene	16.53	Assign Peak	bergerb	06/02/15 16:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Analysis Batch Number: 278046

Lab Sample ID: STD001 280-278046/4 IC Client Sample ID:

Date Analyzed: 05/18/15 17:50 Lab File ID: J6811.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	10.06	Other	dukesa	05/18/15 20:42
m-Xylene & p-Xylene	10.15	Other	dukesa	05/18/15 20:42

Lab Sample ID: STD002 280-278046/5 IC Client Sample ID:

Date Analyzed: 05/18/15 18:10 Lab File ID: J6812.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.25	Assign Peak	dukesa	05/18/15 18:44
1,1,2-Trichloroethane	9.23	Assign Peak	dukesa	05/18/15 18:44
1,3-Dichloropropane	9.37	Assign Peak	dukesa	05/18/15 18:44
Ethylbenzene	10.06	Other	dukesa	05/18/15 20:42
Bromobenzene	11.07	Assign Peak	dukesa	05/18/15 18:44

Lab Sample ID: STD005 280-278046/6 IC Client Sample ID:

Date Analyzed: 05/18/15 18:30 Lab File ID: J6813.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene	10.13	Other	dukesa	05/18/15 20:45

Lab Sample ID: STD010 280-278046/7 IC Client Sample ID:

Date Analyzed: 05/18/15 18:50 Lab File ID: J6814.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	10.06	Other	dukesa	05/18/15 20:43
m-Xylene & p-Xylene	10.13	Other	dukesa	05/18/15 20:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Analysis Batch Number: 278046

Lab Sample ID: ICIS 280-278046/9 Client Sample ID:

Date Analyzed: 05/18/15 19:30 Lab File ID: J6816.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	10.06	Other	dukesa	05/18/15 20:41
m-Xylene & p-Xylene	10.15	Other	dukesa	05/18/15 20:41

Lab Sample ID: STD100 280-278046/10 IC Client Sample ID:

Date Analyzed: 05/18/15 19:51 Lab File ID: J6817.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
m-Xylene & p-Xylene	10.14	Other	dukesa	05/18/15 20:44

Lab Sample ID: STD200 280-278046/11 IC Client Sample ID:

Date Analyzed: 05/18/15 20:11 Lab File ID: J6818.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylbenzene	10.06	Other	dukesa	05/18/15 20:44
m-Xylene & p-Xylene	10.15	Other	dukesa	05/18/15 20:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Analysis Batch Number: 278246

Lab Sample ID: CCV 280-278246/2 Client Sample ID:

Date Analyzed: 05/19/15 17:30 Lab File ID: J6847.D GC Column: DB-624 (75.53 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	11.02	Assign Peak	dukesa	05/19/15 18:06

SAMPLE SUMMARY

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-69452-1TB	54403-TB16-0515-	Water	05/18/2015 0000	05/19/2015 0720
280-69452-2	54400-SB01-0515-0	Solid	05/18/2015 1548	05/19/2015 0720
280-69452-3	54400-SB01-0515-5	Solid	05/18/2015 1551	05/19/2015 0720
280-69452-4	54400-SB01-0515-12.5	Solid	05/18/2015 1555	05/19/2015 0720
280-69452-5	54400-SB01-0515-15	Solid	05/18/2015 1558	05/19/2015 0720
280-69452-6	54400-SB02-0515-0	Solid	05/18/2015 1632	05/19/2015 0720
280-69452-7	54400-SB02-0515-2.5	Solid	05/18/2015 1638	05/19/2015 0720
280-69452-8	54400-SB02-0515-10	Solid	05/18/2015 1654	05/19/2015 0720
280-69452-9	54400-SB02-0515-15	Solid	05/18/2015 1700	05/19/2015 0720
280-69452-10	54400-SB03-0515-0	Solid	05/18/2015 1738	05/19/2015 0720
280-69452-11	54400-SB03-0515-5	Solid	05/18/2015 1743	05/19/2015 0720
280-69452-12	54400-SB03-0515-10	Solid	05/18/2015 1748	05/19/2015 0720
280-69452-13	54400-SB03-0515-15	Solid	05/18/2015 1751	05/19/2015 0720

EXECUTIVE SUMMARY - Detections

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-69452-2	**54400-SB01-0515-0**					
Percent Moisture		21		0.10	%	D 2216
280-69452-3	**54400-SB01-0515-5**					
Percent Moisture		18		0.10	%	D 2216
280-69452-4	**54400-SB01-0515-12.5**					
Percent Moisture		18		0.10	%	D 2216
280-69452-5	**54400-SB01-0515-15**					
Percent Moisture		19		0.10	%	D 2216
280-69452-6	**54400-SB02-0515-0**					
Percent Moisture		20		0.10	%	D 2216
280-69452-7	**54400-SB02-0515-2.5**					
Percent Moisture		18		0.10	%	D 2216
280-69452-8	**54400-SB02-0515-10**					
Percent Moisture		23		0.10	%	D 2216
280-69452-9	**54400-SB02-0515-15**					
Ethylbenzene		0.77	J	5.6	ug/Kg	8260B
Toluene		1.2	J	5.6	ug/Kg	8260B
Percent Moisture		19		0.10	%	D 2216
280-69452-10	**54400-SB03-0515-0**					
Percent Moisture		19		0.10	%	D 2216
280-69452-11	**54400-SB03-0515-5**					
Percent Moisture		21		0.10	%	D 2216
280-69452-12	**54400-SB03-0515-10**					
Percent Moisture		18		0.10	%	D 2216

EXECUTIVE SUMMARY - Detections

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-69452-13	**54400-SB03-0515-15**					
Benzene		0.49	J	5.2	ug/Kg	8260B
Ethylbenzene		0.85	J	5.2	ug/Kg	8260B
Toluene		1.2	J	5.2	ug/Kg	8260B
Percent Moisture		20		0.10	%	D 2216

METHOD SUMMARY

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Closed System Purge and Trap	TAL DEN		SW846 5035
Percent Moisture	TAL DEN	ASTM D 2216	
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

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

METHOD / ANALYST SUMMARY

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method	Analyst	Analyst ID
SW846 8260B	Berger, Brent B	BBB
SW846 8260B	Dukes, Aaron D	ADD
ASTM D 2216	Fameree, Anthony J	AJF

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54403-TB16-0515-**

Lab Sample ID: 280-69452-1TB

Client Matrix: Water

Date Sampled: 05/18/2015 0000

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-279635	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H3067.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	05/29/2015 2253			Final Weight/Volume:	20 mL
Prep Date:	05/29/2015 2253				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.80	U	0.17	1.0
1,1,1-Trichloroethane	0.40	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.80	U	0.20	1.0
1,1,2-Trichloroethane	0.80	U	0.32	1.0
1,1-Dichloroethane	0.80	U	0.16	1.0
1,1-Dichloroethene	0.80	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.80	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.40	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dibromoethane	0.40	U	0.18	1.0
1,2-Dichlorobenzene	0.40	U	0.13	1.0
1,2-Dichloroethane	0.40	U	0.13	1.0
1,2-Dichloropropane	0.40	U	0.13	1.0
1,3,5-Trimethylbenzene	0.40	U	0.14	1.0
1,3-Dichlorobenzene	0.40	U	0.16	1.0
1,3-Dichloropropane	0.80	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	4.0	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	4.0	U	1.4	5.0
4-Chlorotoluene	0.80	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.40	U	0.16	1.0
Bromobenzene	0.40	U	0.17	1.0
Bromochloromethane	0.20	U	0.10	1.0
Bromodichloromethane	0.40	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.80	U	0.21	2.0
Carbon disulfide	1.6	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.40	U	0.17	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.40	U	0.16	1.0
Chloromethane	0.80	U	0.30	2.0
cis-1,2-Dichloroethene	0.40	U	0.15	1.0
cis-1,3-Dichloropropene	0.40	U	0.16	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.40	U	0.16	1.0
Hexachlorobutadiene	0.80	U	0.36	1.0

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54403-TB16-0515-**

Lab Sample ID: 280-69452-1TB

Client Matrix: Water

Date Sampled: 05/18/2015 0000

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-279635	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H3067.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	05/29/2015 2253			Final Weight/Volume:	20 mL
Prep Date:	05/29/2015 2253				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Isopropylbenzene	0.40	U	0.19	1.0
Methyl tert-butyl ether	0.80	U	0.25	5.0
Methylene Chloride	0.80	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.80	U	0.32	1.0
N-Propylbenzene	0.40	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
p-Isopropyltoluene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butyl alcohol	32	U	11	50
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.40	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.40	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.20	U	0.10	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		81 - 118
4-Bromofluorobenzene (Surr)	101		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB01-0515-0**

Lab Sample ID: 280-69452-2
Client Matrix: Solid
% Moisture: 20.6

Date Sampled: 05/18/2015 1548
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278648	Instrument ID:	VMS_J
Prep Method:	5030B	Prep Batch:	280-278666	Lab File ID:	J6917.D
Dilution:	1.0			Initial Weight/Volume:	4.130 g
Analysis Date:	05/21/2015 1901			Final Weight/Volume:	5 mL
Prep Date:	05/21/2015 1700				

Analyte DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	2.4	U	0.85	7.6
1,1,1-Trichloroethane	2.4	U	0.79	7.6
1,1,2,2-Tetrachloroethane	2.4	U	0.93	7.6
1,1,2-Trichloroethane	4.9	U	1.3	7.6
1,1-Dichloroethane	1.2	U	0.32	7.6
1,1-Dichloroethene	2.4	U	0.90	7.6
1,1-Dichloropropene	2.4	U	0.82	7.6
1,2,3-Trichlorobenzene	2.4	U	1.1	7.6
1,2,3-Trichloropropane	4.9	U	1.2	7.6
1,2,4-Trichlorobenzene	2.4	U	1.1	7.6
1,2,4-Trimethylbenzene	2.4	U	0.88	7.6
1,2-Dibromo-3-Chloropropane	2.4	U	0.92	15
1,2-Dichlorobenzene	2.4	U	0.69	7.6
1,2-Dichloroethane	2.4	U	1.1	7.6
1,2-Dichloropropane	2.4	U	0.84	7.6
1,3,5-Trimethylbenzene	2.4	U	0.87	7.6
1,3-Dichlorobenzene	2.4	U	0.73	7.6
1,3-Dichloropropane	2.4	U	0.78	7.6
1,4-Dichlorobenzene	2.4	U	1.2	7.6
2,2-Dichloropropane	2.4	U	0.67	7.6
2-Butanone (MEK)	9.8	U	2.8	31
2-Chlorotoluene	2.4	U	0.78	7.6
2-Hexanone	20	U	7.5	31
4-Chlorotoluene	2.4	U	1.2	7.6
4-Isopropyltoluene	2.4	U	0.75	7.6
4-Methyl-2-pentanone (MIBK)	20	U	6.6	31
Acetone	20	U	8.2	31
Benzene	2.4	U	0.72	7.6
Bromobenzene	2.4	U	0.75	7.6
Bromochloromethane	1.2	U	0.46	7.6
Bromodichloromethane	1.2	U	0.34	7.6
Bromoform	1.2	U	0.35	7.6
Bromomethane	2.4	U	0.76	15
Carbon disulfide	2.4	U	0.64	7.6
Carbon tetrachloride	2.4	U	0.96	7.6
Chlorobenzene	2.4	U	0.82	7.6
Chloroethane	4.9	U	1.4	15
Chloroform	1.2	U	0.44	15
Chloromethane	2.4	U	1.2	15
cis-1,2-Dichloroethene	2.4	U	0.85	7.6
cis-1,3-Dichloropropene	4.9	U	2.0	7.6
Dibromochloromethane	2.4	U	0.87	7.6
Dibromomethane	4.9	U	1.3	7.6
Dichlorodifluoromethane	2.4	U	0.79	15
Ethylbenzene	2.4	U	1.0	7.6
Ethylene Dibromide	2.4	U	0.79	7.6

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB01-0515-0

Lab Sample ID: 280-69452-2
Client Matrix: Solid
% Moisture: 20.6

Date Sampled: 05/18/2015 1548
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278648	Instrument ID:	VMS_J
Prep Method:	5030B	Prep Batch:	280-278666	Lab File ID:	J6917.D
Dilution:	1.0			Initial Weight/Volume:	4.130 g
Analysis Date:	05/21/2015 1901			Final Weight/Volume:	5 mL
Prep Date:	05/21/2015 1700				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Hexachlorobutadiene		2.4	U	0.84	7.6
Isopropylbenzene		2.4	U	0.90	7.6
Methyl tert-butyl ether		1.2	U	0.52	31
Methylene Chloride		4.9	U	2.4	7.6
m-Xylene & p-Xylene		4.9	U	1.6	4.9
Naphthalene		2.4	U	0.96	7.6
n-Butylbenzene		2.4	U	0.85	7.6
N-Propylbenzene		2.4	U	0.88	7.6
o-Xylene		2.4	U	0.93	7.6
sec-Butylbenzene		2.4	U	1.2	7.6
Styrene		2.4	U	0.96	7.6
tert-Butyl alcohol		49	U	20	310
tert-Butylbenzene		2.4	U	0.76	7.6
Tetrachloroethene		2.4	U	0.90	7.6
Toluene		2.4	U	1.1	7.6
trans-1,2-Dichloroethene		1.2	U	0.59	7.6
trans-1,3-Dichloropropene		2.4	U	1.0	7.6
Trichloroethene		1.2	U	0.35	7.6
Trichlorofluoromethane		4.9	U	1.6	15
Vinyl chloride		4.9	U	2.0	7.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		71 - 136
4-Bromofluorobenzene (Surr)	97		79 - 119
Dibromofluoromethane (Surr)	98		78 - 119
Toluene-d8 (Surr)	97		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB01-0515-5**

Lab Sample ID: 280-69452-3
Client Matrix: Solid
% Moisture: 18.0

Date Sampled: 05/18/2015 1551
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6854.D
Dilution:	1.0			Initial Weight/Volume:	4.771 g
Analysis Date:	05/19/2015 1951			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		2.0	U	0.72	6.4
1,1,1-Trichloroethane		2.0	U	0.66	6.4
1,1,2,2-Tetrachloroethane		2.0	U	0.78	6.4
1,1,2-Trichloroethane		4.1	U	1.1	6.4
1,1-Dichloroethane		1.0	U	0.27	6.4
1,1-Dichloroethene		2.0	U	0.75	6.4
1,1-Dichloropropene		2.0	U	0.69	6.4
1,2,3-Trichlorobenzene		2.0	U	0.96	6.4
1,2,3-Trichloropropane		4.1	U	1.0	6.4
1,2,4-Trichlorobenzene		2.0	U	0.93	6.4
1,2,4-Trimethylbenzene		2.0	U	0.74	6.4
1,2-Dibromo-3-Chloropropane		2.0	U	0.77	13
1,2-Dibromoethane		2.0	U	0.66	6.4
1,2-Dichlorobenzene		2.0	U	0.58	6.4
1,2-Dichloroethane		2.0	U	0.89	6.4
1,2-Dichloropropane		2.0	U	0.70	6.4
1,3,5-Trimethylbenzene		2.0	U	0.73	6.4
1,3-Dichlorobenzene		2.0	U	0.61	6.4
1,3-Dichloropropane		2.0	U	0.65	6.4
1,4-Dichlorobenzene		2.0	U	1.0	6.4
2,2-Dichloropropane		2.0	U	0.56	6.4
2-Butanone (MEK)		8.2	U	2.3	26
2-Chlorotoluene		2.0	U	0.65	6.4
2-Hexanone		16	U	6.2	26
4-Chlorotoluene		2.0	U	1.0	6.4
4-Methyl-2-pentanone (MIBK)		16	U	5.6	26
Acetone		16	U	6.9	26
Benzene		2.0	U	0.60	6.4
Bromobenzene		2.0	U	0.63	6.4
Bromochloromethane		1.0	U	0.38	6.4
Bromodichloromethane		1.0	U	0.28	6.4
Bromoform		1.0	U	0.29	6.4
Bromomethane		2.0	U	0.64	13
Carbon disulfide		2.0	U	0.54	6.4
Carbon tetrachloride		2.0	U	0.81	6.4
Chlorobenzene		2.0	U	0.69	6.4
Chlorodibromomethane		2.0	U	0.73	6.4
Chloroethane		4.1	U	1.1	13
Chloroform		1.0	U	0.37	13
Chloromethane		2.0	U	0.98	13
cis-1,2-Dichloroethene		2.0	U	0.72	6.4
cis-1,3-Dichloropropene		4.1	U	1.6	6.4
Dibromomethane		4.1	U	1.1	6.4
Dichlorodifluoromethane		2.0	U	0.66	13
Ethylbenzene		2.0	U	0.86	6.4
Hexachlorobutadiene		2.0	U	0.70	6.4

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB01-0515-5**

Lab Sample ID: 280-69452-3

Client Matrix: Solid

% Moisture: 18.0

Date Sampled: 05/18/2015 1551

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6854.D
Dilution:	1.0			Initial Weight/Volume:	4.771 g
Analysis Date:	05/19/2015 1951			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1551				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		2.0	U	0.75	6.4
Methyl tert-butyl ether		1.0	U	0.43	26
Methylene Chloride		4.1	U	2.0	6.4
m-Xylene & p-Xylene		4.1	U	1.3	4.1
Naphthalene		2.0	U	0.81	6.4
n-Butylbenzene		2.0	U	0.72	6.4
N-Propylbenzene		2.0	U	0.74	6.4
o-Xylene		2.0	U	0.78	6.4
p-Isopropyltoluene		2.0	U	0.63	6.4
sec-Butylbenzene		2.0	U	0.98	6.4
Styrene		2.0	U	0.81	6.4
tert-Butyl alcohol		41	U	16	260
tert-Butylbenzene		2.0	U	0.64	6.4
Tetrachloroethene		2.0	U	0.75	6.4
Toluene		2.0	U	0.88	6.4
trans-1,2-Dichloroethene		1.0	U	0.50	6.4
trans-1,3-Dichloropropene		2.0	U	0.86	6.4
Trichloroethene		1.0	U	0.29	6.4
Trichlorofluoromethane		4.1	U	1.3	13
Vinyl chloride		4.1	U	1.7	6.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		71 - 136
4-Bromofluorobenzene (Surr)	95		79 - 119
Dibromofluoromethane (Surr)	101		78 - 119
Toluene-d8 (Surr)	98		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB01-0515-12.5**

Lab Sample ID: 280-69452-4
Client Matrix: Solid
% Moisture: 17.9

Date Sampled: 05/18/2015 1555
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6855.D
Dilution:	1.0			Initial Weight/Volume:	4.36 g
Analysis Date:	05/19/2015 2011			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1555				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		2.2	U	0.78	7.0
1,1,1-Trichloroethane		2.2	U	0.73	7.0
1,1,2,2-Tetrachloroethane		2.2	U	0.85	7.0
1,1,2-Trichloroethane		4.5	U	1.2	7.0
1,1-Dichloroethane		1.1	U	0.29	7.0
1,1-Dichloroethene		2.2	U	0.82	7.0
1,1-Dichloropropene		2.2	U	0.75	7.0
1,2,3-Trichlorobenzene		2.2	U	1.0	7.0
1,2,3-Trichloropropane		4.5	U	1.1	7.0
1,2,4-Trichlorobenzene		2.2	U	1.0	7.0
1,2,4-Trimethylbenzene		2.2	U	0.81	7.0
1,2-Dibromo-3-Chloropropane		2.2	U	0.84	14
1,2-Dibromoethane		2.2	U	0.73	7.0
1,2-Dichlorobenzene		2.2	U	0.63	7.0
1,2-Dichloroethane		2.2	U	0.98	7.0
1,2-Dichloropropane		2.2	U	0.77	7.0
1,3,5-Trimethylbenzene		2.2	U	0.80	7.0
1,3-Dichlorobenzene		2.2	U	0.67	7.0
1,3-Dichloropropane		2.2	U	0.71	7.0
1,4-Dichlorobenzene		2.2	U	1.1	7.0
2,2-Dichloropropane		2.2	U	0.61	7.0
2-Butanone (MEK)		8.9	U	2.6	28
2-Chlorotoluene		2.2	U	0.71	7.0
2-Hexanone		18	U	6.8	28
4-Chlorotoluene		2.2	U	1.1	7.0
4-Methyl-2-pentanone (MIBK)		18	U	6.1	28
Acetone		18	U	7.5	28
Benzene		2.2	U	0.66	7.0
Bromobenzene		2.2	U	0.68	7.0
Bromochloromethane		1.1	U	0.42	7.0
Bromodichloromethane		1.1	U	0.31	7.0
Bromoform		1.1	U	0.32	7.0
Bromomethane		2.2	U	0.70	14
Carbon disulfide		2.2	U	0.59	7.0
Carbon tetrachloride		2.2	U	0.88	7.0
Chlorobenzene		2.2	U	0.75	7.0
Chlorodibromomethane		2.2	U	0.80	7.0
Chloroethane		4.5	U	1.2	14
Chloroform		1.1	U	0.41	14
Chloromethane		2.2	U	1.1	14
cis-1,2-Dichloroethene		2.2	U	0.78	7.0
cis-1,3-Dichloropropene		4.5	U	1.8	7.0
Dibromomethane		4.5	U	1.2	7.0
Dichlorodifluoromethane		2.2	U	0.73	14
Ethylbenzene		2.2	U	0.94	7.0
Hexachlorobutadiene		2.2	U	0.77	7.0

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB01-0515-12.5**

Lab Sample ID: 280-69452-4

Client Matrix: Solid

% Moisture: 17.9

Date Sampled: 05/18/2015 1555

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6855.D
Dilution:	1.0			Initial Weight/Volume:	4.36 g
Analysis Date:	05/19/2015 2011			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1555				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		2.2	U	0.82	7.0
Methyl tert-butyl ether		1.1	U	0.47	28
Methylene Chloride		4.5	U	2.2	7.0
m-Xylene & p-Xylene		4.5	U	1.5	4.5
Naphthalene		2.2	U	0.88	7.0
n-Butylbenzene		2.2	U	0.78	7.0
N-Propylbenzene		2.2	U	0.81	7.0
o-Xylene		2.2	U	0.85	7.0
p-Isopropyltoluene		2.2	U	0.68	7.0
sec-Butylbenzene		2.2	U	1.1	7.0
Styrene		2.2	U	0.88	7.0
tert-Butyl alcohol		45	U	18	280
tert-Butylbenzene		2.2	U	0.70	7.0
Tetrachloroethene		2.2	U	0.82	7.0
Toluene		2.2	U	0.96	7.0
trans-1,2-Dichloroethene		1.1	U	0.54	7.0
trans-1,3-Dichloropropene		2.2	U	0.94	7.0
Trichloroethene		1.1	U	0.32	7.0
Trichlorofluoromethane		4.5	U	1.5	14
Vinyl chloride		4.5	U	1.9	7.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		71 - 136
4-Bromofluorobenzene (Surr)	96		79 - 119
Dibromofluoromethane (Surr)	103		78 - 119
Toluene-d8 (Surr)	98		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB01-0515-15

Lab Sample ID: 280-69452-5
Client Matrix: Solid
% Moisture: 18.5

Date Sampled: 05/18/2015 1558
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6856.D
Dilution:	1.0			Initial Weight/Volume:	5.854 g
Analysis Date:	05/19/2015 2031			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1558				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.7	U	0.59	5.2
1,1,1-Trichloroethane		1.7	U	0.55	5.2
1,1,2,2-Tetrachloroethane		1.7	U	0.64	5.2
1,1,2-Trichloroethane		3.4	U	0.92	5.2
1,1-Dichloroethane		0.84	U	0.22	5.2
1,1-Dichloroethene		1.7	U	0.62	5.2
1,1-Dichloropropene		1.7	U	0.57	5.2
1,2,3-Trichlorobenzene		1.7	U	0.79	5.2
1,2,3-Trichloropropane		3.4	U	0.85	5.2
1,2,4-Trichlorobenzene		1.7	U	0.77	5.2
1,2,4-Trimethylbenzene		1.7	U	0.61	5.2
1,2-Dibromo-3-Chloropropane		1.7	U	0.63	10
1,2-Dibromoethane		1.7	U	0.55	5.2
1,2-Dichlorobenzene		1.7	U	0.47	5.2
1,2-Dichloroethane		1.7	U	0.73	5.2
1,2-Dichloropropane		1.7	U	0.58	5.2
1,3,5-Trimethylbenzene		1.7	U	0.60	5.2
1,3-Dichlorobenzene		1.7	U	0.50	5.2
1,3-Dichloropropane		1.7	U	0.53	5.2
1,4-Dichlorobenzene		1.7	U	0.82	5.2
2,2-Dichloropropane		1.7	U	0.46	5.2
2-Butanone (MEK)		6.7	U	1.9	21
2-Chlorotoluene		1.7	U	0.53	5.2
2-Hexanone		13	U	5.1	21
4-Chlorotoluene		1.7	U	0.82	5.2
4-Methyl-2-pentanone (MIBK)		13	U	4.6	21
Acetone		13	U	5.6	21
Benzene		1.7	U	0.49	5.2
Bromobenzene		1.7	U	0.51	5.2
Bromochloromethane		0.84	U	0.31	5.2
Bromodichloromethane		0.84	U	0.23	5.2
Bromoform		0.84	U	0.24	5.2
Bromomethane		1.7	U	0.52	10
Carbon disulfide		1.7	U	0.44	5.2
Carbon tetrachloride		1.7	U	0.66	5.2
Chlorobenzene		1.7	U	0.57	5.2
Chlorodibromomethane		1.7	U	0.60	5.2
Chloroethane		3.4	U	0.93	10
Chloroform		0.84	U	0.30	10
Chloromethane		1.7	U	0.81	10
cis-1,2-Dichloroethene		1.7	U	0.59	5.2
cis-1,3-Dichloropropene		3.4	U	1.4	5.2
Dibromomethane		3.4	U	0.88	5.2
Dichlorodifluoromethane		1.7	U	0.55	10
Ethylbenzene		1.7	U	0.70	5.2
Hexachlorobutadiene		1.7	U	0.58	5.2

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB01-0515-15**

Lab Sample ID: 280-69452-5

Client Matrix: Solid

% Moisture: 18.5

Date Sampled: 05/18/2015 1558

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6856.D
Dilution:	1.0			Initial Weight/Volume:	5.854 g
Analysis Date:	05/19/2015 2031			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1558				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.7	U	0.62	5.2
Methyl tert-butyl ether		0.84	U	0.36	21
Methylene Chloride		3.4	U	1.7	5.2
m-Xylene & p-Xylene		3.4	U	1.1	3.4
Naphthalene		1.7	U	0.66	5.2
n-Butylbenzene		1.7	U	0.59	5.2
N-Propylbenzene		1.7	U	0.61	5.2
o-Xylene		1.7	U	0.64	5.2
p-Isopropyltoluene		1.7	U	0.51	5.2
sec-Butylbenzene		1.7	U	0.81	5.2
Styrene		1.7	U	0.66	5.2
tert-Butyl alcohol		34	U	14	210
tert-Butylbenzene		1.7	U	0.52	5.2
Tetrachloroethene		1.7	U	0.62	5.2
Toluene		1.7	U	0.72	5.2
trans-1,2-Dichloroethene		0.84	U	0.41	5.2
trans-1,3-Dichloropropene		1.7	U	0.70	5.2
Trichloroethene		0.84	U	0.24	5.2
Trichlorofluoromethane		3.4	U	1.1	10
Vinyl chloride		3.4	U	1.4	5.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		71 - 136
4-Bromofluorobenzene (Surr)	97		79 - 119
Dibromofluoromethane (Surr)	104		78 - 119
Toluene-d8 (Surr)	100		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB02-0515-0

Lab Sample ID: 280-69452-6
Client Matrix: Solid
% Moisture: 19.9

Date Sampled: 05/18/2015 1632
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6857.D
Dilution:	1.0			Initial Weight/Volume:	5.432 g
Analysis Date:	05/19/2015 2051			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1632				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.8	U	0.64	5.7
1,1,1-Trichloroethane		1.8	U	0.60	5.7
1,1,2,2-Tetrachloroethane		1.8	U	0.70	5.7
1,1,2-Trichloroethane		3.7	U	1.0	5.7
1,1-Dichloroethane		0.92	U	0.24	5.7
1,1-Dichloroethene		1.8	U	0.68	5.7
1,1-Dichloropropene		1.8	U	0.62	5.7
1,2,3-Trichlorobenzene		1.8	U	0.86	5.7
1,2,3-Trichloropropane		3.7	U	0.93	5.7
1,2,4-Trichlorobenzene		1.8	U	0.84	5.7
1,2,4-Trimethylbenzene		1.8	U	0.67	5.7
1,2-Dibromo-3-Chloropropane		1.8	U	0.69	11
1,2-Dibromoethane		1.8	U	0.60	5.7
1,2-Dichlorobenzene		1.8	U	0.52	5.7
1,2-Dichloroethane		1.8	U	0.80	5.7
1,2-Dichloropropane		1.8	U	0.63	5.7
1,3,5-Trimethylbenzene		1.8	U	0.66	5.7
1,3-Dichlorobenzene		1.8	U	0.55	5.7
1,3-Dichloropropane		1.8	U	0.59	5.7
1,4-Dichlorobenzene		1.8	U	0.90	5.7
2,2-Dichloropropane		1.8	U	0.51	5.7
2-Butanone (MEK)		7.4	U	2.1	23
2-Chlorotoluene		1.8	U	0.59	5.7
2-Hexanone		15	U	5.6	23
4-Chlorotoluene		1.8	U	0.90	5.7
4-Methyl-2-pentanone (MIBK)		15	U	5.0	23
Acetone		15	U	6.2	23
Benzene		1.8	U	0.54	5.7
Bromobenzene		1.8	U	0.56	5.7
Bromochloromethane		0.92	U	0.34	5.7
Bromodichloromethane		0.92	U	0.25	5.7
Bromoform		0.92	U	0.26	5.7
Bromomethane		1.8	U	0.57	11
Carbon disulfide		1.8	U	0.48	5.7
Carbon tetrachloride		1.8	U	0.72	5.7
Chlorobenzene		1.8	U	0.62	5.7
Chlorodibromomethane		1.8	U	0.66	5.7
Chloroethane		3.7	U	1.0	11
Chloroform		0.92	U	0.33	11
Chloromethane		1.8	U	0.89	11
cis-1,2-Dichloroethene		1.8	U	0.64	5.7
cis-1,3-Dichloropropene		3.7	U	1.5	5.7
Dibromomethane		3.7	U	0.97	5.7
Dichlorodifluoromethane		1.8	U	0.60	11
Ethylbenzene		1.8	U	0.77	5.7
Hexachlorobutadiene		1.8	U	0.63	5.7

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB02-0515-0**

Lab Sample ID: 280-69452-6

Client Matrix: Solid

% Moisture: 19.9

Date Sampled: 05/18/2015 1632

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6857.D
Dilution:	1.0			Initial Weight/Volume:	5.432 g
Analysis Date:	05/19/2015 2051			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1632				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.8	U	0.68	5.7
Methyl tert-butyl ether		0.92	U	0.39	23
Methylene Chloride		3.7	U	1.8	5.7
m-Xylene & p-Xylene		3.7	U	1.2	3.7
Naphthalene		1.8	U	0.72	5.7
n-Butylbenzene		1.8	U	0.64	5.7
N-Propylbenzene		1.8	U	0.67	5.7
o-Xylene		1.8	U	0.70	5.7
p-Isopropyltoluene		1.8	U	0.56	5.7
sec-Butylbenzene		1.8	U	0.89	5.7
Styrene		1.8	U	0.72	5.7
tert-Butyl alcohol		37	U	15	230
tert-Butylbenzene		1.8	U	0.57	5.7
Tetrachloroethene		1.8	U	0.68	5.7
Toluene		1.8	U	0.79	5.7
trans-1,2-Dichloroethene		0.92	U	0.45	5.7
trans-1,3-Dichloropropene		1.8	U	0.77	5.7
Trichloroethene		0.92	U	0.26	5.7
Trichlorofluoromethane		3.7	U	1.2	11
Vinyl chloride		3.7	U	1.5	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		71 - 136
4-Bromofluorobenzene (Surr)	94		79 - 119
Dibromofluoromethane (Surr)	100		78 - 119
Toluene-d8 (Surr)	100		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB02-0515-2.5**

Lab Sample ID: 280-69452-7
Client Matrix: Solid
% Moisture: 17.9

Date Sampled: 05/18/2015 1638
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6858.D
Dilution:	1.0			Initial Weight/Volume:	5.504 g
Analysis Date:	05/19/2015 2112			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1638				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.8	U	0.62	5.5
1,1,1-Trichloroethane		1.8	U	0.58	5.5
1,1,2,2-Tetrachloroethane		1.8	U	0.67	5.5
1,1,2-Trichloroethane		3.5	U	0.97	5.5
1,1-Dichloroethane		0.89	U	0.23	5.5
1,1-Dichloroethene		1.8	U	0.65	5.5
1,1-Dichloropropene		1.8	U	0.60	5.5
1,2,3-Trichlorobenzene		1.8	U	0.83	5.5
1,2,3-Trichloropropane		3.5	U	0.90	5.5
1,2,4-Trichlorobenzene		1.8	U	0.81	5.5
1,2,4-Trimethylbenzene		1.8	U	0.64	5.5
1,2-Dibromo-3-Chloropropane		1.8	U	0.66	11
1,2-Dibromoethane		1.8	U	0.58	5.5
1,2-Dichlorobenzene		1.8	U	0.50	5.5
1,2-Dichloroethane		1.8	U	0.77	5.5
1,2-Dichloropropane		1.8	U	0.61	5.5
1,3,5-Trimethylbenzene		1.8	U	0.63	5.5
1,3-Dichlorobenzene		1.8	U	0.53	5.5
1,3-Dichloropropane		1.8	U	0.56	5.5
1,4-Dichlorobenzene		1.8	U	0.86	5.5
2,2-Dichloropropane		1.8	U	0.49	5.5
2-Butanone (MEK)		7.1	U	2.0	22
2-Chlorotoluene		1.8	U	0.56	5.5
2-Hexanone		14	U	5.4	22
4-Chlorotoluene		1.8	U	0.86	5.5
4-Methyl-2-pentanone (MIBK)		14	U	4.8	22
Acetone		14	U	6.0	22
Benzene		1.8	U	0.52	5.5
Bromobenzene		1.8	U	0.54	5.5
Bromochloromethane		0.89	U	0.33	5.5
Bromodichloromethane		0.89	U	0.24	5.5
Bromoform		0.89	U	0.25	5.5
Bromomethane		1.8	U	0.55	11
Carbon disulfide		1.8	U	0.46	5.5
Carbon tetrachloride		1.8	U	0.70	5.5
Chlorobenzene		1.8	U	0.60	5.5
Chlorodibromomethane		1.8	U	0.63	5.5
Chloroethane		3.5	U	0.98	11
Chloroform		0.89	U	0.32	11
Chloromethane		1.8	U	0.85	11
cis-1,2-Dichloroethene		1.8	U	0.62	5.5
cis-1,3-Dichloropropene		3.5	U	1.4	5.5
Dibromomethane		3.5	U	0.93	5.5
Dichlorodifluoromethane		1.8	U	0.58	11
Ethylbenzene		1.8	U	0.74	5.5
Hexachlorobutadiene		1.8	U	0.61	5.5

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB02-0515-2.5**

Lab Sample ID: 280-69452-7

Client Matrix: Solid

% Moisture: 17.9

Date Sampled: 05/18/2015 1638

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6858.D
Dilution:	1.0			Initial Weight/Volume:	5.504 g
Analysis Date:	05/19/2015 2112			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1638				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.8	U	0.65	5.5
Methyl tert-butyl ether		0.89	U	0.38	22
Methylene Chloride		3.5	U	1.8	5.5
m-Xylene & p-Xylene		3.5	U	1.2	3.5
Naphthalene		1.8	U	0.70	5.5
n-Butylbenzene		1.8	U	0.62	5.5
N-Propylbenzene		1.8	U	0.64	5.5
o-Xylene		1.8	U	0.67	5.5
p-Isopropyltoluene		1.8	U	0.54	5.5
sec-Butylbenzene		1.8	U	0.85	5.5
Styrene		1.8	U	0.70	5.5
tert-Butyl alcohol		35	U	14	220
tert-Butylbenzene		1.8	U	0.55	5.5
Tetrachloroethene		1.8	U	0.65	5.5
Toluene		1.8	U	0.76	5.5
trans-1,2-Dichloroethene		0.89	U	0.43	5.5
trans-1,3-Dichloropropene		1.8	U	0.74	5.5
Trichloroethene		0.89	U	0.25	5.5
Trichlorofluoromethane		3.5	U	1.2	11
Vinyl chloride		3.5	U	1.5	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		71 - 136
4-Bromofluorobenzene (Surr)	93		79 - 119
Dibromofluoromethane (Surr)	101		78 - 119
Toluene-d8 (Surr)	101		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB02-0515-10

Lab Sample ID: 280-69452-8
Client Matrix: Solid
% Moisture: 22.8

Date Sampled: 05/18/2015 1654
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6864.D
Dilution:	1.0			Initial Weight/Volume:	2.809 g
Analysis Date:	05/19/2015 2312			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1654				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		3.7	U	1.3	12
1,1,1-Trichloroethane		3.7	U	1.2	12
1,1,2,2-Tetrachloroethane		3.7	U	1.4	12
1,1,2-Trichloroethane		7.4	U	2.0	12
1,1-Dichloroethane		1.8	U	0.48	12
1,1-Dichloroethene		3.7	U	1.4	12
1,1-Dichloropropene		3.7	U	1.2	12
1,2,3-Trichlorobenzene		3.7	U	1.7	12
1,2,3-Trichloropropane		7.4	U	1.9	12
1,2,4-Trichlorobenzene		3.7	U	1.7	12
1,2,4-Trimethylbenzene		3.7	U	1.3	12
1,2-Dibromo-3-Chloropropane		3.7	U	1.4	23
1,2-Dibromoethane		3.7	U	1.2	12
1,2-Dichlorobenzene		3.7	U	1.0	12
1,2-Dichloroethane		3.7	U	1.6	12
1,2-Dichloropropane		3.7	U	1.3	12
1,3,5-Trimethylbenzene		3.7	U	1.3	12
1,3-Dichlorobenzene		3.7	U	1.1	12
1,3-Dichloropropane		3.7	U	1.2	12
1,4-Dichlorobenzene		3.7	U	1.8	12
2,2-Dichloropropane		3.7	U	1.0	12
2-Butanone (MEK)		15	U	4.2	46
2-Chlorotoluene		3.7	U	1.2	12
2-Hexanone		30	U	11	46
4-Chlorotoluene		3.7	U	1.8	12
4-Methyl-2-pentanone (MIBK)		30	U	10	46
Acetone		30	U	12	46
Benzene		3.7	U	1.1	12
Bromobenzene		3.7	U	1.1	12
Bromochloromethane		1.8	U	0.69	12
Bromodichloromethane		1.8	U	0.51	12
Bromoform		1.8	U	0.53	12
Bromomethane		3.7	U	1.2	23
Carbon disulfide		3.7	U	0.97	12
Carbon tetrachloride		3.7	U	1.5	12
Chlorobenzene		3.7	U	1.2	12
Chlorodibromomethane		3.7	U	1.3	12
Chloroethane		7.4	U	2.1	23
Chloroform		1.8	U	0.67	23
Chloromethane		3.7	U	1.8	23
cis-1,2-Dichloroethene		3.7	U	1.3	12
cis-1,3-Dichloropropene		7.4	U	3.0	12
Dibromomethane		7.4	U	1.9	12
Dichlorodifluoromethane		3.7	U	1.2	23
Ethylbenzene		3.7	U	1.5	12
Hexachlorobutadiene		3.7	U	1.3	12

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB02-0515-10

Lab Sample ID: 280-69452-8
Client Matrix: Solid
% Moisture: 22.8

Date Sampled: 05/18/2015 1654
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6864.D
Dilution:	1.0			Initial Weight/Volume:	2.809 g
Analysis Date:	05/19/2015 2312			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1654				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		3.7	U	1.4	12
Methyl tert-butyl ether		1.8	U	0.78	46
Methylene Chloride		7.4	U	3.7	12
m-Xylene & p-Xylene		7.4	U	2.4	7.4
Naphthalene		3.7	U	1.5	12
n-Butylbenzene		3.7	U	1.3	12
N-Propylbenzene		3.7	U	1.3	12
o-Xylene		3.7	U	1.4	12
p-Isopropyltoluene		3.7	U	1.1	12
sec-Butylbenzene		3.7	U	1.8	12
Styrene		3.7	U	1.5	12
tert-Butyl alcohol		74	U	30	460
tert-Butylbenzene		3.7	U	1.2	12
Tetrachloroethene		3.7	U	1.4	12
Toluene		3.7	U	1.6	12
trans-1,2-Dichloroethene		1.8	U	0.90	12
trans-1,3-Dichloropropene		3.7	U	1.5	12
Trichloroethene		1.8	U	0.53	12
Trichlorofluoromethane		7.4	U	2.4	23
Vinyl chloride		7.4	U	3.1	12

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		71 - 136
4-Bromofluorobenzene (Surr)	99		79 - 119
Dibromofluoromethane (Surr)	103		78 - 119
Toluene-d8 (Surr)	101		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB02-0515-15

Lab Sample ID: 280-69452-9
Client Matrix: Solid
% Moisture: 19.2

Date Sampled: 05/18/2015 1700
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6859.D
Dilution:	1.0			Initial Weight/Volume:	5.54 g
Analysis Date:	05/19/2015 2132			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1700				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.8	U	0.63	5.6
1,1,1-Trichloroethane		1.8	U	0.58	5.6
1,1,2,2-Tetrachloroethane		1.8	U	0.68	5.6
1,1,2-Trichloroethane		3.6	U	0.98	5.6
1,1-Dichloroethane		0.89	U	0.23	5.6
1,1-Dichloroethene		1.8	U	0.66	5.6
1,1-Dichloropropene		1.8	U	0.60	5.6
1,2,3-Trichlorobenzene		1.8	U	0.84	5.6
1,2,3-Trichloropropane		3.6	U	0.90	5.6
1,2,4-Trichlorobenzene		1.8	U	0.82	5.6
1,2,4-Trimethylbenzene		1.8	U	0.65	5.6
1,2-Dibromo-3-Chloropropane		1.8	U	0.67	11
1,2-Dibromoethane		1.8	U	0.58	5.6
1,2-Dichlorobenzene		1.8	U	0.50	5.6
1,2-Dichloroethane		1.8	U	0.78	5.6
1,2-Dichloropropane		1.8	U	0.61	5.6
1,3,5-Trimethylbenzene		1.8	U	0.64	5.6
1,3-Dichlorobenzene		1.8	U	0.54	5.6
1,3-Dichloropropane		1.8	U	0.57	5.6
1,4-Dichlorobenzene		1.8	U	0.87	5.6
2,2-Dichloropropane		1.8	U	0.49	5.6
2-Butanone (MEK)		7.1	U	2.0	22
2-Chlorotoluene		1.8	U	0.57	5.6
2-Hexanone		14	U	5.5	22
4-Chlorotoluene		1.8	U	0.87	5.6
4-Methyl-2-pentanone (MIBK)		14	U	4.9	22
Acetone		14	U	6.0	22
Benzene		1.8	U	0.52	5.6
Bromobenzene		1.8	U	0.55	5.6
Bromochloromethane		0.89	U	0.33	5.6
Bromodichloromethane		0.89	U	0.25	5.6
Bromoform		0.89	U	0.26	5.6
Bromomethane		1.8	U	0.56	11
Carbon disulfide		1.8	U	0.47	5.6
Carbon tetrachloride		1.8	U	0.70	5.6
Chlorobenzene		1.8	U	0.60	5.6
Chlorodibromomethane		1.8	U	0.64	5.6
Chloroethane		3.6	U	0.99	11
Chloroform		0.89	U	0.32	11
Chloromethane		1.8	U	0.86	11
cis-1,2-Dichloroethene		1.8	U	0.63	5.6
cis-1,3-Dichloropropene		3.6	U	1.4	5.6
Dibromomethane		3.6	U	0.94	5.6
Dichlorodifluoromethane		1.8	U	0.58	11
Ethylbenzene		0.77	J	0.75	5.6
Hexachlorobutadiene		1.8	U	0.61	5.6

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB02-0515-15

Lab Sample ID: 280-69452-9
Client Matrix: Solid
% Moisture: 19.2

Date Sampled: 05/18/2015 1700
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6859.D
Dilution:	1.0			Initial Weight/Volume:	5.54 g
Analysis Date:	05/19/2015 2132			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1700				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.8	U	0.66	5.6
Methyl tert-butyl ether		0.89	U	0.38	22
Methylene Chloride		3.6	U	1.8	5.6
m-Xylene & p-Xylene		3.6	U	1.2	3.6
Naphthalene		1.8	U	0.70	5.6
n-Butylbenzene		1.8	U	0.63	5.6
N-Propylbenzene		1.8	U	0.65	5.6
o-Xylene		1.8	U	0.68	5.6
p-Isopropyltoluene		1.8	U	0.55	5.6
sec-Butylbenzene		1.8	U	0.86	5.6
Styrene		1.8	U	0.70	5.6
tert-Butyl alcohol		36	U	14	220
tert-Butylbenzene		1.8	U	0.56	5.6
Tetrachloroethene		1.8	U	0.66	5.6
Toluene		1.2	J	0.77	5.6
trans-1,2-Dichloroethene		0.89	U	0.44	5.6
trans-1,3-Dichloropropene		1.8	U	0.75	5.6
Trichloroethene		0.89	U	0.26	5.6
Trichlorofluoromethane		3.6	U	1.2	11
Vinyl chloride		3.6	U	1.5	5.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		71 - 136
4-Bromofluorobenzene (Surr)	107		79 - 119
Dibromofluoromethane (Surr)	106		78 - 119
Toluene-d8 (Surr)	108		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB03-0515-0**

Lab Sample ID: 280-69452-10
Client Matrix: Solid
% Moisture: 19.0

Date Sampled: 05/18/2015 1738
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6860.D
Dilution:	1.0			Initial Weight/Volume:	6.822 g
Analysis Date:	05/19/2015 2152			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1738				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.4	U	0.51	4.5
1,1,1-Trichloroethane		1.4	U	0.47	4.5
1,1,2,2-Tetrachloroethane		1.4	U	0.55	4.5
1,1,2-Trichloroethane		2.9	U	0.80	4.5
1,1-Dichloroethane		0.72	U	0.19	4.5
1,1-Dichloroethene		1.4	U	0.53	4.5
1,1-Dichloropropene		1.4	U	0.49	4.5
1,2,3-Trichlorobenzene		1.4	U	0.68	4.5
1,2,3-Trichloropropane		2.9	U	0.73	4.5
1,2,4-Trichlorobenzene		1.4	U	0.66	4.5
1,2,4-Trimethylbenzene		1.4	U	0.52	4.5
1,2-Dibromo-3-Chloropropane		1.4	U	0.54	9.0
1,2-Dibromoethane		1.4	U	0.47	4.5
1,2-Dichlorobenzene		1.4	U	0.41	4.5
1,2-Dichloroethane		1.4	U	0.63	4.5
1,2-Dichloropropane		1.4	U	0.50	4.5
1,3,5-Trimethylbenzene		1.4	U	0.52	4.5
1,3-Dichlorobenzene		1.4	U	0.43	4.5
1,3-Dichloropropane		1.4	U	0.46	4.5
1,4-Dichlorobenzene		1.4	U	0.71	4.5
2,2-Dichloropropane		1.4	U	0.40	4.5
2-Butanone (MEK)		5.8	U	1.7	18
2-Chlorotoluene		1.4	U	0.46	4.5
2-Hexanone		12	U	4.4	18
4-Chlorotoluene		1.4	U	0.71	4.5
4-Methyl-2-pentanone (MIBK)		12	U	3.9	18
Acetone		12	U	4.9	18
Benzene		1.4	U	0.43	4.5
Bromobenzene		1.4	U	0.44	4.5
Bromochloromethane		0.72	U	0.27	4.5
Bromodichloromethane		0.72	U	0.20	4.5
Bromoform		0.72	U	0.21	4.5
Bromomethane		1.4	U	0.45	9.0
Carbon disulfide		1.4	U	0.38	4.5
Carbon tetrachloride		1.4	U	0.57	4.5
Chlorobenzene		1.4	U	0.49	4.5
Chlorodibromomethane		1.4	U	0.52	4.5
Chloroethane		2.9	U	0.81	9.0
Chloroform		0.72	U	0.26	9.0
Chloromethane		1.4	U	0.70	9.0
cis-1,2-Dichloroethene		1.4	U	0.51	4.5
cis-1,3-Dichloropropene		2.9	U	1.2	4.5
Dibromomethane		2.9	U	0.76	4.5
Dichlorodifluoromethane		1.4	U	0.47	9.0
Ethylbenzene		1.4	U	0.61	4.5
Hexachlorobutadiene		1.4	U	0.50	4.5

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB03-0515-0**

Lab Sample ID: 280-69452-10

Client Matrix: Solid

% Moisture: 19.0

Date Sampled: 05/18/2015 1738

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6860.D
Dilution:	1.0			Initial Weight/Volume:	6.822 g
Analysis Date:	05/19/2015 2152			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1738				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.4	U	0.53	4.5
Methyl tert-butyl ether		0.72	U	0.31	18
Methylene Chloride		2.9	U	1.4	4.5
m-Xylene & p-Xylene		2.9	U	0.94	2.9
Naphthalene		1.4	U	0.57	4.5
n-Butylbenzene		1.4	U	0.51	4.5
N-Propylbenzene		1.4	U	0.52	4.5
o-Xylene		1.4	U	0.55	4.5
p-Isopropyltoluene		1.4	U	0.44	4.5
sec-Butylbenzene		1.4	U	0.70	4.5
Styrene		1.4	U	0.57	4.5
tert-Butyl alcohol		29	U	12	180
tert-Butylbenzene		1.4	U	0.45	4.5
Tetrachloroethene		1.4	U	0.53	4.5
Toluene		1.4	U	0.62	4.5
trans-1,2-Dichloroethene		0.72	U	0.35	4.5
trans-1,3-Dichloropropene		1.4	U	0.61	4.5
Trichloroethene		0.72	U	0.21	4.5
Trichlorofluoromethane		2.9	U	0.94	9.0
Vinyl chloride		2.9	U	1.2	4.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		71 - 136
4-Bromofluorobenzene (Surr)	98		79 - 119
Dibromofluoromethane (Surr)	103		78 - 119
Toluene-d8 (Surr)	99		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB03-0515-5**

Lab Sample ID: 280-69452-11
Client Matrix: Solid
% Moisture: 21.0

Date Sampled: 05/18/2015 1743
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6861.D
Dilution:	1.0			Initial Weight/Volume:	7.261 g
Analysis Date:	05/19/2015 2212			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1743				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.4	U	0.49	4.4
1,1,1-Trichloroethane		1.4	U	0.45	4.4
1,1,2,2-Tetrachloroethane		1.4	U	0.53	4.4
1,1,2-Trichloroethane		2.8	U	0.77	4.4
1,1-Dichloroethane		0.70	U	0.18	4.4
1,1-Dichloroethene		1.4	U	0.51	4.4
1,1-Dichloropropene		1.4	U	0.47	4.4
1,2,3-Trichlorobenzene		1.4	U	0.65	4.4
1,2,3-Trichloropropane		2.8	U	0.71	4.4
1,2,4-Trichlorobenzene		1.4	U	0.64	4.4
1,2,4-Trimethylbenzene		1.4	U	0.51	4.4
1,2-Dibromo-3-Chloropropane		1.4	U	0.52	8.7
1,2-Dibromoethane		1.4	U	0.45	4.4
1,2-Dichlorobenzene		1.4	U	0.39	4.4
1,2-Dichloroethane		1.4	U	0.61	4.4
1,2-Dichloropropane		1.4	U	0.48	4.4
1,3,5-Trimethylbenzene		1.4	U	0.50	4.4
1,3-Dichlorobenzene		1.4	U	0.42	4.4
1,3-Dichloropropane		1.4	U	0.44	4.4
1,4-Dichlorobenzene		1.4	U	0.68	4.4
2,2-Dichloropropane		1.4	U	0.38	4.4
2-Butanone (MEK)		5.6	U	1.6	17
2-Chlorotoluene		1.4	U	0.44	4.4
2-Hexanone		11	U	4.3	17
4-Chlorotoluene		1.4	U	0.68	4.4
4-Methyl-2-pentanone (MIBK)		11	U	3.8	17
Acetone		11	U	4.7	17
Benzene		1.4	U	0.41	4.4
Bromobenzene		1.4	U	0.43	4.4
Bromochloromethane		0.70	U	0.26	4.4
Bromodichloromethane		0.70	U	0.19	4.4
Bromoform		0.70	U	0.20	4.4
Bromomethane		1.4	U	0.44	8.7
Carbon disulfide		1.4	U	0.37	4.4
Carbon tetrachloride		1.4	U	0.55	4.4
Chlorobenzene		1.4	U	0.47	4.4
Chlorodibromomethane		1.4	U	0.50	4.4
Chloroethane		2.8	U	0.78	8.7
Chloroform		0.70	U	0.25	8.7
Chloromethane		1.4	U	0.67	8.7
cis-1,2-Dichloroethene		1.4	U	0.49	4.4
cis-1,3-Dichloropropene		2.8	U	1.1	4.4
Dibromomethane		2.8	U	0.73	4.4
Dichlorodifluoromethane		1.4	U	0.45	8.7
Ethylbenzene		1.4	U	0.58	4.4
Hexachlorobutadiene		1.4	U	0.48	4.4

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB03-0515-5**

Lab Sample ID: 280-69452-11

Client Matrix: Solid

% Moisture: 21.0

Date Sampled: 05/18/2015 1743

Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6861.D
Dilution:	1.0			Initial Weight/Volume:	7.261 g
Analysis Date:	05/19/2015 2212			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1743				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.4	U	0.51	4.4
Methyl tert-butyl ether		0.70	U	0.30	17
Methylene Chloride		2.8	U	1.4	4.4
m-Xylene & p-Xylene		2.8	U	0.91	2.8
Naphthalene		1.4	U	0.55	4.4
n-Butylbenzene		1.4	U	0.49	4.4
N-Propylbenzene		1.4	U	0.51	4.4
o-Xylene		1.4	U	0.53	4.4
p-Isopropyltoluene		1.4	U	0.43	4.4
sec-Butylbenzene		1.4	U	0.67	4.4
Styrene		1.4	U	0.55	4.4
tert-Butyl alcohol		28	U	11	170
tert-Butylbenzene		1.4	U	0.44	4.4
Tetrachloroethene		1.4	U	0.51	4.4
Toluene		1.4	U	0.60	4.4
trans-1,2-Dichloroethene		0.70	U	0.34	4.4
trans-1,3-Dichloropropene		1.4	U	0.58	4.4
Trichloroethene		0.70	U	0.20	4.4
Trichlorofluoromethane		2.8	U	0.91	8.7
Vinyl chloride		2.8	U	1.2	4.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		71 - 136
4-Bromofluorobenzene (Surr)	97		79 - 119
Dibromofluoromethane (Surr)	101		78 - 119
Toluene-d8 (Surr)	101		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB03-0515-10**

Lab Sample ID: 280-69452-12
Client Matrix: Solid
% Moisture: 18.5

Date Sampled: 05/18/2015 1748
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6862.D
Dilution:	1.0			Initial Weight/Volume:	6.496 g
Analysis Date:	05/19/2015 2232			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1748				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.5	U	0.53	4.7
1,1,1-Trichloroethane		1.5	U	0.49	4.7
1,1,2,2-Tetrachloroethane		1.5	U	0.58	4.7
1,1,2-Trichloroethane		3.0	U	0.83	4.7
1,1-Dichloroethane		0.76	U	0.20	4.7
1,1-Dichloroethene		1.5	U	0.56	4.7
1,1-Dichloropropene		1.5	U	0.51	4.7
1,2,3-Trichlorobenzene		1.5	U	0.71	4.7
1,2,3-Trichloropropane		3.0	U	0.76	4.7
1,2,4-Trichlorobenzene		1.5	U	0.69	4.7
1,2,4-Trimethylbenzene		1.5	U	0.55	4.7
1,2-Dibromo-3-Chloropropane		1.5	U	0.57	9.4
1,2-Dibromoethane		1.5	U	0.49	4.7
1,2-Dichlorobenzene		1.5	U	0.42	4.7
1,2-Dichloroethane		1.5	U	0.66	4.7
1,2-Dichloropropane		1.5	U	0.52	4.7
1,3,5-Trimethylbenzene		1.5	U	0.54	4.7
1,3-Dichlorobenzene		1.5	U	0.45	4.7
1,3-Dichloropropane		1.5	U	0.48	4.7
1,4-Dichlorobenzene		1.5	U	0.74	4.7
2,2-Dichloropropane		1.5	U	0.42	4.7
2-Butanone (MEK)		6.0	U	1.7	19
2-Chlorotoluene		1.5	U	0.48	4.7
2-Hexanone		12	U	4.6	19
4-Chlorotoluene		1.5	U	0.74	4.7
4-Methyl-2-pentanone (MIBK)		12	U	4.1	19
Acetone		12	U	5.1	19
Benzene		1.5	U	0.44	4.7
Bromobenzene		1.5	U	0.46	4.7
Bromochloromethane		0.76	U	0.28	4.7
Bromodichloromethane		0.76	U	0.21	4.7
Bromoform		0.76	U	0.22	4.7
Bromomethane		1.5	U	0.47	9.4
Carbon disulfide		1.5	U	0.40	4.7
Carbon tetrachloride		1.5	U	0.59	4.7
Chlorobenzene		1.5	U	0.51	4.7
Chlorodibromomethane		1.5	U	0.54	4.7
Chloroethane		3.0	U	0.84	9.4
Chloroform		0.76	U	0.27	9.4
Chloromethane		1.5	U	0.73	9.4
cis-1,2-Dichloroethene		1.5	U	0.53	4.7
cis-1,3-Dichloropropene		3.0	U	1.2	4.7
Dibromomethane		3.0	U	0.79	4.7
Dichlorodifluoromethane		1.5	U	0.49	9.4
Ethylbenzene		1.5	U	0.63	4.7
Hexachlorobutadiene		1.5	U	0.52	4.7

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: **54400-SB03-0515-10**

Lab Sample ID: 280-69452-12
Client Matrix: Solid
% Moisture: 18.5

Date Sampled: 05/18/2015 1748
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6862.D
Dilution:	1.0			Initial Weight/Volume:	6.496 g
Analysis Date:	05/19/2015 2232			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1748				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.5	U	0.56	4.7
Methyl tert-butyl ether		0.76	U	0.32	19
Methylene Chloride		3.0	U	1.5	4.7
m-Xylene & p-Xylene		3.0	U	0.98	3.0
Naphthalene		1.5	U	0.59	4.7
n-Butylbenzene		1.5	U	0.53	4.7
N-Propylbenzene		1.5	U	0.55	4.7
o-Xylene		1.5	U	0.58	4.7
p-Isopropyltoluene		1.5	U	0.46	4.7
sec-Butylbenzene		1.5	U	0.73	4.7
Styrene		1.5	U	0.59	4.7
tert-Butyl alcohol		30	U	12	190
tert-Butylbenzene		1.5	U	0.47	4.7
Tetrachloroethene		1.5	U	0.56	4.7
Toluene		1.5	U	0.65	4.7
trans-1,2-Dichloroethene		0.76	U	0.37	4.7
trans-1,3-Dichloropropene		1.5	U	0.63	4.7
Trichloroethene		0.76	U	0.22	4.7
Trichlorofluoromethane		3.0	U	0.98	9.4
Vinyl chloride		3.0	U	1.3	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		71 - 136
4-Bromofluorobenzene (Surr)	94		79 - 119
Dibromofluoromethane (Surr)	100		78 - 119
Toluene-d8 (Surr)	98		85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB03-0515-15

Lab Sample ID: 280-69452-13
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 05/18/2015 1751
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6863.D
Dilution:	1.0			Initial Weight/Volume:	5.985 g
Analysis Date:	05/19/2015 2252			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1751				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane		1.7	U	0.58	5.2
1,1,1-Trichloroethane		1.7	U	0.54	5.2
1,1,2,2-Tetrachloroethane		1.7	U	0.63	5.2
1,1,2-Trichloroethane		3.3	U	0.91	5.2
1,1-Dichloroethane		0.83	U	0.22	5.2
1,1-Dichloroethene		1.7	U	0.61	5.2
1,1-Dichloropropene		1.7	U	0.56	5.2
1,2,3-Trichlorobenzene		1.7	U	0.78	5.2
1,2,3-Trichloropropane		3.3	U	0.84	5.2
1,2,4-Trichlorobenzene		1.7	U	0.76	5.2
1,2,4-Trimethylbenzene		1.7	U	0.60	5.2
1,2-Dibromo-3-Chloropropane		1.7	U	0.62	10
1,2-Dibromoethane		1.7	U	0.54	5.2
1,2-Dichlorobenzene		1.7	U	0.47	5.2
1,2-Dichloroethane		1.7	U	0.73	5.2
1,2-Dichloropropane		1.7	U	0.57	5.2
1,3,5-Trimethylbenzene		1.7	U	0.59	5.2
1,3-Dichlorobenzene		1.7	U	0.50	5.2
1,3-Dichloropropane		1.7	U	0.53	5.2
1,4-Dichlorobenzene		1.7	U	0.81	5.2
2,2-Dichloropropane		1.7	U	0.46	5.2
2-Butanone (MEK)		6.7	U	1.9	21
2-Chlorotoluene		1.7	U	0.53	5.2
2-Hexanone		13	U	5.1	21
4-Chlorotoluene		1.7	U	0.81	5.2
4-Methyl-2-pentanone (MIBK)		13	U	4.5	21
Acetone		13	U	5.6	21
Benzene		0.49	J	0.49	5.2
Bromobenzene		1.7	U	0.51	5.2
Bromochloromethane		0.83	U	0.31	5.2
Bromodichloromethane		0.83	U	0.23	5.2
Bromoform		0.83	U	0.24	5.2
Bromomethane		1.7	U	0.52	10
Carbon disulfide		1.7	U	0.44	5.2
Carbon tetrachloride		1.7	U	0.65	5.2
Chlorobenzene		1.7	U	0.56	5.2
Chlorodibromomethane		1.7	U	0.59	5.2
Chloroethane		3.3	U	0.93	10
Chloroform		0.83	U	0.30	10
Chloromethane		1.7	U	0.80	10
cis-1,2-Dichloroethene		1.7	U	0.58	5.2
cis-1,3-Dichloropropene		3.3	U	1.3	5.2
Dibromomethane		3.3	U	0.87	5.2
Dichlorodifluoromethane		1.7	U	0.54	10
Ethylbenzene		0.85	J	0.70	5.2
Hexachlorobutadiene		1.7	U	0.57	5.2

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Client Sample ID: 54400-SB03-0515-15

Lab Sample ID: 280-69452-13
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 05/18/2015 1751
Date Received: 05/19/2015 0720

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Prep Method:	5035	Prep Batch:	280-278302	Lab File ID:	J6863.D
Dilution:	1.0			Initial Weight/Volume:	5.985 g
Analysis Date:	05/19/2015 2252			Final Weight/Volume:	5 mL
Prep Date:	05/18/2015 1751				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	DL	LOQ
Isopropylbenzene		1.7	U	0.61	5.2
Methyl tert-butyl ether		0.83	U	0.35	21
Methylene Chloride		3.3	U	1.7	5.2
m-Xylene & p-Xylene		3.3	U	1.1	3.3
Naphthalene		1.7	U	0.65	5.2
n-Butylbenzene		1.7	U	0.58	5.2
N-Propylbenzene		1.7	U	0.60	5.2
o-Xylene		1.7	U	0.63	5.2
p-Isopropyltoluene		1.7	U	0.51	5.2
sec-Butylbenzene		1.7	U	0.80	5.2
Styrene		1.7	U	0.65	5.2
tert-Butyl alcohol		33	U	13	210
tert-Butylbenzene		1.7	U	0.52	5.2
Tetrachloroethene		1.7	U	0.61	5.2
Toluene		1.2	J	0.72	5.2
trans-1,2-Dichloroethene		0.83	U	0.41	5.2
trans-1,3-Dichloropropene		1.7	U	0.70	5.2
Trichloroethene		0.83	U	0.24	5.2
Trichlorofluoromethane		3.3	U	1.1	10
Vinyl chloride		3.3	U	1.4	5.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		71 - 136
4-Bromofluorobenzene (Surr)	95		79 - 119
Dibromofluoromethane (Surr)	100		78 - 119
Toluene-d8 (Surr)	100		85 - 116

General Chemistry

Client Sample ID: 54400-SB01-0515-0

Lab Sample ID: 280-69452-2

Client Matrix: Solid

Date Sampled: 05/18/2015 1548

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB01-0515-5

Lab Sample ID: 280-69452-3

Client Matrix: Solid

Date Sampled: 05/18/2015 1551

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB01-0515-12.5

Lab Sample ID: 280-69452-4

Client Matrix: Solid

Date Sampled: 05/18/2015 1555

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB01-0515-15

Lab Sample ID: 280-69452-5

Client Matrix: Solid

Date Sampled: 05/18/2015 1558

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB02-0515-0

Lab Sample ID: 280-69452-6

Client Matrix: Solid

Date Sampled: 05/18/2015 1632

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	20		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: **54400-SB02-0515-2.5**

Lab Sample ID: 280-69452-7

Client Matrix: Solid

Date Sampled: 05/18/2015 1638

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB02-0515-10

Lab Sample ID: 280-69452-8

Client Matrix: Solid

Date Sampled: 05/18/2015 1654

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	23		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB02-0515-15

Lab Sample ID: 280-69452-9

Client Matrix: Solid

Date Sampled: 05/18/2015 1700

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: **54400-SB03-0515-0**

Lab Sample ID: 280-69452-10

Client Matrix: Solid

Date Sampled: 05/18/2015 1738

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: **54400-SB03-0515-5**

Lab Sample ID: 280-69452-11

Client Matrix: Solid

Date Sampled: 05/18/2015 1743

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: **54400-SB03-0515-10**

Lab Sample ID: 280-69452-12

Client Matrix: Solid

Date Sampled: 05/18/2015 1748

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

General Chemistry

Client Sample ID: 54400-SB03-0515-15

Lab Sample ID: 280-69452-13

Client Matrix: Solid

Date Sampled: 05/18/2015 1751

Date Received: 05/19/2015 0720

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	20		%	0.10	0.10	1.0	D 2216

Analysis Batch: 280-278420 Analysis Date: 05/20/2015 1406 DryWt Corrected: N

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-69452-2	54400-SB01-0515-0	98	93	97	97
280-69452-3	54400-SB01-0515-5	101	103	98	95
280-69452-4	54400-SB01-0515-12.5	103	107	98	96
280-69452-5	54400-SB01-0515-15	104	105	100	97
280-69452-6	54400-SB02-0515-0	100	104	100	94
280-69452-7	54400-SB02-0515-2.5	101	103	101	93
280-69452-8	54400-SB02-0515-10	103	105	101	99
280-69452-9	54400-SB02-0515-15	106	110	108	107
280-69452-10	54400-SB03-0515-0	103	107	99	98
280-69452-11	54400-SB03-0515-5	101	102	101	97
280-69452-12	54400-SB03-0515-10	100	103	98	94
280-69452-13	54400-SB03-0515-15	100	106	100	95
MB 280-278302/1-A		98	96	99	94
MB 280-278666/1-A		102	99	102	96
LCS 280-278302/2-A		94	93	95	91
LCS 280-278666/2-A		102	97	95	101

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	78-119
DCA = 1,2-Dichloroethane-d4 (Surr)	71-136
TOL = Toluene-d8 (Surr)	85-116
BFB = 4-Bromofluorobenzene (Surr)	79-119

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-69452-1	54403-TB16-0515-	96	86	102	101
MB 280-279635/6		98	93	99	103
LCS 280-279635/4		96	97	104	91

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method Blank - Batch: 280-278302

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-278302/1-A	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278302	Lab File ID:	J6849.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/19/2015 1811	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/19/2015 1700				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,1,1,2-Tetrachloroethane	1.6	U	0.56	5.0
1,1,1-Trichloroethane	1.6	U	0.52	5.0
1,1,2,2-Tetrachloroethane	1.6	U	0.61	5.0
1,1,2-Trichloroethane	3.2	U	0.88	5.0
1,1-Dichloroethane	0.80	U	0.21	5.0
1,1-Dichloroethene	1.6	U	0.59	5.0
1,1-Dichloropropene	1.6	U	0.54	5.0
1,2,3-Trichlorobenzene	1.6	U	0.75	5.0
1,2,3-Trichloropropane	3.2	U	0.81	5.0
1,2,4-Trichlorobenzene	1.6	U	0.73	5.0
1,2,4-Trimethylbenzene	1.6	U	0.58	5.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.60	10
1,2-Dichlorobenzene	1.6	U	0.45	5.0
1,2-Dichloroethane	1.6	U	0.70	5.0
1,2-Dichloropropane	1.6	U	0.55	5.0
1,3,5-Trimethylbenzene	1.6	U	0.57	5.0
1,3-Dichlorobenzene	1.6	U	0.48	5.0
1,3-Dichloropropane	1.6	U	0.51	5.0
1,4-Dichlorobenzene	1.6	U	0.78	5.0
2,2-Dichloropropane	1.6	U	0.44	5.0
2-Butanone (MEK)	6.4	U	1.8	20
2-Chlorotoluene	1.6	U	0.51	5.0
2-Hexanone	13	U	4.9	20
4-Chlorotoluene	1.6	U	0.78	5.0
4-Methyl-2-pentanone (MIBK)	13	U	4.4	20
Acetone	13	U	5.4	20
Benzene	1.6	U	0.47	5.0
Bromobenzene	1.6	U	0.49	5.0
Bromochloromethane	0.80	U	0.30	5.0
Bromodichloromethane	0.80	U	0.22	5.0
Bromoform	0.80	U	0.23	5.0
Bromomethane	1.6	U	0.50	10
Carbon disulfide	1.6	U	0.42	5.0
Carbon tetrachloride	1.6	U	0.63	5.0
Chlorobenzene	1.6	U	0.54	5.0
Chloroethane	3.2	U	0.89	10
Chloroform	0.80	U	0.29	10
Chloromethane	1.6	U	0.77	10
cis-1,2-Dichloroethene	1.6	U	0.56	5.0
cis-1,3-Dichloropropene	3.2	U	1.3	5.0
Chlorodibromomethane	1.6	U	0.57	5.0
Dibromomethane	3.2	U	0.84	5.0
Dichlorodifluoromethane	1.6	U	0.52	10
Ethylbenzene	1.6	U	0.67	5.0
1,2-Dibromoethane	1.6	U	0.52	5.0

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method Blank - Batch: 280-278302

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-278302/1-A	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278302	Lab File ID:	J6849.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/19/2015 1811	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/19/2015 1700				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Hexachlorobutadiene	1.6	U	0.55	5.0
Isopropylbenzene	1.6	U	0.59	5.0
Methyl tert-butyl ether	0.80	U	0.34	20
Methylene Chloride	3.2	U	1.6	5.0
m-Xylene & p-Xylene	3.2	U	1.0	3.2
Naphthalene	1.6	U	0.63	5.0
n-Butylbenzene	1.6	U	0.56	5.0
N-Propylbenzene	1.6	U	0.58	5.0
o-Xylene	1.6	U	0.61	5.0
p-Isopropyltoluene	1.6	U	0.49	5.0
sec-Butylbenzene	1.6	U	0.77	5.0
Styrene	1.6	U	0.63	5.0
tert-Butyl alcohol	32	U	13	200
tert-Butylbenzene	1.6	U	0.50	5.0
Tetrachloroethene	1.6	U	0.59	5.0
Toluene	1.6	U	0.69	5.0
trans-1,2-Dichloroethene	0.80	U	0.39	5.0
trans-1,3-Dichloropropene	1.6	U	0.67	5.0
Trichloroethene	0.80	U	0.23	5.0
Trichlorofluoromethane	3.2	U	1.0	10
Vinyl chloride	3.2	U	1.3	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	71 - 136
4-Bromofluorobenzene (Surr)	94	79 - 119
Dibromofluoromethane (Surr)	98	78 - 119
Toluene-d8 (Surr)	99	85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Control Sample - Batch: 280-278302

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-278302/2-A	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278302	Lab File ID:	J6850.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/19/2015 1831	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/19/2015 1700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	50.0	56.3	113	78 - 125	
1,1,1-Trichloroethane	50.0	56.4	113	73 - 130	
1,1,2,2-Tetrachloroethane	50.0	58.1	116	70 - 124	
1,1,2-Trichloroethane	50.0	56.9	114	78 - 121	
1,1-Dichloroethane	50.0	55.1	110	76 - 125	
1,1-Dichloroethene	50.0	50.6	101	70 - 131	
1,1-Dichloropropene	50.0	57.7	115	76 - 125	
1,2,3-Trichlorobenzene	50.0	55.8	112	66 - 130	
1,2,3-Trichloropropane	50.0	60.5	121	73 - 125	
1,2,4-Trichlorobenzene	50.0	56.0	112	67 - 129	
1,2,4-Trimethylbenzene	50.0	52.6	105	75 - 123	
1,2-Dibromo-3-Chloropropane	50.0	55.8	112	61 - 132	
1,2-Dichlorobenzene	50.0	55.3	111	78 - 121	
1,2-Dichloroethane	50.0	55.5	111	73 - 128	
1,2-Dichloropropane	50.0	53.6	107	76 - 123	
1,3,5-Trimethylbenzene	50.0	55.2	110	73 - 124	
1,3-Dichlorobenzene	50.0	54.4	109	77 - 121	
1,3-Dichloropropane	50.0	56.4	113	77 - 121	
1,4-Dichlorobenzene	50.0	55.3	111	75 - 120	
2,2-Dichloropropane	50.0	50.7	101	67 - 133	
2-Butanone (MEK)	200	204	102	51 - 148	
2-Chlorotoluene	50.0	56.3	113	75 - 122	
2-Hexanone	200	226	113	53 - 145	
4-Chlorotoluene	50.0	55.1	110	72 - 124	
4-Methyl-2-pentanone (MIBK)	200	215	108	65 - 135	
Acetone	200	193	96	36 - 164	
Benzene	50.0	54.5	109	77 - 121	
Bromobenzene	50.0	55.6	111	78 - 121	
Bromochloromethane	50.0	55.4	111	78 - 125	
Bromodichloromethane	50.0	56.4	113	75 - 127	
Bromoform	50.0	52.0	104	67 - 132	
Bromomethane	50.0	42.4	85	53 - 143	
Carbon disulfide	50.0	54.0	108	63 - 132	
Carbon tetrachloride	50.0	57.6	115	70 - 135	
Chlorobenzene	50.0	55.3	111	79 - 120	
Chloroethane	50.0	42.0	84	59 - 139	
Chloroform	50.0	55.0	110	78 - 123	
Chloromethane	50.0	39.5	79	50 - 136	
cis-1,2-Dichloroethene	50.0	53.9	108	77 - 123	
cis-1,3-Dichloropropene	50.0	56.8	114	74 - 126	
Chlorodibromomethane	50.0	60.4	121	74 - 126	
Dibromomethane	50.0	57.9	116	78 - 125	
Dichlorodifluoromethane	50.0	45.1	90	29 - 149	
Ethylbenzene	50.0	53.0	106	76 - 122	
1,2-Dibromoethane	50.0	58.0	116	78 - 122	
Hexachlorobutadiene	50.0	51.6	103	61 - 135	

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Control Sample - Batch: 280-278302

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-278302/2-A	Analysis Batch:	280-278246	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278302	Lab File ID:	J6850.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/19/2015 1831	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/19/2015 1700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isopropylbenzene	50.0	55.0	110	68 - 134	
Methyl tert-butyl ether	50.0	55.6	111	73 - 125	
Methylene Chloride	50.0	53.5	107	70 - 128	
m-Xylene & p-Xylene	50.0	58.0	116	77 - 124	
Naphthalene	50.0	57.8	116	62 - 129	
n-Butylbenzene	50.0	54.3	109	70 - 128	
N-Propylbenzene	50.0	53.9	108	73 - 125	
o-Xylene	50.0	51.7	103	77 - 123	
p-Isopropyltoluene	50.0	54.6	109	73 - 127	
sec-Butylbenzene	50.0	54.8	110	73 - 126	
Styrene	50.0	55.3	111	76 - 124	
tert-Butyl alcohol	500	541	108	68 - 133	
tert-Butylbenzene	50.0	53.6	107	73 - 125	
Tetrachloroethene	50.0	53.9	108	73 - 128	
Toluene	50.0	53.8	108	77 - 121	
trans-1,2-Dichloroethene	50.0	54.4	109	74 - 125	
trans-1,3-Dichloropropene	50.0	58.4	117	71 - 130	
Trichloroethene	50.0	54.2	108	77 - 123	
Trichlorofluoromethane	50.0	42.8	86	62 - 140	
Vinyl chloride	50.0	39.1	78	56 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	71 - 136
4-Bromofluorobenzene (Surr)	91	79 - 119
Dibromofluoromethane (Surr)	94	78 - 119
Toluene-d8 (Surr)	95	85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method Blank - Batch: 280-278666

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-278666/1-A	Analysis Batch:	280-278648	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278666	Lab File ID:	J6916.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/21/2015 1820	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/21/2015 1700				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,1,1,2-Tetrachloroethane	1.6	U	0.56	5.0
1,1,1-Trichloroethane	1.6	U	0.52	5.0
1,1,2,2-Tetrachloroethane	1.6	U	0.61	5.0
1,1,2-Trichloroethane	3.2	U	0.88	5.0
1,1-Dichloroethane	0.80	U	0.21	5.0
1,1-Dichloroethene	1.6	U	0.59	5.0
1,1-Dichloropropene	1.6	U	0.54	5.0
1,2,3-Trichlorobenzene	1.6	U	0.75	5.0
1,2,3-Trichloropropane	3.2	U	0.81	5.0
1,2,4-Trichlorobenzene	1.6	U	0.73	5.0
1,2,4-Trimethylbenzene	1.6	U	0.58	5.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.60	10
1,2-Dichlorobenzene	1.6	U	0.45	5.0
1,2-Dichloroethane	1.6	U	0.70	5.0
1,2-Dichloropropane	1.6	U	0.55	5.0
1,3,5-Trimethylbenzene	1.6	U	0.57	5.0
1,3-Dichlorobenzene	1.6	U	0.48	5.0
1,3-Dichloropropane	1.6	U	0.51	5.0
1,4-Dichlorobenzene	1.6	U	0.78	5.0
2,2-Dichloropropane	1.6	U	0.44	5.0
2-Butanone (MEK)	6.4	U	1.8	20
2-Chlorotoluene	1.6	U	0.51	5.0
2-Hexanone	13	U	4.9	20
4-Chlorotoluene	1.6	U	0.78	5.0
4-Methyl-2-pentanone (MIBK)	13	U	4.4	20
Acetone	13	U	5.4	20
Benzene	1.6	U	0.47	5.0
Bromobenzene	1.6	U	0.49	5.0
Bromochloromethane	0.80	U	0.30	5.0
Bromodichloromethane	0.80	U	0.22	5.0
Bromoform	0.80	U	0.23	5.0
Bromomethane	1.6	U	0.50	10
Carbon disulfide	1.6	U	0.42	5.0
Carbon tetrachloride	1.6	U	0.63	5.0
Chlorobenzene	1.6	U	0.54	5.0
Chloroethane	3.2	U	0.89	10
Chloroform	0.80	U	0.29	10
Chloromethane	1.6	U	0.77	10
cis-1,2-Dichloroethene	1.6	U	0.56	5.0
cis-1,3-Dichloropropene	3.2	U	1.3	5.0
Dibromochloromethane	1.6	U	0.57	5.0
Dibromomethane	3.2	U	0.84	5.0
Dichlorodifluoromethane	1.6	U	0.52	10
Ethylbenzene	1.6	U	0.67	5.0
Ethylene Dibromide	1.6	U	0.52	5.0

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method Blank - Batch: 280-278666

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-278666/1-A	Analysis Batch:	280-278648	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278666	Lab File ID:	J6916.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/21/2015 1820	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/21/2015 1700				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Hexachlorobutadiene	1.6	U	0.55	5.0
Isopropylbenzene	1.6	U	0.59	5.0
Methyl tert-butyl ether	0.80	U	0.34	20
Methylene Chloride	3.2	U	1.6	5.0
m-Xylene & p-Xylene	3.2	U	1.0	3.2
Naphthalene	1.6	U	0.63	5.0
n-Butylbenzene	1.6	U	0.56	5.0
N-Propylbenzene	1.6	U	0.58	5.0
o-Xylene	1.6	U	0.61	5.0
4-Isopropyltoluene	1.6	U	0.49	5.0
sec-Butylbenzene	1.6	U	0.77	5.0
Styrene	1.6	U	0.63	5.0
tert-Butyl alcohol	32	U	13	200
tert-Butylbenzene	1.6	U	0.50	5.0
Tetrachloroethene	1.6	U	0.59	5.0
Toluene	1.6	U	0.69	5.0
trans-1,2-Dichloroethene	0.80	U	0.39	5.0
trans-1,3-Dichloropropene	1.6	U	0.67	5.0
Trichloroethene	0.80	U	0.23	5.0
Trichlorofluoromethane	3.2	U	1.0	10
Vinyl chloride	3.2	U	1.3	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	71 - 136
4-Bromofluorobenzene (Surr)	96	79 - 119
Dibromofluoromethane (Surr)	102	78 - 119
Toluene-d8 (Surr)	102	85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Control Sample - Batch: 280-278666

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-278666/2-A	Analysis Batch:	280-278648	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278666	Lab File ID:	J6915.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/21/2015 1759	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/21/2015 1700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	50.0	49.3	99	78 - 125	
1,1,1-Trichloroethane	50.0	52.9	106	73 - 130	
1,1,2,2-Tetrachloroethane	50.0	50.4	101	70 - 124	
1,1,2-Trichloroethane	50.0	50.4	101	78 - 121	
1,1-Dichloroethane	50.0	51.1	102	76 - 125	
1,1-Dichloroethene	50.0	48.7	97	70 - 131	
1,1-Dichloropropene	50.0	53.6	107	76 - 125	
1,2,3-Trichlorobenzene	50.0	49.6	99	66 - 130	
1,2,3-Trichloropropane	50.0	51.9	104	73 - 125	
1,2,4-Trichlorobenzene	50.0	50.3	101	67 - 129	
1,2,4-Trimethylbenzene	50.0	48.6	97	75 - 123	
1,2-Dibromo-3-Chloropropane	50.0	46.4	93	61 - 132	
1,2-Dichlorobenzene	50.0	49.8	100	78 - 121	
1,2-Dichloroethane	50.0	50.4	101	73 - 128	
1,2-Dichloropropane	50.0	48.8	98	76 - 123	
1,3,5-Trimethylbenzene	50.0	49.8	100	73 - 124	
1,3-Dichlorobenzene	50.0	50.6	101	77 - 121	
1,3-Dichloropropane	50.0	46.7	93	77 - 121	
1,4-Dichlorobenzene	50.0	49.6	99	75 - 120	
2,2-Dichloropropane	50.0	46.9	94	67 - 133	
2-Butanone (MEK)	200	202	101	51 - 148	
2-Chlorotoluene	50.0	48.9	98	75 - 122	
2-Hexanone	200	210	105	53 - 145	
4-Chlorotoluene	50.0	52.5	105	72 - 124	
4-Methyl-2-pentanone (MIBK)	200	212	106	65 - 135	
Acetone	200	203	102	36 - 164	
Benzene	50.0	49.1	98	77 - 121	
Bromobenzene	50.0	50.5	101	78 - 121	
Bromochloromethane	50.0	51.4	103	78 - 125	
Bromodichloromethane	50.0	51.5	103	75 - 127	
Bromoform	50.0	44.5	89	67 - 132	
Bromomethane	50.0	51.0	102	53 - 143	
Carbon disulfide	50.0	48.3	97	63 - 132	
Carbon tetrachloride	50.0	54.5	109	70 - 135	
Chlorobenzene	50.0	47.3	95	79 - 120	
Chloroethane	50.0	52.7	105	59 - 139	
Chloroform	50.0	51.5	103	78 - 123	
Chloromethane	50.0	49.7	99	50 - 136	
cis-1,2-Dichloroethene	50.0	49.3	99	77 - 123	
cis-1,3-Dichloropropene	50.0	48.8	98	74 - 126	
Dibromochloromethane	50.0	51.4	103	74 - 126	
Dibromomethane	50.0	51.8	104	78 - 125	
Dichlorodifluoromethane	50.0	56.3	113	29 - 149	
Ethylbenzene	50.0	47.0	94	76 - 122	
Ethylene Dibromide	50.0	48.5	97	78 - 122	
Hexachlorobutadiene	50.0	49.1	98	61 - 135	

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Control Sample - Batch: 280-278666

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-278666/2-A	Analysis Batch:	280-278648	Instrument ID:	VMS_J
Client Matrix:	Solid	Prep Batch:	280-278666	Lab File ID:	J6915.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/21/2015 1759	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/21/2015 1700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isopropylbenzene	50.0	49.7	99	68 - 134	
Methyl tert-butyl ether	50.0	50.0	100	73 - 125	
Methylene Chloride	50.0	49.5	99	70 - 128	
m-Xylene & p-Xylene	50.0	48.3	97	77 - 124	
Naphthalene	50.0	49.6	99	62 - 129	
n-Butylbenzene	50.0	49.1	98	70 - 128	
N-Propylbenzene	50.0	49.8	100	73 - 125	
o-Xylene	50.0	44.5	89	77 - 123	
4-Isopropyltoluene	50.0	49.4	99	73 - 127	
sec-Butylbenzene	50.0	50.0	100	73 - 126	
Styrene	50.0	46.9	94	76 - 124	
tert-Butyl alcohol	500	535	107	68 - 133	
tert-Butylbenzene	50.0	49.0	98	73 - 125	
Tetrachloroethene	50.0	47.1	94	73 - 128	
Toluene	50.0	50.3	101	77 - 121	
trans-1,2-Dichloroethene	50.0	50.5	101	74 - 125	
trans-1,3-Dichloropropene	50.0	52.2	104	71 - 130	
Trichloroethene	50.0	49.8	100	77 - 123	
Trichlorofluoromethane	50.0	51.6	103	62 - 140	
Vinyl chloride	50.0	51.6	103	56 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	71 - 136
4-Bromofluorobenzene (Surr)	101	79 - 119
Dibromofluoromethane (Surr)	102	78 - 119
Toluene-d8 (Surr)	95	85 - 116

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method Blank - Batch: 280-279635

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-279635/6	Analysis Batch:	280-279635	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H3066.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	05/29/2015 2230	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	05/29/2015 2230				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,1,1,2-Tetrachloroethane	0.80	U	0.17	1.0
1,1,1-Trichloroethane	0.40	U	0.16	1.0
1,1,2,2-Tetrachloroethane	0.80	U	0.20	1.0
1,1,2-Trichloroethane	0.80	U	0.32	1.0
1,1-Dichloroethane	0.80	U	0.16	1.0
1,1-Dichloroethene	0.80	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.80	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.40	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.40	U	0.13	1.0
1,2-Dichloroethane	0.40	U	0.13	1.0
1,2-Dichloropropane	0.40	U	0.13	1.0
1,3,5-Trimethylbenzene	0.40	U	0.14	1.0
1,3-Dichlorobenzene	0.40	U	0.16	1.0
1,3-Dichloropropane	0.80	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	4.0	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	4.0	U	1.4	5.0
4-Chlorotoluene	0.80	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.40	U	0.16	1.0
Bromobenzene	0.40	U	0.17	1.0
Bromochloromethane	0.20	U	0.10	1.0
Bromodichloromethane	0.40	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.80	U	0.21	2.0
Carbon disulfide	1.6	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.40	U	0.16	1.0
Chloromethane	0.80	U	0.30	2.0
cis-1,2-Dichloroethene	0.40	U	0.15	1.0
cis-1,3-Dichloropropene	0.40	U	0.16	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Dibromomethane	0.40	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.40	U	0.16	1.0
1,2-Dibromoethane	0.40	U	0.18	1.0

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Method Blank - Batch: 280-279635

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-279635/6	Analysis Batch:	280-279635	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H3066.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	05/29/2015 2230	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	05/29/2015 2230				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Hexachlorobutadiene	0.80	U	0.36	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl tert-butyl ether	0.80	U	0.25	5.0
Methylene Chloride	0.80	U	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.80	U	0.32	1.0
N-Propylbenzene	0.40	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
p-Isopropyltoluene	0.40	U	0.17	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butyl alcohol	32	U	11	50
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.40	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.40	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.20	U	0.10	1.5

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	81 - 118
4-Bromofluorobenzene (Surr)	103	85 - 114
Dibromofluoromethane (Surr)	98	80 - 119
Toluene-d8 (Surr)	99	89 - 112

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Control Sample - Batch: 280-279635

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-279635/4	Analysis Batch:	280-279635	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H3064.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	05/29/2015 2145	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	05/29/2015 2145				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	5.00	5.12	102	78 - 124	
1,1,1-Trichloroethane	5.00	5.07	101	74 - 131	
1,1,2,2-Tetrachloroethane	5.00	4.54	91	71 - 121	
1,1,2-Trichloroethane	5.00	4.70	94	80 - 119	
1,1-Dichloroethane	5.00	4.93	99	77 - 125	
1,1-Dichloroethene	5.00	5.05	101	71 - 131	
1,1-Dichloropropene	5.00	5.31	106	79 - 125	
1,2,3-Trichlorobenzene	5.00	4.85	97	69 - 129	M
1,2,3-Trichloropropane	5.00	4.64	93	73 - 122	
1,2,4-Trichlorobenzene	5.00	4.97	99	69 - 130	M
1,2,4-Trimethylbenzene	5.00	4.72	94	76 - 124	
1,2-Dibromo-3-Chloropropane	5.00	4.88	98	62 - 128	J
1,2-Dichlorobenzene	5.00	4.81	96	80 - 119	
1,2-Dichloroethane	5.00	4.80	96	73 - 128	
1,2-Dichloropropane	5.00	4.89	98	78 - 122	
1,3,5-Trimethylbenzene	5.00	4.82	96	75 - 124	
1,3-Dichlorobenzene	5.00	4.64	93	80 - 119	
1,3-Dichloropropane	5.00	4.69	94	80 - 119	
1,4-Dichlorobenzene	5.00	5.04	101	79 - 118	
2,2-Dichloropropane	5.00	5.08	102	60 - 139	
2-Butanone (MEK)	20.0	20.5	103	56 - 143	
2-Chlorotoluene	5.00	4.83	97	79 - 122	
2-Hexanone	20.0	19.5	98	57 - 139	
4-Chlorotoluene	5.00	4.97	99	78 - 122	
4-Methyl-2-pentanone (MIBK)	20.0	20.8	104	67 - 130	
Acetone	20.0	18.8	94	39 - 160	
Benzene	5.00	5.15	103	79 - 120	
Bromobenzene	5.00	4.86	97	80 - 120	
Bromochloromethane	5.00	4.95	99	78 - 123	
Bromodichloromethane	5.00	4.77	95	79 - 125	
Bromoform	5.00	4.98	100	66 - 130	
Bromomethane	5.00	5.50	110	53 - 141	
Carbon disulfide	5.00	4.80	96	64 - 133	
Carbon tetrachloride	5.00	5.26	105	72 - 136	
Chlorobenzene	5.00	5.13	103	82 - 118	
Chloroethane	5.00	5.04	101	60 - 138	
Chloroform	5.00	4.99	100	79 - 124	
Chloromethane	5.00	4.98	100	50 - 139	
cis-1,2-Dichloroethene	5.00	5.07	101	78 - 123	
cis-1,3-Dichloropropene	5.00	5.15	103	75 - 124	
Chlorodibromomethane	5.00	4.92	98	74 - 126	
Dibromomethane	5.00	4.72	94	79 - 123	
Dichlorodifluoromethane	5.00	5.78	116	32 - 152	
Ethylbenzene	5.00	5.14	103	79 - 121	
1,2-Dibromoethane	5.00	4.95	99	77 - 121	
Hexachlorobutadiene	5.00	5.07	101	66 - 134	

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Control Sample - Batch: 280-279635

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-279635/4	Analysis Batch:	280-279635	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H3064.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	05/29/2015 2145	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	05/29/2015 2145				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isopropylbenzene	5.00	4.86	97	72 - 131	
Methyl tert-butyl ether	5.00	4.83	97	71 - 124	J
Methylene Chloride	5.00	5.13	103	74 - 124	
m-Xylene & p-Xylene	5.00	5.17	103	80 - 121	
Naphthalene	5.00	4.78	96	61 - 128	
n-Butylbenzene	5.00	4.79	96	75 - 128	
N-Propylbenzene	5.00	4.86	97	76 - 126	
o-Xylene	5.00	5.19	104	78 - 122	
p-Isopropyltoluene	5.00	4.99	100	77 - 127	
sec-Butylbenzene	5.00	4.85	97	77 - 126	
Styrene	5.00	4.98	100	78 - 123	
tert-Butyl alcohol	50.0	50.5	101	68 - 129	
tert-Butylbenzene	5.00	4.87	97	78 - 124	
Tetrachloroethene	5.00	5.28	106	74 - 129	
Toluene	5.00	5.03	101	80 - 121	
trans-1,2-Dichloroethene	5.00	5.22	104	75 - 124	
trans-1,3-Dichloropropene	5.00	5.18	104	73 - 127	
Trichloroethene	5.00	5.21	104	79 - 123	
Trichlorofluoromethane	5.00	5.48	110	65 - 141	
Vinyl chloride	5.00	5.23	105	58 - 137	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	81 - 118
4-Bromofluorobenzene (Surr)	91	85 - 114
Dibromofluoromethane (Surr)	96	80 - 119
Toluene-d8 (Surr)	104	89 - 112

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Duplicate - Batch: 280-278420

Method: D 2216
Preparation: N/A

Lab Sample ID:	280-69452-2	Analysis Batch:	280-278420	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/20/2015 1406	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	21	21	0.3	20	

DATA REPORTING QUALIFIERS

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

Client: GSI Environmental, Inc

Job Number: 280-69452-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-278246					
LCS 280-278302/2-A	Lab Control Sample	T	Solid	8260B	280-278302
MB 280-278302/1-A	Method Blank	T	Solid	8260B	280-278302
280-69452-3	54400-SB01-0515-5	T	Solid	8260B	280-278302
280-69452-4	54400-SB01-0515-12.5	T	Solid	8260B	280-278302
280-69452-5	54400-SB01-0515-15	T	Solid	8260B	280-278302
280-69452-6	54400-SB02-0515-0	T	Solid	8260B	280-278302
280-69452-7	54400-SB02-0515-2.5	T	Solid	8260B	280-278302
280-69452-8	54400-SB02-0515-10	T	Solid	8260B	280-278302
280-69452-9	54400-SB02-0515-15	T	Solid	8260B	280-278302
280-69452-10	54400-SB03-0515-0	T	Solid	8260B	280-278302
280-69452-11	54400-SB03-0515-5	T	Solid	8260B	280-278302
280-69452-12	54400-SB03-0515-10	T	Solid	8260B	280-278302
280-69452-13	54400-SB03-0515-15	T	Solid	8260B	280-278302
Prep Batch: 280-278302					
LCS 280-278302/2-A	Lab Control Sample	T	Solid	5035	
MB 280-278302/1-A	Method Blank	T	Solid	5035	
280-69452-3	54400-SB01-0515-5	T	Solid	5035	
280-69452-4	54400-SB01-0515-12.5	T	Solid	5035	
280-69452-5	54400-SB01-0515-15	T	Solid	5035	
280-69452-6	54400-SB02-0515-0	T	Solid	5035	
280-69452-7	54400-SB02-0515-2.5	T	Solid	5035	
280-69452-8	54400-SB02-0515-10	T	Solid	5035	
280-69452-9	54400-SB02-0515-15	T	Solid	5035	
280-69452-10	54400-SB03-0515-0	T	Solid	5035	
280-69452-11	54400-SB03-0515-5	T	Solid	5035	
280-69452-12	54400-SB03-0515-10	T	Solid	5035	
280-69452-13	54400-SB03-0515-15	T	Solid	5035	
Analysis Batch:280-278648					
LCS 280-278666/2-A	Lab Control Sample	T	Solid	8260B	280-278666
MB 280-278666/1-A	Method Blank	T	Solid	8260B	280-278666
280-69452-2	54400-SB01-0515-0	T	Solid	8260B	280-278666
Prep Batch: 280-278666					
LCS 280-278666/2-A	Lab Control Sample	T	Solid	5030B	
MB 280-278666/1-A	Method Blank	T	Solid	5030B	
280-69452-2	54400-SB01-0515-0	T	Solid	5030B	
Analysis Batch:280-279635					
LCS 280-279635/4	Lab Control Sample	T	Water	8260B	
MB 280-279635/6	Method Blank	T	Water	8260B	
280-69452-1TB	54403-TB16-0515-	T	Water	8260B	

Client: GSI Environmental, Inc

Job Number: 280-69452-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:280-278420					
280-69452-2	54400-SB01-0515-0	T	Solid	D 2216	
280-69452-2DU	Duplicate	T	Solid	D 2216	
280-69452-3	54400-SB01-0515-5	T	Solid	D 2216	
280-69452-4	54400-SB01-0515-12.5	T	Solid	D 2216	
280-69452-5	54400-SB01-0515-15	T	Solid	D 2216	
280-69452-6	54400-SB02-0515-0	T	Solid	D 2216	
280-69452-7	54400-SB02-0515-2.5	T	Solid	D 2216	
280-69452-8	54400-SB02-0515-10	T	Solid	D 2216	
280-69452-9	54400-SB02-0515-15	T	Solid	D 2216	
280-69452-10	54400-SB03-0515-0	T	Solid	D 2216	
280-69452-11	54400-SB03-0515-5	T	Solid	D 2216	
280-69452-12	54400-SB03-0515-10	T	Solid	D 2216	
280-69452-13	54400-SB03-0515-15	T	Solid	D 2216	

Report Basis
T = Total

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Laboratory Chronicle

Lab ID: 280-69452-1 **Client ID: 54403-TB16-0515-**

Sample Date/Time: 05/18/2015 00:00 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-69452-A-1		280-279635		05/29/2015 22:53	1	TAL DEN	BBB
A:8260B	280-69452-A-1		280-279635		05/29/2015 22:53	1	TAL DEN	BBB

Lab ID: 280-69452-2 **Client ID: 54400-SB01-0515-0**

Sample Date/Time: 05/18/2015 15:48 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-69452-A-2-A		280-278648	280-278666	05/21/2015 17:00	1	TAL DEN	ADD
A:8260B	280-69452-A-2-A		280-278648	280-278666	05/21/2015 19:01	1	TAL DEN	ADD
A:D 2216	280-69452-A-2		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-2 DU **Client ID: 54400-SB01-0515-0**

Sample Date/Time: 05/18/2015 15:48 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D 2216	280-69452-A-2 DU		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-3 **Client ID: 54400-SB01-0515-5**

Sample Date/Time: 05/18/2015 15:51 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-3-A		280-278246	280-278302	05/18/2015 15:51	1	TAL DEN	ADD
A:8260B	280-69452-C-3-A		280-278246	280-278302	05/19/2015 19:51	1	TAL DEN	ADD
A:D 2216	280-69452-A-3		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-4 **Client ID: 54400-SB01-0515-12.5**

Sample Date/Time: 05/18/2015 15:55 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-4-A		280-278246	280-278302	05/18/2015 15:55	1	TAL DEN	ADD
A:8260B	280-69452-C-4-A		280-278246	280-278302	05/19/2015 20:11	1	TAL DEN	ADD
A:D 2216	280-69452-A-4		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Laboratory Chronicle

Lab ID: 280-69452-5 **Client ID: 54400-SB01-0515-15**

Sample Date/Time: 05/18/2015 15:58 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-5-A		280-278246	280-278302	05/18/2015 15:58	1	TAL DEN	ADD
A:8260B	280-69452-C-5-A		280-278246	280-278302	05/19/2015 20:31	1	TAL DEN	ADD
A:D 2216	280-69452-A-5		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-6 **Client ID: 54400-SB02-0515-0**

Sample Date/Time: 05/18/2015 16:32 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-6-A		280-278246	280-278302	05/18/2015 16:32	1	TAL DEN	ADD
A:8260B	280-69452-C-6-A		280-278246	280-278302	05/19/2015 20:51	1	TAL DEN	ADD
A:D 2216	280-69452-A-6		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-7 **Client ID: 54400-SB02-0515-2.5**

Sample Date/Time: 05/18/2015 16:38 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-7-A		280-278246	280-278302	05/18/2015 16:38	1	TAL DEN	ADD
A:8260B	280-69452-C-7-A		280-278246	280-278302	05/19/2015 21:12	1	TAL DEN	ADD
A:D 2216	280-69452-A-7		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-8 **Client ID: 54400-SB02-0515-10**

Sample Date/Time: 05/18/2015 16:54 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-8-A		280-278246	280-278302	05/18/2015 16:54	1	TAL DEN	ADD
A:8260B	280-69452-C-8-A		280-278246	280-278302	05/19/2015 23:12	1	TAL DEN	ADD
A:D 2216	280-69452-A-8		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-9 **Client ID: 54400-SB02-0515-15**

Sample Date/Time: 05/18/2015 17:00 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-9-A		280-278246	280-278302	05/18/2015 17:00	1	TAL DEN	ADD
A:8260B	280-69452-C-9-A		280-278246	280-278302	05/19/2015 21:32	1	TAL DEN	ADD
A:D 2216	280-69452-A-9		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Laboratory Chronicle

Lab ID: 280-69452-10 **Client ID: 54400-SB03-0515-0**

Sample Date/Time: 05/18/2015 17:38 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-10-A		280-278246	280-278302	05/18/2015 17:38	1	TAL DEN	ADD
A:8260B	280-69452-C-10-A		280-278246	280-278302	05/19/2015 21:52	1	TAL DEN	ADD
A:D 2216	280-69452-A-10		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-11 **Client ID: 54400-SB03-0515-5**

Sample Date/Time: 05/18/2015 17:43 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-11-A		280-278246	280-278302	05/18/2015 17:43	1	TAL DEN	ADD
A:8260B	280-69452-C-11-A		280-278246	280-278302	05/19/2015 22:12	1	TAL DEN	ADD
A:D 2216	280-69452-A-11		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-12 **Client ID: 54400-SB03-0515-10**

Sample Date/Time: 05/18/2015 17:48 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-12-A		280-278246	280-278302	05/18/2015 17:48	1	TAL DEN	ADD
A:8260B	280-69452-C-12-A		280-278246	280-278302	05/19/2015 22:32	1	TAL DEN	ADD
A:D 2216	280-69452-A-12		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

Lab ID: 280-69452-13 **Client ID: 54400-SB03-0515-15**

Sample Date/Time: 05/18/2015 17:51 Received Date/Time: 05/19/2015 07:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	280-69452-C-13-A		280-278246	280-278302	05/18/2015 17:51	1	TAL DEN	ADD
A:8260B	280-69452-C-13-A		280-278246	280-278302	05/19/2015 22:52	1	TAL DEN	ADD
A:D 2216	280-69452-A-13		280-278420		05/20/2015 14:06	1	TAL DEN	AJF

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	MB 280-278302/1-A		280-278246	280-278302	05/19/2015 17:00	1	TAL DEN	ADD
A:8260B	MB 280-278302/1-A		280-278246	280-278302	05/19/2015 18:11	1	TAL DEN	ADD
P:5030B	MB 280-278666/1-A		280-278648	280-278666	05/21/2015 17:00	1	TAL DEN	ADD
A:8260B	MB 280-278666/1-A		280-278648	280-278666	05/21/2015 18:20	1	TAL DEN	ADD
P:5030B	MB 280-279635/6		280-279635		05/29/2015 22:30	1	TAL DEN	BBB
A:8260B	MB 280-279635/6		280-279635		05/29/2015 22:30	1	TAL DEN	BBB

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Laboratory Chronicle

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	LCS 280-278302/2-A		280-278246	280-278302	05/19/2015 17:00	1	TAL DEN	ADD
A:8260B	LCS 280-278302/2-A		280-278246	280-278302	05/19/2015 18:31	1	TAL DEN	ADD
P:5030B	LCS 280-278666/2-A		280-278648	280-278666	05/21/2015 17:00	1	TAL DEN	ADD
A:8260B	LCS 280-278666/2-A		280-278648	280-278666	05/21/2015 17:59	1	TAL DEN	ADD
P:5030B	LCS 280-279635/4		280-279635		05/29/2015 21:45	1	TAL DEN	BBB
A:8260B	LCS 280-279635/4		280-279635		05/29/2015 21:45	1	TAL DEN	BBB

Lab References:
TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-2cleve+AVA_00009	05/31/15	03/02/15	P&T Methanol, Lot 85233	20 mL	MV-567643_00008	400 uL	2-Chloroethyl vinyl ether	40 ug/mL
					MV-568720_00006	405 uL	Acrolein	399.938 ug/mL
					MV-569724_00001	320 uL	Vinyl acetate	80 ug/mL
.MV-567643_00008	02/29/16	RESTEK, Lot A093368			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
.MV-568720_00006	05/31/15	RESTEK, Lot A0108734			(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569724_00001	07/31/15	RESTEK, Lot A0108225			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
MV-568718-D_00002	12/31/18	RESTEK, Lot A099955			(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
MV-568718-D_00003	01/31/19	RESTEK, Lot A0100746			(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
MV-ARCH SS A_00042	09/30/15	03/30/15	P&T Methanol, Lot 85233	50 mL	MV-567650_00020	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MV-567650_00020	08/31/19	Restek, Lot A0105143			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-ARCH SS A_00044	10/21/15	04/21/15	P&T Methanol, Lot 85233	50 mL	MV-567650_00020	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MV-567650_00020	08/31/19	Restek, Lot A0105143			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-ARCH SS A_00045	11/01/15	05/01/15	P&T Methanol, Lot 85233	50 mL	MV-567650_00020	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MV-567650_00020	08/31/19	Restek, Lot A0105143			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-Gas/Ket A_00032	10/03/15	04/03/15	P&T Methanol, Lot 85233	10 mL	MV-567642_00018	160 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone (MIBK)	160 ug/mL
							Acetone	160 ug/mL
					MV-567645_00019	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	40 ug/mL
							Dichlorofluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-567648_00029	800 uL	Cyclohexanone	1600 ug/mL
.MV-567642_00018	02/29/16	RESTEK, Lot A093365			(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
.MV-567645_00019	09/30/16	RESTEK, Lot A0105755			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-567648_00029	12/31/17	RESTEK, Lot A0108012			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
MV-Gas/Ket A_00033	11/14/15	05/14/15	P&T Methanol, Lot 85233	10 mL	MV-567642_00018	160 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone (MIBK)	160 ug/mL
							Acetone	160 ug/mL
					MV-567645_00019	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Dichlorofluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-567648_00029	800 uL	Cyclohexanone	1600 ug/mL
.MV-567642_00018	02/29/16	RESTEK, Lot A093365			(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
.MV-567645_00019	09/30/16	RESTEK, Lot A0105755			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-567648_00029	12/31/17	RESTEK, Lot A0108012			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
MV-Gas/Ket B_00017	07/07/15	01/07/15	P&T Methanol, Lot 62345	10 mL	MV-567642.sec_00015	160 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone (MIBK)	160 ug/mL
							Acetone	160 ug/mL
					MV-567645.sec_00017	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MV-567642.sec_00015	02/28/17	RESTEK, Lot A0101295			(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
.MV-567645.sec_00017	11/30/15	RESTEK, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MV-Gas/Ket B_00019	10/29/15	04/29/15	P&T Methanol, Lot 85233	10 mL	MV-567642.sec_00016	160 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone (MIBK)	160 ug/mL
							Acetone	160 ug/mL
					MV-567645.sec_00017	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MV-567642.sec_00016	02/28/17	RESTEK, Lot A0101295			(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
.MV-567645.sec_00017	11/30/15	RESTEK, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MV-Main A_00022	07/16/15	01/16/15	P&T Methanol, Lot 62345	25 mL	MV-567641_00014	500 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	800 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							3-Chloro-1-propene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Acrylonitrile	400 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon disulfide	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chlorodibromomethane	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Cyclohexane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethyl ether	40 ug/mL
							Ethyl methacrylate	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexane	40 ug/mL
							Iodomethane	40 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	40 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							N-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	40 ug/mL
							tert-Butyl alcohol	400 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Tetrahydrofuran	80 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							trans-1,4-Dichloro-2-butene	40 ug/mL
							Trichloroethene	40 ug/mL
					MV-568034_00010	1000 uL	1-Chlorohexane	40 ug/mL
							2-Pentanone	160 ug/mL
							sec-Butyl Alcohol	1200 ug/mL
.MV-567641_00014	02/29/16		RESTEK, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
.MV-568034_00010	01/31/16	RESTEK, Lot A0104827			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-Main B_00010	10/20/15	04/20/15	P&T Methanol, Lot 85233	20 mL	MV-567641.sec_00010	400 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon disulfide	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chlorodibromomethane	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							N-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butyl alcohol	400 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MV-567641.sec_00010	02/29/16		RESTEK, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
MV-Supp A_00011	06/30/15	02/03/15	P&T Methanol, Lot 85233	10 mL	MV-568036_00007	400 uL	cis-1,4-Dichloro-2-butene	40 ug/mL
					mv-569725_00001	160 uL	1,2,3-Trimethylbenzene	40 ug/mL
							2-Chloro-1,3-butadiene	40 ug/mL
							2-Nitropropane	80 ug/mL
							Ethyl acetate	80 ug/mL
							Isopropyl alcohol	400 ug/mL
							Methacrylonitrile	400 ug/mL
							Methyl methacrylate	80 ug/mL
							n-Butanol	1000 ug/mL
					mv-569728_00001	200 uL	Acetonitrile	500 ug/mL
							Ethanol	2000 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.MV-568036_00007	12/31/15	RESTEK, Lot A0104018			(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL
.mv-569725_00001	07/31/15	Restek, Lot A0108219			(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Ethyl acetate	5000 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butanol	62500 ug/mL
.mv-569728_00001	01/31/17	RESTEK, Lot A0108216			(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL

RESTEK

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641.sec – 0001D **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 76-13-1.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
3	1,1-Dichloroethene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-35-4.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0.SEC		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 74-88-4.SEC		+/- 44.2540	µg/mL	Unstressed
	Purity 97%		+/- 44.4344	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9.SEC		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

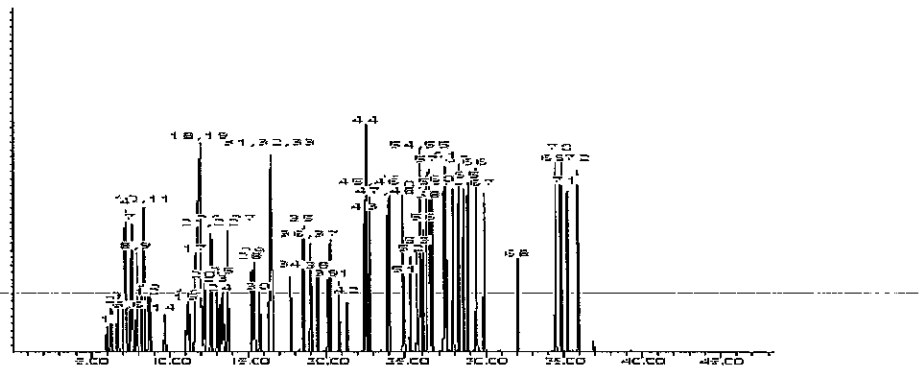
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

received 6/2/14

Catalog No. : 567641 — 00014 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/- 11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/- 44.2519	µg/mL	Unstressed
	Purity 97%		+/- 44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642.SEC –00015 **Lot No.:** A0101295

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		10,015.2 µg/mL	+/- 58.6412	µg/mL	Gravimetric
	CAS # 67-64-1.SEC	(Lot 0902033)		+/- 533.0320	µg/mL	Unstressed
	Purity 99%			+/- 533.6197	µg/mL	Stressed
2	2-Butanone (MEK)		10,010.0 µg/mL	+/- 58.6108	µg/mL	Gravimetric
	CAS # 78-93-3.SEC	(Lot VEGGI)		+/- 532.7553	µg/mL	Unstressed
	Purity 99%			+/- 533.3427	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		10,012.4 µg/mL	+/- 58.6248	µg/mL	Gravimetric
	CAS # 108-10-1.SEC	(Lot E29T040)		+/- 532.8830	µg/mL	Unstressed
	Purity 99%			+/- 533.4706	µg/mL	Stressed
4	2-Hexanone		10,016.4 µg/mL	+/- 58.6482	µg/mL	Gravimetric
	CAS # 591-78-6.SEC	(Lot ZSVCD-FF)		+/- 533.0959	µg/mL	Unstressed
	Purity 99%			+/- 533.6837	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

6x/mL
REC 4/20/15 GM

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Catalog No. : 567642.SEC **Lot No.:** A0101295

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone		10,015.2	µg/mL	+/-	58.6412	µg/mL	Gravimetric
	CAS # 67-64-1.SEC	(Lot 0902033)			+/-	533.0320	µg/mL	Unstressed
	Purity 99%				+/-	533.6197	µg/mL	Stressed
2	2-Butanone (MEK)		10,010.0	µg/mL	+/-	58.6108	µg/mL	Gravimetric
	CAS # 78-93-3.SEC	(Lot VEGGI)			+/-	532.7553	µg/mL	Unstressed
	Purity 99%				+/-	533.3427	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		10,012.4	µg/mL	+/-	58.6248	µg/mL	Gravimetric
	CAS # 108-10-1.SEC	(Lot E29T040)			+/-	532.8830	µg/mL	Unstressed
	Purity 99%				+/-	533.4706	µg/mL	Stressed
4	2-Hexanone		10,016.4	µg/mL	+/-	58.6482	µg/mL	Gravimetric
	CAS # 591-78-6.SEC	(Lot ZSVCD-FF)			+/-	533.0959	µg/mL	Unstressed
	Purity 99%				+/-	533.6837	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

6x/mL
REC 1/6/15
Gm

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 ml **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	10,000.0	µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 67-64-1			+/-	798.6896	µg/mL	Unstressed
	Purity 99%			+/-	799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0	µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 78-93-3			+/-	798.6896	µg/mL	Unstressed
	Purity 99%			+/-	799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0	µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 108-10-1			+/-	798.6896	µg/mL	Unstressed
	Purity 99%			+/-	799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0	µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 591-78-6			+/-	798.6896	µg/mL	Unstressed
	Purity 99%			+/-	799.0807	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

2x1mL
REC 10/23/13
Gm

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Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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Catalog No. : 567645.sec — 00017 **Lot No.:** A099261

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 18348) **Purity** 99%	2,002.2 µg/mL	+/- 16.7616 +/- 21.2987 +/- 24.7536	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,000.6 µg/mL	+/- 15.8216 +/- 21.2729 +/- 24.7262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,001.9 µg/mL	+/- 14.6785 +/- 21.2759 +/- 24.7329	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 18349) **Purity** 99%	2,002.8 µg/mL	+/- 16.7307 +/- 21.3051 +/- 24.7611	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	1,999.6 µg/mL	+/- 16.2313 +/- 21.2671 +/- 24.7183	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot Q18B-13) **Purity** 99%	2,001.0 µg/mL	+/- 14.6721 +/- 21.2666 +/- 24.7221	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4.SEC (Lot SHBC0858V) **Purity** 99%	2,004.4 µg/mL	+/- 15.1665 +/- 21.3071 +/- 24.7678	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4.SEC (Lot Q139-99) **Purity** 99%	2,001.8 µg/mL	+/- 16.2157 +/- 21.2894 +/- 24.7442	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

2x/mL REC 1/6/15

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645 **Lot No.:** A0105755

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	1,996.9 µg/mL	+/- 16.4920	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot Q16A-86)		+/- 25.3820	µg/mL	Unstressed
	Purity 99%		+/- 28.4359	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,003.6 µg/mL	+/- 13.5945	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBC8470V)		+/- 23.6556	µg/mL	Unstressed
	Purity 99%		+/- 26.9268	µg/mL	Stressed
3	Vinyl chloride	2,001.1 µg/mL	+/- 27.3546	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 17542)		+/- 33.4976	µg/mL	Unstressed
	Purity 99%		+/- 35.8765	µg/mL	Stressed
4	1,3-Butadiene	1,999.9 µg/mL	+/- 23.4547	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBD5808V)		+/- 30.3891	µg/mL	Unstressed
	Purity 99%		+/- 32.9901	µg/mL	Stressed
5	Bromomethane (methyl bromide)	1,998.7 µg/mL	+/- 30.0266	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 35.7004	µg/mL	Unstressed
	Purity 99%		+/- 37.9363	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.1 µg/mL	+/- 18.0935	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot SHBD1717V)		+/- 26.4730	µg/mL	Unstressed
	Purity 99%		+/- 29.4228	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	1,999.1 µg/mL	+/- 17.9677	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot Q9B-58)		+/- 26.3801	µg/mL	Unstressed
	Purity 99%		+/- 29.3364	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.1 µg/mL	+/- 24.2299	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/- 30.9989	µg/mL	Unstressed
	Purity 99%		+/- 33.5557	µg/mL	Stressed

3x/mL REC 2/24/15
Gm

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Catalog No. : 567648 **Lot No.:** A0108012

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2017 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone		20,022.0 µg/mL	+/- 117.2332 µg/mL	Gravimetric
	CAS # 108-94-1	(Lot MKBP7869V)		+/- 1,065.6170 µg/mL	Unstressed
	Purity 99%			+/- 1,066.7919 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

5 x 15mL
REC 12/29/14

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Catalog No. : 567650 **Lot No.:** A0105143

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dibromofluoromethane		2,512.4	µg/mL	+/-	14.6073	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 022013)			+/-	28.3309	µg/mL	Unstressed
	Purity 99%				+/-	32.6007	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,506.0	µg/mL	+/-	14.5701	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot 14C-191)			+/-	28.2587	µg/mL	Unstressed
	Purity 99%				+/-	32.5176	µg/mL	Stressed
3	Toluene-d8		2,499.8	µg/mL	+/-	14.5341	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot 14C-176)			+/-	28.1888	µg/mL	Unstressed
	Purity 99%				+/-	32.4372	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,500.4	µg/mL	+/-	14.5375	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)			+/-	28.1956	µg/mL	Unstressed
	Purity 99%				+/-	32.4450	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

8x/mL
REC 8/1/14

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Catalog No. : 568034 **Lot No.:** A0104827

Description : Denver Main Add Ons Standard

Denver Main Add Ons Standard 1,000-30,000 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Chlorohexane	1,000.0 µg/mL	+/- 10.0737 µg/mL	Gravimetric
	CAS # 544-10-5 (Lot 05107LK)		+/- 53.8499 µg/mL	Unstressed
	Purity 99%		+/- 53.9079 µg/mL	Stressed
2	2-Butanol (sec-butyl alcohol)	30,020.0 µg/mL	+/- 277.8107 µg/mL	Gravimetric
	CAS # 78-92-2 (Lot 50296KKV)		+/- 1,612.1523 µg/mL	Unstressed
	Purity 99%		+/- 1,613.8982 µg/mL	Stressed
3	2-Pentanone	4,004.0 µg/mL	+/- 37.2350 µg/mL	Gravimetric
	CAS # 107-87-9 (Lot 1399841)		+/- 215.0566 µg/mL	Unstressed
	Purity 99%		+/- 215.2894 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

F. Joseph Tallon - Mix Technician **Date Mixed:** 22-Jul-2014 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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Catalog No. : 568036 — 0007 **Lot No.:** A0104018

Description : Denver Supp Add Ons Standard #2

Denver Supp Add Ons Standard #2 1,000 µg/ml, P&T Methanol, 1 ml/ampul

received 6/18/14

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	cis-1,4-Dichloro-2-butene **CAS #** 1476-11-5 (Lot SHBD5650V) **Purity** 97%	1,001.0 µg/mL	+/- 10.0842 µg/mL +/- 13.9728 µg/mL +/- 15.3799 µg/mL	Gravimetric Unstressed Stressed
2	Tetrahydrothiophene **CAS #** 110-01-0 (Lot 08905ED) **Purity** 99%	1,000.0 µg/mL	+/- 10.0737 µg/mL +/- 13.9583 µg/mL +/- 15.3639 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Kendra Swope - Mix Technician **Date Mixed:** 13-Jun-2014 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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received 6/5/14

Catalog No. : 568718-D-00002 **Lot No.:** A099955

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 (Lot C158P9) Purity 99%	5,022.0 µg/mL	+/- 29.4049 +/- 106.5603 +/- 107.0326	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 CAS # 24313-50-6 (Lot M276P8) Purity 99%	1,251.0 µg/mL	+/- 7.3416 +/- 26.5492 +/- 26.6668	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene CAS # 462-06-6 (Lot 1380033) Purity 99%	251.5 µg/mL	+/- 1.4938 +/- 5.3424 +/- 5.3660	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 (Lot 11C-596) Purity 99%	5,002.0 µg/mL	+/- 29.2878 +/- 106.1359 +/- 106.6064	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-22736) Purity 99%	251.0 µg/mL	+/- 1.4909 +/- 5.3318 +/- 5.3554	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	251.0 µg/mL	+/- 1.4909 +/- 5.3318 +/- 5.3554	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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Catalog No. : 568718 — 00003 **Lot No.:** A0100746

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol		5,001.8 µg/mL	+/- 29.0809	µg/mL	Gravimetric
	CAS # 25725-11-5	(Lot C158P15)		+/- 106.0751	µg/mL	Unstressed
	Purity 99%			+/- 106.5458	µg/mL	Stressed
2	2-Butanone-d5		1,250.8 µg/mL	+/- 7.2891	µg/mL	Gravimetric
	CAS # 24313-50-6	(Lot M276P11)		+/- 26.5308	µg/mL	Unstressed
	Purity 99%			+/- 26.6485	µg/mL	Stressed
3	Fluorobenzene		250.4 µg/mL	+/- 1.4771	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot 1380033)		+/- 5.3162	µg/mL	Unstressed
	Purity 99%			+/- 5.3397	µg/mL	Stressed
4	1,4-Dioxane-d8		5,002.4 µg/mL	+/- 29.0844	µg/mL	Gravimetric
	CAS # 17647-74-4	(Lot 11C-596)		+/- 106.0878	µg/mL	Unstressed
	Purity 99%			+/- 106.5585	µg/mL	Stressed
5	Chlorobenzene-d5		251.2 µg/mL	+/- 1.4819	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)		+/- 5.3332	µg/mL	Unstressed
	Purity 99%			+/- 5.3568	µg/mL	Stressed
6	1,4-Dichlorobenzene-d4		250.2 µg/mL	+/- 1.4760	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 5.3120	µg/mL	Unstressed
	Purity 99%			+/- 5.3355	µg/mL	Stressed

Rec 3/2/15 GM
2x 1mL

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Catalog No. : 568720 **Lot No.:** A0108734

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

Container Size : ~~2 mL~~ **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,890.0 µg/mL	+/- 116.4603	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 150115JLM)		+/- 637.7359	µg/mL	Unstressed
	Purity 99%			+/- 741.2982	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

4x1mL
REC 2/23/15 GM

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Catalog No. : 569724 **Lot No.:** A0108225

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate **CAS #** 108-05-4 (Lot STBC8935V) **Purity** 99%	5,000.0 µg/mL	+/- 29.3428 µg/mL		Gravimetric
			+/- 266.1189 µg/mL		Unstressed
			+/- 266.4123 µg/mL		Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

4x1mL
REC 2/3/15 Cm

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Catalog No. : 569725 **Lot No.:** A0108219

Description : 8260 List 2/ Std #1 Additions (2015)

8260 List 2/ Std #1 Additions (2015) 2500-62,500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol)	25,013.0 µg/mL	+/- 146.4566 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBC9345V)		+/- 1,331.2495 µg/mL	Unstressed
	Purity 99%		+/- 1,332.7173 µg/mL	Stressed
2	Chloroprene (2-chloro-1,3-butadiene)	2,500.0 µg/mL	+/- 33.4403 µg/mL	Gravimetric
	CAS # 126-99-8 (Lot 140611JLM)		+/- 136.4105 µg/mL	Unstressed
	Purity 99%		+/- 136.5536 µg/mL	Stressed
3	Ethyl acetate	5,001.5 µg/mL	+/- 29.2849 µg/mL	Gravimetric
	CAS # 141-78-6 (Lot SHBF1248V)		+/- 266.1914 µg/mL	Unstressed
	Purity 99%		+/- 266.4849 µg/mL	Stressed
4	Methacrylonitrile	25,011.0 µg/mL	+/- 146.4449 µg/mL	Gravimetric
	CAS # 126-98-7 (Lot 1012014)		+/- 1,331.1430 µg/mL	Unstressed
	Purity 99%		+/- 1,332.6108 µg/mL	Stressed
5	2,2,4-Trimethylpentane (isooctane)	2,505.5 µg/mL	+/- 14.7037 µg/mL	Gravimetric
	CAS # 540-84-1 (Lot SHBB2470V)		+/- 133.3522 µg/mL	Unstressed
	Purity 99%		+/- 133.4992 µg/mL	Stressed
6	1-Butanol	62,530.5 µg/mL	+/- 366.1109 µg/mL	Gravimetric
	CAS # 71-36-3 (Lot SHBF1679V)		+/- 3,328.0152 µg/mL	Unstressed
	Purity 99%		+/- 3,331.6847 µg/mL	Stressed
7	1,4-Difluorobenzene	2,514.0 µg/mL	+/- 14.7536 µg/mL	Gravimetric
	CAS # 540-36-3 (Lot MKBN8571V)		+/- 133.8046 µg/mL	Unstressed
	Purity 99%		+/- 133.9521 µg/mL	Stressed

8	Ethyl acrylate		2,508.0	µg/mL	+/-	14.7183	µg/mL	Gravimetric
	CAS # 140-88-5	(Lot 10129902)			+/-	133.4852	µg/mL	Unstressed
	Purity 99%				+/-	133.6324	µg/mL	Stressed
9	Methyl methacrylate		5,005.5	µg/mL	+/-	29.3083	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot STBD4840V)			+/-	266.4042	µg/mL	Unstressed
	Purity 99%				+/-	266.6980	µg/mL	Stressed
10	2-Nitropropane		5,008.6	µg/mL	+/-	29.3264	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCBJ4343V)			+/-	266.5690	µg/mL	Unstressed
	Purity 97%				+/-	266.8629	µg/mL	Stressed
11	Butyl acetate		2,503.5	µg/mL	+/-	14.6919	µg/mL	Gravimetric
	CAS # 123-86-4	(Lot SHBF4442V)			+/-	133.2457	µg/mL	Unstressed
	Purity 99%				+/-	133.3926	µg/mL	Stressed
12	1-Chlorohexane		2,503.4	µg/mL	+/-	14.6914	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot 05107LK)			+/-	133.2409	µg/mL	Unstressed
	Purity 98%				+/-	133.3878	µg/mL	Stressed
13	1,2,3-Trimethylbenzene		2,506.0	µg/mL	+/-	14.7066	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-14)			+/-	133.3785	µg/mL	Unstressed
	Purity 97%				+/-	133.5256	µg/mL	Stressed
14	Benzyl chloride		2,501.0	µg/mL	+/-	14.6773	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/-	133.1127	µg/mL	Unstressed
	Purity 99%				+/-	133.2594	µg/mL	Stressed
15	1,3,5-Trichlorobenzene		2,504.5	µg/mL	+/-	14.6978	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	133.2989	µg/mL	Unstressed
	Purity 99%				+/-	133.4459	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

4x/mL
REC 2/3/15 Gne

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Catalog No. : 569728 **Lot No.:** A0108216

Description : 8260 List 3/ Std#1 Polar Additions (2015)

8260 List 3/ Std#1 Polar Additions (2015) 2500-100,000 µg/ml, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol		100,006.7 µg/mL	+/- 585.5308 µg/mL	Gravimetric
	CAS # 64-17-5	(Lot PG0219)		+/- 3,484.8988 µg/mL	Unstressed
	Purity 99%			+/- 3,604.3075 µg/mL	Stressed
2	Acetonitrile		25,004.7 µg/mL	+/- 146.4078 µg/mL	Gravimetric
	CAS # 75-05-8	(Lot SHBB3177V)		+/- 871.3305 µg/mL	Unstressed
	Purity 99%			+/- 901.1862 µg/mL	Stressed
3	Diisopropyl ether (DIPE)		2,501.3 µg/mL	+/- 14.6792 µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBB6268V)		+/- 87.1689 µg/mL	Unstressed
	Purity 99%			+/- 90.1553 µg/mL	Stressed
4	Ethyl-tert-butyl ether (ETBE)		2,500.7 µg/mL	+/- 14.6753 µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKBR1623V)		+/- 87.1456 µg/mL	Unstressed
	Purity 99%			+/- 90.1313 µg/mL	Stressed
5	Propionitrile		25,001.3 µg/mL	+/- 146.3883 µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBK0700V)		+/- 871.2144 µg/mL	Unstressed
	Purity 99%			+/- 901.0661 µg/mL	Stressed
6	tert-Amyl alcohol		25,006.0 µg/mL	+/- 146.4156 µg/mL	Gravimetric
	CAS # 75-85-4	(Lot STBB1898V)		+/- 871.3770 µg/mL	Unstressed
	Purity 99%			+/- 901.2343 µg/mL	Stressed
7	tert-Amyl methyl ether (TAME)		2,502.0 µg/mL	+/- 14.6831 µg/mL	Gravimetric
	CAS # 994-05-8	(Lot OS1028/4V)		+/- 87.1921 µg/mL	Unstressed
	Purity 99%			+/- 90.1793 µg/mL	Stressed

Certification Summary

Client: GSI Environmental, Inc
Project/Site: GSI - McConnell Air Force Base, Kansas

TestAmerica Job ID: 280-69452-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alaska (UST)	State Program	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas DEQ	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAP	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Illinois	NELAP	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAP	7	E-10166
TestAmerica Denver	Louisiana	NELAP	6	02096
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Minnesota	NELAP	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAP	1	205310
TestAmerica Denver	New Jersey	NELAP	2	CO004
TestAmerica Denver	New York	NELAP	2	11964
TestAmerica Denver	North Carolina (WW/SW)	State Program	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAP	10	4025
TestAmerica Denver	Pennsylvania	NELAP	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002001
TestAmerica Denver	Texas	NELAP	6	T104704183-13-8
TestAmerica Denver	USDA	Federal		P330-13-00202
TestAmerica Denver	Utah	NELAP	8	CO00026
TestAmerica Denver	Virginia	NELAP	3	460232
TestAmerica Denver	Washington	State Program	10	C583
TestAmerica Denver	West Virginia DEP	State Program	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430
TestAmerica Denver	Wyoming (UST)	A2LA	8	2907.01

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 Denver Job No.: 280-69452-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 (75. ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
54400-SB01-0515-0	280-69452-2	98	93	97	97
54400-SB01-0515-5	280-69452-3	101	103	98	95
54400-SB01-0515-12.5	280-69452-4	103	107	98	96
54400-SB01-0515-15	280-69452-5	104	105	100	97
54400-SB02-0515-0	280-69452-6	100	104	100	94
54400-SB02-0515-2.5	280-69452-7	101	103	101	93
54400-SB02-0515-10	280-69452-8	103	105	101	99
54400-SB02-0515-15	280-69452-9	106	110	108	107
54400-SB03-0515-0	280-69452-10	103	107	99	98
54400-SB03-0515-5	280-69452-11	101	102	101	97
54400-SB03-0515-10	280-69452-12	100	103	98	94
54400-SB03-0515-15	280-69452-13	100	106	100	95
	MB 280-278302/1-A	98	96	99	94
	MB 280-278666/1-A	102	99	102	96
	LCS 280-278302/2-A	94	93	95	91
	LCS 280-278666/2-A	102	97	95	101

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-119
DCA = 1,2-Dichloroethane-d4 (Surr)	71-136
TOL = Toluene-d8 (Surr)	85-116
BFB = 4-Bromofluorobenzene (Surr)	79-119

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 (75. ID: 0.53(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
54403-TB16-0515-	280-69452-1	96	86	102	101
	MB 280-279635/6	98	93	99	103
	LCS 280-279635/4	96	97	104	91

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: J6850.D

Lab ID: LCS 280-278302/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	56.3	113	78-125	
1,1,1-Trichloroethane	50.0	56.4	113	73-130	
1,1,2,2-Tetrachloroethane	50.0	58.1	116	70-124	
1,1,2-Trichloroethane	50.0	56.9	114	78-121	
1,1-Dichloroethane	50.0	55.1	110	76-125	
1,1-Dichloroethene	50.0	50.6	101	70-131	
1,1-Dichloropropene	50.0	57.7	115	76-125	
1,2,3-Trichlorobenzene	50.0	55.8	112	66-130	
1,2,3-Trichloropropane	50.0	60.5	121	73-125	
1,2,4-Trichlorobenzene	50.0	56.0	112	67-129	
1,2,4-Trimethylbenzene	50.0	52.6	105	75-123	
1,2-Dibromo-3-Chloropropane	50.0	55.8	112	61-132	
1,2-Dichlorobenzene	50.0	55.3	111	78-121	
1,2-Dichloroethane	50.0	55.5	111	73-128	
1,2-Dichloropropane	50.0	53.6	107	76-123	
1,3,5-Trimethylbenzene	50.0	55.2	110	73-124	
1,3-Dichlorobenzene	50.0	54.4	109	77-121	
1,3-Dichloropropane	50.0	56.4	113	77-121	
1,4-Dichlorobenzene	50.0	55.3	111	75-120	
2,2-Dichloropropane	50.0	50.7	101	67-133	
2-Butanone (MEK)	200	204	102	51-148	
2-Chlorotoluene	50.0	56.3	113	75-122	
2-Hexanone	200	226	113	53-145	
4-Chlorotoluene	50.0	55.1	110	72-124	
4-Methyl-2-pentanone (MIBK)	200	215	108	65-135	
Acetone	200	193	96	36-164	
Benzene	50.0	54.5	109	77-121	
Bromobenzene	50.0	55.6	111	78-121	
Bromochloromethane	50.0	55.4	111	78-125	
Bromodichloromethane	50.0	56.4	113	75-127	
Bromoform	50.0	52.0	104	67-132	
Bromomethane	50.0	42.4	85	53-143	
Carbon disulfide	50.0	54.0	108	63-132	
Carbon tetrachloride	50.0	57.6	115	70-135	
Chlorobenzene	50.0	55.3	111	79-120	
Chloroethane	50.0	42.0	84	59-139	
Chloroform	50.0	55.0	110	78-123	
Chloromethane	50.0	39.5	79	50-136	
cis-1,2-Dichloroethene	50.0	53.9	108	77-123	
Chlorodibromomethane	50.0	60.4	121	74-126	
cis-1,3-Dichloropropene	50.0	56.8	114	74-126	
Dibromomethane	50.0	57.9	116	78-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: J6850.D

Lab ID: LCS 280-278302/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	50.0	45.1	90	29-149	
Ethylbenzene	50.0	53.0	106	76-122	
1,2-Dibromoethane	50.0	58.0	116	78-122	
Hexachlorobutadiene	50.0	51.6	103	61-135	
Isopropylbenzene	50.0	55.0	110	68-134	
Methyl tert-butyl ether	50.0	55.6	111	73-125	
Methylene Chloride	50.0	53.5	107	70-128	
m-Xylene & p-Xylene	50.0	58.0	116	77-124	
Naphthalene	50.0	57.8	116	62-129	
n-Butylbenzene	50.0	54.3	109	70-128	
N-Propylbenzene	50.0	53.9	108	73-125	
o-Xylene	50.0	51.7	103	77-123	
p-Isopropyltoluene	50.0	54.6	109	73-127	
sec-Butylbenzene	50.0	54.8	110	73-126	
Styrene	50.0	55.3	111	76-124	
tert-Butyl alcohol	500	541	108	68-133	
tert-Butylbenzene	50.0	53.6	107	73-125	
Tetrachloroethene	50.0	53.9	108	73-128	
Toluene	50.0	53.8	108	77-121	
trans-1,2-Dichloroethene	50.0	54.4	109	74-125	
trans-1,3-Dichloropropene	50.0	58.4	117	71-130	
Trichloroethene	50.0	54.2	108	77-123	
Trichlorofluoromethane	50.0	42.8	86	62-140	
Vinyl chloride	50.0	39.1	78	56-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: J6915.D

Lab ID: LCS 280-278666/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.3	99	78-125	
1,1,1-Trichloroethane	50.0	52.9	106	73-130	
1,1,2,2-Tetrachloroethane	50.0	50.4	101	70-124	
1,1,2-Trichloroethane	50.0	50.4	101	78-121	
1,1-Dichloroethane	50.0	51.1	102	76-125	
1,1-Dichloroethene	50.0	48.7	97	70-131	
1,1-Dichloropropene	50.0	53.6	107	76-125	
1,2,3-Trichlorobenzene	50.0	49.6	99	66-130	
1,2,3-Trichloropropane	50.0	51.9	104	73-125	
1,2,4-Trichlorobenzene	50.0	50.3	101	67-129	
1,2,4-Trimethylbenzene	50.0	48.6	97	75-123	
1,2-Dibromo-3-Chloropropane	50.0	46.4	93	61-132	
1,2-Dichlorobenzene	50.0	49.8	100	78-121	
1,2-Dichloroethane	50.0	50.4	101	73-128	
1,2-Dichloropropane	50.0	48.8	98	76-123	
1,3,5-Trimethylbenzene	50.0	49.8	100	73-124	
1,3-Dichlorobenzene	50.0	50.6	101	77-121	
1,3-Dichloropropane	50.0	46.7	93	77-121	
1,4-Dichlorobenzene	50.0	49.6	99	75-120	
2,2-Dichloropropane	50.0	46.9	94	67-133	
2-Butanone (MEK)	200	202	101	51-148	
2-Chlorotoluene	50.0	48.9	98	75-122	
2-Hexanone	200	210	105	53-145	
4-Chlorotoluene	50.0	52.5	105	72-124	
4-Methyl-2-pentanone (MIBK)	200	212	106	65-135	
Acetone	200	203	102	36-164	
Benzene	50.0	49.1	98	77-121	
Bromobenzene	50.0	50.5	101	78-121	
Bromochloromethane	50.0	51.4	103	78-125	
Bromodichloromethane	50.0	51.5	103	75-127	
Bromoform	50.0	44.5	89	67-132	
Bromomethane	50.0	51.0	102	53-143	
Carbon disulfide	50.0	48.3	97	63-132	
Carbon tetrachloride	50.0	54.5	109	70-135	
Chlorobenzene	50.0	47.3	95	79-120	
Chloroethane	50.0	52.7	105	59-139	
Chloroform	50.0	51.5	103	78-123	
Chloromethane	50.0	49.7	99	50-136	
cis-1,2-Dichloroethene	50.0	49.3	99	77-123	
cis-1,3-Dichloropropene	50.0	48.8	98	74-126	
Dibromochloromethane	50.0	51.4	103	74-126	
Dibromomethane	50.0	51.8	104	78-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: J6915.D

Lab ID: LCS 280-278666/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	50.0	56.3	113	29-149	
Ethylbenzene	50.0	47.0	94	76-122	
Ethylene Dibromide	50.0	48.5	97	78-122	
Hexachlorobutadiene	50.0	49.1	98	61-135	
Isopropylbenzene	50.0	49.7	99	68-134	
Methyl tert-butyl ether	50.0	50.0	100	73-125	
Methylene Chloride	50.0	49.5	99	70-128	
m-Xylene & p-Xylene	50.0	48.3	97	77-124	
Naphthalene	50.0	49.6	99	62-129	
n-Butylbenzene	50.0	49.1	98	70-128	
N-Propylbenzene	50.0	49.8	100	73-125	
4-Isopropyltoluene	50.0	49.4	99	73-127	
o-Xylene	50.0	44.5	89	77-123	
sec-Butylbenzene	50.0	50.0	100	73-126	
Styrene	50.0	46.9	94	76-124	
tert-Butyl alcohol	500	535	107	68-133	
tert-Butylbenzene	50.0	49.0	98	73-125	
Tetrachloroethene	50.0	47.1	94	73-128	
Toluene	50.0	50.3	101	77-121	
trans-1,2-Dichloroethene	50.0	50.5	101	74-125	
trans-1,3-Dichloropropene	50.0	52.2	104	71-130	
Trichloroethene	50.0	49.8	100	77-123	
Trichlorofluoromethane	50.0	51.6	103	62-140	
Vinyl chloride	50.0	51.6	103	56-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H3064.D

Lab ID: LCS 280-279635/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.12	102	78-124	
1,1,1-Trichloroethane	5.00	5.07	101	74-131	
1,1,2,2-Tetrachloroethane	5.00	4.54	91	71-121	
1,1,2-Trichloroethane	5.00	4.70	94	80-119	
1,1-Dichloroethane	5.00	4.93	99	77-125	
1,1-Dichloroethene	5.00	5.05	101	71-131	
1,1-Dichloropropene	5.00	5.31	106	79-125	
1,2,3-Trichlorobenzene	5.00	4.85	97	69-129	M
1,2,3-Trichloropropane	5.00	4.64	93	73-122	
1,2,4-Trichlorobenzene	5.00	4.97	99	69-130	M
1,2,4-Trimethylbenzene	5.00	4.72	94	76-124	
1,2-Dibromo-3-Chloropropane	5.00	4.88 J	98	62-128	
1,2-Dichlorobenzene	5.00	4.81	96	80-119	
1,2-Dichloroethane	5.00	4.80	96	73-128	
1,2-Dichloropropane	5.00	4.89	98	78-122	
1,3,5-Trimethylbenzene	5.00	4.82	96	75-124	
1,3-Dichlorobenzene	5.00	4.64	93	80-119	
1,3-Dichloropropane	5.00	4.69	94	80-119	
1,4-Dichlorobenzene	5.00	5.04	101	79-118	
2,2-Dichloropropane	5.00	5.08	102	60-139	
2-Butanone (MEK)	20.0	20.5	103	56-143	
2-Chlorotoluene	5.00	4.83	97	79-122	
2-Hexanone	20.0	19.5	98	57-139	
4-Chlorotoluene	5.00	4.97	99	78-122	
4-Methyl-2-pentanone (MIBK)	20.0	20.8	104	67-130	
Acetone	20.0	18.8	94	39-160	
Benzene	5.00	5.15	103	79-120	
Bromobenzene	5.00	4.86	97	80-120	
Bromochloromethane	5.00	4.95	99	78-123	
Bromodichloromethane	5.00	4.77	95	79-125	
Bromoform	5.00	4.98	100	66-130	
Bromomethane	5.00	5.50	110	53-141	
Carbon disulfide	5.00	4.80	96	64-133	
Carbon tetrachloride	5.00	5.26	105	72-136	
Chlorobenzene	5.00	5.13	103	82-118	
Chloroethane	5.00	5.04	101	60-138	
Chloroform	5.00	4.99	100	79-124	
Chloromethane	5.00	4.98	100	50-139	
cis-1,2-Dichloroethene	5.00	5.07	101	78-123	
Chlorodibromomethane	5.00	4.92	98	74-126	
cis-1,3-Dichloropropene	5.00	5.15	103	75-124	
Dibromomethane	5.00	4.72	94	79-123	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H3064.D

Lab ID: LCS 280-279635/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	5.00	5.78	116	32-152	
Ethylbenzene	5.00	5.14	103	79-121	
1,2-Dibromoethane	5.00	4.95	99	77-121	
Hexachlorobutadiene	5.00	5.07	101	66-134	
Isopropylbenzene	5.00	4.86	97	72-131	
Methyl tert-butyl ether	5.00	4.83 J	97	71-124	
Methylene Chloride	5.00	5.13	103	74-124	
m-Xylene & p-Xylene	5.00	5.17	103	80-121	
Naphthalene	5.00	4.78	96	61-128	
n-Butylbenzene	5.00	4.79	96	75-128	
N-Propylbenzene	5.00	4.86	97	76-126	
o-Xylene	5.00	5.19	104	78-122	
p-Isopropyltoluene	5.00	4.99	100	77-127	
sec-Butylbenzene	5.00	4.85	97	77-126	
Styrene	5.00	4.98	100	78-123	
tert-Butyl alcohol	50.0	50.5	101	68-129	
tert-Butylbenzene	5.00	4.87	97	78-124	
Tetrachloroethene	5.00	5.28	106	74-129	
Toluene	5.00	5.03	101	80-121	
trans-1,2-Dichloroethene	5.00	5.22	104	75-124	
trans-1,3-Dichloropropene	5.00	5.18	104	73-127	
Trichloroethene	5.00	5.21	104	79-123	
Trichlorofluoromethane	5.00	5.48	110	65-141	
Vinyl chloride	5.00	5.23	105	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: J6849.D Lab Sample ID: MB 280-278302/1-A

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

Instrument ID: VMS_J Date Analyzed: 05/19/2015 18:11

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-278302/2-A	J6850.D	05/19/2015 18:31
54400-SB01-0515-5	280-69452-3	J6854.D	05/19/2015 19:51
54400-SB01-0515-12.5	280-69452-4	J6855.D	05/19/2015 20:11
54400-SB01-0515-15	280-69452-5	J6856.D	05/19/2015 20:31
54400-SB02-0515-0	280-69452-6	J6857.D	05/19/2015 20:51
54400-SB02-0515-2.5	280-69452-7	J6858.D	05/19/2015 21:12
54400-SB02-0515-15	280-69452-9	J6859.D	05/19/2015 21:32
54400-SB03-0515-0	280-69452-10	J6860.D	05/19/2015 21:52
54400-SB03-0515-5	280-69452-11	J6861.D	05/19/2015 22:12
54400-SB03-0515-10	280-69452-12	J6862.D	05/19/2015 22:32
54400-SB03-0515-15	280-69452-13	J6863.D	05/19/2015 22:52
54400-SB02-0515-10	280-69452-8	J6864.D	05/19/2015 23:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: J6916.D Lab Sample ID: MB 280-278666/1-A

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

Instrument ID: VMS_J Date Analyzed: 05/21/2015 18:20

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-278666/2-A	J6915.D	05/21/2015 17:59
54400-SB01-0515-0	280-69452-2	J6917.D	05/21/2015 19:01

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: H3066.D Lab Sample ID: MB 280-279635/6

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

Instrument ID: VMS_H Date Analyzed: 05/29/2015 22:30

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-279635/4	H3064.D	05/29/2015 21:45
54403-TB16-0515-	280-69452-1	H3067.D	05/29/2015 22:53

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: H2946.D BFB Injection Date: 05/27/2015

Instrument ID: VMS_H BFB Injection Time: 23:12

Analysis Batch No.: 279265

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	61.4	
175	5.0 - 9.0 % of mass 174	4.3	(7.0)1
176	95.0 - 101.0 % of mass 174	59.7	(97.2)1
177	5.0 - 9.0 % of mass 176	4.5	(7.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-279265/9	H2949.D	05/28/2015	00:18
	IC 280-279265/10	H2950.D	05/28/2015	00:40
	IC 280-279265/11	H2951.D	05/28/2015	01:03
	IC 280-279265/12	H2952.D	05/28/2015	01:25
	IC 280-279265/13	H2953.D	05/28/2015	01:48
	IC 280-279265/14	H2954.D	05/28/2015	02:10
	IC 280-279265/15	H2955.D	05/28/2015	02:33
	IC 280-279265/16	H2957.D	05/28/2015	03:18
	IC 280-279265/17	H2958.D	05/28/2015	03:40
	IC 280-279265/18	H2959.D	05/28/2015	04:03
	ICIS 280-279265/19	H2960.D	05/28/2015	04:25
	IC 280-279265/20	H2961.D	05/28/2015	04:48
	IC 280-279265/21	H2962.D	05/28/2015	05:10
	ICV 280-279265/23	H2963.D	05/28/2015	05:32

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: H3061.D BFB Injection Date: 05/29/2015

Instrument ID: VMS_H BFB Injection Time: 20:39

Analysis Batch No.: 279635

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.3	
75	30.0 - 60.0 % of mass 95	48.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	61.3	
175	5.0 - 9.0 % of mass 174	4.5	(7.4)1
176	95.0 - 101.0 % of mass 174	60.4	(98.5)1
177	5.0 - 9.0 % of mass 176	3.8	(6.3)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
	CCV 280-279635/2	H3062.D	05/29/2015	21:00
	CCV 280-279635/3	H3063.D	05/29/2015	21:22
	LCS 280-279635/4	H3064.D	05/29/2015	21:45
	MB 280-279635/6	H3066.D	05/29/2015	22:30
54403-TB16-0515-	280-69452-1	H3067.D	05/29/2015	22:53
	CCVC 280-279635/56	H3089.D	05/30/2015	07:07

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: J6294.D BFB Injection Date: 04/29/2015

Instrument ID: VMS_J BFB Injection Time: 10:33

Analysis Batch No.: 275091

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.5	
75	30.0 - 60.0 % of mass 95	53.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	57.7	
175	5.0 - 9.0 % of mass 174	5.0	(8.6)1
176	95.0 - 101.0 % of mass 174	57.3	(99.4)1
177	5.0 - 9.0 % of mass 176	3.9	(6.8)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
	STD001 280-275091/11	J6305.D	04/29/2015	15:01
	STD002 280-275091/12	J6306.D	04/29/2015	15:21
	STD005 280-275091/13	J6307.D	04/29/2015	15:41
	STD010 280-275091/14	J6308.D	04/29/2015	16:01
	STD020 280-275091/15	J6309.D	04/29/2015	16:21
	ICIS 280-275091/16	J6310.D	04/29/2015	16:41
	STD100 280-275091/17	J6311.D	04/29/2015	17:01
	STD200 280-275091/18	J6312.D	04/29/2015	17:21
	ICV 280-275091/19	J6313.D	04/29/2015	17:41

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: J6808.D BFB Injection Date: 05/18/2015

Instrument ID: VMS_J BFB Injection Time: 16:31

Analysis Batch No.: 278046

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.5	
75	30.0 - 60.0 % of mass 95	48.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.7	(0.8)1
174	50.0 - 120.00 % of mass 95	88.1	
175	5.0 - 9.0 % of mass 174	5.5	(6.2)1
176	95.0 - 101.0 % of mass 174	84.6	(96.0)1
177	5.0 - 9.0 % of mass 176	6.4	(7.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD001 280-278046/4	J6811.D	05/18/2015	17:50
	STD002 280-278046/5	J6812.D	05/18/2015	18:10
	STD005 280-278046/6	J6813.D	05/18/2015	18:30
	STD010 280-278046/7	J6814.D	05/18/2015	18:50
	STD020 280-278046/8	J6815.D	05/18/2015	19:10
	ICIS 280-278046/9	J6816.D	05/18/2015	19:30
	STD100 280-278046/10	J6817.D	05/18/2015	19:51
	STD200 280-278046/11	J6818.D	05/18/2015	20:11
	ICV 280-278046/12	J6819.D	05/18/2015	20:33

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: J6846.D BFB Injection Date: 05/19/2015

Instrument ID: VMS_J BFB Injection Time: 17:03

Analysis Batch No.: 278246

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	83.0	
175	5.0 - 9.0 % of mass 174	6.9	(8.4)1
176	95.0 - 101.0 % of mass 174	81.4	(98.1)1
177	5.0 - 9.0 % of mass 176	6.3	(7.8)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
	CCV 280-278246/2	J6847.D	05/19/2015	17:30
	CCV 280-278246/3	J6848.D	05/19/2015	17:50
	MB 280-278302/1-A	J6849.D	05/19/2015	18:11
	LCS 280-278302/2-A	J6850.D	05/19/2015	18:31
54400-SB01-0515-5	280-69452-3	J6854.D	05/19/2015	19:51
54400-SB01-0515-12.5	280-69452-4	J6855.D	05/19/2015	20:11
54400-SB01-0515-15	280-69452-5	J6856.D	05/19/2015	20:31
54400-SB02-0515-0	280-69452-6	J6857.D	05/19/2015	20:51
54400-SB02-0515-2.5	280-69452-7	J6858.D	05/19/2015	21:12
54400-SB02-0515-15	280-69452-9	J6859.D	05/19/2015	21:32
54400-SB03-0515-0	280-69452-10	J6860.D	05/19/2015	21:52
54400-SB03-0515-5	280-69452-11	J6861.D	05/19/2015	22:12
54400-SB03-0515-10	280-69452-12	J6862.D	05/19/2015	22:32
54400-SB03-0515-15	280-69452-13	J6863.D	05/19/2015	22:52
54400-SB02-0515-10	280-69452-8	J6864.D	05/19/2015	23:12
	CCVC 280-278246/25	J6865.D	05/19/2015	23:32

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab File ID: J6912.D BFB Injection Date: 05/21/2015

Instrument ID: VMS_J BFB Injection Time: 16:32

Analysis Batch No.: 278648

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	47.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	80.4	
175	5.0 - 9.0 % of mass 174	6.2	(7.8)1
176	95.0 - 101.0 % of mass 174	77.0	(95.8)1
177	5.0 - 9.0 % of mass 176	5.9	(7.7)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
	CCV 280-278648/2	J6913.D	05/21/2015	17:01
	CCV 280-278648/3	J6914.D	05/21/2015	17:39
	LCS 280-278666/2-A	J6915.D	05/21/2015	17:59
	MB 280-278666/1-A	J6916.D	05/21/2015	18:20
54400-SB01-0515-0	280-69452-2	J6917.D	05/21/2015	19:01
	CCVC 280-278648/11	J6918.D	05/21/2015	19:21

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Sample No.: ICIS 280-279265/19 Date Analyzed: 05/28/2015 04:25

Instrument ID: VMS_H GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): H2960.D Heated Purge: (Y/N) N

Calibration ID: 22417

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		211144	3.97	1108417	6.76	256513	11.09
UPPER LIMIT		422288	4.47	2216834	7.26	513026	11.59
LOWER LIMIT		105572	3.47	554209	6.26	128257	10.59
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-279265/23		204860	3.97	1164628	6.76	280885	11.11
CCV 280-279635/2		231649	3.97	1232049	6.76	269505	11.11
CCV 280-279635/3		235914	3.99	1312983	6.76	301651	11.11
LCS 280-279635/4		223037	3.97	1250258	6.76	276177	11.11
MB 280-279635/6		227962	3.97	1202873	6.76	277929	11.11
280-69452-1	54403-TB16-0515-	189435	3.97	1233890	6.76	275568	11.11

TBA = TBA-d9 (IS)
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

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 8260B

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Sample No.: ICIS 280-279265/19 Date Analyzed: 05/28/2015 04:25

Instrument ID: VMS_H GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): H2960.D Heated Purge: (Y/N) N

Calibration ID: 22417

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		390191	14.11				
UPPER LIMIT		780382	14.61				
LOWER LIMIT		195096	13.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-279265/23		430424	14.12				
CCV 280-279635/2		462458	14.12				
CCV 280-279635/3		480881	14.12				
LCS 280-279635/4		474716	14.12				
MB 280-279635/6		425381	14.12				
280-69452-1	54403-TB16-0515-	424882	14.12				

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 8260B

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Sample No.: ICIS 280-275091/16 Date Analyzed: 04/29/2015 16:41

Instrument ID: VMS_J GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): J6310.D Heated Purge: (Y/N) Y

Calibration ID: 22162

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		735996	5.75	1160625	7.73	352266	10.01
UPPER LIMIT		1471992	6.25	2321250	8.23	704532	10.51
LOWER LIMIT		367998	5.25	580313	7.23	176133	9.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-275091/19		788991	5.75	1173461	7.73	356396	10.03

TBA = TBA-d9 (IS)
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

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 8260B

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Sample No.: ICIS 280-275091/16 Date Analyzed: 04/29/2015 16:41

Instrument ID: VMS_J GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): J6310.D Heated Purge: (Y/N) Y

Calibration ID: 22162

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		537276	11.89				
UPPER LIMIT		1074552	12.39				
LOWER LIMIT		268638	11.39				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-275091/19		562173	11.89				

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 8260B

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Sample No.: ICIS 280-278046/9 Date Analyzed: 05/18/2015 19:30

Instrument ID: VMS_J GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): J6816.D Heated Purge: (Y/N) Y

Calibration ID: 22340

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		587047	5.73	1028160	7.71	301969	10.01
UPPER LIMIT		1174094	6.23	2056320	8.21	603938	10.51
LOWER LIMIT		293524	5.23	514080	7.21	150985	9.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-278046/12		684313	5.73	1099701	7.71	322150	10.01
CCV 280-278246/2		779391	5.74	1159880	7.73	325531	10.01
CCV 280-278246/3		626963	5.73	1125361	7.73	319045	10.01
MB 280-278302/1-A		673570	5.73	1125120	7.73	320930	10.01
LCS 280-278302/2-A		698355	5.74	1098940	7.73	306272	10.01
280-69452-3	54400-SB01-0515-5	641480	5.73	1075242	7.73	307050	10.01
280-69452-4	54400-SB01-0515-12.5	772359	5.74	1104948	7.73	319801	10.01
280-69452-5	54400-SB01-0515-15	523562	5.73	1072388	7.74	309176	10.02
280-69452-6	54400-SB02-0515-0	714102	5.74	1089652	7.73	310139	10.01
280-69452-7	54400-SB02-0515-2.5	905783	5.74	1108123	7.73	315502	10.01
280-69452-9	54400-SB02-0515-15	560284	5.74	1018102	7.73	285182	10.01
280-69452-10	54400-SB03-0515-0	812391	5.75	1115969	7.73	323522	10.01
280-69452-11	54400-SB03-0515-5	580384	5.74	1116111	7.73	314150	10.01
280-69452-12	54400-SB03-0515-10	640877	5.73	963246	7.73	277127	10.01
280-69452-13	54400-SB03-0515-15	525977	5.73	1099396	7.72	315204	10.02
280-69452-8	54400-SB02-0515-10	441802	5.73	1110136	7.73	320870	10.01
CCVC 280-278246/25		576133	5.74	1117659	7.73	319980	10.01
CCV 280-278648/2		672682	5.73	1040255	7.72	286459	10.02
CCV 280-278648/3		578806	5.73	1006492	7.72	282430	10.01
LCS 280-278666/2-A		553344	5.73	1036308	7.72	307884	10.02
MB 280-278666/1-A		641337	5.73	1031116	7.74	290213	10.02
280-69452-2	54400-SB01-0515-0	589777	5.73	996133	7.73	276157	10.01
CCVC 280-278648/11		579678	5.74	1017832	7.73	287174	10.01

TBA = TBA-d9 (IS)
FB = Fluorobenzene
CBZ = Chlorobenzene-d5

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 8260B

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Sample No.: ICIS 280-278046/9 Date Analyzed: 05/18/2015 19:30

Instrument ID: VMS_J GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): J6816.D Heated Purge: (Y/N) Y

Calibration ID: 22340

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		461435	11.87				
UPPER LIMIT		922870	12.37				
LOWER LIMIT		230718	11.37				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-278046/12		476922	11.87				
CCV 280-278246/2		507857	11.89				
CCV 280-278246/3		493009	11.88				
MB 280-278302/1-A		512136	11.88				
LCS 280-278302/2-A		481565	11.89				
280-69452-3	54400-SB01-0515-5	499177	11.88				
280-69452-4	54400-SB01-0515-12.5	526963	11.89				
280-69452-5	54400-SB01-0515-15	506888	11.88				
280-69452-6	54400-SB02-0515-0	515082	11.89				
280-69452-7	54400-SB02-0515-2.5	532699	11.89				
280-69452-9	54400-SB02-0515-15	453121	11.89				
280-69452-10	54400-SB03-0515-0	514294	11.89				
280-69452-11	54400-SB03-0515-5	507617	11.89				
280-69452-12	54400-SB03-0515-10	451353	11.89				
280-69452-13	54400-SB03-0515-15	521520	11.88				
280-69452-8	54400-SB02-0515-10	502236	11.87				
CCVC 280-278246/25		491194	11.89				
CCV 280-278648/2		452030	11.88				
CCV 280-278648/3		445800	11.88				
LCS 280-278666/2-A		463482	11.88				
MB 280-278666/1-A		461577	11.88				
280-69452-2	54400-SB01-0515-0	408775	11.89				
CCVC 280-278648/11		451450	11.89				

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 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54403-TB16-0515- | Lab Sample ID: 280-69452-1
Matrix: Water | Lab File ID: H3067.D
Analysis Method: 8260B | Date Collected: 05/18/2015 00:00
Sample wt/vol: 20(mL) | Date Analyzed: 05/29/2015 22:53
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 279635 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.80	U	1.0	0.80	0.17
71-55-6	1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.20
79-00-5	1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.32
75-34-3	1,1-Dichloroethane	0.80	U	1.0	0.80	0.16
75-35-4	1,1-Dichloroethene	0.80	U	1.0	0.80	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.40	U	1.0	0.40	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
106-93-4	1,2-Dibromoethane	0.40	U	1.0	0.40	0.18
95-50-1	1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.13
107-06-2	1,2-Dichloroethane	0.40	U	1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	0.40	U	1.0	0.40	0.13
108-67-8	1,3,5-Trimethylbenzene	0.40	U	1.0	0.40	0.14
541-73-1	1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.16
142-28-9	1,3-Dichloropropane	0.80	U	1.0	0.80	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	4.0	U	6.0	4.0	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	4.0	U	5.0	4.0	1.4
106-43-4	4-Chlorotoluene	0.80	U	1.0	0.80	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.40	U	1.0	0.40	0.16
108-86-1	Bromobenzene	0.40	U	1.0	0.40	0.17
74-97-5	Bromochloromethane	0.20	U	1.0	0.20	0.10
75-27-4	Bromodichloromethane	0.40	U	1.0	0.40	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.80	U	2.0	0.80	0.21
75-15-0	Carbon disulfide	1.6	U	2.0	1.6	0.45
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.40	U	1.0	0.40	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54403-TB16-0515- | Lab Sample ID: 280-69452-1

Matrix: Water | Lab File ID: H3067.D

Analysis Method: 8260B | Date Collected: 05/18/2015 00:00

Sample wt/vol: 20(mL) | Date Analyzed: 05/29/2015 22:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

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

Analysis Batch No.: 279635 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.40	U	1.0	0.40	0.16
74-87-3	Chloromethane	0.80	U	2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.40	U	1.0	0.40	0.16
87-68-3	Hexachlorobutadiene	0.80	U	1.0	0.80	0.36
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
1634-04-4	Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25
75-09-2	Methylene Chloride	0.80	U	5.0	0.80	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.80	U	1.0	0.80	0.32
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
99-87-6	p-Isopropyltoluene	0.40	U	1.0	0.40	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
75-65-0	tert-Butyl alcohol	32	U	50	32	11
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.40	U	1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.20	U	1.5	0.20	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54403-TB16-0515-
Lab Sample ID: 280-69452-1
Matrix: Water
Lab File ID: H3067.D
Analysis Method: 8260B
Date Collected: 05/18/2015 00:00
Sample wt/vol: 20(mL)
Date Analyzed: 05/29/2015 22:53
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 279635
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		81-118
460-00-4	4-Bromofluorobenzene (Surr)	101		85-114
1868-53-7	Dibromofluoromethane (Surr)	96		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3067.D
Lims ID: 280-69452-A-1 Lab Sample ID: 280-69452-1
Client ID: 54403-TB16-0515-
Sample Type: Client
Inject. Date: 29-May-2015 22:53:30 ALS Bottle#: 6 Worklist Smp#: 34
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-A-1 pH<2
Operator ID: bergerb Instrument ID: VMS_H

Method: \\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jun-2015 17:36:44 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: bergerb Date: 01-Jun-2015 17:37:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.970	3.958	0.012	99	189435	250.0	
* 2 Fluorobenzene	96	6.755	6.761	-0.006	97	1233890	12.5	
* 3 1,4-Dioxane-d8	96		8.670				ND	
* 4 Chlorobenzene-d5	119	11.108	11.113	-0.005	92	275568	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.108	0.012	98	424882	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.920	5.925	-0.005	93	506236	8.12	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.337	6.343	-0.006	83	251885	7.30	
$ 10 Toluene-d8 (Surr)	98	8.879	8.885	-0.006	95	1161895	8.64	
$ 11 4-Bromofluorobenzene (Surr	95	12.762	12.767	-0.005	81	623744	8.58	
28 Dichlorodifluoromethane	85		2.165				ND	
30 Chloromethane	50		2.252				ND	
32 Vinyl chloride	62		2.391				ND	
35 Bromomethane	94		2.670				ND	
36 Chloroethane	64		2.739				ND	
38 Trichlorofluoromethane	101		2.983				ND	
45 1,1-Dichloroethene	96		3.470				ND	
47 Acetone	43		3.505				ND	
50 Carbon disulfide	76		3.714				ND	
54 Methylene Chloride	84		3.940				ND	
55 2-Methyl-2-propanol	59		4.062				ND	
56 Methyl tert-butyl ether	73		4.236				ND	
58 trans-1,2-Dichloroethene	96		4.236				ND	
60 1,1-Dichloroethane	63		4.689				ND	
67 2-Butanone (MEK)	43		5.351				ND	
65 cis-1,2-Dichloroethene	96		5.351				ND	
66 2,2-Dichloropropane	77		5.368				ND	
73 Chlorobromomethane	128		5.647				ND	
75 Chloroform	83		5.716				ND	
76 1,1,1-Trichloroethane	97		5.977				ND	
78 1,1-Dichloropropene	75		6.151				ND	
79 Carbon tetrachloride	117		6.186				ND	
81 Benzene	78		6.413				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
82 1,2-Dichloroethane	62		6.430				ND	
86 Trichloroethene	95		7.231				ND	
90 1,2-Dichloropropane	63		7.527				ND	
92 Dibromomethane	93		7.701				ND	
94 Dichlorobromomethane	83		7.892				ND	
97 cis-1,3-Dichloropropene	75		8.502				ND	
98 4-Methyl-2-pentanone (MIBK	43		8.711				ND	
99 Toluene	91		8.972				ND	
100 trans-1,3-Dichloropropene	75		9.285				ND	
102 1,1,2-Trichloroethane	97		9.546				ND	
103 Tetrachloroethene	164		9.773				ND	
104 1,3-Dichloropropane	76		9.790				ND	
105 2-Hexanone	43		9.929				ND	
108 Chlorodibromomethane	129		10.156				ND	
109 Ethylene Dibromide	107		10.330				ND	
111 Chlorobenzene	112		11.148				ND	
112 1,1,1,2-Tetrachloroethane	131		11.287				ND	
113 Ethylbenzene	106		11.322				ND	
114 m-Xylene & p-Xylene	106		11.496				ND	
115 o-Xylene	106		12.071				ND	
116 Styrene	104		12.088				ND	
117 Bromoform	173		12.349				ND	
118 Isopropylbenzene	105		12.558				ND	
122 Bromobenzene	156		12.941				ND	
121 1,1,2,2-Tetrachloroethane	83		12.959				ND	
123 1,2,3-Trichloropropane	110		12.993				ND	
125 N-Propylbenzene	120		13.080				ND	
126 2-Chlorotoluene	126		13.185				ND	
127 1,3,5-Trimethylbenzene	105		13.289				ND	
128 4-Chlorotoluene	126		13.307				ND	
129 tert-Butylbenzene	119		13.672				ND	
130 1,2,4-Trimethylbenzene	105		13.725				ND	
131 sec-Butylbenzene	134		13.916				ND	
132 1,3-Dichlorobenzene	146		14.038				ND	
133 4-Isopropyltoluene	119		14.073				ND	
134 1,4-Dichlorobenzene	146		14.142				ND	
137 n-Butylbenzene	91		14.508				ND	
138 1,2-Dichlorobenzene	146		14.543				ND	
139 1,2-Dibromo-3-Chloropropan	157		15.309				ND	
144 1,2,3-Trichlorobenzene	180		16.075				ND	
142 Hexachlorobutadiene	225		16.232				ND	
143 Naphthalene	128		16.301				ND	
141 1,2,4-Trichlorobenzene	180		16.528				ND	

Reagents:

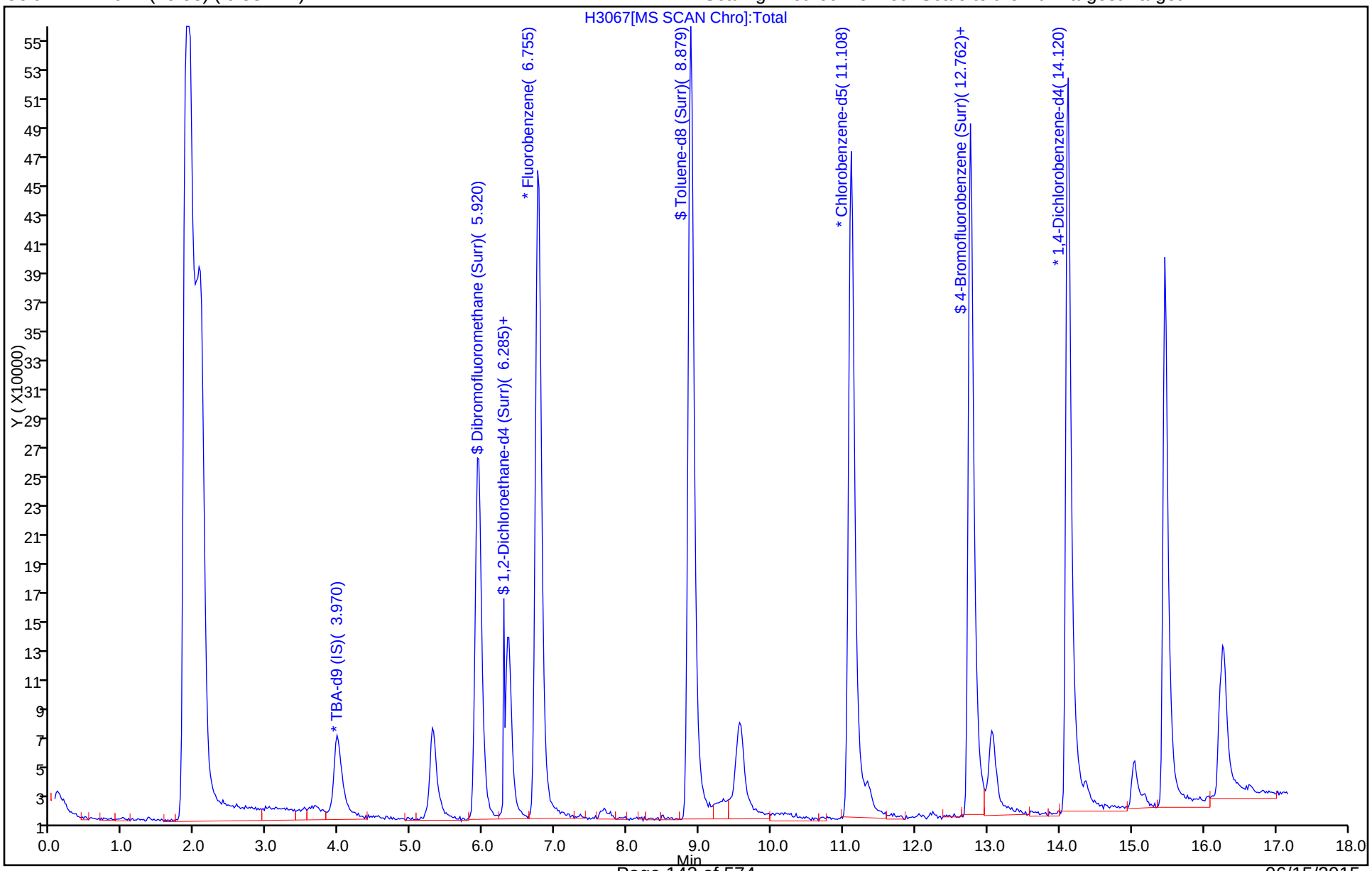
MV-568718-D_00002	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00042	Amount Added: 0.68	Units: uL	Run Reagent

Report Date: 01-Jun-2015 17:37:58 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3067.D				
Injection Date:	29-May-2015 22:53:30	Instrument ID:	VMS_H	Operator ID:	bergerb
Lims ID:	280-69452-A-1	Lab Sample ID:	280-69452-1	Worklist Smp#:	34
Client ID:	54403-TB16-0515-				
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-0 | Lab Sample ID: 280-69452-2
Matrix: Solid | Lab File ID: J6917.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:48
Sample wt/vol: 4.130(g) | Date Analyzed: 05/21/2015 19:01
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 20.6 | Level: (low/med) Low
Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U	7.6	2.4	0.85
71-55-6	1,1,1-Trichloroethane	2.4	U	7.6	2.4	0.79
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U	7.6	2.4	0.93
79-00-5	1,1,2-Trichloroethane	4.9	U	7.6	4.9	1.3
75-34-3	1,1-Dichloroethane	1.2	U	7.6	1.2	0.32
75-35-4	1,1-Dichloroethene	2.4	U	7.6	2.4	0.90
563-58-6	1,1-Dichloropropene	2.4	U	7.6	2.4	0.82
87-61-6	1,2,3-Trichlorobenzene	2.4	U	7.6	2.4	1.1
96-18-4	1,2,3-Trichloropropane	4.9	U	7.6	4.9	1.2
120-82-1	1,2,4-Trichlorobenzene	2.4	U	7.6	2.4	1.1
95-63-6	1,2,4-Trimethylbenzene	2.4	U	7.6	2.4	0.88
96-12-8	1,2-Dibromo-3-Chloropropane	2.4	U	15	2.4	0.92
95-50-1	1,2-Dichlorobenzene	2.4	U	7.6	2.4	0.69
107-06-2	1,2-Dichloroethane	2.4	U	7.6	2.4	1.1
78-87-5	1,2-Dichloropropane	2.4	U	7.6	2.4	0.84
108-67-8	1,3,5-Trimethylbenzene	2.4	U	7.6	2.4	0.87
541-73-1	1,3-Dichlorobenzene	2.4	U	7.6	2.4	0.73
142-28-9	1,3-Dichloropropane	2.4	U	7.6	2.4	0.78
106-46-7	1,4-Dichlorobenzene	2.4	U	7.6	2.4	1.2
594-20-7	2,2-Dichloropropane	2.4	U	7.6	2.4	0.67
78-93-3	2-Butanone (MEK)	9.8	U	31	9.8	2.8
95-49-8	2-Chlorotoluene	2.4	U	7.6	2.4	0.78
591-78-6	2-Hexanone	20	U	31	20	7.5
106-43-4	4-Chlorotoluene	2.4	U	7.6	2.4	1.2
99-87-6	4-Isopropyltoluene	2.4	U	7.6	2.4	0.75
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	31	20	6.6
67-64-1	Acetone	20	U	31	20	8.2
71-43-2	Benzene	2.4	U	7.6	2.4	0.72
108-86-1	Bromobenzene	2.4	U	7.6	2.4	0.75
74-97-5	Bromochloromethane	1.2	U	7.6	1.2	0.46
75-27-4	Bromodichloromethane	1.2	U	7.6	1.2	0.34
75-25-2	Bromoform	1.2	U	7.6	1.2	0.35
74-83-9	Bromomethane	2.4	U	15	2.4	0.76
75-15-0	Carbon disulfide	2.4	U	7.6	2.4	0.64
56-23-5	Carbon tetrachloride	2.4	U	7.6	2.4	0.96
108-90-7	Chlorobenzene	2.4	U	7.6	2.4	0.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-0 | Lab Sample ID: 280-69452-2
Matrix: Solid | Lab File ID: J6917.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:48
Sample wt/vol: 4.130(g) | Date Analyzed: 05/21/2015 19:01
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 20.6 | Level: (low/med) Low
Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
75-00-3	Chloroethane	4.9	U	15	4.9	1.4
67-66-3	Chloroform	1.2	U	15	1.2	0.44
74-87-3	Chloromethane	2.4	U	15	2.4	1.2
156-59-2	cis-1,2-Dichloroethene	2.4	U	7.6	2.4	0.85
10061-01-5	cis-1,3-Dichloropropene	4.9	U	7.6	4.9	2.0
124-48-1	Dibromochloromethane	2.4	U	7.6	2.4	0.87
74-95-3	Dibromomethane	4.9	U	7.6	4.9	1.3
75-71-8	Dichlorodifluoromethane	2.4	U	15	2.4	0.79
100-41-4	Ethylbenzene	2.4	U	7.6	2.4	1.0
106-93-4	Ethylene Dibromide	2.4	U	7.6	2.4	0.79
87-68-3	Hexachlorobutadiene	2.4	U	7.6	2.4	0.84
98-82-8	Isopropylbenzene	2.4	U	7.6	2.4	0.90
1634-04-4	Methyl tert-butyl ether	1.2	U	31	1.2	0.52
75-09-2	Methylene Chloride	4.9	U	7.6	4.9	2.4
179601-23-1	m-Xylene & p-Xylene	4.9	U	4.9	4.9	1.6
91-20-3	Naphthalene	2.4	U	7.6	2.4	0.96
104-51-8	n-Butylbenzene	2.4	U	7.6	2.4	0.85
103-65-1	N-Propylbenzene	2.4	U	7.6	2.4	0.88
95-47-6	o-Xylene	2.4	U	7.6	2.4	0.93
135-98-8	sec-Butylbenzene	2.4	U	7.6	2.4	1.2
100-42-5	Styrene	2.4	U	7.6	2.4	0.96
75-65-0	tert-Butyl alcohol	49	U	310	49	20
98-06-6	tert-Butylbenzene	2.4	U	7.6	2.4	0.76
127-18-4	Tetrachloroethene	2.4	U	7.6	2.4	0.90
108-88-3	Toluene	2.4	U	7.6	2.4	1.1
156-60-5	trans-1,2-Dichloroethene	1.2	U	7.6	1.2	0.59
10061-02-6	trans-1,3-Dichloropropene	2.4	U	7.6	2.4	1.0
79-01-6	Trichloroethene	1.2	U	7.6	1.2	0.35
75-69-4	Trichlorofluoromethane	4.9	U	15	4.9	1.6
75-01-4	Vinyl chloride	4.9	U	7.6	4.9	2.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB01-0515-0 | Lab Sample ID: 280-69452-2

Matrix: Solid | Lab File ID: J6917.D

Analysis Method: 8260B | Date Collected: 05/18/2015 15:48

Sample wt/vol: 4.130(g) | Date Analyzed: 05/21/2015 19:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: 20.6 | Level: (low/med) Low

Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		71-136
460-00-4	4-Bromofluorobenzene (Surr)	97		79-119
1868-53-7	Dibromofluoromethane (Surr)	98		78-119
2037-26-5	Toluene-d8 (Surr)	97		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6917.D
Lims ID: 280-69452-A-2-A Lab Sample ID: 280-69452-2
Client ID: 54400-SB01-0515-0
Sample Type: Client
Inject. Date: 21-May-2015 19:01:30 ALS Bottle#: 14 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-a-2-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150521-35307.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 21-May-2015 23:29:18 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 21-May-2015 19:20:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.727	5.732	-0.005	100	589777	1000.0	
* 1 Fluorobenzene	96	7.729	7.716	0.013	98	996133	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.014	-0.005	88	276157	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.876	0.013	95	408775	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.160	0.012	92	353620	48.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.468	7.456	0.012	98	350924	46.7	
$ 7 Toluene-d8 (Surr)	98	8.912	8.919	-0.007	94	990077	48.6	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.903	-0.006	87	401971	48.3	
25 Dichlorodifluoromethane	85		3.992				ND	
27 Chloromethane	50		4.219				ND	
28 Vinyl chloride	62		4.358				ND	
31 Bromomethane	94		4.741				ND	
32 Chloroethane	64		4.793				ND	
34 Trichlorofluoromethane	101		5.072				ND	
41 Acetone	43		5.455				ND	
45 1,1-Dichloroethene	96		5.507				ND	
51 Carbon disulfide	76		5.803				ND	
50 2-Methyl-2-propanol	59		5.803				ND	
52 Methylene Chloride	84		5.855				ND	
54 Methyl tert-butyl ether	73		6.029				ND	
55 trans-1,2-Dichloroethene	96		6.064				ND	
59 1,1-Dichloroethane	63		6.395				ND	
63 2-Butanone (MEK)	43		6.777				ND	
65 cis-1,2-Dichloroethene	96		6.830				ND	
67 2,2-Dichloropropane	77		6.865				ND	
69 Chlorobromomethane	128		7.039				ND	
70 Chloroform	83		7.039				ND	
73 1,1,1-Trichloroethane	97		7.265				ND	
75 1,1-Dichloropropene	75		7.352				ND	
76 Carbon tetrachloride	117		7.404				ND	
77 1,2-Dichloroethane	62		7.526				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.543				ND	
81 Trichloroethene	130		8.013				ND	
84 1,2-Dichloropropane	63		8.187				ND	
87 Dibromomethane	93		8.292				ND	
88 Dichlorobromomethane	83		8.362				ND	
91 cis-1,3-Dichloropropene	75		8.675				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.727				ND	
93 Toluene	91		8.971				ND	
95 trans-1,3-Dichloropropene	75		9.058				ND	
96 1,1,2-Trichloroethane	97		9.214				ND	
97 2-Hexanone	43		9.336				ND	
98 1,3-Dichloropropane	76		9.354				ND	
99 Tetrachloroethene	164		9.389				ND	
100 Chlorodibromomethane	129		9.563				ND	
102 Ethylene Dibromide	107		9.684				ND	
104 Chlorobenzene	112		10.033				ND	
105 Ethylbenzene	106		10.067				ND	
106 1,1,1,2-Tetrachloroethane	131		10.067				ND	
107 m-Xylene & p-Xylene	91		10.137				ND	
108 Styrene	104		10.468				ND	
109 o-Xylene	106		10.468				ND	
110 Bromoform	173		10.694				ND	
111 Isopropylbenzene	105		10.729				ND	
114 1,1,2,2-Tetrachloroethane	83		10.955				ND	
116 1,2,3-Trichloropropane	110		11.025				ND	
117 N-Propylbenzene	120		11.060				ND	
118 Bromobenzene	156		11.077				ND	
119 1,3,5-Trimethylbenzene	105		11.181				ND	
120 2-Chlorotoluene	126		11.199				ND	
121 4-Chlorotoluene	126		11.199				ND	
122 tert-Butylbenzene	119		11.477				ND	
123 1,2,4-Trimethylbenzene	105		11.512				ND	
124 sec-Butylbenzene	134		11.669				ND	
125 4-Isopropyltoluene	119		11.756				ND	
126 1,3-Dichlorobenzene	146		11.843				ND	
128 1,4-Dichlorobenzene	146		11.913				ND	
129 n-Butylbenzene	91		12.139				ND	
130 1,2-Dichlorobenzene	146		12.278				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.044				ND	
132 1,2,4-Trichlorobenzene	180		14.019				ND	
133 Hexachlorobutadiene	225		14.175				ND	
134 Naphthalene	128		14.402				ND	
135 1,2,3-Trichlorobenzene	180		14.732				ND	

Reagents:

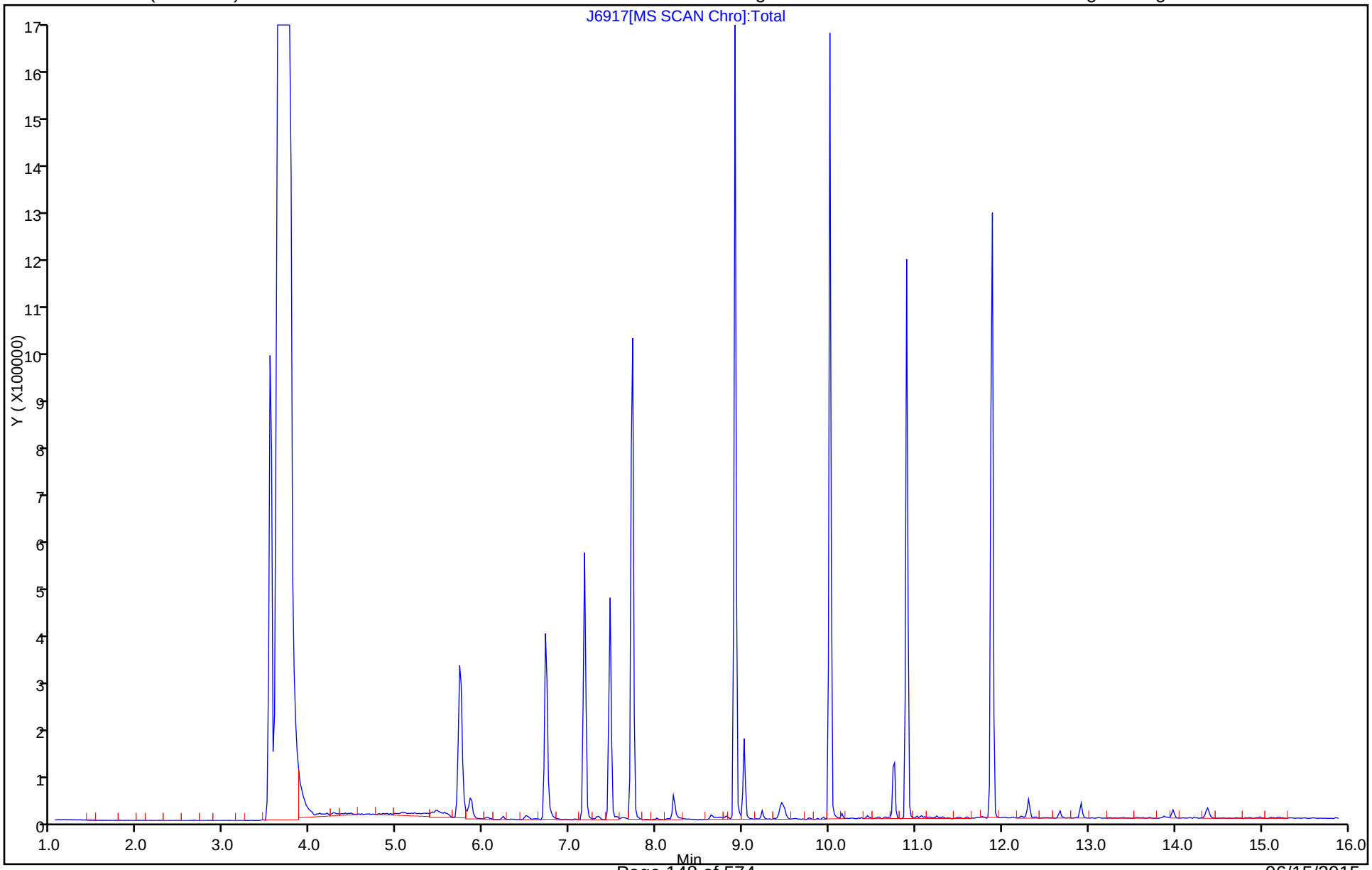
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 21-May-2015 23:29:22 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150521-35307.b\J6917.D				
Injection Date:	21-May-2015 19:01:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-A-2-A	Lab Sample ID:	280-69452-2	Worklist Smp#:	10
Client ID:	54400-SB01-0515-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-5 | Lab Sample ID: 280-69452-3
Matrix: Solid | Lab File ID: J6854.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:51
Sample wt/vol: 4.771(g) | Date Analyzed: 05/19/2015 19:51
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.0 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	6.4	2.0	0.72
71-55-6	1,1,1-Trichloroethane	2.0	U	6.4	2.0	0.66
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	6.4	2.0	0.78
79-00-5	1,1,2-Trichloroethane	4.1	U	6.4	4.1	1.1
75-34-3	1,1-Dichloroethane	1.0	U	6.4	1.0	0.27
75-35-4	1,1-Dichloroethene	2.0	U	6.4	2.0	0.75
563-58-6	1,1-Dichloropropene	2.0	U	6.4	2.0	0.69
87-61-6	1,2,3-Trichlorobenzene	2.0	U	6.4	2.0	0.96
96-18-4	1,2,3-Trichloropropane	4.1	U	6.4	4.1	1.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	6.4	2.0	0.93
95-63-6	1,2,4-Trimethylbenzene	2.0	U	6.4	2.0	0.74
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	13	2.0	0.77
106-93-4	1,2-Dibromoethane	2.0	U	6.4	2.0	0.66
95-50-1	1,2-Dichlorobenzene	2.0	U	6.4	2.0	0.58
107-06-2	1,2-Dichloroethane	2.0	U	6.4	2.0	0.89
78-87-5	1,2-Dichloropropane	2.0	U	6.4	2.0	0.70
108-67-8	1,3,5-Trimethylbenzene	2.0	U	6.4	2.0	0.73
541-73-1	1,3-Dichlorobenzene	2.0	U	6.4	2.0	0.61
142-28-9	1,3-Dichloropropane	2.0	U	6.4	2.0	0.65
106-46-7	1,4-Dichlorobenzene	2.0	U	6.4	2.0	1.0
594-20-7	2,2-Dichloropropane	2.0	U	6.4	2.0	0.56
78-93-3	2-Butanone (MEK)	8.2	U	26	8.2	2.3
95-49-8	2-Chlorotoluene	2.0	U	6.4	2.0	0.65
591-78-6	2-Hexanone	16	U	26	16	6.2
106-43-4	4-Chlorotoluene	2.0	U	6.4	2.0	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	16	U	26	16	5.6
67-64-1	Acetone	16	U	26	16	6.9
71-43-2	Benzene	2.0	U	6.4	2.0	0.60
108-86-1	Bromobenzene	2.0	U	6.4	2.0	0.63
74-97-5	Bromochloromethane	1.0	U	6.4	1.0	0.38
75-27-4	Bromodichloromethane	1.0	U	6.4	1.0	0.28
75-25-2	Bromoform	1.0	U	6.4	1.0	0.29
74-83-9	Bromomethane	2.0	U	13	2.0	0.64
75-15-0	Carbon disulfide	2.0	U	6.4	2.0	0.54
56-23-5	Carbon tetrachloride	2.0	U	6.4	2.0	0.81
108-90-7	Chlorobenzene	2.0	U	6.4	2.0	0.69

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-5 | Lab Sample ID: 280-69452-3
Matrix: Solid | Lab File ID: J6854.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:51
Sample wt/vol: 4.771(g) | Date Analyzed: 05/19/2015 19:51
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.0 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	2.0	U	6.4	2.0	0.73
75-00-3	Chloroethane	4.1	U	13	4.1	1.1
67-66-3	Chloroform	1.0	U	13	1.0	0.37
74-87-3	Chloromethane	2.0	U	13	2.0	0.98
156-59-2	cis-1,2-Dichloroethene	2.0	U	6.4	2.0	0.72
10061-01-5	cis-1,3-Dichloropropene	4.1	U	6.4	4.1	1.6
74-95-3	Dibromomethane	4.1	U	6.4	4.1	1.1
75-71-8	Dichlorodifluoromethane	2.0	U	13	2.0	0.66
100-41-4	Ethylbenzene	2.0	U	6.4	2.0	0.86
87-68-3	Hexachlorobutadiene	2.0	U	6.4	2.0	0.70
98-82-8	Isopropylbenzene	2.0	U	6.4	2.0	0.75
1634-04-4	Methyl tert-butyl ether	1.0	U	26	1.0	0.43
75-09-2	Methylene Chloride	4.1	U	6.4	4.1	2.0
179601-23-1	m-Xylene & p-Xylene	4.1	U	4.1	4.1	1.3
91-20-3	Naphthalene	2.0	U	6.4	2.0	0.81
104-51-8	n-Butylbenzene	2.0	U	6.4	2.0	0.72
103-65-1	N-Propylbenzene	2.0	U	6.4	2.0	0.74
95-47-6	o-Xylene	2.0	U	6.4	2.0	0.78
99-87-6	p-Isopropyltoluene	2.0	U	6.4	2.0	0.63
135-98-8	sec-Butylbenzene	2.0	U	6.4	2.0	0.98
100-42-5	Styrene	2.0	U	6.4	2.0	0.81
75-65-0	tert-Butyl alcohol	41	U	260	41	16
98-06-6	tert-Butylbenzene	2.0	U	6.4	2.0	0.64
127-18-4	Tetrachloroethene	2.0	U	6.4	2.0	0.75
108-88-3	Toluene	2.0	U	6.4	2.0	0.88
156-60-5	trans-1,2-Dichloroethene	1.0	U	6.4	1.0	0.50
10061-02-6	trans-1,3-Dichloropropene	2.0	U	6.4	2.0	0.86
79-01-6	Trichloroethene	1.0	U	6.4	1.0	0.29
75-69-4	Trichlorofluoromethane	4.1	U	13	4.1	1.3
75-01-4	Vinyl chloride	4.1	U	6.4	4.1	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-5
Lab Sample ID: 280-69452-3
Matrix: Solid
Lab File ID: J6854.D
Analysis Method: 8260B
Date Collected: 05/18/2015 15:51
Sample wt/vol: 4.771(g)
Date Analyzed: 05/19/2015 19:51
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.0
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		71-136
460-00-4	4-Bromofluorobenzene (Surr)	95		79-119
1868-53-7	Dibromofluoromethane (Surr)	101		78-119
2037-26-5	Toluene-d8 (Surr)	98		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6854.D
Lims ID: 280-69452-C-3-A Lab Sample ID: 280-69452-3
Client ID: 54400-SB01-0515-5
Sample Type: Client
Inject. Date: 19-May-2015 19:51:30 ALS Bottle#: 17 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-3-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 20:18:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.731	5.732	-0.001	100	641480	1000.0	
* 1 Fluorobenzene	96	7.733	7.734	-0.001	98	1075242	50.0	
* 2 Chlorobenzene-d5	119	10.013	10.014	-0.001	86	307050	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.876	11.877	-0.001	98	499177	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.176	7.172	0.004	92	393125	50.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.472	7.468	0.004	98	419124	51.7	
$ 7 Toluene-d8 (Surr)	98	8.917	8.912	0.005	93	1109402	49.0	
$ 8 4-Bromofluorobenzene (Surr	95	10.901	10.897	0.004	94	480223	47.3	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

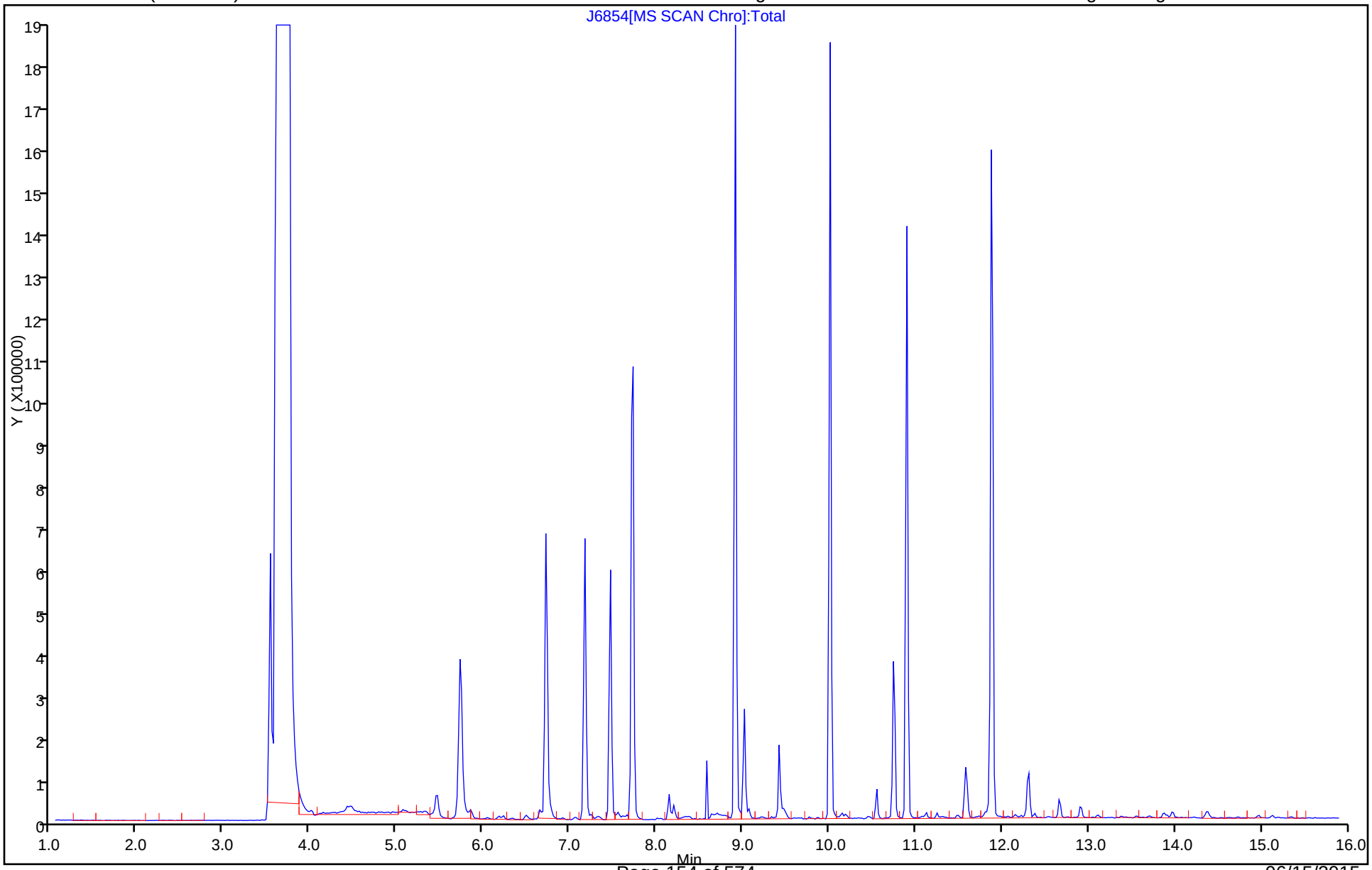
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:43 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6854.D				
Injection Date:	19-May-2015 19:51:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-3-A	Lab Sample ID:	280-69452-3	Worklist Smp#:	10
Client ID:	54400-SB01-0515-5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-12.5 | Lab Sample ID: 280-69452-4
Matrix: Solid | Lab File ID: J6855.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:55
Sample wt/vol: 4.36(g) | Date Analyzed: 05/19/2015 20:11
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 17.9 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.2	U	7.0	2.2	0.78
71-55-6	1,1,1-Trichloroethane	2.2	U	7.0	2.2	0.73
79-34-5	1,1,2,2-Tetrachloroethane	2.2	U	7.0	2.2	0.85
79-00-5	1,1,2-Trichloroethane	4.5	U	7.0	4.5	1.2
75-34-3	1,1-Dichloroethane	1.1	U	7.0	1.1	0.29
75-35-4	1,1-Dichloroethene	2.2	U	7.0	2.2	0.82
563-58-6	1,1-Dichloropropene	2.2	U	7.0	2.2	0.75
87-61-6	1,2,3-Trichlorobenzene	2.2	U	7.0	2.2	1.0
96-18-4	1,2,3-Trichloropropane	4.5	U	7.0	4.5	1.1
120-82-1	1,2,4-Trichlorobenzene	2.2	U	7.0	2.2	1.0
95-63-6	1,2,4-Trimethylbenzene	2.2	U	7.0	2.2	0.81
96-12-8	1,2-Dibromo-3-Chloropropane	2.2	U	14	2.2	0.84
106-93-4	1,2-Dibromoethane	2.2	U	7.0	2.2	0.73
95-50-1	1,2-Dichlorobenzene	2.2	U	7.0	2.2	0.63
107-06-2	1,2-Dichloroethane	2.2	U	7.0	2.2	0.98
78-87-5	1,2-Dichloropropane	2.2	U	7.0	2.2	0.77
108-67-8	1,3,5-Trimethylbenzene	2.2	U	7.0	2.2	0.80
541-73-1	1,3-Dichlorobenzene	2.2	U	7.0	2.2	0.67
142-28-9	1,3-Dichloropropane	2.2	U	7.0	2.2	0.71
106-46-7	1,4-Dichlorobenzene	2.2	U	7.0	2.2	1.1
594-20-7	2,2-Dichloropropane	2.2	U	7.0	2.2	0.61
78-93-3	2-Butanone (MEK)	8.9	U	28	8.9	2.6
95-49-8	2-Chlorotoluene	2.2	U	7.0	2.2	0.71
591-78-6	2-Hexanone	18	U	28	18	6.8
106-43-4	4-Chlorotoluene	2.2	U	7.0	2.2	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	18	U	28	18	6.1
67-64-1	Acetone	18	U	28	18	7.5
71-43-2	Benzene	2.2	U	7.0	2.2	0.66
108-86-1	Bromobenzene	2.2	U	7.0	2.2	0.68
74-97-5	Bromochloromethane	1.1	U	7.0	1.1	0.42
75-27-4	Bromodichloromethane	1.1	U	7.0	1.1	0.31
75-25-2	Bromoform	1.1	U	7.0	1.1	0.32
74-83-9	Bromomethane	2.2	U	14	2.2	0.70
75-15-0	Carbon disulfide	2.2	U	7.0	2.2	0.59
56-23-5	Carbon tetrachloride	2.2	U	7.0	2.2	0.88
108-90-7	Chlorobenzene	2.2	U	7.0	2.2	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-12.5 | Lab Sample ID: 280-69452-4
Matrix: Solid | Lab File ID: J6855.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:55
Sample wt/vol: 4.36(g) | Date Analyzed: 05/19/2015 20:11
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 17.9 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	2.2	U	7.0	2.2	0.80
75-00-3	Chloroethane	4.5	U	14	4.5	1.2
67-66-3	Chloroform	1.1	U	14	1.1	0.41
74-87-3	Chloromethane	2.2	U	14	2.2	1.1
156-59-2	cis-1,2-Dichloroethene	2.2	U	7.0	2.2	0.78
10061-01-5	cis-1,3-Dichloropropene	4.5	U	7.0	4.5	1.8
74-95-3	Dibromomethane	4.5	U	7.0	4.5	1.2
75-71-8	Dichlorodifluoromethane	2.2	U	14	2.2	0.73
100-41-4	Ethylbenzene	2.2	U	7.0	2.2	0.94
87-68-3	Hexachlorobutadiene	2.2	U	7.0	2.2	0.77
98-82-8	Isopropylbenzene	2.2	U	7.0	2.2	0.82
1634-04-4	Methyl tert-butyl ether	1.1	U	28	1.1	0.47
75-09-2	Methylene Chloride	4.5	U	7.0	4.5	2.2
179601-23-1	m-Xylene & p-Xylene	4.5	U	4.5	4.5	1.5
91-20-3	Naphthalene	2.2	U	7.0	2.2	0.88
104-51-8	n-Butylbenzene	2.2	U	7.0	2.2	0.78
103-65-1	N-Propylbenzene	2.2	U	7.0	2.2	0.81
95-47-6	o-Xylene	2.2	U	7.0	2.2	0.85
99-87-6	p-Isopropyltoluene	2.2	U	7.0	2.2	0.68
135-98-8	sec-Butylbenzene	2.2	U	7.0	2.2	1.1
100-42-5	Styrene	2.2	U	7.0	2.2	0.88
75-65-0	tert-Butyl alcohol	45	U	280	45	18
98-06-6	tert-Butylbenzene	2.2	U	7.0	2.2	0.70
127-18-4	Tetrachloroethene	2.2	U	7.0	2.2	0.82
108-88-3	Toluene	2.2	U	7.0	2.2	0.96
156-60-5	trans-1,2-Dichloroethene	1.1	U	7.0	1.1	0.54
10061-02-6	trans-1,3-Dichloropropene	2.2	U	7.0	2.2	0.94
79-01-6	Trichloroethene	1.1	U	7.0	1.1	0.32
75-69-4	Trichlorofluoromethane	4.5	U	14	4.5	1.5
75-01-4	Vinyl chloride	4.5	U	7.0	4.5	1.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB01-0515-12.5 | Lab Sample ID: 280-69452-4

Matrix: Solid | Lab File ID: J6855.D

Analysis Method: 8260B | Date Collected: 05/18/2015 15:55

Sample wt/vol: 4.36(g) | Date Analyzed: 05/19/2015 20:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

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

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		71-136
460-00-4	4-Bromofluorobenzene (Surr)	96		79-119
1868-53-7	Dibromofluoromethane (Surr)	103		78-119
2037-26-5	Toluene-d8 (Surr)	98		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6855.D
Lims ID: 280-69452-C-4-A Lab Sample ID: 280-69452-4
Client ID: 54400-SB01-0515-12.5
Sample Type: Client
Inject. Date: 19-May-2015 20:11:30 ALS Bottle#: 18 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-4-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 20:52:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.744	5.732	0.012	99	772359	1000.0	
* 1 Fluorobenzene	96	7.729	7.734	-0.006	98	1104948	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.014	-0.005	90	319801	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.877	0.012	95	526963	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.171	7.172	-0.001	93	412193	51.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.468	-0.001	98	444192	53.3	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	94	1155507	49.0	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	87	517288	48.2	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

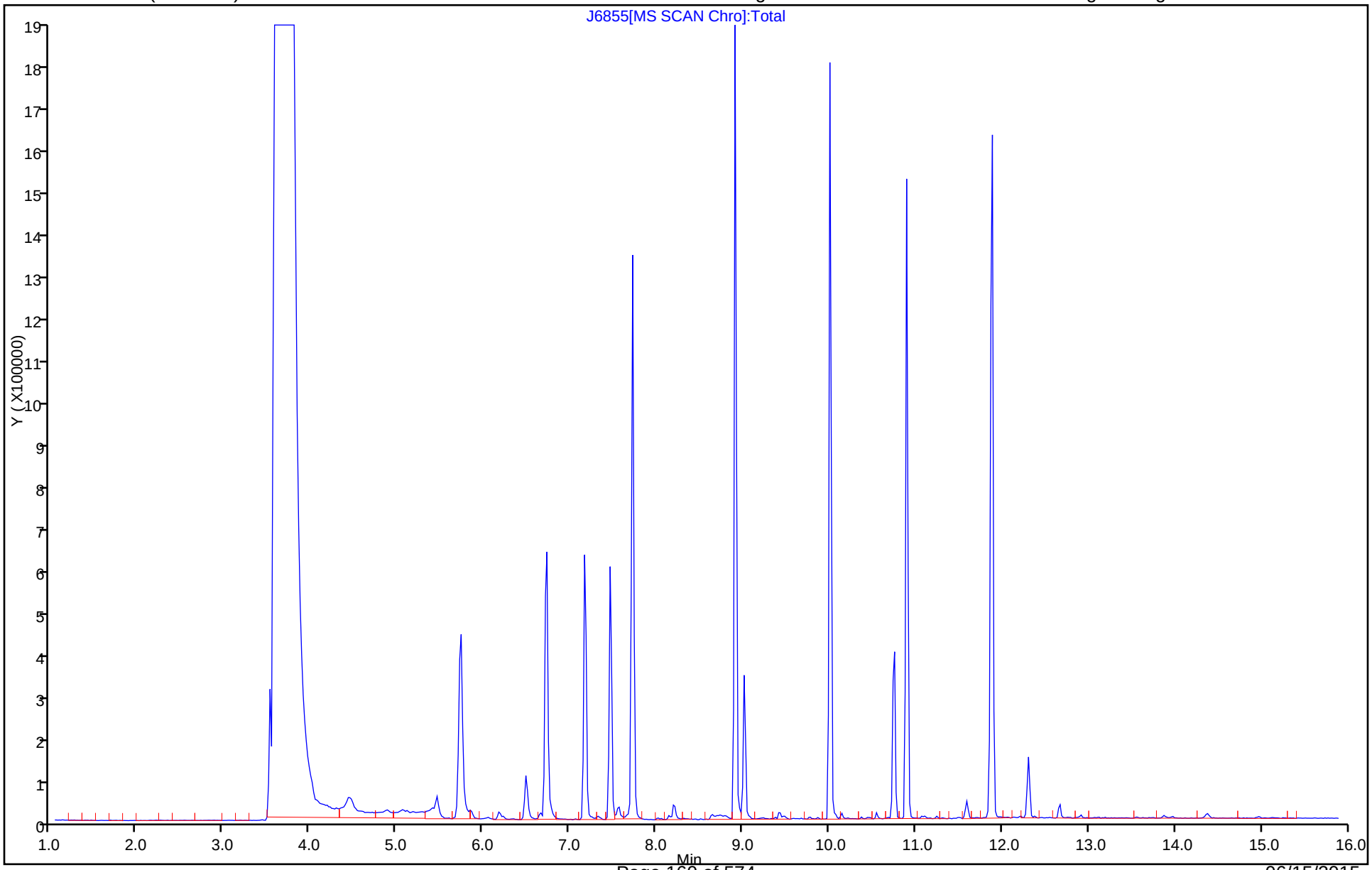
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:44 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6855.D				
Injection Date:	19-May-2015 20:11:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-4-A	Lab Sample ID:	280-69452-4	Worklist Smp#:	11
Client ID:	54400-SB01-0515-12.5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-15 | Lab Sample ID: 280-69452-5
Matrix: Solid | Lab File ID: J6856.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:58
Sample wt/vol: 5.854(g) | Date Analyzed: 05/19/2015 20:31
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.5 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.7	U	5.2	1.7	0.59
71-55-6	1,1,1-Trichloroethane	1.7	U	5.2	1.7	0.55
79-34-5	1,1,2,2-Tetrachloroethane	1.7	U	5.2	1.7	0.64
79-00-5	1,1,2-Trichloroethane	3.4	U	5.2	3.4	0.92
75-34-3	1,1-Dichloroethane	0.84	U	5.2	0.84	0.22
75-35-4	1,1-Dichloroethene	1.7	U	5.2	1.7	0.62
563-58-6	1,1-Dichloropropene	1.7	U	5.2	1.7	0.57
87-61-6	1,2,3-Trichlorobenzene	1.7	U	5.2	1.7	0.79
96-18-4	1,2,3-Trichloropropane	3.4	U	5.2	3.4	0.85
120-82-1	1,2,4-Trichlorobenzene	1.7	U	5.2	1.7	0.77
95-63-6	1,2,4-Trimethylbenzene	1.7	U	5.2	1.7	0.61
96-12-8	1,2-Dibromo-3-Chloropropane	1.7	U	10	1.7	0.63
106-93-4	1,2-Dibromoethane	1.7	U	5.2	1.7	0.55
95-50-1	1,2-Dichlorobenzene	1.7	U	5.2	1.7	0.47
107-06-2	1,2-Dichloroethane	1.7	U	5.2	1.7	0.73
78-87-5	1,2-Dichloropropane	1.7	U	5.2	1.7	0.58
108-67-8	1,3,5-Trimethylbenzene	1.7	U	5.2	1.7	0.60
541-73-1	1,3-Dichlorobenzene	1.7	U	5.2	1.7	0.50
142-28-9	1,3-Dichloropropane	1.7	U	5.2	1.7	0.53
106-46-7	1,4-Dichlorobenzene	1.7	U	5.2	1.7	0.82
594-20-7	2,2-Dichloropropane	1.7	U	5.2	1.7	0.46
78-93-3	2-Butanone (MEK)	6.7	U	21	6.7	1.9
95-49-8	2-Chlorotoluene	1.7	U	5.2	1.7	0.53
591-78-6	2-Hexanone	13	U	21	13	5.1
106-43-4	4-Chlorotoluene	1.7	U	5.2	1.7	0.82
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	21	13	4.6
67-64-1	Acetone	13	U	21	13	5.6
71-43-2	Benzene	1.7	U	5.2	1.7	0.49
108-86-1	Bromobenzene	1.7	U	5.2	1.7	0.51
74-97-5	Bromochloromethane	0.84	U	5.2	0.84	0.31
75-27-4	Bromodichloromethane	0.84	U	5.2	0.84	0.23
75-25-2	Bromoform	0.84	U	5.2	0.84	0.24
74-83-9	Bromomethane	1.7	U	10	1.7	0.52
75-15-0	Carbon disulfide	1.7	U	5.2	1.7	0.44
56-23-5	Carbon tetrachloride	1.7	U	5.2	1.7	0.66
108-90-7	Chlorobenzene	1.7	U	5.2	1.7	0.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-15 | Lab Sample ID: 280-69452-5
Matrix: Solid | Lab File ID: J6856.D
Analysis Method: 8260B | Date Collected: 05/18/2015 15:58
Sample wt/vol: 5.854(g) | Date Analyzed: 05/19/2015 20:31
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.5 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.7	U	5.2	1.7	0.60
75-00-3	Chloroethane	3.4	U	10	3.4	0.93
67-66-3	Chloroform	0.84	U	10	0.84	0.30
74-87-3	Chloromethane	1.7	U	10	1.7	0.81
156-59-2	cis-1,2-Dichloroethene	1.7	U	5.2	1.7	0.59
10061-01-5	cis-1,3-Dichloropropene	3.4	U	5.2	3.4	1.4
74-95-3	Dibromomethane	3.4	U	5.2	3.4	0.88
75-71-8	Dichlorodifluoromethane	1.7	U	10	1.7	0.55
100-41-4	Ethylbenzene	1.7	U	5.2	1.7	0.70
87-68-3	Hexachlorobutadiene	1.7	U	5.2	1.7	0.58
98-82-8	Isopropylbenzene	1.7	U	5.2	1.7	0.62
1634-04-4	Methyl tert-butyl ether	0.84	U	21	0.84	0.36
75-09-2	Methylene Chloride	3.4	U	5.2	3.4	1.7
179601-23-1	m-Xylene & p-Xylene	3.4	U	3.4	3.4	1.1
91-20-3	Naphthalene	1.7	U	5.2	1.7	0.66
104-51-8	n-Butylbenzene	1.7	U	5.2	1.7	0.59
103-65-1	N-Propylbenzene	1.7	U	5.2	1.7	0.61
95-47-6	o-Xylene	1.7	U	5.2	1.7	0.64
99-87-6	p-Isopropyltoluene	1.7	U	5.2	1.7	0.51
135-98-8	sec-Butylbenzene	1.7	U	5.2	1.7	0.81
100-42-5	Styrene	1.7	U	5.2	1.7	0.66
75-65-0	tert-Butyl alcohol	34	U	210	34	14
98-06-6	tert-Butylbenzene	1.7	U	5.2	1.7	0.52
127-18-4	Tetrachloroethene	1.7	U	5.2	1.7	0.62
108-88-3	Toluene	1.7	U	5.2	1.7	0.72
156-60-5	trans-1,2-Dichloroethene	0.84	U	5.2	0.84	0.41
10061-02-6	trans-1,3-Dichloropropene	1.7	U	5.2	1.7	0.70
79-01-6	Trichloroethene	0.84	U	5.2	0.84	0.24
75-69-4	Trichlorofluoromethane	3.4	U	10	3.4	1.1
75-01-4	Vinyl chloride	3.4	U	5.2	3.4	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB01-0515-15
Lab Sample ID: 280-69452-5
Matrix: Solid
Lab File ID: J6856.D
Analysis Method: 8260B
Date Collected: 05/18/2015 15:58
Sample wt/vol: 5.854(g)
Date Analyzed: 05/19/2015 20:31
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.5
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		71-136
460-00-4	4-Bromofluorobenzene (Surr)	97		79-119
1868-53-7	Dibromofluoromethane (Surr)	104		78-119
2037-26-5	Toluene-d8 (Surr)	100		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6856.D
Lims ID: 280-69452-C-5-A Lab Sample ID: 280-69452-5
Client ID: 54400-SB01-0515-15
Sample Type: Client
Inject. Date: 19-May-2015 20:31:30 ALS Bottle#: 19 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-5-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 20:54:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.733	5.732	0.001	100	523562	1000.0	
* 1 Fluorobenzene	96	7.735	7.734	0.001	99	1072388	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.014	0.001	86	309176	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.878	11.877	0.001	97	506888	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.178	7.172	0.006	92	404927	52.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.474	7.468	0.006	98	424936	52.5	
$ 7 Toluene-d8 (Surr)	98	8.919	8.912	0.007	93	1141974	50.1	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.897	0.006	97	498996	48.4	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

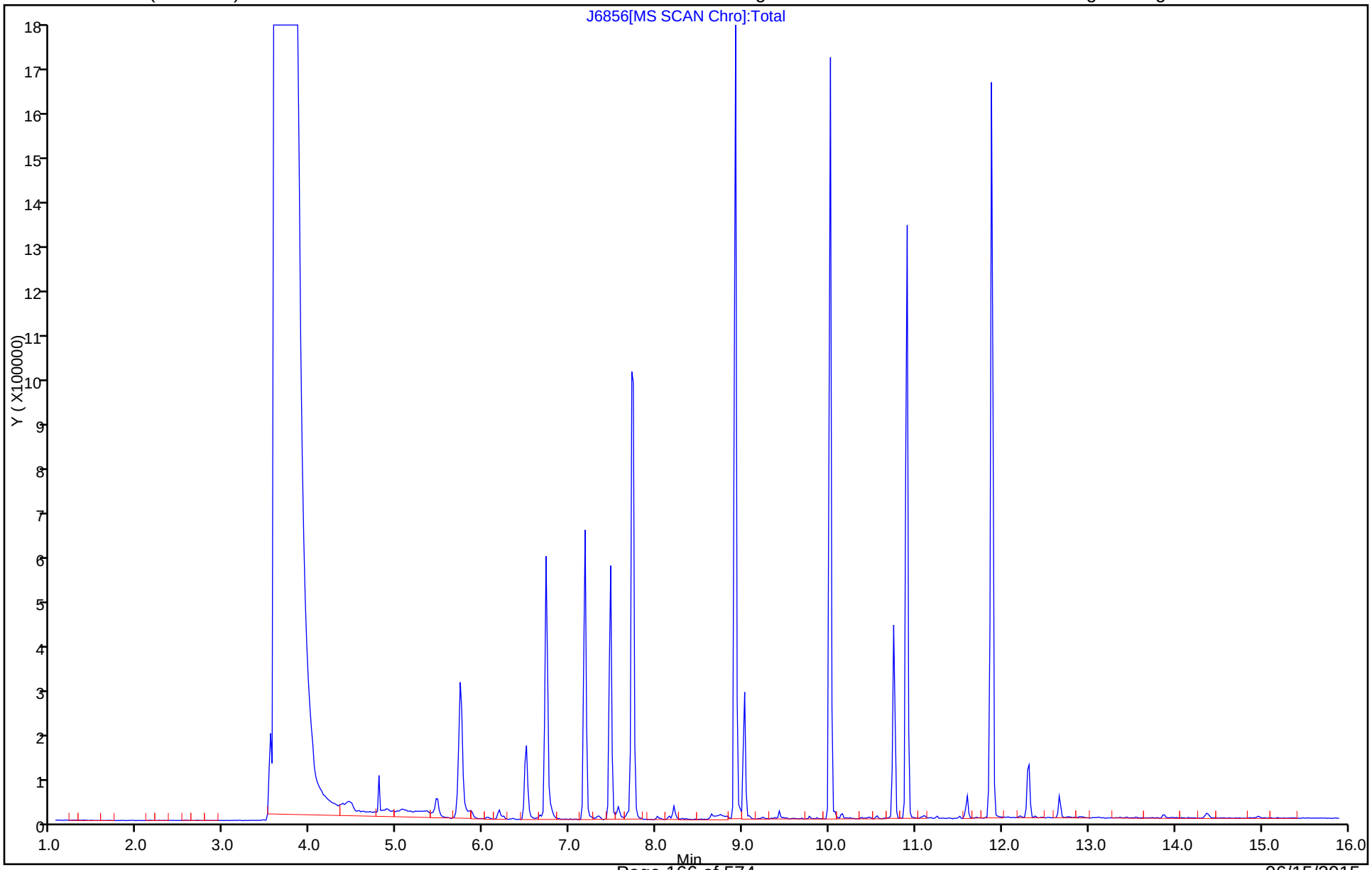
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:45 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6856.D				
Injection Date:	19-May-2015 20:31:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-5-A	Lab Sample ID:	280-69452-5	Worklist Smp#:	12
Client ID:	54400-SB01-0515-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-0 | Lab Sample ID: 280-69452-6
Matrix: Solid | Lab File ID: J6857.D
Analysis Method: 8260B | Date Collected: 05/18/2015 16:32
Sample wt/vol: 5.432(g) | Date Analyzed: 05/19/2015 20:51
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.9 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U	5.7	1.8	0.64
71-55-6	1,1,1-Trichloroethane	1.8	U	5.7	1.8	0.60
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U	5.7	1.8	0.70
79-00-5	1,1,2-Trichloroethane	3.7	U	5.7	3.7	1.0
75-34-3	1,1-Dichloroethane	0.92	U	5.7	0.92	0.24
75-35-4	1,1-Dichloroethene	1.8	U	5.7	1.8	0.68
563-58-6	1,1-Dichloropropene	1.8	U	5.7	1.8	0.62
87-61-6	1,2,3-Trichlorobenzene	1.8	U	5.7	1.8	0.86
96-18-4	1,2,3-Trichloropropane	3.7	U	5.7	3.7	0.93
120-82-1	1,2,4-Trichlorobenzene	1.8	U	5.7	1.8	0.84
95-63-6	1,2,4-Trimethylbenzene	1.8	U	5.7	1.8	0.67
96-12-8	1,2-Dibromo-3-Chloropropane	1.8	U	11	1.8	0.69
106-93-4	1,2-Dibromoethane	1.8	U	5.7	1.8	0.60
95-50-1	1,2-Dichlorobenzene	1.8	U	5.7	1.8	0.52
107-06-2	1,2-Dichloroethane	1.8	U	5.7	1.8	0.80
78-87-5	1,2-Dichloropropane	1.8	U	5.7	1.8	0.63
108-67-8	1,3,5-Trimethylbenzene	1.8	U	5.7	1.8	0.66
541-73-1	1,3-Dichlorobenzene	1.8	U	5.7	1.8	0.55
142-28-9	1,3-Dichloropropane	1.8	U	5.7	1.8	0.59
106-46-7	1,4-Dichlorobenzene	1.8	U	5.7	1.8	0.90
594-20-7	2,2-Dichloropropane	1.8	U	5.7	1.8	0.51
78-93-3	2-Butanone (MEK)	7.4	U	23	7.4	2.1
95-49-8	2-Chlorotoluene	1.8	U	5.7	1.8	0.59
591-78-6	2-Hexanone	15	U	23	15	5.6
106-43-4	4-Chlorotoluene	1.8	U	5.7	1.8	0.90
108-10-1	4-Methyl-2-pentanone (MIBK)	15	U	23	15	5.0
67-64-1	Acetone	15	U	23	15	6.2
71-43-2	Benzene	1.8	U	5.7	1.8	0.54
108-86-1	Bromobenzene	1.8	U	5.7	1.8	0.56
74-97-5	Bromochloromethane	0.92	U	5.7	0.92	0.34
75-27-4	Bromodichloromethane	0.92	U	5.7	0.92	0.25
75-25-2	Bromoform	0.92	U	5.7	0.92	0.26
74-83-9	Bromomethane	1.8	U	11	1.8	0.57
75-15-0	Carbon disulfide	1.8	U	5.7	1.8	0.48
56-23-5	Carbon tetrachloride	1.8	U	5.7	1.8	0.72
108-90-7	Chlorobenzene	1.8	U	5.7	1.8	0.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-0 | Lab Sample ID: 280-69452-6
Matrix: Solid | Lab File ID: J6857.D
Analysis Method: 8260B | Date Collected: 05/18/2015 16:32
Sample wt/vol: 5.432(g) | Date Analyzed: 05/19/2015 20:51
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.9 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.8	U	5.7	1.8	0.66
75-00-3	Chloroethane	3.7	U	11	3.7	1.0
67-66-3	Chloroform	0.92	U	11	0.92	0.33
74-87-3	Chloromethane	1.8	U	11	1.8	0.89
156-59-2	cis-1,2-Dichloroethene	1.8	U	5.7	1.8	0.64
10061-01-5	cis-1,3-Dichloropropene	3.7	U	5.7	3.7	1.5
74-95-3	Dibromomethane	3.7	U	5.7	3.7	0.97
75-71-8	Dichlorodifluoromethane	1.8	U	11	1.8	0.60
100-41-4	Ethylbenzene	1.8	U	5.7	1.8	0.77
87-68-3	Hexachlorobutadiene	1.8	U	5.7	1.8	0.63
98-82-8	Isopropylbenzene	1.8	U	5.7	1.8	0.68
1634-04-4	Methyl tert-butyl ether	0.92	U	23	0.92	0.39
75-09-2	Methylene Chloride	3.7	U	5.7	3.7	1.8
179601-23-1	m-Xylene & p-Xylene	3.7	U	3.7	3.7	1.2
91-20-3	Naphthalene	1.8	U	5.7	1.8	0.72
104-51-8	n-Butylbenzene	1.8	U	5.7	1.8	0.64
103-65-1	N-Propylbenzene	1.8	U	5.7	1.8	0.67
95-47-6	o-Xylene	1.8	U	5.7	1.8	0.70
99-87-6	p-Isopropyltoluene	1.8	U	5.7	1.8	0.56
135-98-8	sec-Butylbenzene	1.8	U	5.7	1.8	0.89
100-42-5	Styrene	1.8	U	5.7	1.8	0.72
75-65-0	tert-Butyl alcohol	37	U	230	37	15
98-06-6	tert-Butylbenzene	1.8	U	5.7	1.8	0.57
127-18-4	Tetrachloroethene	1.8	U	5.7	1.8	0.68
108-88-3	Toluene	1.8	U	5.7	1.8	0.79
156-60-5	trans-1,2-Dichloroethene	0.92	U	5.7	0.92	0.45
10061-02-6	trans-1,3-Dichloropropene	1.8	U	5.7	1.8	0.77
79-01-6	Trichloroethene	0.92	U	5.7	0.92	0.26
75-69-4	Trichlorofluoromethane	3.7	U	11	3.7	1.2
75-01-4	Vinyl chloride	3.7	U	5.7	3.7	1.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB02-0515-0 | Lab Sample ID: 280-69452-6

Matrix: Solid | Lab File ID: J6857.D

Analysis Method: 8260B | Date Collected: 05/18/2015 16:32

Sample wt/vol: 5.432(g) | Date Analyzed: 05/19/2015 20:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: 19.9 | Level: (low/med) Low

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		71-136
460-00-4	4-Bromofluorobenzene (Surr)	94		79-119
1868-53-7	Dibromofluoromethane (Surr)	100		78-119
2037-26-5	Toluene-d8 (Surr)	100		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6857.D
Lims ID: 280-69452-C-6-A Lab Sample ID: 280-69452-6
Client ID: 54400-SB02-0515-0
Sample Type: Client
Inject. Date: 19-May-2015 20:51:30 ALS Bottle#: 20 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-6-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 21:19:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.744	5.732	0.012	100	714102	1000.0	
* 1 Fluorobenzene	96	7.728	7.734	-0.006	98	1089652	50.0	
* 2 Chlorobenzene-d5	119	10.008	10.014	-0.006	88	310139	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.888	11.877	0.011	95	515082	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.171	7.172	-0.001	92	396709	50.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.468	-0.001	98	427134	51.9	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	94	1138458	49.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.896	10.897	-0.001	88	492303	47.0	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

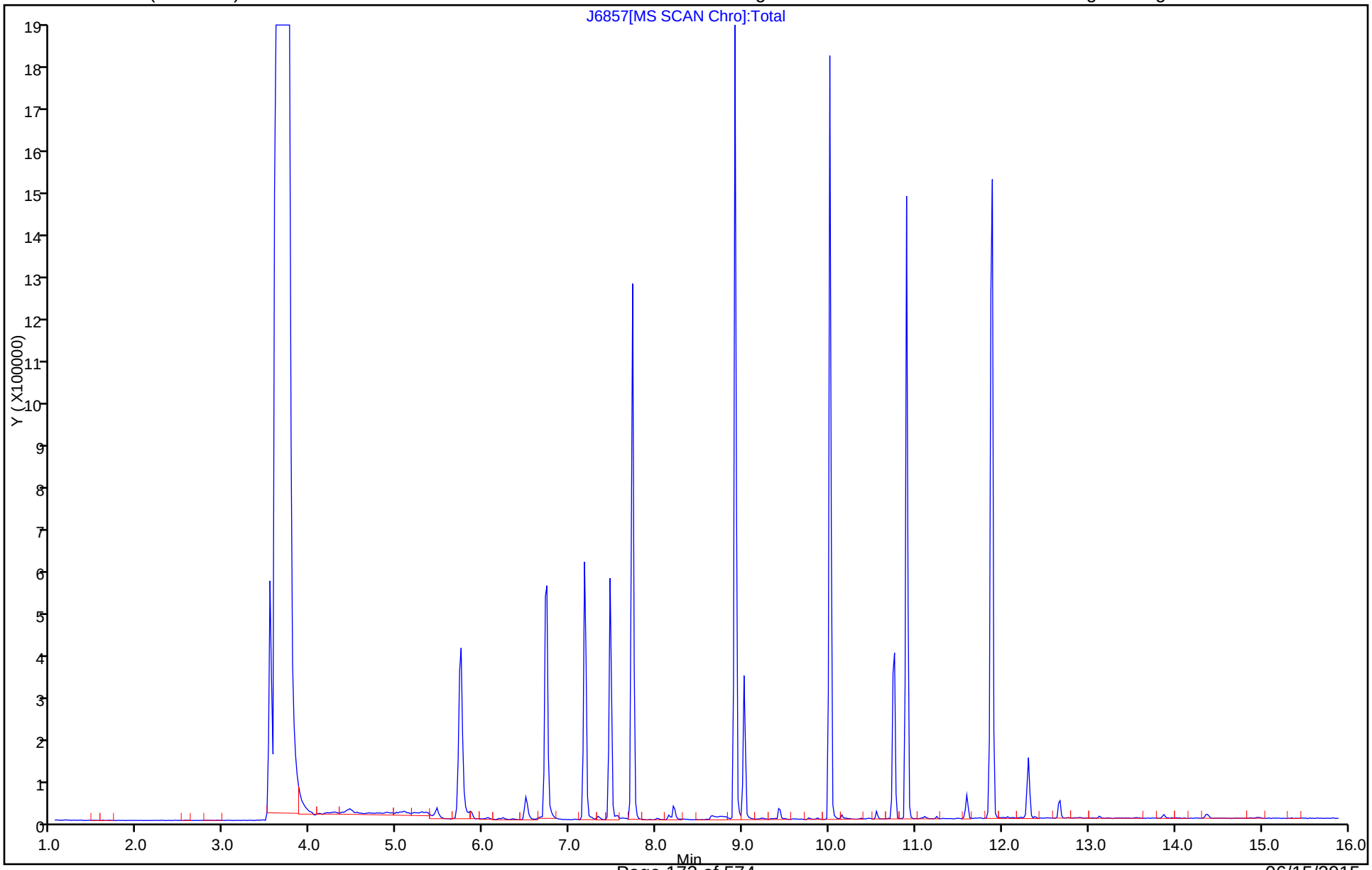
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:46 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6857.D				
Injection Date:	19-May-2015 20:51:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-6-A	Lab Sample ID:	280-69452-6	Worklist Smp#:	13
Client ID:	54400-SB02-0515-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-2.5 | Lab Sample ID: 280-69452-7
Matrix: Solid | Lab File ID: J6858.D
Analysis Method: 8260B | Date Collected: 05/18/2015 16:38
Sample wt/vol: 5.504(g) | Date Analyzed: 05/19/2015 21:12
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 17.9 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U	5.5	1.8	0.62
71-55-6	1,1,1-Trichloroethane	1.8	U	5.5	1.8	0.58
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U	5.5	1.8	0.67
79-00-5	1,1,2-Trichloroethane	3.5	U	5.5	3.5	0.97
75-34-3	1,1-Dichloroethane	0.89	U	5.5	0.89	0.23
75-35-4	1,1-Dichloroethene	1.8	U	5.5	1.8	0.65
563-58-6	1,1-Dichloropropene	1.8	U	5.5	1.8	0.60
87-61-6	1,2,3-Trichlorobenzene	1.8	U	5.5	1.8	0.83
96-18-4	1,2,3-Trichloropropane	3.5	U	5.5	3.5	0.90
120-82-1	1,2,4-Trichlorobenzene	1.8	U	5.5	1.8	0.81
95-63-6	1,2,4-Trimethylbenzene	1.8	U	5.5	1.8	0.64
96-12-8	1,2-Dibromo-3-Chloropropane	1.8	U	11	1.8	0.66
106-93-4	1,2-Dibromoethane	1.8	U	5.5	1.8	0.58
95-50-1	1,2-Dichlorobenzene	1.8	U	5.5	1.8	0.50
107-06-2	1,2-Dichloroethane	1.8	U	5.5	1.8	0.77
78-87-5	1,2-Dichloropropane	1.8	U	5.5	1.8	0.61
108-67-8	1,3,5-Trimethylbenzene	1.8	U	5.5	1.8	0.63
541-73-1	1,3-Dichlorobenzene	1.8	U	5.5	1.8	0.53
142-28-9	1,3-Dichloropropane	1.8	U	5.5	1.8	0.56
106-46-7	1,4-Dichlorobenzene	1.8	U	5.5	1.8	0.86
594-20-7	2,2-Dichloropropane	1.8	U	5.5	1.8	0.49
78-93-3	2-Butanone (MEK)	7.1	U	22	7.1	2.0
95-49-8	2-Chlorotoluene	1.8	U	5.5	1.8	0.56
591-78-6	2-Hexanone	14	U	22	14	5.4
106-43-4	4-Chlorotoluene	1.8	U	5.5	1.8	0.86
108-10-1	4-Methyl-2-pentanone (MIBK)	14	U	22	14	4.8
67-64-1	Acetone	14	U	22	14	6.0
71-43-2	Benzene	1.8	U	5.5	1.8	0.52
108-86-1	Bromobenzene	1.8	U	5.5	1.8	0.54
74-97-5	Bromochloromethane	0.89	U	5.5	0.89	0.33
75-27-4	Bromodichloromethane	0.89	U	5.5	0.89	0.24
75-25-2	Bromoform	0.89	U	5.5	0.89	0.25
74-83-9	Bromomethane	1.8	U	11	1.8	0.55
75-15-0	Carbon disulfide	1.8	U	5.5	1.8	0.46
56-23-5	Carbon tetrachloride	1.8	U	5.5	1.8	0.70
108-90-7	Chlorobenzene	1.8	U	5.5	1.8	0.60

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-2.5
Lab Sample ID: 280-69452-7
Matrix: Solid
Lab File ID: J6858.D
Analysis Method: 8260B
Date Collected: 05/18/2015 16:38
Sample wt/vol: 5.504(g)
Date Analyzed: 05/19/2015 21:12
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 17.9
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.8	U	5.5	1.8	0.63
75-00-3	Chloroethane	3.5	U	11	3.5	0.98
67-66-3	Chloroform	0.89	U	11	0.89	0.32
74-87-3	Chloromethane	1.8	U	11	1.8	0.85
156-59-2	cis-1,2-Dichloroethene	1.8	U	5.5	1.8	0.62
10061-01-5	cis-1,3-Dichloropropene	3.5	U	5.5	3.5	1.4
74-95-3	Dibromomethane	3.5	U	5.5	3.5	0.93
75-71-8	Dichlorodifluoromethane	1.8	U	11	1.8	0.58
100-41-4	Ethylbenzene	1.8	U	5.5	1.8	0.74
87-68-3	Hexachlorobutadiene	1.8	U	5.5	1.8	0.61
98-82-8	Isopropylbenzene	1.8	U	5.5	1.8	0.65
1634-04-4	Methyl tert-butyl ether	0.89	U	22	0.89	0.38
75-09-2	Methylene Chloride	3.5	U	5.5	3.5	1.8
179601-23-1	m-Xylene & p-Xylene	3.5	U	3.5	3.5	1.2
91-20-3	Naphthalene	1.8	U	5.5	1.8	0.70
104-51-8	n-Butylbenzene	1.8	U	5.5	1.8	0.62
103-65-1	N-Propylbenzene	1.8	U	5.5	1.8	0.64
95-47-6	o-Xylene	1.8	U	5.5	1.8	0.67
99-87-6	p-Isopropyltoluene	1.8	U	5.5	1.8	0.54
135-98-8	sec-Butylbenzene	1.8	U	5.5	1.8	0.85
100-42-5	Styrene	1.8	U	5.5	1.8	0.70
75-65-0	tert-Butyl alcohol	35	U	220	35	14
98-06-6	tert-Butylbenzene	1.8	U	5.5	1.8	0.55
127-18-4	Tetrachloroethene	1.8	U	5.5	1.8	0.65
108-88-3	Toluene	1.8	U	5.5	1.8	0.76
156-60-5	trans-1,2-Dichloroethene	0.89	U	5.5	0.89	0.43
10061-02-6	trans-1,3-Dichloropropene	1.8	U	5.5	1.8	0.74
79-01-6	Trichloroethene	0.89	U	5.5	0.89	0.25
75-69-4	Trichlorofluoromethane	3.5	U	11	3.5	1.2
75-01-4	Vinyl chloride	3.5	U	5.5	3.5	1.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-2.5
Lab Sample ID: 280-69452-7
Matrix: Solid
Lab File ID: J6858.D
Analysis Method: 8260B
Date Collected: 05/18/2015 16:38
Sample wt/vol: 5.504(g)
Date Analyzed: 05/19/2015 21:12
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 17.9
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		71-136
460-00-4	4-Bromofluorobenzene (Surr)	93		79-119
1868-53-7	Dibromofluoromethane (Surr)	101		78-119
2037-26-5	Toluene-d8 (Surr)	101		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6858.D
Lims ID: 280-69452-C-7-A Lab Sample ID: 280-69452-7
Client ID: 54400-SB02-0515-2.5
Sample Type: Client
Inject. Date: 19-May-2015 21:12:30 ALS Bottle#: 21 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-7-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 22:06:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.744	5.732	0.012	100	905783	1000.0	
* 1 Fluorobenzene	96	7.729	7.734	-0.005	98	1108123	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.014	-0.005	89	315502	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.877	0.012	96	532699	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	92	405957	50.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.468	-0.001	98	432321	51.7	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	94	1170939	50.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	89	502815	46.4	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

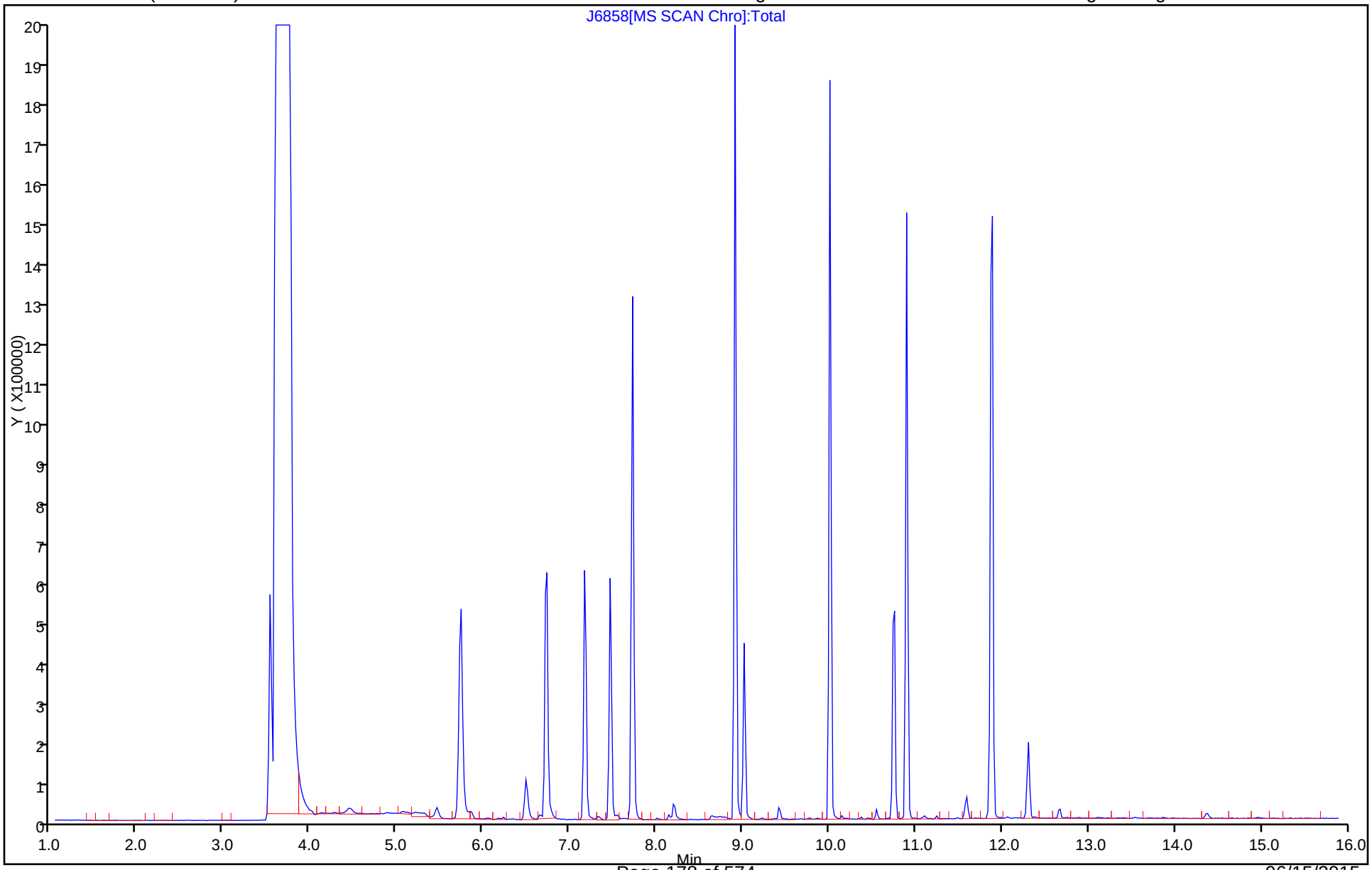
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:47 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6858.D				
Injection Date:	19-May-2015 21:12:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-7-A	Lab Sample ID:	280-69452-7	Worklist Smp#:	14
Client ID:	54400-SB02-0515-2.5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-10 | Lab Sample ID: 280-69452-8
Matrix: Solid | Lab File ID: J6864.D
Analysis Method: 8260B | Date Collected: 05/18/2015 16:54
Sample wt/vol: 2.809(g) | Date Analyzed: 05/19/2015 23:12
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 22.8 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	3.7	U	12	3.7	1.3
71-55-6	1,1,1-Trichloroethane	3.7	U	12	3.7	1.2
79-34-5	1,1,2,2-Tetrachloroethane	3.7	U	12	3.7	1.4
79-00-5	1,1,2-Trichloroethane	7.4	U	12	7.4	2.0
75-34-3	1,1-Dichloroethane	1.8	U	12	1.8	0.48
75-35-4	1,1-Dichloroethene	3.7	U	12	3.7	1.4
563-58-6	1,1-Dichloropropene	3.7	U	12	3.7	1.2
87-61-6	1,2,3-Trichlorobenzene	3.7	U	12	3.7	1.7
96-18-4	1,2,3-Trichloropropane	7.4	U	12	7.4	1.9
120-82-1	1,2,4-Trichlorobenzene	3.7	U	12	3.7	1.7
95-63-6	1,2,4-Trimethylbenzene	3.7	U	12	3.7	1.3
96-12-8	1,2-Dibromo-3-Chloropropane	3.7	U	23	3.7	1.4
106-93-4	1,2-Dibromoethane	3.7	U	12	3.7	1.2
95-50-1	1,2-Dichlorobenzene	3.7	U	12	3.7	1.0
107-06-2	1,2-Dichloroethane	3.7	U	12	3.7	1.6
78-87-5	1,2-Dichloropropane	3.7	U	12	3.7	1.3
108-67-8	1,3,5-Trimethylbenzene	3.7	U	12	3.7	1.3
541-73-1	1,3-Dichlorobenzene	3.7	U	12	3.7	1.1
142-28-9	1,3-Dichloropropane	3.7	U	12	3.7	1.2
106-46-7	1,4-Dichlorobenzene	3.7	U	12	3.7	1.8
594-20-7	2,2-Dichloropropane	3.7	U	12	3.7	1.0
78-93-3	2-Butanone (MEK)	15	U	46	15	4.2
95-49-8	2-Chlorotoluene	3.7	U	12	3.7	1.2
591-78-6	2-Hexanone	30	U	46	30	11
106-43-4	4-Chlorotoluene	3.7	U	12	3.7	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	30	U	46	30	10
67-64-1	Acetone	30	U	46	30	12
71-43-2	Benzene	3.7	U	12	3.7	1.1
108-86-1	Bromobenzene	3.7	U	12	3.7	1.1
74-97-5	Bromochloromethane	1.8	U	12	1.8	0.69
75-27-4	Bromodichloromethane	1.8	U	12	1.8	0.51
75-25-2	Bromoform	1.8	U	12	1.8	0.53
74-83-9	Bromomethane	3.7	U	23	3.7	1.2
75-15-0	Carbon disulfide	3.7	U	12	3.7	0.97
56-23-5	Carbon tetrachloride	3.7	U	12	3.7	1.5
108-90-7	Chlorobenzene	3.7	U	12	3.7	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-10 | Lab Sample ID: 280-69452-8
Matrix: Solid | Lab File ID: J6864.D
Analysis Method: 8260B | Date Collected: 05/18/2015 16:54
Sample wt/vol: 2.809(g) | Date Analyzed: 05/19/2015 23:12
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 22.8 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	3.7	U	12	3.7	1.3
75-00-3	Chloroethane	7.4	U	23	7.4	2.1
67-66-3	Chloroform	1.8	U	23	1.8	0.67
74-87-3	Chloromethane	3.7	U	23	3.7	1.8
156-59-2	cis-1,2-Dichloroethene	3.7	U	12	3.7	1.3
10061-01-5	cis-1,3-Dichloropropene	7.4	U	12	7.4	3.0
74-95-3	Dibromomethane	7.4	U	12	7.4	1.9
75-71-8	Dichlorodifluoromethane	3.7	U	23	3.7	1.2
100-41-4	Ethylbenzene	3.7	U	12	3.7	1.5
87-68-3	Hexachlorobutadiene	3.7	U	12	3.7	1.3
98-82-8	Isopropylbenzene	3.7	U	12	3.7	1.4
1634-04-4	Methyl tert-butyl ether	1.8	U	46	1.8	0.78
75-09-2	Methylene Chloride	7.4	U	12	7.4	3.7
179601-23-1	m-Xylene & p-Xylene	7.4	U	7.4	7.4	2.4
91-20-3	Naphthalene	3.7	U	12	3.7	1.5
104-51-8	n-Butylbenzene	3.7	U	12	3.7	1.3
103-65-1	N-Propylbenzene	3.7	U	12	3.7	1.3
95-47-6	o-Xylene	3.7	U	12	3.7	1.4
99-87-6	p-Isopropyltoluene	3.7	U	12	3.7	1.1
135-98-8	sec-Butylbenzene	3.7	U	12	3.7	1.8
100-42-5	Styrene	3.7	U	12	3.7	1.5
75-65-0	tert-Butyl alcohol	74	U	460	74	30
98-06-6	tert-Butylbenzene	3.7	U	12	3.7	1.2
127-18-4	Tetrachloroethene	3.7	U	12	3.7	1.4
108-88-3	Toluene	3.7	U	12	3.7	1.6
156-60-5	trans-1,2-Dichloroethene	1.8	U	12	1.8	0.90
10061-02-6	trans-1,3-Dichloropropene	3.7	U	12	3.7	1.5
79-01-6	Trichloroethene	1.8	U	12	1.8	0.53
75-69-4	Trichlorofluoromethane	7.4	U	23	7.4	2.4
75-01-4	Vinyl chloride	7.4	U	12	7.4	3.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB02-0515-10 | Lab Sample ID: 280-69452-8

Matrix: Solid | Lab File ID: J6864.D

Analysis Method: 8260B | Date Collected: 05/18/2015 16:54

Sample wt/vol: 2.809(g) | Date Analyzed: 05/19/2015 23:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: 22.8 | Level: (low/med) Low

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		71-136
460-00-4	4-Bromofluorobenzene (Surr)	99		79-119
1868-53-7	Dibromofluoromethane (Surr)	103		78-119
2037-26-5	Toluene-d8 (Surr)	101		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6864.D
Lims ID: 280-69452-C-8-A Lab Sample ID: 280-69452-8
Client ID: 54400-SB02-0515-10
Sample Type: Client
Inject. Date: 19-May-2015 23:12:30 ALS Bottle#: 27 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-8-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 23:46:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.729	5.732	-0.003	100	441802	1000.0	
* 1 Fluorobenzene	96	7.731	7.734	-0.003	98	1110136	50.0	
* 2 Chlorobenzene-d5	119	10.011	10.014	-0.003	86	320870	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.874	11.877	-0.003	98	502236	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.174	7.172	0.002	92	415366	51.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.470	7.468	0.002	98	440341	52.6	
$ 7 Toluene-d8 (Surr)	98	8.915	8.912	0.003	93	1196649	50.6	
$ 8 4-Bromofluorobenzene (Surr	95	10.899	10.897	0.002	94	506950	49.6	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

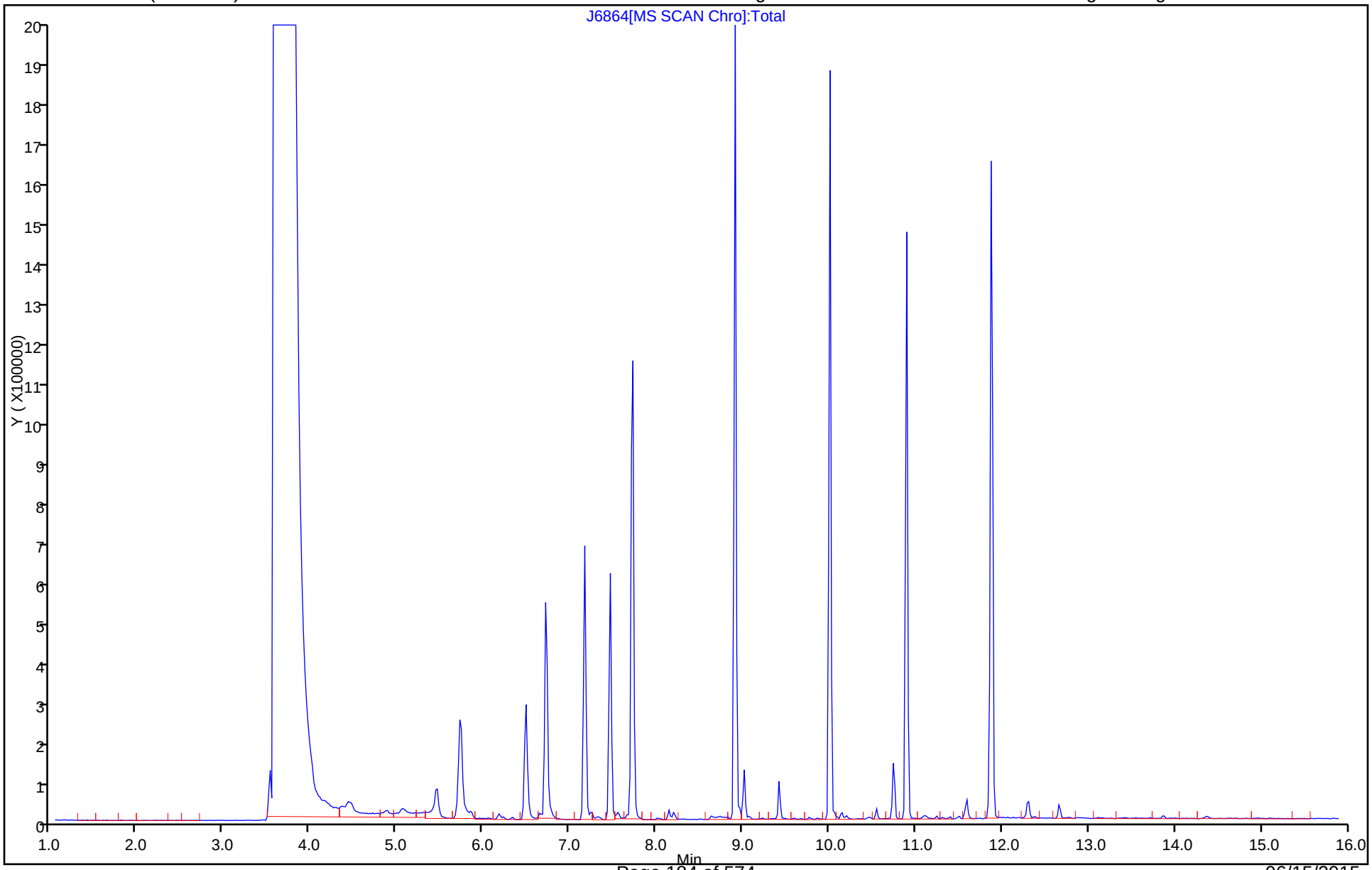
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:52 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6864.D				
Injection Date:	19-May-2015 23:12:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-8-A	Lab Sample ID:	280-69452-8	Worklist Smp#:	20
Client ID:	54400-SB02-0515-10				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-15 | Lab Sample ID: 280-69452-9
Matrix: Solid | Lab File ID: J6859.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:00
Sample wt/vol: 5.54(g) | Date Analyzed: 05/19/2015 21:32
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.2 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U	5.6	1.8	0.63
71-55-6	1,1,1-Trichloroethane	1.8	U	5.6	1.8	0.58
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U	5.6	1.8	0.68
79-00-5	1,1,2-Trichloroethane	3.6	U	5.6	3.6	0.98
75-34-3	1,1-Dichloroethane	0.89	U	5.6	0.89	0.23
75-35-4	1,1-Dichloroethene	1.8	U	5.6	1.8	0.66
563-58-6	1,1-Dichloropropene	1.8	U	5.6	1.8	0.60
87-61-6	1,2,3-Trichlorobenzene	1.8	U	5.6	1.8	0.84
96-18-4	1,2,3-Trichloropropane	3.6	U	5.6	3.6	0.90
120-82-1	1,2,4-Trichlorobenzene	1.8	U	5.6	1.8	0.82
95-63-6	1,2,4-Trimethylbenzene	1.8	U	5.6	1.8	0.65
96-12-8	1,2-Dibromo-3-Chloropropane	1.8	U	11	1.8	0.67
106-93-4	1,2-Dibromoethane	1.8	U	5.6	1.8	0.58
95-50-1	1,2-Dichlorobenzene	1.8	U	5.6	1.8	0.50
107-06-2	1,2-Dichloroethane	1.8	U	5.6	1.8	0.78
78-87-5	1,2-Dichloropropane	1.8	U	5.6	1.8	0.61
108-67-8	1,3,5-Trimethylbenzene	1.8	U	5.6	1.8	0.64
541-73-1	1,3-Dichlorobenzene	1.8	U	5.6	1.8	0.54
142-28-9	1,3-Dichloropropane	1.8	U	5.6	1.8	0.57
106-46-7	1,4-Dichlorobenzene	1.8	U	5.6	1.8	0.87
594-20-7	2,2-Dichloropropane	1.8	U	5.6	1.8	0.49
78-93-3	2-Butanone (MEK)	7.1	U	22	7.1	2.0
95-49-8	2-Chlorotoluene	1.8	U	5.6	1.8	0.57
591-78-6	2-Hexanone	14	U	22	14	5.5
106-43-4	4-Chlorotoluene	1.8	U	5.6	1.8	0.87
108-10-1	4-Methyl-2-pentanone (MIBK)	14	U	22	14	4.9
67-64-1	Acetone	14	U	22	14	6.0
71-43-2	Benzene	1.8	U	5.6	1.8	0.52
108-86-1	Bromobenzene	1.8	U	5.6	1.8	0.55
74-97-5	Bromochloromethane	0.89	U	5.6	0.89	0.33
75-27-4	Bromodichloromethane	0.89	U	5.6	0.89	0.25
75-25-2	Bromoform	0.89	U	5.6	0.89	0.26
74-83-9	Bromomethane	1.8	U	11	1.8	0.56
75-15-0	Carbon disulfide	1.8	U	5.6	1.8	0.47
56-23-5	Carbon tetrachloride	1.8	U	5.6	1.8	0.70
108-90-7	Chlorobenzene	1.8	U	5.6	1.8	0.60

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-15 | Lab Sample ID: 280-69452-9
Matrix: Solid | Lab File ID: J6859.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:00
Sample wt/vol: 5.54(g) | Date Analyzed: 05/19/2015 21:32
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.2 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.8	U	5.6	1.8	0.64
75-00-3	Chloroethane	3.6	U	11	3.6	0.99
67-66-3	Chloroform	0.89	U	11	0.89	0.32
74-87-3	Chloromethane	1.8	U	11	1.8	0.86
156-59-2	cis-1,2-Dichloroethene	1.8	U	5.6	1.8	0.63
10061-01-5	cis-1,3-Dichloropropene	3.6	U	5.6	3.6	1.4
74-95-3	Dibromomethane	3.6	U	5.6	3.6	0.94
75-71-8	Dichlorodifluoromethane	1.8	U	11	1.8	0.58
100-41-4	Ethylbenzene	0.77	J	5.6	1.8	0.75
87-68-3	Hexachlorobutadiene	1.8	U	5.6	1.8	0.61
98-82-8	Isopropylbenzene	1.8	U	5.6	1.8	0.66
1634-04-4	Methyl tert-butyl ether	0.89	U	22	0.89	0.38
75-09-2	Methylene Chloride	3.6	U	5.6	3.6	1.8
179601-23-1	m-Xylene & p-Xylene	3.6	U	3.6	3.6	1.2
91-20-3	Naphthalene	1.8	U	5.6	1.8	0.70
104-51-8	n-Butylbenzene	1.8	U	5.6	1.8	0.63
103-65-1	N-Propylbenzene	1.8	U	5.6	1.8	0.65
95-47-6	o-Xylene	1.8	U	5.6	1.8	0.68
99-87-6	p-Isopropyltoluene	1.8	U	5.6	1.8	0.55
135-98-8	sec-Butylbenzene	1.8	U	5.6	1.8	0.86
100-42-5	Styrene	1.8	U	5.6	1.8	0.70
75-65-0	tert-Butyl alcohol	36	U	220	36	14
98-06-6	tert-Butylbenzene	1.8	U	5.6	1.8	0.56
127-18-4	Tetrachloroethene	1.8	U	5.6	1.8	0.66
108-88-3	Toluene	1.2	J	5.6	1.8	0.77
156-60-5	trans-1,2-Dichloroethene	0.89	U	5.6	0.89	0.44
10061-02-6	trans-1,3-Dichloropropene	1.8	U	5.6	1.8	0.75
79-01-6	Trichloroethene	0.89	U	5.6	0.89	0.26
75-69-4	Trichlorofluoromethane	3.6	U	11	3.6	1.2
75-01-4	Vinyl chloride	3.6	U	5.6	3.6	1.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB02-0515-15
Lab Sample ID: 280-69452-9
Matrix: Solid
Lab File ID: J6859.D
Analysis Method: 8260B
Date Collected: 05/18/2015 17:00
Sample wt/vol: 5.54(g)
Date Analyzed: 05/19/2015 21:32
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.2
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		71-136
460-00-4	4-Bromofluorobenzene (Surr)	107		79-119
1868-53-7	Dibromofluoromethane (Surr)	106		78-119
2037-26-5	Toluene-d8 (Surr)	108		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6859.D
Lims ID: 280-69452-C-9-A Lab Sample ID: 280-69452-9
Client ID: 54400-SB02-0515-15
Sample Type: Client
Inject. Date: 19-May-2015 21:32:30 ALS Bottle#: 22 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-9-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 22:07:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.744	5.732	0.012	100	560284	1000.0	
* 1 Fluorobenzene	96	7.729	7.734	-0.005	98	1018102	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.014	-0.005	88	285182	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.877	0.012	96	453121	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	92	390709	52.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.468	-0.001	99	422212	55.0	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	94	1138001	54.1	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	88	495119	53.7	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	90	3073	0.5083	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91	8.964	8.965	-0.001	96	25194	1.07	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106	10.061	10.079	-0.018	8	5697	0.6888	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

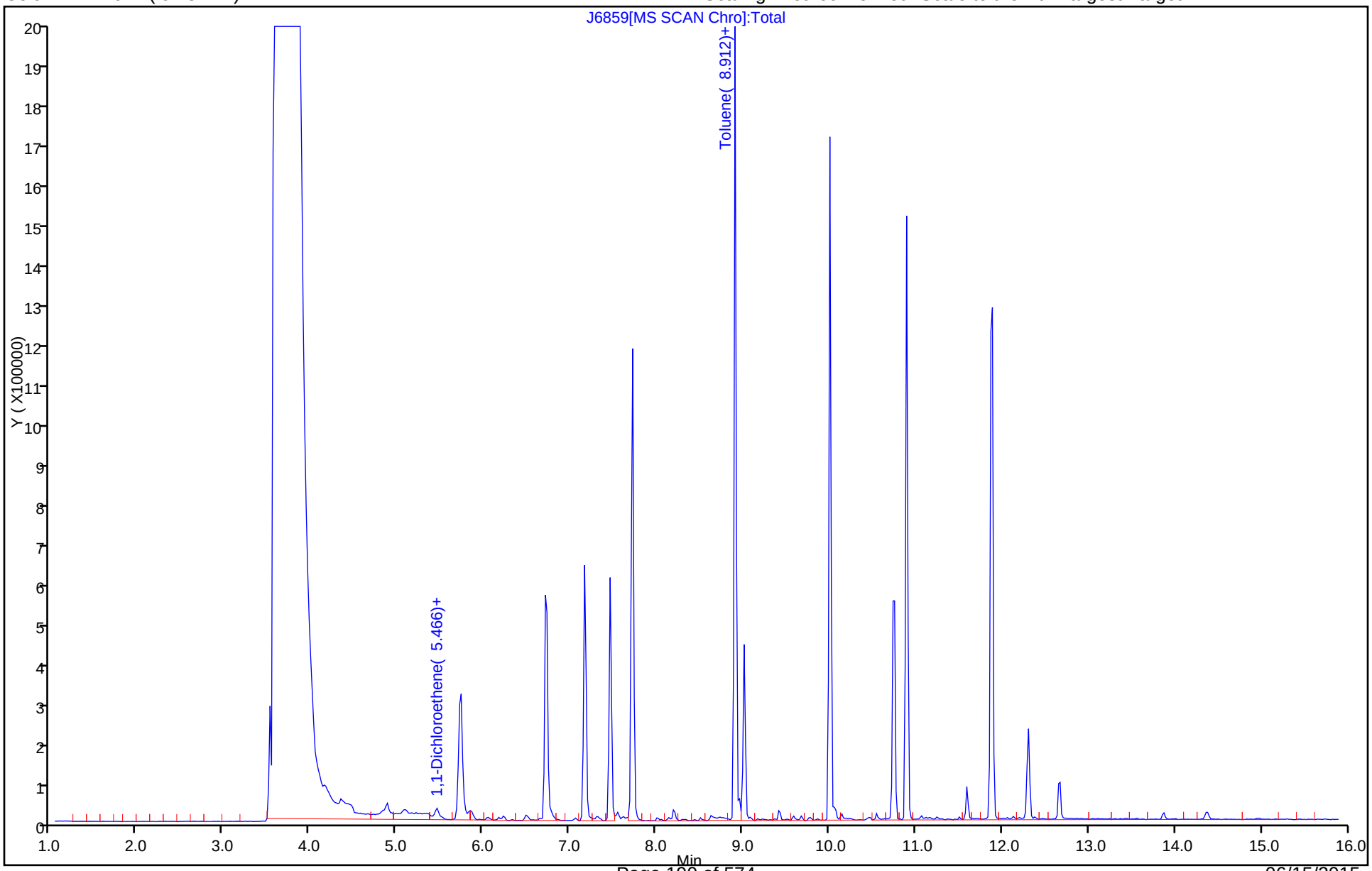
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:48 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6859.D				
Injection Date:	19-May-2015 21:32:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-9-A	Lab Sample ID:	280-69452-9	Worklist Smp#:	15
Client ID:	54400-SB02-0515-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

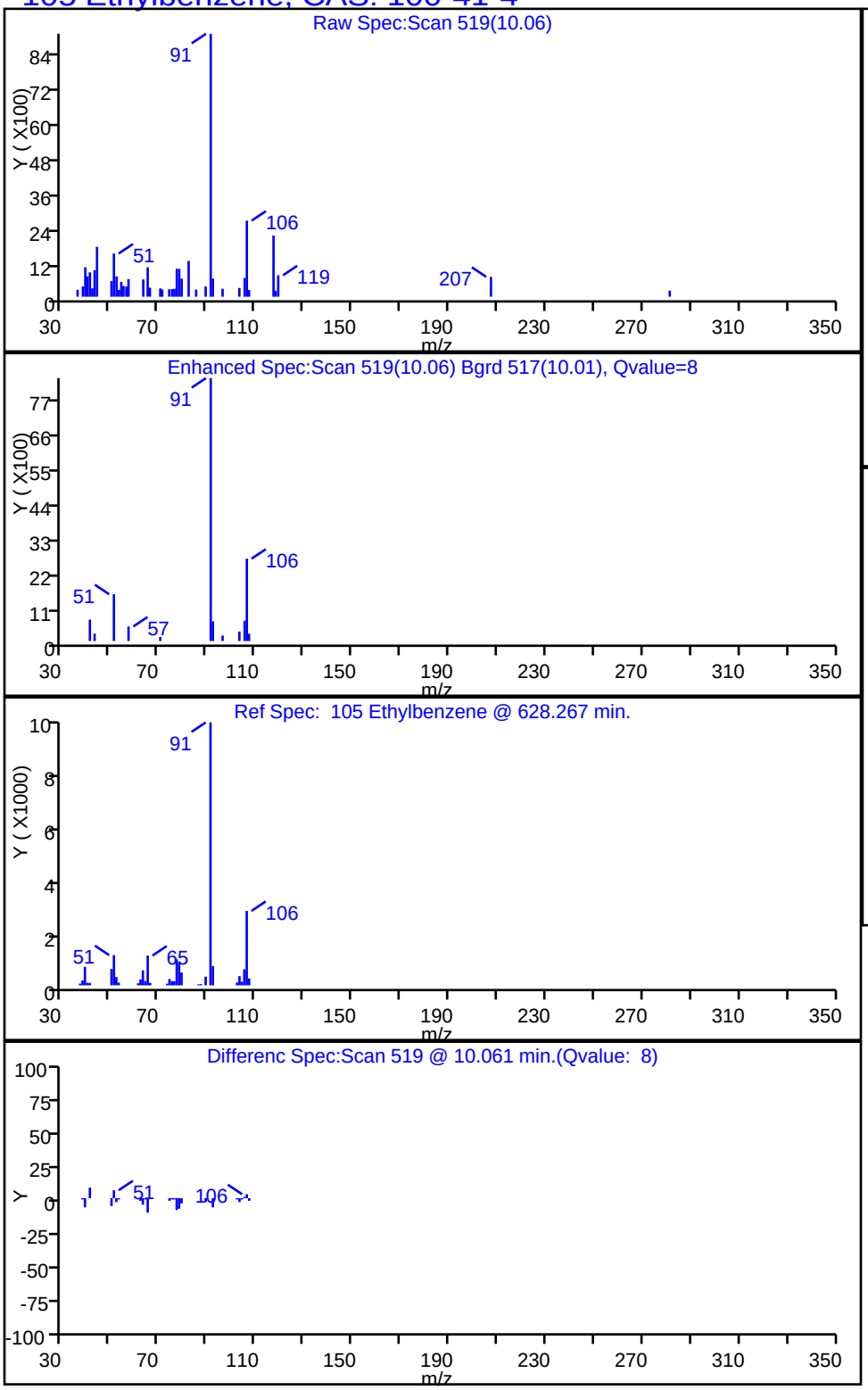


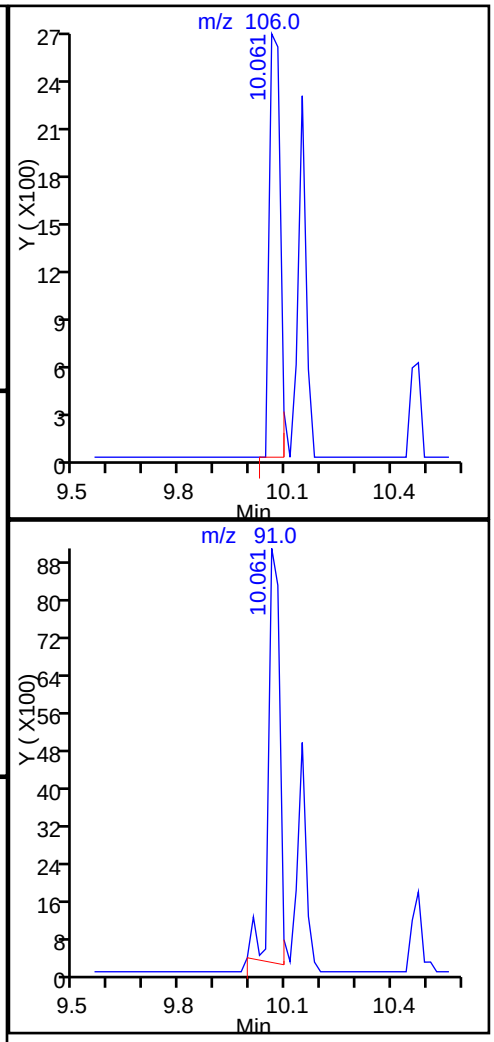
Report Date: 20-May-2015 17:58:48 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6859.D				
Injection Date:	19-May-2015 21:32:30	Instrument ID:	VMS_J		
Lims ID:	280-69452-C-9-A	Lab Sample ID:	280-69452-9		
Client ID:	54400-SB02-0515-15				
Operator ID:	DUKESA	ALS Bottle#:	22	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4



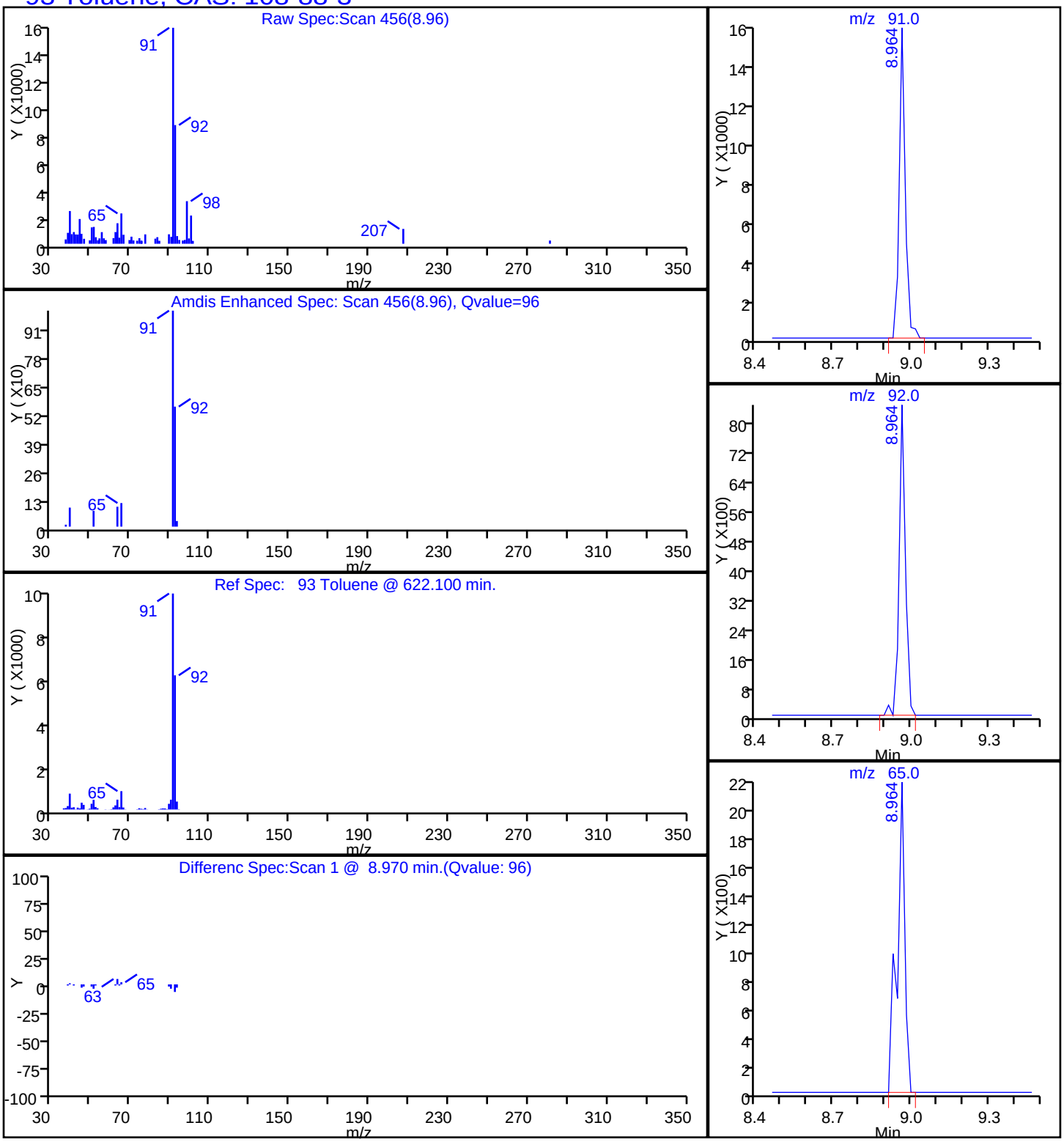


Report Date: 20-May-2015 17:58:48 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6859.D				
Injection Date:	19-May-2015 21:32:30	Instrument ID:	VMS_J		
Lims ID:	280-69452-C-9-A	Lab Sample ID:	280-69452-9		
Client ID:	54400-SB02-0515-15				
Operator ID:	DUKESA	ALS Bottle#:	22	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

93 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-0 | Lab Sample ID: 280-69452-10
Matrix: Solid | Lab File ID: J6860.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:38
Sample wt/vol: 6.822(g) | Date Analyzed: 05/19/2015 21:52
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.0 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U	4.5	1.4	0.51
71-55-6	1,1,1-Trichloroethane	1.4	U	4.5	1.4	0.47
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	4.5	1.4	0.55
79-00-5	1,1,2-Trichloroethane	2.9	U	4.5	2.9	0.80
75-34-3	1,1-Dichloroethane	0.72	U	4.5	0.72	0.19
75-35-4	1,1-Dichloroethene	1.4	U	4.5	1.4	0.53
563-58-6	1,1-Dichloropropene	1.4	U	4.5	1.4	0.49
87-61-6	1,2,3-Trichlorobenzene	1.4	U	4.5	1.4	0.68
96-18-4	1,2,3-Trichloropropane	2.9	U	4.5	2.9	0.73
120-82-1	1,2,4-Trichlorobenzene	1.4	U	4.5	1.4	0.66
95-63-6	1,2,4-Trimethylbenzene	1.4	U	4.5	1.4	0.52
96-12-8	1,2-Dibromo-3-Chloropropane	1.4	U	9.0	1.4	0.54
106-93-4	1,2-Dibromoethane	1.4	U	4.5	1.4	0.47
95-50-1	1,2-Dichlorobenzene	1.4	U	4.5	1.4	0.41
107-06-2	1,2-Dichloroethane	1.4	U	4.5	1.4	0.63
78-87-5	1,2-Dichloropropane	1.4	U	4.5	1.4	0.50
108-67-8	1,3,5-Trimethylbenzene	1.4	U	4.5	1.4	0.52
541-73-1	1,3-Dichlorobenzene	1.4	U	4.5	1.4	0.43
142-28-9	1,3-Dichloropropane	1.4	U	4.5	1.4	0.46
106-46-7	1,4-Dichlorobenzene	1.4	U	4.5	1.4	0.71
594-20-7	2,2-Dichloropropane	1.4	U	4.5	1.4	0.40
78-93-3	2-Butanone (MEK)	5.8	U	18	5.8	1.7
95-49-8	2-Chlorotoluene	1.4	U	4.5	1.4	0.46
591-78-6	2-Hexanone	12	U	18	12	4.4
106-43-4	4-Chlorotoluene	1.4	U	4.5	1.4	0.71
108-10-1	4-Methyl-2-pentanone (MIBK)	12	U	18	12	3.9
67-64-1	Acetone	12	U	18	12	4.9
71-43-2	Benzene	1.4	U	4.5	1.4	0.43
108-86-1	Bromobenzene	1.4	U	4.5	1.4	0.44
74-97-5	Bromochloromethane	0.72	U	4.5	0.72	0.27
75-27-4	Bromodichloromethane	0.72	U	4.5	0.72	0.20
75-25-2	Bromoform	0.72	U	4.5	0.72	0.21
74-83-9	Bromomethane	1.4	U	9.0	1.4	0.45
75-15-0	Carbon disulfide	1.4	U	4.5	1.4	0.38
56-23-5	Carbon tetrachloride	1.4	U	4.5	1.4	0.57
108-90-7	Chlorobenzene	1.4	U	4.5	1.4	0.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-0 | Lab Sample ID: 280-69452-10
Matrix: Solid | Lab File ID: J6860.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:38
Sample wt/vol: 6.822(g) | Date Analyzed: 05/19/2015 21:52
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.0 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.4	U	4.5	1.4	0.52
75-00-3	Chloroethane	2.9	U	9.0	2.9	0.81
67-66-3	Chloroform	0.72	U	9.0	0.72	0.26
74-87-3	Chloromethane	1.4	U	9.0	1.4	0.70
156-59-2	cis-1,2-Dichloroethene	1.4	U	4.5	1.4	0.51
10061-01-5	cis-1,3-Dichloropropene	2.9	U	4.5	2.9	1.2
74-95-3	Dibromomethane	2.9	U	4.5	2.9	0.76
75-71-8	Dichlorodifluoromethane	1.4	U	9.0	1.4	0.47
100-41-4	Ethylbenzene	1.4	U	4.5	1.4	0.61
87-68-3	Hexachlorobutadiene	1.4	U	4.5	1.4	0.50
98-82-8	Isopropylbenzene	1.4	U	4.5	1.4	0.53
1634-04-4	Methyl tert-butyl ether	0.72	U	18	0.72	0.31
75-09-2	Methylene Chloride	2.9	U	4.5	2.9	1.4
179601-23-1	m-Xylene & p-Xylene	2.9	U	2.9	2.9	0.94
91-20-3	Naphthalene	1.4	U	4.5	1.4	0.57
104-51-8	n-Butylbenzene	1.4	U	4.5	1.4	0.51
103-65-1	N-Propylbenzene	1.4	U	4.5	1.4	0.52
95-47-6	o-Xylene	1.4	U	4.5	1.4	0.55
99-87-6	p-Isopropyltoluene	1.4	U	4.5	1.4	0.44
135-98-8	sec-Butylbenzene	1.4	U	4.5	1.4	0.70
100-42-5	Styrene	1.4	U	4.5	1.4	0.57
75-65-0	tert-Butyl alcohol	29	U	180	29	12
98-06-6	tert-Butylbenzene	1.4	U	4.5	1.4	0.45
127-18-4	Tetrachloroethene	1.4	U	4.5	1.4	0.53
108-88-3	Toluene	1.4	U	4.5	1.4	0.62
156-60-5	trans-1,2-Dichloroethene	0.72	U	4.5	0.72	0.35
10061-02-6	trans-1,3-Dichloropropene	1.4	U	4.5	1.4	0.61
79-01-6	Trichloroethene	0.72	U	4.5	0.72	0.21
75-69-4	Trichlorofluoromethane	2.9	U	9.0	2.9	0.94
75-01-4	Vinyl chloride	2.9	U	4.5	2.9	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-0
Lab Sample ID: 280-69452-10
Matrix: Solid
Lab File ID: J6860.D
Analysis Method: 8260B
Date Collected: 05/18/2015 17:38
Sample wt/vol: 6.822(g)
Date Analyzed: 05/19/2015 21:52
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.0
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		71-136
460-00-4	4-Bromofluorobenzene (Surr)	98		79-119
1868-53-7	Dibromofluoromethane (Surr)	103		78-119
2037-26-5	Toluene-d8 (Surr)	99		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6860.D
Lims ID: 280-69452-C-10-A Lab Sample ID: 280-69452-10
Client ID: 54400-SB03-0515-0
Sample Type: Client
Inject. Date: 19-May-2015 21:52:30 ALS Bottle#: 23 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-10-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 22:21:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.746	5.732	0.014	100	812391	1000.0	
* 1 Fluorobenzene	96	7.730	7.734	-0.004	98	1115969	50.0	
* 2 Chlorobenzene-d5	119	10.010	10.014	-0.004	88	323522	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.890	11.877	0.013	96	514294	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.173	7.172	0.001	92	417566	51.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.469	7.468	0.001	98	449238	53.3	
$ 7 Toluene-d8 (Surr)	98	8.914	8.912	0.002	94	1183801	49.6	
$ 8 4-Bromofluorobenzene (Surr	95	10.898	10.897	0.001	91	514074	49.1	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

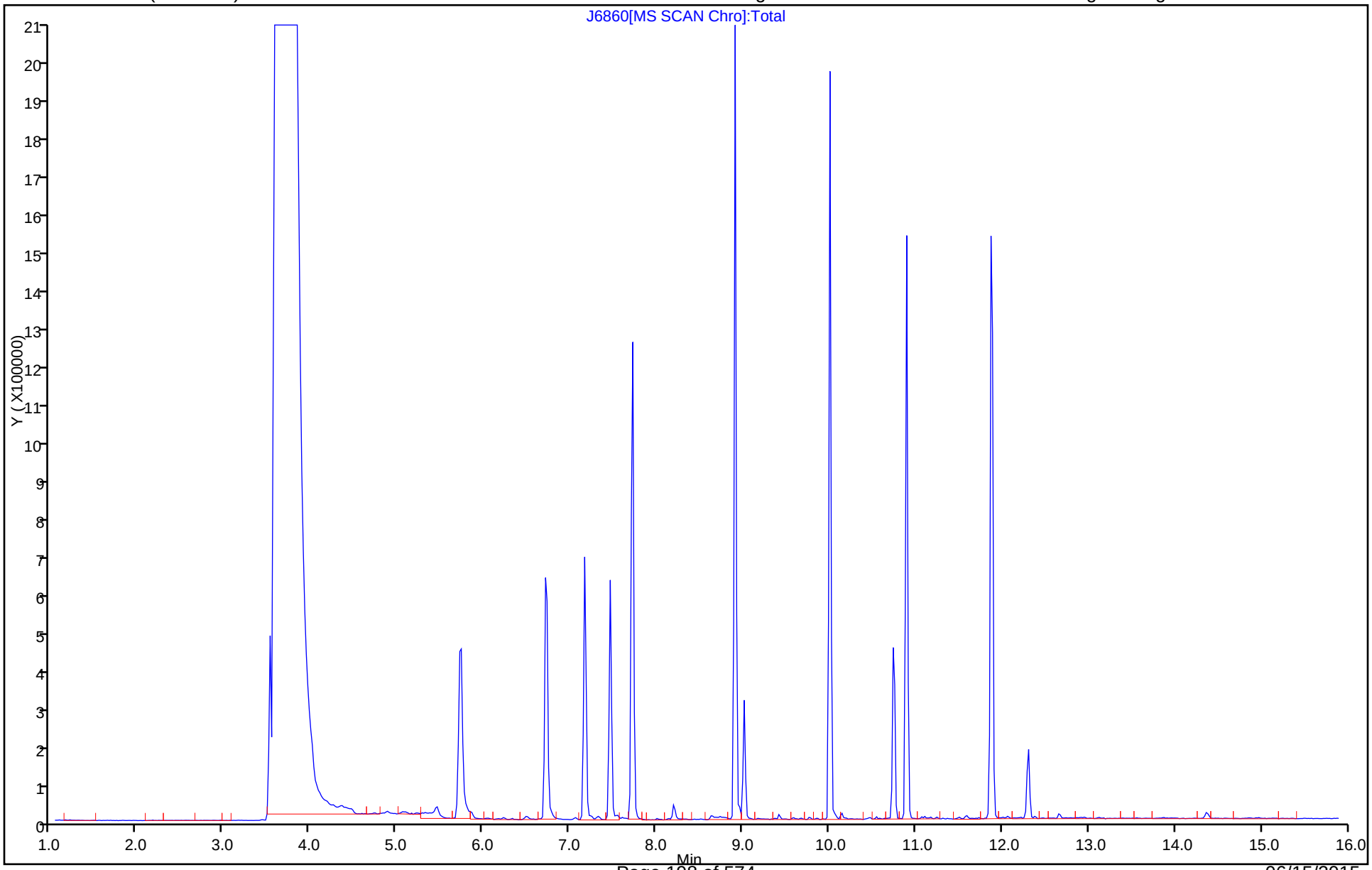
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:48 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6860.D				
Injection Date:	19-May-2015 21:52:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-10-A	Lab Sample ID:	280-69452-10	Worklist Smp#:	16
Client ID:	54400-SB03-0515-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-5 | Lab Sample ID: 280-69452-11
Matrix: Solid | Lab File ID: J6861.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:43
Sample wt/vol: 7.261(g) | Date Analyzed: 05/19/2015 22:12
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 21.0 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U	4.4	1.4	0.49
71-55-6	1,1,1-Trichloroethane	1.4	U	4.4	1.4	0.45
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U	4.4	1.4	0.53
79-00-5	1,1,2-Trichloroethane	2.8	U	4.4	2.8	0.77
75-34-3	1,1-Dichloroethane	0.70	U	4.4	0.70	0.18
75-35-4	1,1-Dichloroethene	1.4	U	4.4	1.4	0.51
563-58-6	1,1-Dichloropropene	1.4	U	4.4	1.4	0.47
87-61-6	1,2,3-Trichlorobenzene	1.4	U	4.4	1.4	0.65
96-18-4	1,2,3-Trichloropropane	2.8	U	4.4	2.8	0.71
120-82-1	1,2,4-Trichlorobenzene	1.4	U	4.4	1.4	0.64
95-63-6	1,2,4-Trimethylbenzene	1.4	U	4.4	1.4	0.51
96-12-8	1,2-Dibromo-3-Chloropropane	1.4	U	8.7	1.4	0.52
106-93-4	1,2-Dibromoethane	1.4	U	4.4	1.4	0.45
95-50-1	1,2-Dichlorobenzene	1.4	U	4.4	1.4	0.39
107-06-2	1,2-Dichloroethane	1.4	U	4.4	1.4	0.61
78-87-5	1,2-Dichloropropane	1.4	U	4.4	1.4	0.48
108-67-8	1,3,5-Trimethylbenzene	1.4	U	4.4	1.4	0.50
541-73-1	1,3-Dichlorobenzene	1.4	U	4.4	1.4	0.42
142-28-9	1,3-Dichloropropane	1.4	U	4.4	1.4	0.44
106-46-7	1,4-Dichlorobenzene	1.4	U	4.4	1.4	0.68
594-20-7	2,2-Dichloropropane	1.4	U	4.4	1.4	0.38
78-93-3	2-Butanone (MEK)	5.6	U	17	5.6	1.6
95-49-8	2-Chlorotoluene	1.4	U	4.4	1.4	0.44
591-78-6	2-Hexanone	11	U	17	11	4.3
106-43-4	4-Chlorotoluene	1.4	U	4.4	1.4	0.68
108-10-1	4-Methyl-2-pentanone (MIBK)	11	U	17	11	3.8
67-64-1	Acetone	11	U	17	11	4.7
71-43-2	Benzene	1.4	U	4.4	1.4	0.41
108-86-1	Bromobenzene	1.4	U	4.4	1.4	0.43
74-97-5	Bromochloromethane	0.70	U	4.4	0.70	0.26
75-27-4	Bromodichloromethane	0.70	U	4.4	0.70	0.19
75-25-2	Bromoform	0.70	U	4.4	0.70	0.20
74-83-9	Bromomethane	1.4	U	8.7	1.4	0.44
75-15-0	Carbon disulfide	1.4	U	4.4	1.4	0.37
56-23-5	Carbon tetrachloride	1.4	U	4.4	1.4	0.55
108-90-7	Chlorobenzene	1.4	U	4.4	1.4	0.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-5 | Lab Sample ID: 280-69452-11
Matrix: Solid | Lab File ID: J6861.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:43
Sample wt/vol: 7.261(g) | Date Analyzed: 05/19/2015 22:12
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 21.0 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.4	U	4.4	1.4	0.50
75-00-3	Chloroethane	2.8	U	8.7	2.8	0.78
67-66-3	Chloroform	0.70	U	8.7	0.70	0.25
74-87-3	Chloromethane	1.4	U	8.7	1.4	0.67
156-59-2	cis-1,2-Dichloroethene	1.4	U	4.4	1.4	0.49
10061-01-5	cis-1,3-Dichloropropene	2.8	U	4.4	2.8	1.1
74-95-3	Dibromomethane	2.8	U	4.4	2.8	0.73
75-71-8	Dichlorodifluoromethane	1.4	U	8.7	1.4	0.45
100-41-4	Ethylbenzene	1.4	U	4.4	1.4	0.58
87-68-3	Hexachlorobutadiene	1.4	U	4.4	1.4	0.48
98-82-8	Isopropylbenzene	1.4	U	4.4	1.4	0.51
1634-04-4	Methyl tert-butyl ether	0.70	U	17	0.70	0.30
75-09-2	Methylene Chloride	2.8	U	4.4	2.8	1.4
179601-23-1	m-Xylene & p-Xylene	2.8	U	2.8	2.8	0.91
91-20-3	Naphthalene	1.4	U	4.4	1.4	0.55
104-51-8	n-Butylbenzene	1.4	U	4.4	1.4	0.49
103-65-1	N-Propylbenzene	1.4	U	4.4	1.4	0.51
95-47-6	o-Xylene	1.4	U	4.4	1.4	0.53
99-87-6	p-Isopropyltoluene	1.4	U	4.4	1.4	0.43
135-98-8	sec-Butylbenzene	1.4	U	4.4	1.4	0.67
100-42-5	Styrene	1.4	U	4.4	1.4	0.55
75-65-0	tert-Butyl alcohol	28	U	170	28	11
98-06-6	tert-Butylbenzene	1.4	U	4.4	1.4	0.44
127-18-4	Tetrachloroethene	1.4	U	4.4	1.4	0.51
108-88-3	Toluene	1.4	U	4.4	1.4	0.60
156-60-5	trans-1,2-Dichloroethene	0.70	U	4.4	0.70	0.34
10061-02-6	trans-1,3-Dichloropropene	1.4	U	4.4	1.4	0.58
79-01-6	Trichloroethene	0.70	U	4.4	0.70	0.20
75-69-4	Trichlorofluoromethane	2.8	U	8.7	2.8	0.91
75-01-4	Vinyl chloride	2.8	U	4.4	2.8	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB03-0515-5 | Lab Sample ID: 280-69452-11

Matrix: Solid | Lab File ID: J6861.D

Analysis Method: 8260B | Date Collected: 05/18/2015 17:43

Sample wt/vol: 7.261(g) | Date Analyzed: 05/19/2015 22:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

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

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		71-136
460-00-4	4-Bromofluorobenzene (Surr)	97		79-119
1868-53-7	Dibromofluoromethane (Surr)	101		78-119
2037-26-5	Toluene-d8 (Surr)	101		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6861.D
Lims ID: 280-69452-C-11-A Lab Sample ID: 280-69452-11
Client ID: 54400-SB03-0515-5
Sample Type: Client
Inject. Date: 19-May-2015 22:12:30 ALS Bottle#: 24 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-11-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 22:37:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.744	5.732	0.012	100	580384	1000.0	
* 1 Fluorobenzene	96	7.728	7.734	-0.006	98	1116111	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.014	-0.005	88	314150	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.877	0.012	96	507617	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.171	7.172	-0.001	92	409097	50.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.468	-0.001	98	430965	51.2	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	94	1165387	50.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.896	10.897	-0.001	89	503619	48.7	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

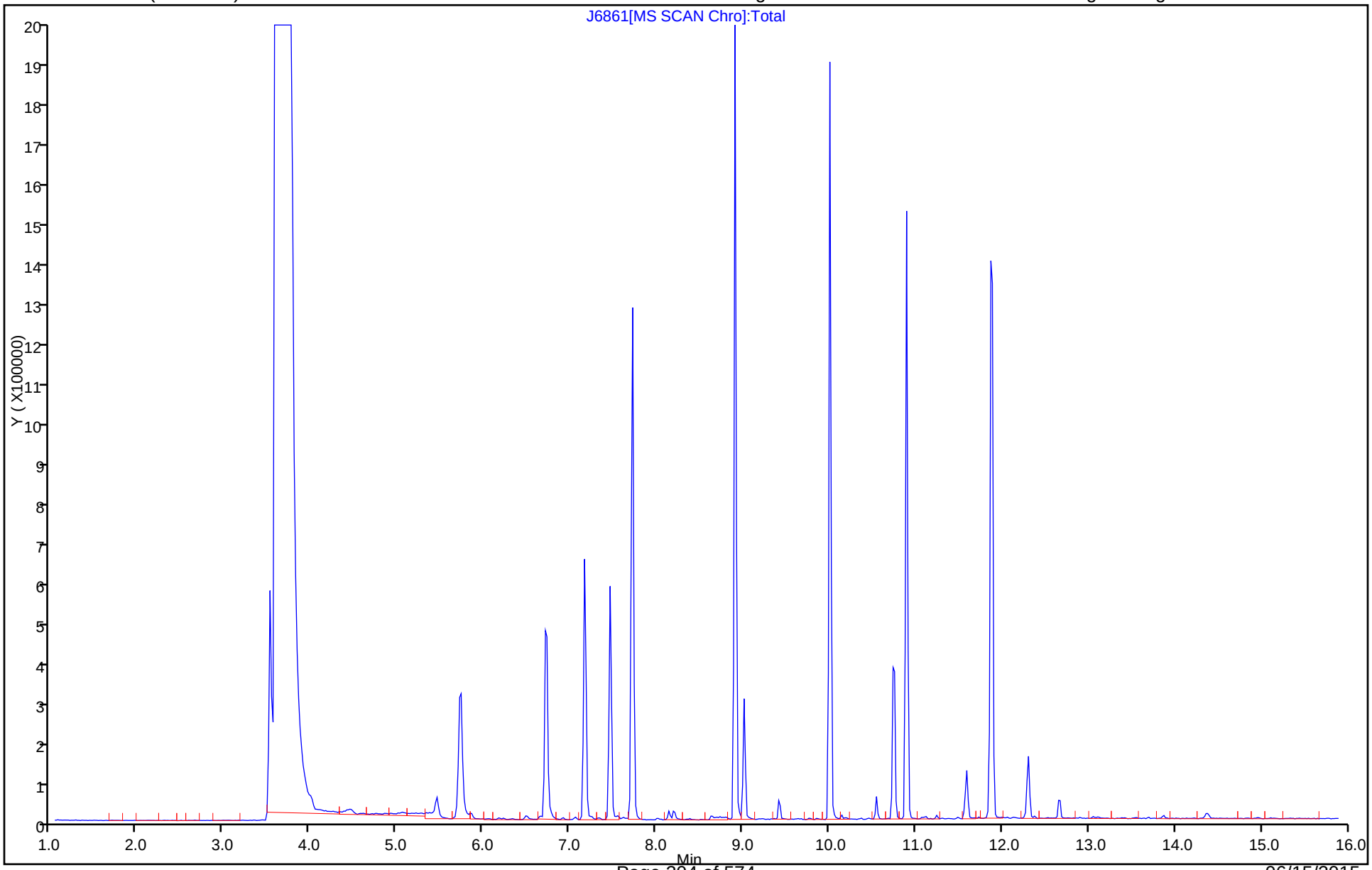
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:49 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6861.D				
Injection Date:	19-May-2015 22:12:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-11-A	Lab Sample ID:	280-69452-11	Worklist Smp#:	17
Client ID:	54400-SB03-0515-5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-10 | Lab Sample ID: 280-69452-12
Matrix: Solid | Lab File ID: J6862.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:48
Sample wt/vol: 6.496(g) | Date Analyzed: 05/19/2015 22:32
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.5 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.5	U	4.7	1.5	0.53
71-55-6	1,1,1-Trichloroethane	1.5	U	4.7	1.5	0.49
79-34-5	1,1,2,2-Tetrachloroethane	1.5	U	4.7	1.5	0.58
79-00-5	1,1,2-Trichloroethane	3.0	U	4.7	3.0	0.83
75-34-3	1,1-Dichloroethane	0.76	U	4.7	0.76	0.20
75-35-4	1,1-Dichloroethene	1.5	U	4.7	1.5	0.56
563-58-6	1,1-Dichloropropene	1.5	U	4.7	1.5	0.51
87-61-6	1,2,3-Trichlorobenzene	1.5	U	4.7	1.5	0.71
96-18-4	1,2,3-Trichloropropane	3.0	U	4.7	3.0	0.76
120-82-1	1,2,4-Trichlorobenzene	1.5	U	4.7	1.5	0.69
95-63-6	1,2,4-Trimethylbenzene	1.5	U	4.7	1.5	0.55
96-12-8	1,2-Dibromo-3-Chloropropane	1.5	U	9.4	1.5	0.57
106-93-4	1,2-Dibromoethane	1.5	U	4.7	1.5	0.49
95-50-1	1,2-Dichlorobenzene	1.5	U	4.7	1.5	0.42
107-06-2	1,2-Dichloroethane	1.5	U	4.7	1.5	0.66
78-87-5	1,2-Dichloropropane	1.5	U	4.7	1.5	0.52
108-67-8	1,3,5-Trimethylbenzene	1.5	U	4.7	1.5	0.54
541-73-1	1,3-Dichlorobenzene	1.5	U	4.7	1.5	0.45
142-28-9	1,3-Dichloropropane	1.5	U	4.7	1.5	0.48
106-46-7	1,4-Dichlorobenzene	1.5	U	4.7	1.5	0.74
594-20-7	2,2-Dichloropropane	1.5	U	4.7	1.5	0.42
78-93-3	2-Butanone (MEK)	6.0	U	19	6.0	1.7
95-49-8	2-Chlorotoluene	1.5	U	4.7	1.5	0.48
591-78-6	2-Hexanone	12	U	19	12	4.6
106-43-4	4-Chlorotoluene	1.5	U	4.7	1.5	0.74
108-10-1	4-Methyl-2-pentanone (MIBK)	12	U	19	12	4.1
67-64-1	Acetone	12	U	19	12	5.1
71-43-2	Benzene	1.5	U	4.7	1.5	0.44
108-86-1	Bromobenzene	1.5	U	4.7	1.5	0.46
74-97-5	Bromochloromethane	0.76	U	4.7	0.76	0.28
75-27-4	Bromodichloromethane	0.76	U	4.7	0.76	0.21
75-25-2	Bromoform	0.76	U	4.7	0.76	0.22
74-83-9	Bromomethane	1.5	U	9.4	1.5	0.47
75-15-0	Carbon disulfide	1.5	U	4.7	1.5	0.40
56-23-5	Carbon tetrachloride	1.5	U	4.7	1.5	0.59
108-90-7	Chlorobenzene	1.5	U	4.7	1.5	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-10 | Lab Sample ID: 280-69452-12
Matrix: Solid | Lab File ID: J6862.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:48
Sample wt/vol: 6.496(g) | Date Analyzed: 05/19/2015 22:32
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 18.5 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.5	U	4.7	1.5	0.54
75-00-3	Chloroethane	3.0	U	9.4	3.0	0.84
67-66-3	Chloroform	0.76	U	9.4	0.76	0.27
74-87-3	Chloromethane	1.5	U	9.4	1.5	0.73
156-59-2	cis-1,2-Dichloroethene	1.5	U	4.7	1.5	0.53
10061-01-5	cis-1,3-Dichloropropene	3.0	U	4.7	3.0	1.2
74-95-3	Dibromomethane	3.0	U	4.7	3.0	0.79
75-71-8	Dichlorodifluoromethane	1.5	U	9.4	1.5	0.49
100-41-4	Ethylbenzene	1.5	U	4.7	1.5	0.63
87-68-3	Hexachlorobutadiene	1.5	U	4.7	1.5	0.52
98-82-8	Isopropylbenzene	1.5	U	4.7	1.5	0.56
1634-04-4	Methyl tert-butyl ether	0.76	U	19	0.76	0.32
75-09-2	Methylene Chloride	3.0	U	4.7	3.0	1.5
179601-23-1	m-Xylene & p-Xylene	3.0	U	3.0	3.0	0.98
91-20-3	Naphthalene	1.5	U	4.7	1.5	0.59
104-51-8	n-Butylbenzene	1.5	U	4.7	1.5	0.53
103-65-1	N-Propylbenzene	1.5	U	4.7	1.5	0.55
95-47-6	o-Xylene	1.5	U	4.7	1.5	0.58
99-87-6	p-Isopropyltoluene	1.5	U	4.7	1.5	0.46
135-98-8	sec-Butylbenzene	1.5	U	4.7	1.5	0.73
100-42-5	Styrene	1.5	U	4.7	1.5	0.59
75-65-0	tert-Butyl alcohol	30	U	190	30	12
98-06-6	tert-Butylbenzene	1.5	U	4.7	1.5	0.47
127-18-4	Tetrachloroethene	1.5	U	4.7	1.5	0.56
108-88-3	Toluene	1.5	U	4.7	1.5	0.65
156-60-5	trans-1,2-Dichloroethene	0.76	U	4.7	0.76	0.37
10061-02-6	trans-1,3-Dichloropropene	1.5	U	4.7	1.5	0.63
79-01-6	Trichloroethene	0.76	U	4.7	0.76	0.22
75-69-4	Trichlorofluoromethane	3.0	U	9.4	3.0	0.98
75-01-4	Vinyl chloride	3.0	U	4.7	3.0	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB03-0515-10 | Lab Sample ID: 280-69452-12

Matrix: Solid | Lab File ID: J6862.D

Analysis Method: 8260B | Date Collected: 05/18/2015 17:48

Sample wt/vol: 6.496(g) | Date Analyzed: 05/19/2015 22:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: 18.5 | Level: (low/med) Low

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		71-136
460-00-4	4-Bromofluorobenzene (Surr)	94		79-119
1868-53-7	Dibromofluoromethane (Surr)	100		78-119
2037-26-5	Toluene-d8 (Surr)	98		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6862.D
Lims ID: 280-69452-C-12-A Lab Sample ID: 280-69452-12
Client ID: 54400-SB03-0515-10
Sample Type: Client
Inject. Date: 19-May-2015 22:32:30 ALS Bottle#: 25 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-12-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 23:16:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.728	5.732	-0.004	100	640877	1000.0	
* 1 Fluorobenzene	96	7.730	7.734	-0.004	98	963246	50.0	
* 2 Chlorobenzene-d5	119	10.010	10.014	-0.004	86	277127	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.890	11.877	0.013	96	451353	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.173	7.172	0.001	92	348918	49.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.469	7.468	0.000	98	372854	51.3	
$ 7 Toluene-d8 (Surr)	98	8.913	8.912	0.001	93	997592	48.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.898	10.897	0.001	91	432620	47.1	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78		7.555				ND	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91		8.965				ND	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106		10.079				ND	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

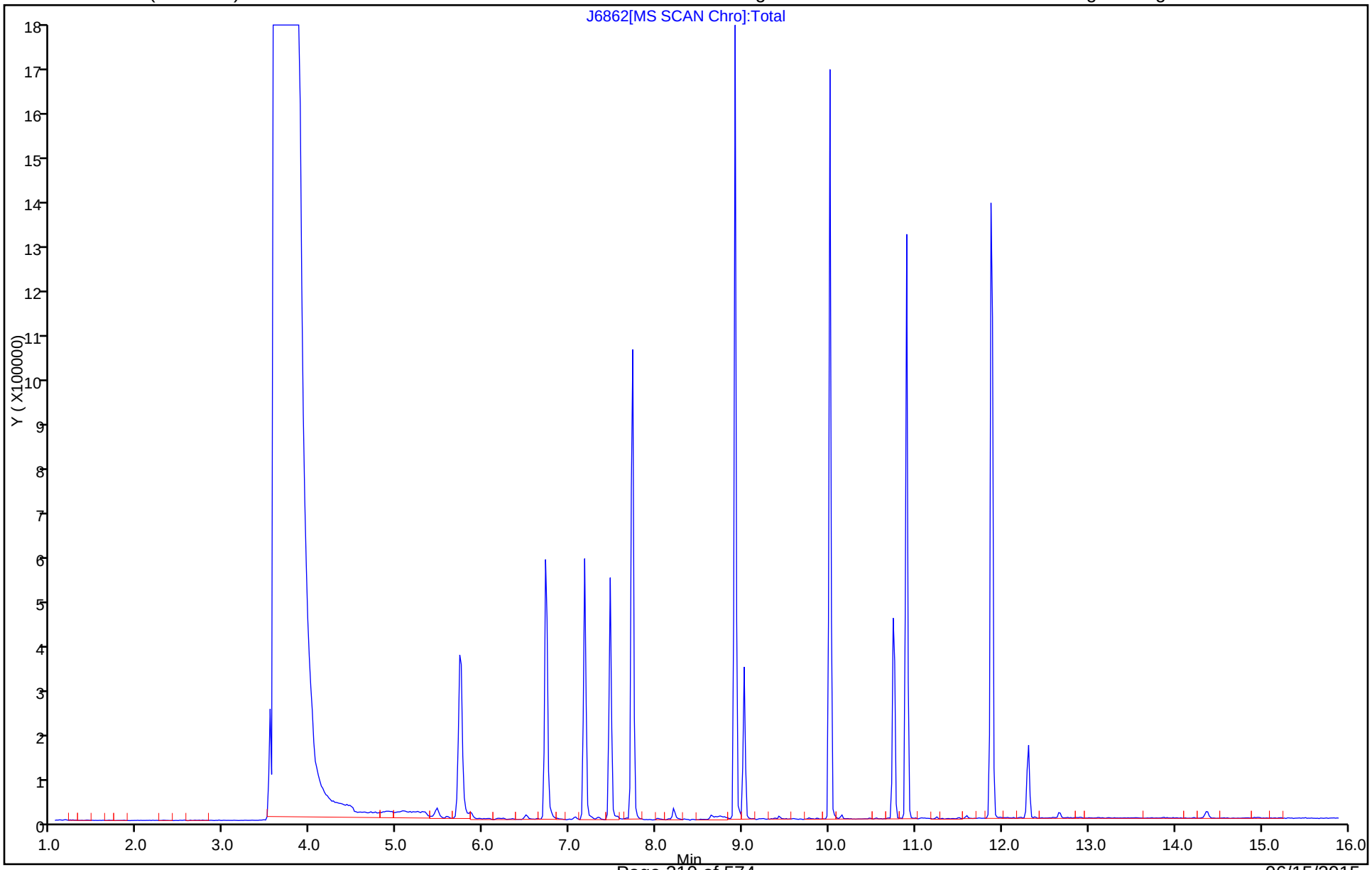
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:50 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6862.D				
Injection Date:	19-May-2015 22:32:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-12-A	Lab Sample ID:	280-69452-12	Worklist Smp#:	18
Client ID:	54400-SB03-0515-10				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-15 | Lab Sample ID: 280-69452-13
Matrix: Solid | Lab File ID: J6863.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:51
Sample wt/vol: 5.985(g) | Date Analyzed: 05/19/2015 22:52
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.6 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.7	U	5.2	1.7	0.58
71-55-6	1,1,1-Trichloroethane	1.7	U	5.2	1.7	0.54
79-34-5	1,1,2,2-Tetrachloroethane	1.7	U	5.2	1.7	0.63
79-00-5	1,1,2-Trichloroethane	3.3	U	5.2	3.3	0.91
75-34-3	1,1-Dichloroethane	0.83	U	5.2	0.83	0.22
75-35-4	1,1-Dichloroethene	1.7	U	5.2	1.7	0.61
563-58-6	1,1-Dichloropropene	1.7	U	5.2	1.7	0.56
87-61-6	1,2,3-Trichlorobenzene	1.7	U	5.2	1.7	0.78
96-18-4	1,2,3-Trichloropropane	3.3	U	5.2	3.3	0.84
120-82-1	1,2,4-Trichlorobenzene	1.7	U	5.2	1.7	0.76
95-63-6	1,2,4-Trimethylbenzene	1.7	U	5.2	1.7	0.60
96-12-8	1,2-Dibromo-3-Chloropropane	1.7	U	10	1.7	0.62
106-93-4	1,2-Dibromoethane	1.7	U	5.2	1.7	0.54
95-50-1	1,2-Dichlorobenzene	1.7	U	5.2	1.7	0.47
107-06-2	1,2-Dichloroethane	1.7	U	5.2	1.7	0.73
78-87-5	1,2-Dichloropropane	1.7	U	5.2	1.7	0.57
108-67-8	1,3,5-Trimethylbenzene	1.7	U	5.2	1.7	0.59
541-73-1	1,3-Dichlorobenzene	1.7	U	5.2	1.7	0.50
142-28-9	1,3-Dichloropropane	1.7	U	5.2	1.7	0.53
106-46-7	1,4-Dichlorobenzene	1.7	U	5.2	1.7	0.81
594-20-7	2,2-Dichloropropane	1.7	U	5.2	1.7	0.46
78-93-3	2-Butanone (MEK)	6.7	U	21	6.7	1.9
95-49-8	2-Chlorotoluene	1.7	U	5.2	1.7	0.53
591-78-6	2-Hexanone	13	U	21	13	5.1
106-43-4	4-Chlorotoluene	1.7	U	5.2	1.7	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	21	13	4.5
67-64-1	Acetone	13	U	21	13	5.6
71-43-2	Benzene	0.49	J	5.2	1.7	0.49
108-86-1	Bromobenzene	1.7	U	5.2	1.7	0.51
74-97-5	Bromochloromethane	0.83	U	5.2	0.83	0.31
75-27-4	Bromodichloromethane	0.83	U	5.2	0.83	0.23
75-25-2	Bromoform	0.83	U	5.2	0.83	0.24
74-83-9	Bromomethane	1.7	U	10	1.7	0.52
75-15-0	Carbon disulfide	1.7	U	5.2	1.7	0.44
56-23-5	Carbon tetrachloride	1.7	U	5.2	1.7	0.65
108-90-7	Chlorobenzene	1.7	U	5.2	1.7	0.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: 54400-SB03-0515-15 | Lab Sample ID: 280-69452-13
Matrix: Solid | Lab File ID: J6863.D
Analysis Method: 8260B | Date Collected: 05/18/2015 17:51
Sample wt/vol: 5.985(g) | Date Analyzed: 05/19/2015 22:52
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: 19.6 | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-48-1	Chlorodibromomethane	1.7	U	5.2	1.7	0.59
75-00-3	Chloroethane	3.3	U	10	3.3	0.93
67-66-3	Chloroform	0.83	U	10	0.83	0.30
74-87-3	Chloromethane	1.7	U	10	1.7	0.80
156-59-2	cis-1,2-Dichloroethene	1.7	U	5.2	1.7	0.58
10061-01-5	cis-1,3-Dichloropropene	3.3	U	5.2	3.3	1.3
74-95-3	Dibromomethane	3.3	U	5.2	3.3	0.87
75-71-8	Dichlorodifluoromethane	1.7	U	10	1.7	0.54
100-41-4	Ethylbenzene	0.85	J	5.2	1.7	0.70
87-68-3	Hexachlorobutadiene	1.7	U	5.2	1.7	0.57
98-82-8	Isopropylbenzene	1.7	U	5.2	1.7	0.61
1634-04-4	Methyl tert-butyl ether	0.83	U	21	0.83	0.35
75-09-2	Methylene Chloride	3.3	U	5.2	3.3	1.7
179601-23-1	m-Xylene & p-Xylene	3.3	U	3.3	3.3	1.1
91-20-3	Naphthalene	1.7	U	5.2	1.7	0.65
104-51-8	n-Butylbenzene	1.7	U	5.2	1.7	0.58
103-65-1	N-Propylbenzene	1.7	U	5.2	1.7	0.60
95-47-6	o-Xylene	1.7	U	5.2	1.7	0.63
99-87-6	p-Isopropyltoluene	1.7	U	5.2	1.7	0.51
135-98-8	sec-Butylbenzene	1.7	U	5.2	1.7	0.80
100-42-5	Styrene	1.7	U	5.2	1.7	0.65
75-65-0	tert-Butyl alcohol	33	U	210	33	13
98-06-6	tert-Butylbenzene	1.7	U	5.2	1.7	0.52
127-18-4	Tetrachloroethene	1.7	U	5.2	1.7	0.61
108-88-3	Toluene	1.2	J	5.2	1.7	0.72
156-60-5	trans-1,2-Dichloroethene	0.83	U	5.2	0.83	0.41
10061-02-6	trans-1,3-Dichloropropene	1.7	U	5.2	1.7	0.70
79-01-6	Trichloroethene	0.83	U	5.2	0.83	0.24
75-69-4	Trichlorofluoromethane	3.3	U	10	3.3	1.1
75-01-4	Vinyl chloride	3.3	U	5.2	3.3	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: 54400-SB03-0515-15 | Lab Sample ID: 280-69452-13

Matrix: Solid | Lab File ID: J6863.D

Analysis Method: 8260B | Date Collected: 05/18/2015 17:51

Sample wt/vol: 5.985(g) | Date Analyzed: 05/19/2015 22:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: 19.6 | Level: (low/med) Low

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		71-136
460-00-4	4-Bromofluorobenzene (Surr)	95		79-119
1868-53-7	Dibromofluoromethane (Surr)	100		78-119
2037-26-5	Toluene-d8 (Surr)	100		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6863.D
Lims ID: 280-69452-C-13-A Lab Sample ID: 280-69452-13
Client ID: 54400-SB03-0515-15
Sample Type: Client
Inject. Date: 19-May-2015 22:52:30 ALS Bottle#: 26 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-69452-c-13-a
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 23:17:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051				ND	
* 150 TBA-d9 (IS)	65	5.733	5.732	0.001	100	525977	1000.0	
* 1 Fluorobenzene	96	7.717	7.734	-0.017	98	1099396	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.014	0.001	86	315204	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.878	11.877	0.001	97	521520	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.178	7.172	0.006	91	400588	50.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.474	7.468	0.006	98	440559	53.1	
$ 7 Toluene-d8 (Surr)	98	8.919	8.912	0.006	93	1165639	50.1	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.897	0.006	97	503503	47.4	
25 Dichlorodifluoromethane	85		4.004				ND	
27 Chloromethane	50		4.212				ND	
28 Vinyl chloride	62		4.369				ND	
31 Bromomethane	94		4.735				ND	
32 Chloroethane	64		4.787				ND	
34 Trichlorofluoromethane	101		5.065				ND	
41 Acetone	43		5.466				ND	
45 1,1-Dichloroethene	96		5.518				ND	
51 Carbon disulfide	76		5.796				ND	
50 2-Methyl-2-propanol	59		5.796				ND	
52 Methylene Chloride	84		5.866				ND	
54 Methyl tert-butyl ether	73		6.023				ND	
55 trans-1,2-Dichloroethene	96		6.075				ND	
59 1,1-Dichloroethane	63		6.388				ND	
63 2-Butanone (MEK)	43		6.771				ND	
65 cis-1,2-Dichloroethene	96		6.841				ND	
67 2,2-Dichloropropane	77		6.858				ND	
69 Chlorobromomethane	128		7.032				ND	
70 Chloroform	83		7.032				ND	
73 1,1,1-Trichloroethane	97		7.259				ND	
75 1,1-Dichloropropene	75		7.363				ND	
76 Carbon tetrachloride	117		7.398				ND	
77 1,2-Dichloroethane	62		7.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 Benzene	78	7.543	7.555	-0.012	94	11253	0.4718	
81 Trichloroethene	130		8.007				ND	
84 1,2-Dichloropropane	63		8.199				ND	
87 Dibromomethane	93		8.303				ND	
88 Dichlorobromomethane	83		8.373				ND	
91 cis-1,3-Dichloropropene	75		8.686				ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738				ND	
93 Toluene	91	8.971	8.965	0.006	98	29780	1.17	
95 trans-1,3-Dichloropropene	75		9.069				ND	
96 1,1,2-Trichloroethane	97		9.226				ND	
97 2-Hexanone	43		9.330				ND	
98 1,3-Dichloropropane	76		9.365				ND	
99 Tetrachloroethene	164		9.382				ND	
100 Chlorodibromomethane	129		9.556				ND	
102 Ethylene Dibromide	107		9.696				ND	
104 Chlorobenzene	112		10.044				ND	
105 Ethylbenzene	106	10.067	10.079	-0.012	98	7515	0.8221	
106 1,1,1,2-Tetrachloroethane	131		10.079				ND	
107 m-Xylene & p-Xylene	91		10.148				ND	
108 Styrene	104		10.479				ND	
109 o-Xylene	106		10.479				ND	
110 Bromoform	173		10.688				ND	
111 Isopropylbenzene	105		10.740				ND	
114 1,1,2,2-Tetrachloroethane	83		10.949				ND	
116 1,2,3-Trichloropropane	110		11.019				ND	
117 N-Propylbenzene	120		11.071				ND	
118 Bromobenzene	156		11.071				ND	
119 1,3,5-Trimethylbenzene	105		11.175				ND	
120 2-Chlorotoluene	126		11.193				ND	
121 4-Chlorotoluene	126		11.280				ND	
122 tert-Butylbenzene	119		11.489				ND	
123 1,2,4-Trimethylbenzene	105		11.506				ND	
124 sec-Butylbenzene	134		11.663				ND	
125 4-Isopropyltoluene	119		11.767				ND	
126 1,3-Dichlorobenzene	146		11.837				ND	
128 1,4-Dichlorobenzene	146		11.906				ND	
129 n-Butylbenzene	91		12.133				ND	
130 1,2-Dichlorobenzene	146		12.272				ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038				ND	
132 1,2,4-Trichlorobenzene	180		14.030				ND	
133 Hexachlorobutadiene	225		14.169				ND	
134 Naphthalene	128		14.395				ND	
135 1,2,3-Trichlorobenzene	180		14.726				ND	

Reagents:

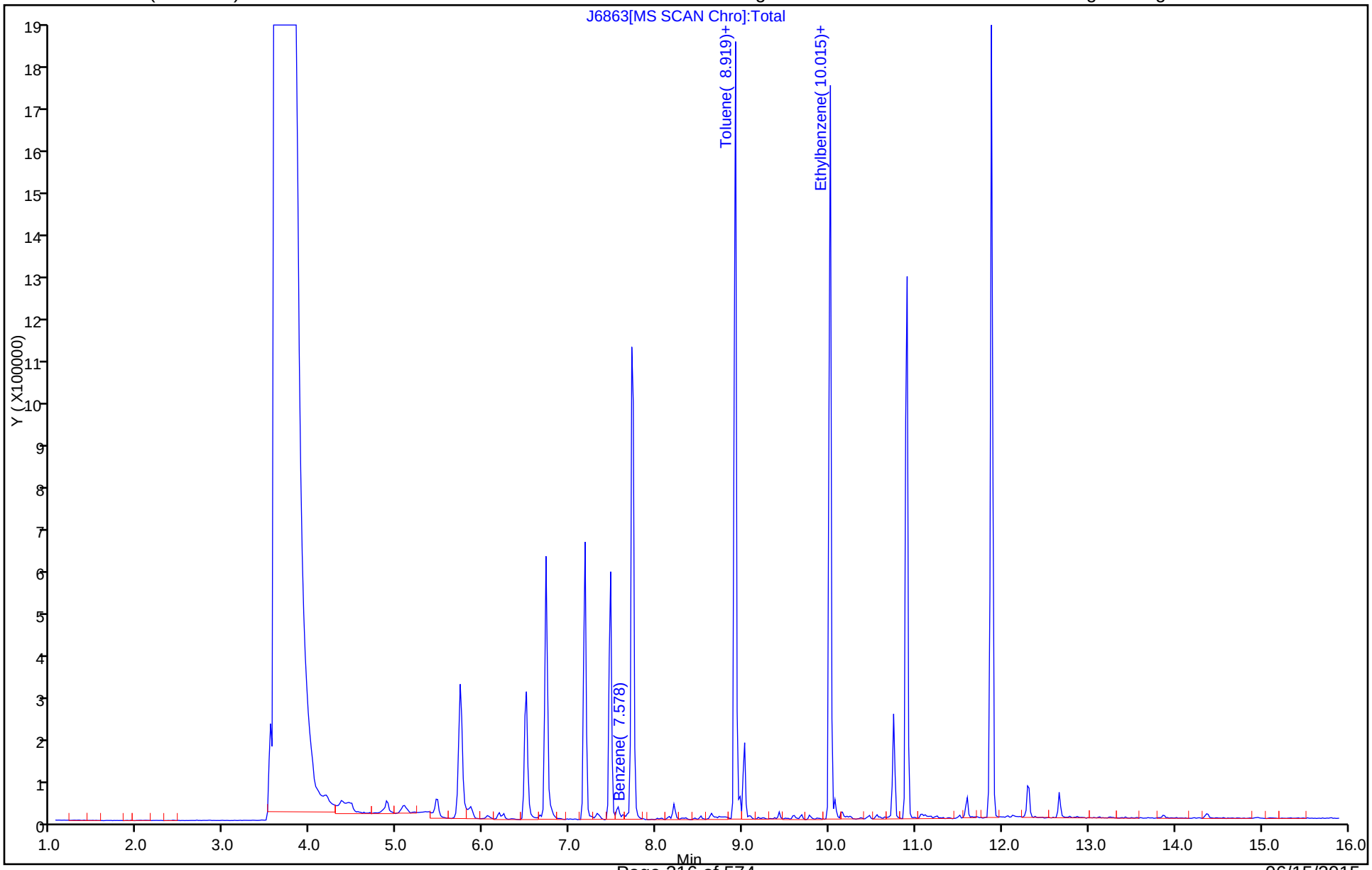
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:51 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6863.D				
Injection Date:	19-May-2015 22:52:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	280-69452-C-13-A	Lab Sample ID:	280-69452-13	Worklist Smp#:	19
Client ID:	54400-SB03-0515-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

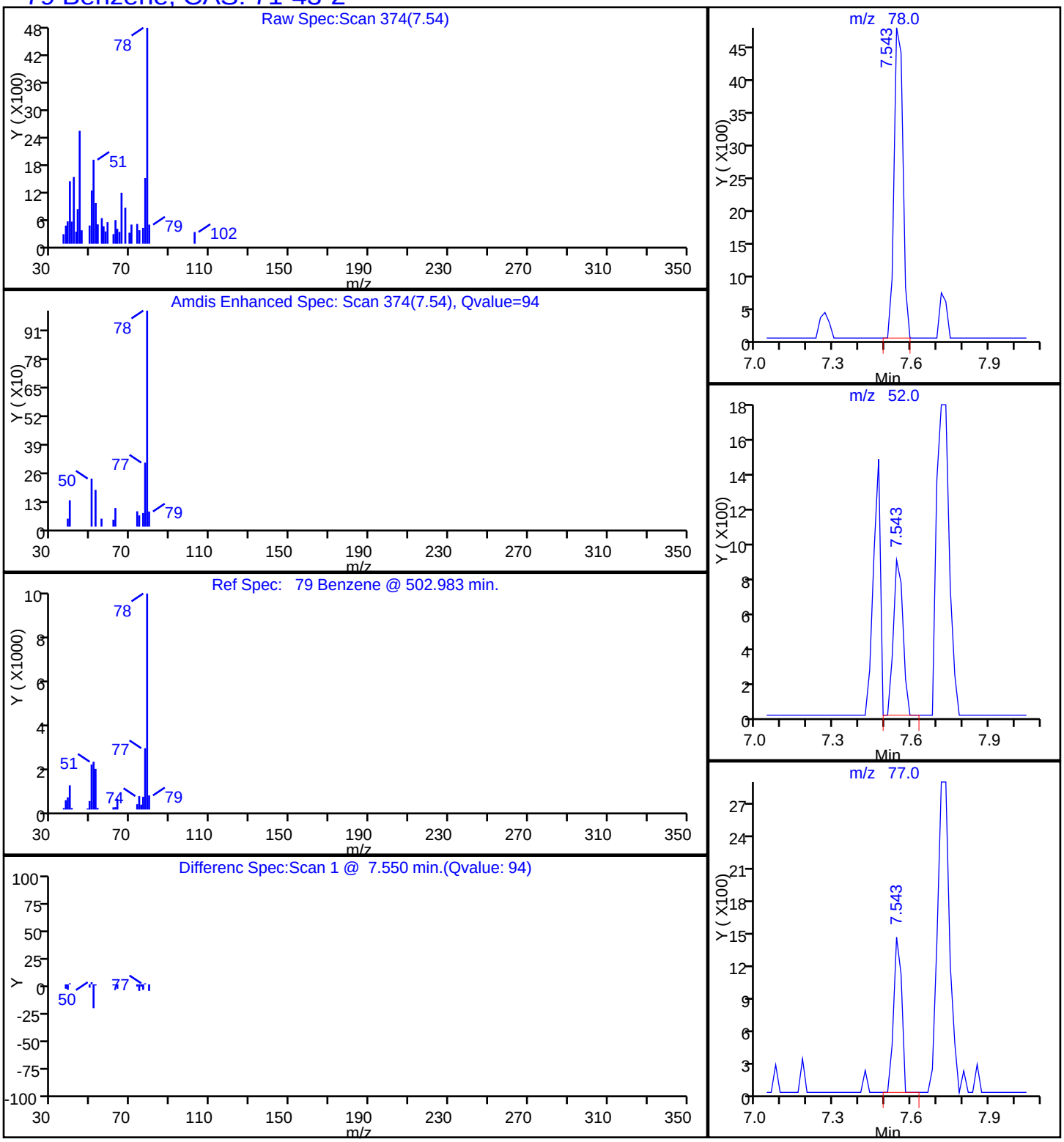


Report Date: 20-May-2015 17:58:51 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6863.D				
Injection Date:	19-May-2015 22:52:30	Instrument ID:	VMS_J		
Lims ID:	280-69452-C-13-A	Lab Sample ID:	280-69452-13		
Client ID:	54400-SB03-0515-15				
Operator ID:	DUKESA	ALS Bottle#:	26	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

79 Benzene, CAS: 71-43-2

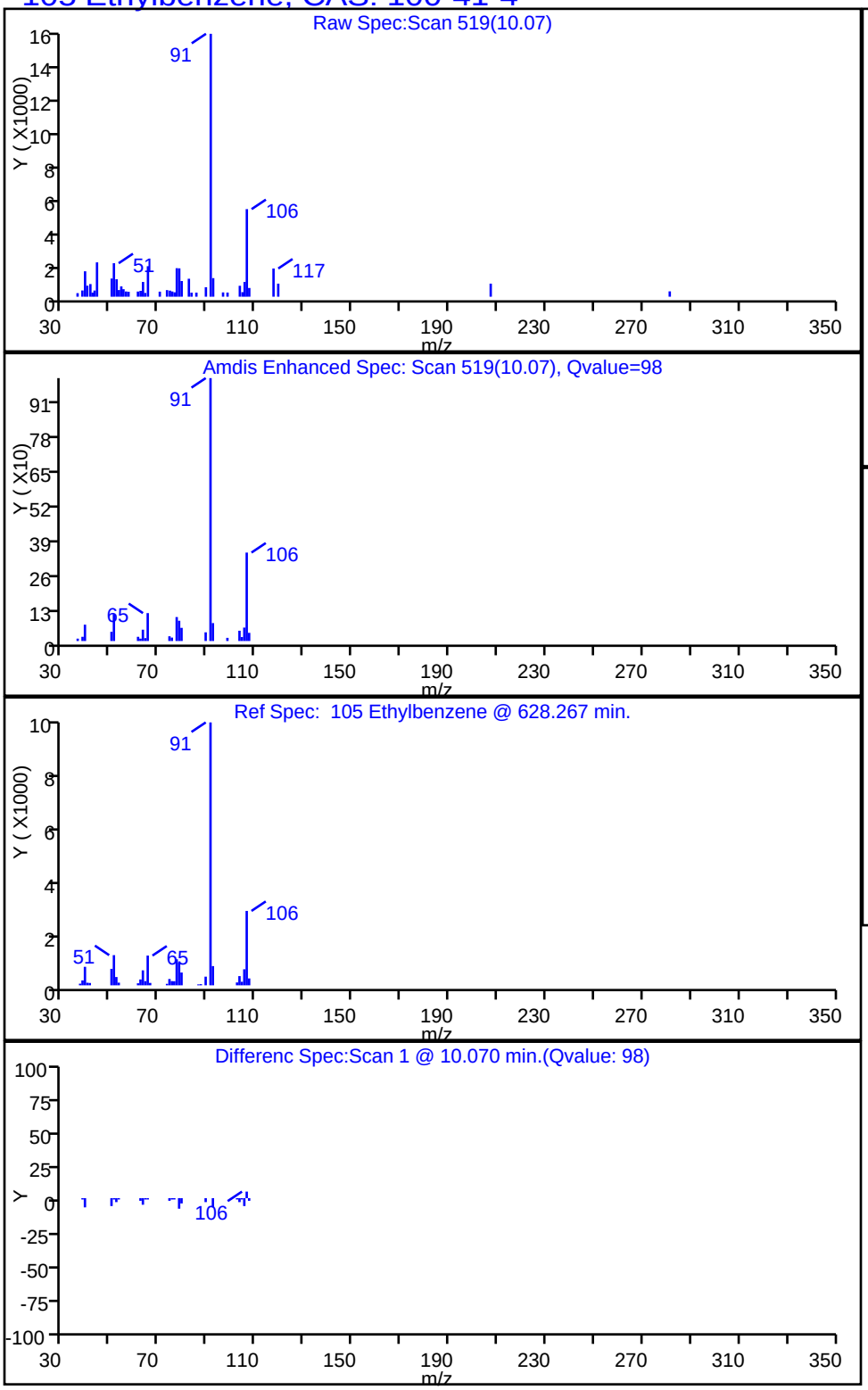


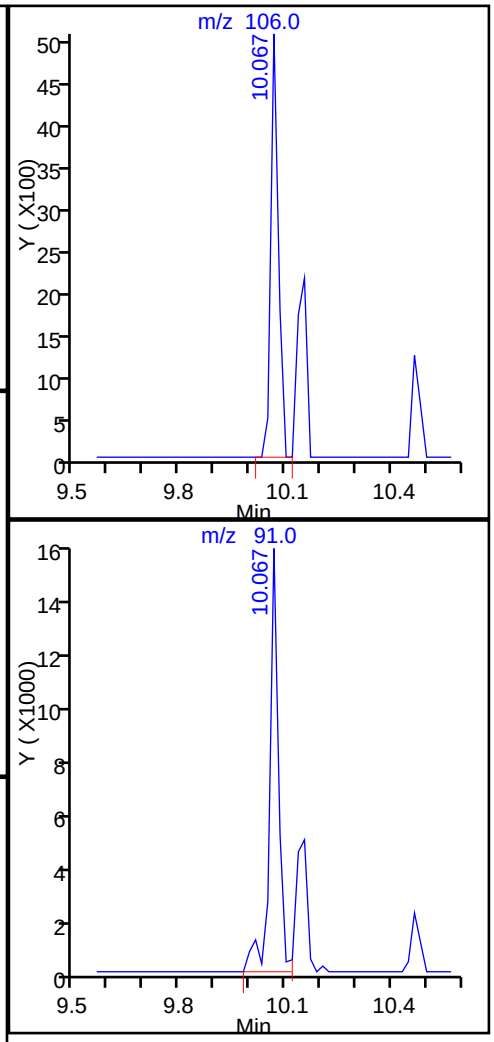
Report Date: 20-May-2015 17:58:51 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6863.D				
Injection Date:	19-May-2015 22:52:30	Instrument ID:	VMS_J		
Lims ID:	280-69452-C-13-A	Lab Sample ID:	280-69452-13		
Client ID:	54400-SB03-0515-15				
Operator ID:	DUKESA	ALS Bottle#:	26	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4



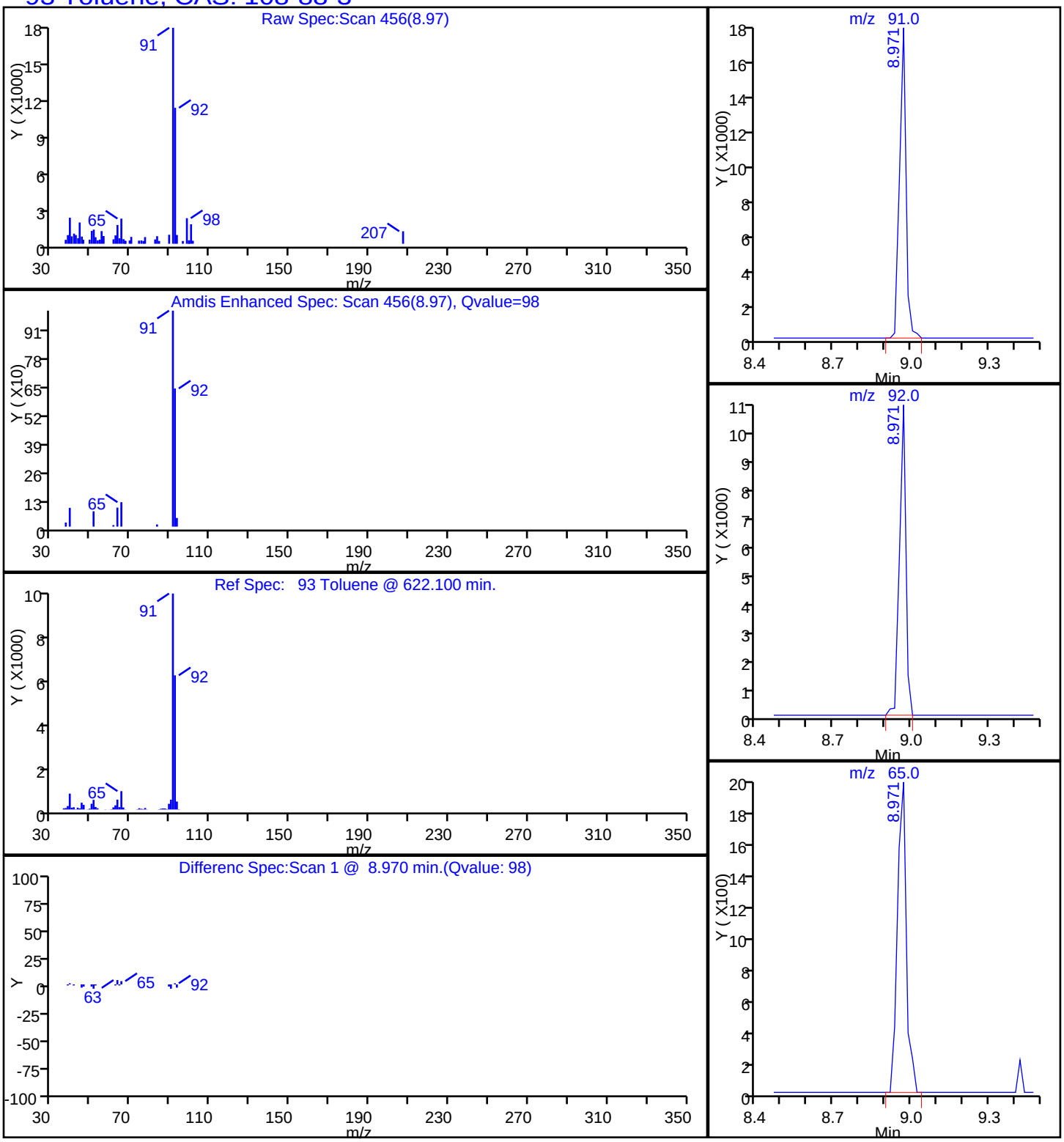


Report Date: 20-May-2015 17:58:51 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6863.D				
Injection Date:	19-May-2015 22:52:30	Instrument ID:	VMS_J		
Lims ID:	280-69452-C-13-A	Lab Sample ID:	280-69452-13		
Client ID:	54400-SB03-0515-15				
Operator ID:	DUKESA	ALS Bottle#:	26	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

93 Toluene, CAS: 108-88-3



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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-279265/9	H2949.D
Level 2	IC 280-279265/10	H2950.D
Level 3	IC 280-279265/16	H2957.D
Level 4	IC 280-279265/11	H2951.D
Level 5	IC 280-279265/17	H2958.D
Level 6	IC 280-279265/12	H2952.D
Level 7	IC 280-279265/18	H2959.D
Level 8	IC 280-279265/13	H2953.D
Level 9	ICIS 280-279265/19	H2960.D
Level 10	IC 280-279265/14	H2954.D
Level 11	IC 280-279265/20	H2961.D
Level 12	IC 280-279265/15	H2955.D
Level 13	IC 280-279265/21	H2962.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.6723 0.6000	0.4976 0.6115	0.5781	0.3764	0.6182	Lin1	-0.059	0.6083							0.9970		0.9900
Chloromethane	0.4489 0.3934	0.3613 0.3949	0.3985	0.3243	0.4034	Ave		0.3892			0.1000	9.9		15.0			
Vinyl chloride	0.4524 0.3876	0.3441 0.3996	0.3885	0.2908	0.4015	Ave		0.3807				13.3		30.0			
Bromomethane	+++++ 0.3222	0.3214 0.3209	0.3362	0.2639	0.3308	Ave		0.3159				8.3		15.0			
Chloroethane	+++++ 0.2504	0.2352 0.2250	0.2483	0.1895	0.2400	Ave		0.2314				9.7		15.0			
Dichlorofluoromethane	+++++ 0.8860	0.7676 0.8901	0.9035	0.6763	0.9126	Ave		0.8394				11.4		15.0			
Trichlorofluoromethane	0.8693 0.7802	0.6684 0.7941	0.7970	0.5425	0.8047	Ave		0.7509				14.6		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Ethanol	0.0007	0.0007	+++++ 0.0007	0.0008	0.0010	Lin2	0.0307	0.0007							0.9900		0.9900
Ethyl ether	0.2003 0.2058	0.2017 0.1812	0.2025	0.2004	0.1964	Ave		0.1983				4.1		15.0			
Acrolein	+++++ 0.0143	0.0144 0.0128	0.0133	0.0132	0.0139	Ave		0.0137				4.7		15.0			
1,1-Dichloroethene	0.3671 0.3865	0.3926 0.3668	0.3796	0.3543	0.3663	Ave		0.3733				3.6		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4658 0.5324	0.5230 0.5195	0.5231	0.4862	0.5115	Ave		0.5088				4.7		15.0			
Acetone	+++++ 0.0379	0.0492 0.0323	0.0392	0.0382	0.0368	Ave		0.0389				14.3		15.0			
Isopropyl alcohol	0.0058	0.0056	0.0119 0.0057	0.0071	0.0057	Lin1	0.0411	0.0057							0.9910		0.9900
Iodomethane	0.8562 0.8522	0.8710 0.8233	0.8529	0.8008	0.8246	Ave		0.8401				2.9		15.0			
Carbon disulfide	1.6352 1.4559	1.4538 1.3951	1.4345	1.3036	1.3982	Ave		1.4395				7.0		15.0			
Acetonitrile	0.0071	0.0080	0.0146 0.0071	0.0073	0.0087	Lin1	0.0770	0.0069							0.9990		0.9900
3-Chloro-1-propene	0.8931 0.8831	0.9161 0.8251	0.8649	0.8389	0.8450	Ave		0.8666				3.8		15.0			
Methyl acetate	0.1100 0.1258	0.1397 0.1181	0.1340	0.1233	0.1305	Ave		0.1259				7.9		15.0			
Methylene Chloride	0.8126 0.3553	0.4695 0.3052	0.3418	0.3828	0.3180	Lin2	0.1493	0.3159							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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
tert-Butyl alcohol	+++++ 1.2969	1.3926 1.1641	1.2128	1.7105	1.1830	Lin1	5.3164	1.1627							0.9980		0.9900
Acrylonitrile	0.0302 0.0323	0.0334 0.0318	0.0338	0.0328	0.0337	Ave		0.0326				4.0		15.0			
trans-1,2-Dichloroethene	0.4404 0.4346	0.4148 0.4140	0.4140	0.4093	0.4127	Ave		0.4200				2.9		15.0			
Methyl tert-butyl ether	0.7576 0.7187	0.7327 0.6516	0.7318	0.6878	0.7009	Ave		0.7116				4.9		15.0			
Hexane	3.0006 3.4517	3.3718 3.6328	3.5541	3.0644	3.3922	Ave		3.3525				7.1		15.0			
1,1-Dichloroethane	0.9471 0.8848	0.9425 0.8645	0.8754	0.8306	0.8618	Ave		0.8867			0.1000	4.9		15.0			
Vinyl acetate	0.5168 0.5940	0.5011 0.5493	0.5655	0.5143	0.6027	Ave		0.5491				7.3		15.0			
Isopropyl ether	0.2828	0.2877	0.3030 0.2790	0.2930	0.2907	Ave		0.2894				2.9		15.0			
2-Chloro-1,3-butadiene	0.6516	0.6685	0.7001 0.6427	0.6438	0.6495	Ave		0.6594				3.3		15.0			
Tert-butyl ethyl ether	1.0900	1.1257	1.3981 1.0854	1.1483	1.1926	Ave		1.1733				10.0		15.0			
cis-1,2-Dichloroethene	0.4228 0.4250	0.4367 0.4157	0.4329	0.4097	0.4198	Ave		0.4232				2.2		15.0			
2-Butanone (MEK)	+++++ 0.0702	0.0715 0.0713	0.0799	0.0572	0.0801	Ave		0.0717				11.7		15.0			
2,2-Dichloropropane	+++++ 0.8679	1.3131 0.7323	0.7976	0.9827	0.7466	Lin2	0.5711	0.7306							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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Ethyl acetate	0.1556	0.1515	0.1738 0.1551	0.1740	0.1417	Ave		0.1586				8.1		15.0			
Propionitrile	0.0111	0.0111	0.0119 0.0111	0.0118	0.0108	Ave		0.0113				4.0		15.0			
sec-Butyl Alcohol	2.2045 1.6075	1.9139 1.6511	1.6589	1.7994	1.6941	Ave		1.7899				11.8		15.0			
Methacrylonitrile	0.0985	0.0966	0.1009 0.0964	0.1044	0.0977	Ave		0.0991				3.1		15.0			
Bromochloromethane	0.1801 0.1879	0.1777 0.1849	0.1923	0.1861	0.1908	Ave		0.1857				2.9		15.0			
Tetrahydrofuran	+++++ 0.0504	0.0556 0.0481	0.0538	0.0499	0.0519	Ave		0.0516				5.3		15.0			
Chloroform	0.8073 0.8459	0.8850 0.8014	0.8295	0.8135	0.8140	Ave		0.8281				3.5		30.0			
1,1,1-Trichloroethane	0.7686 0.8114	0.8150 0.7980	0.8042	0.7482	0.7899	Ave		0.7908				3.1		15.0			
Cyclohexane	0.8385 0.8987	0.8786 0.8804	0.8952	0.8351	0.8806	Ave		0.8724				2.9		15.0			
1,1-Dichloropropene	0.7960 0.7165	0.7245 0.6834	0.6931	0.6655	0.6830	Ave		0.7089				6.1		15.0			
Carbon tetrachloride	0.6918 0.7587	0.7452 0.7592	0.7484	0.6952	0.7478	Ave		0.7352				3.9		15.0			
Isobutyl alcohol	+++++ 0.6033	0.6782 0.6080	0.6248	0.5861	0.6614	Ave		0.6270				5.7		15.0			
Benzene	1.2801 1.3345	1.2923 1.3211	1.3291	1.2793	1.3300	Ave		1.3095				1.9		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichloroethane	+++++ 0.4011	0.4104 0.3699	0.4019	0.3966	0.3938	Ave		0.3956				3.5		15.0			
Tert-amyl methyl ether	0.8876	0.9239	0.9842 0.8734	0.9553	0.9163	Ave		0.9234				4.5		15.0			
n-Butanol	0.0035	0.0030	0.0030 0.0035	0.0036	0.0031	Ave		0.0033				9.0		15.0			
Trichloroethene	0.5069 0.5523	0.5289 0.5462	0.5490	0.5005	0.5435	Ave		0.5325				4.0		15.0			
2-Pentanone	0.2203 0.1925	0.1928 0.1834	0.2110	0.1887	0.2039	Ave		0.1989				6.7		15.0			
Methylcyclohexane	0.6575 0.8057	0.8259 0.8011	0.8100	0.7402	0.8003	Ave		0.7772				7.6		15.0			
1,2-Dichloropropane	0.5032 0.5220	0.5643 0.4938	0.5226	0.5400	0.5158	Ave		0.5231				4.5		30.0			
Methyl methacrylate	0.0516	0.0526	0.0659 0.0501	0.0535	0.0590	Ave		0.0554				10.8		15.0			
Dibromomethane	0.2801 0.2602	0.2660 0.2402	0.2617	0.2613	0.2555	Ave		0.2607				4.6		15.0			
1,4-Dioxane	+++++ 0.0014	0.0007 0.0015	0.0015	0.0010	0.0017	Lin2	-0.019	0.0016							0.9930		0.9900
Bromodichloromethane	0.7144 0.7636	0.7605 0.7600	0.7933	0.7698	0.7673	Ave		0.7613				3.1		15.0			
2-Nitropropane	0.0439	0.0392	0.0412 0.0436	0.0387	0.0388	Ave		0.0409				5.8		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0912	0.0991 0.1032	0.0880	0.0734	0.1061	Ave		0.0935				12.9		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
cis-1,3-Dichloropropene	2.6750 3.0354	2.9221 2.9872	3.0904	2.9018	3.0016	Ave		2.9448				4.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.3442 0.2584	0.2140 0.2551	0.2956	0.1914	0.2850	Lin1	-0.015	0.2662							0.9940		0.9900
Toluene	1.5176 1.5073	1.5648 1.4821	1.4939	1.4427	1.4985	Ave		1.5010				2.5		30.0			
trans-1,3-Dichloropropene	+++++ 0.4928	0.4849 0.4522	0.4890	0.4764	0.4809	Ave		0.4794				3.0		15.0			
Ethyl methacrylate	1.4143 1.8201	2.0173 1.7673	1.9026	1.8930	1.8399	Ave		1.8078				10.5		15.0			
1,1,2-Trichloroethane	+++++ 0.3015	0.3418 0.2655	0.2927	0.3160	0.2872	Ave		0.3008				8.7		15.0			
Tetrachloroethene	1.7265 2.0994	2.0522 2.2172	2.1402	1.9269	2.0726	Ave		2.0336				8.0		15.0			
1,3-Dichloropropane	2.0988 2.2579	2.4754 2.2014	2.3859	2.3518	2.2730	Ave		2.2920				5.4		15.0			
2-Hexanone	0.8284 0.7622	0.5682 0.8273	0.8838	0.5759	0.8677	Lin1	-0.441	0.8408							0.9970		0.9900
Chlorodibromomethane	2.0740 2.1696	2.2728 2.2722	2.2949	2.2269	2.3073	Ave		2.2311				3.7		15.0			
1,2-Dibromoethane	1.4087 1.5822	1.5346 1.6100	1.6757	1.5748	1.6216	Ave		1.5725				5.4		15.0			
1-Chlorohexane	3.5084 3.4695	3.5102 3.5732	3.4262	3.2136	3.3481	Ave		3.4356				3.5		15.0			
Chlorobenzene	4.2365 4.5461	4.4956 4.6390	4.6525	4.3619	4.4491	Ave		4.4830			0.3000	3.3		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1,1,2-Tetrachloroethane	1.9485 2.2117	2.1740 2.2529	2.2682	2.0985	2.1970	Ave		2.1644				5.1		15.0			
Ethylbenzene	2.0226 2.3517	2.2833 2.4001	2.4311	2.2308	2.2784	Ave		2.2854				5.9		30.0			
m-Xylene & p-Xylene	2.7785 3.1931	3.2773 3.2936	3.2573	2.7671	3.1810	Ave		3.1068				7.5		15.0			
o-Xylene	2.3533 2.7913	2.7308 2.8656	2.8595	2.7161	2.7643	Ave		2.7258				6.4		15.0			
Styrene	3.5913 4.5450	4.6319 4.6297	4.6479	4.3307	4.4769	Ave		4.4076				8.6		15.0			
Bromoform	0.9867 1.2372	1.1494 1.2669	1.3191	1.1764	1.2908	Ave		1.2038			0.1000	9.4		15.0			
Isopropylbenzene	5.4727 5.3868	5.6583 5.2474	5.4075	5.1944	5.1269	Ave		5.3563				3.4		15.0			
cis-1,4-Dichloro-2-butene	0.2175	0.2326	0.1743 0.2075	0.2412	0.2477	Ave		0.2201				12.2		15.0			
Cyclohexanone	0.0349 0.0259	0.0206 0.0268	0.0302	0.0202	0.0297	Lin1	-0.048	0.0278							0.9950		0.9900
Bromobenzene	1.1416 1.2551	1.2656 1.2243	1.2789	1.2435	1.2364	Ave		1.2351				3.6		15.0			
1,1,2,2-Tetrachloroethane	+++++ 1.0798	1.2715 0.9706	1.1278	1.1702	1.0692	Ave		1.1148			0.3000	9.1		15.0			
1,2,3-Trichloropropane	0.3027 0.2509	0.2823 0.2211	0.2561	0.2746	0.2371	Ave		0.2607				10.7		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2927	0.3626 0.2477	0.2773	0.3113	0.2638	Ave		0.2926				14.0		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
N-Propylbenzene	1.3235 1.3387	1.3607 1.2774	1.3273	1.3060	1.2435	Ave		1.3110				3.0		15.0			
2-Chlorotoluene	1.0409 0.9993	1.0630 0.9879	1.0298	1.0278	0.9625	Ave		1.0159				3.4		15.0			
1,3,5-Trimethylbenzene	4.3251 4.0485	4.1323 3.9378	4.0787	3.9955	3.8462	Ave		4.0520				3.8		15.0			
4-Chlorotoluene	1.2606 1.2821	1.3873 1.3034	1.3287	1.3303	1.2985	Ave		1.3130				3.1		15.0			
tert-Butylbenzene	4.6423 4.4055	4.6148 4.2623	4.4069	4.2619	4.1731	Ave		4.3952				4.1		15.0			
1,2,4-Trimethylbenzene	4.0915 3.8496	4.0242 3.6791	3.8806	3.7664	3.6503	Ave		3.8488				4.3		15.0			
sec-Butylbenzene	1.1536 1.1749	1.1761 1.1523	1.1754	1.1802	1.1084	Ave		1.1601				2.2		15.0			
1,3-Dichlorobenzene	1.9475 1.8356	1.9603 1.8624	1.9028	1.8447	1.7807	Ave		1.8763				3.4		15.0			
p-Isopropyltoluene	4.7453 5.0878	5.1707 4.9754	5.1332	4.9774	4.8357	Ave		4.9894				3.1		15.0			
1,4-Dichlorobenzene	2.8174 2.9420	2.9928 2.8150	2.8873	2.9475	2.8860	Ave		2.8983				2.3		15.0			
1,2,3-Trimethylbenzene	3.3707	3.3584	3.5005 3.2578	3.2562	3.3184	Ave		3.3437				2.7		15.0			
n-Butylbenzene	5.5526 5.2917	5.3840 5.1507	5.2530	5.0266	5.0251	Ave		5.2405				3.7		15.0			
1,2-Dichlorobenzene	1.8994 1.9763	2.0125 1.9437	2.0142	1.9990	1.9400	Ave		1.9693				2.2		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dibromo-3-Chloropropane	0.1626 0.1845	0.1878 0.1780	0.1967	0.1877	0.1896	Ave		0.1839				5.9		15.0			
1,2,4-Trichlorobenzene	1.1294 1.3379	1.3450 1.3612	1.3818	1.3498	1.3546	Ave		1.3228				6.5		15.0			
Hexachlorobutadiene	1.3053 1.3864	1.4295 1.3957	1.4103	1.3888	1.3363	Ave		1.3789				3.1		15.0			
Naphthalene	1.4838 1.4704	1.5211 1.4722	1.5652	1.4986	1.5272	Ave		1.5055				2.3		15.0			
1,2,3-Trichlorobenzene	0.9921 1.0521	1.0799 1.0578	1.0743	0.9593	1.0776	Ave		1.0419				4.5		15.0			
Dibromofluoromethane (Surr)	0.5930	0.6035	0.7139 0.5948	0.6162	0.6665	Ave		0.6313				7.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3283	0.3380	0.3801 0.3301	0.3483	0.3737	Ave		0.3497				6.4		15.0			
Toluene-d8 (Surr)	6.5381	5.8804	6.4381 5.6946	5.7403	6.2987	Ave		6.0984				6.1		15.0			
4-Bromofluorobenzene (Surr)	2.0194	2.0522	2.5577 1.9707	1.9809	2.2556	Ave		2.1394				10.7		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 Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-279265/9	H2949.D
Level 2	IC 280-279265/10	H2950.D
Level 3	IC 280-279265/16	H2957.D
Level 4	IC 280-279265/11	H2951.D
Level 5	IC 280-279265/17	H2958.D
Level 6	IC 280-279265/12	H2952.D
Level 7	IC 280-279265/18	H2959.D
Level 8	IC 280-279265/13	H2953.D
Level 9	ICIS 280-279265/19	H2960.D
Level 10	IC 280-279265/14	H2954.D
Level 11	IC 280-279265/20	H2961.D
Level 12	IC 280-279265/15	H2955.D
Level 13	IC 280-279265/21	H2962.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Lin1	17035 247178	42175 3195464	490322	61856	1582945	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Chloromethane	FB	Ave	11373 162089	30623 2063538	338017	53286	1032956	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Vinyl chloride	FB	Ave	11464 159681	29166 2088314	329568	47784	1028076	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Bromomethane	FB	Ave	+++++ 132730	27242 1677127	285208	43358	847148	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
Chloroethane	FB	Ave	+++++ 103163	19936 1175653	210596	31142	614520	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
Dichlorofluoromethane	FB	Ave	+++++ 365019	65058 4651419	766394	111136	2336784	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
Trichlorofluoromethane	FB	Ave	22025 321455	56652 4149850	675996	89150	2060386	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Ethanol	FB	Lin2	92015	15621	+++++ 200333	33859	9004	1500	250	+++++ 3000	500	100

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
Ethyl ether	FB	Ave	5076 84807	17097 946871	171739	32923	502993	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Acrolein	FB	Ave	+++++ 59073	12221 670949	113181	21672	354662	+++++ 50.0	10.00 600	100.0	20.0	300
1,1-Dichloroethene	FB	Ave	9301 159253	33271 1917053	321941	58222	937902	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	11802 219337	44325 2715137	443684	79903	1309750	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Acetone	FB	Ave	+++++ 62422	16671 674850	132884	25083	376529	+++++ 20.0	4.00 240	40.0	8.00	120
Isopropyl alcohol	FB	Lin1	156601	24803	10503 312090	62543	10028	300	50.0	10.0 600	100	20.0
Iodomethane	FB	Ave	21695 351110	73821 4302574	723408	131594	2111383	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Carbon disulfide	FB	Ave	41433 599818	123216 7290483	1216758	214216	3580245	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Acetonitrile	FB	Lin1	239466	43880	16071 480531	81258	19392	375	62.5	12.5 750	125	25.0
3-Chloro-1-propene	FB	Ave	22629 363829	77645 4311947	733581	137857	2163538	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Methyl acetate	FB	Ave	13933 259179	59188 3085396	568374	101327	1670946	1.50 25.0	5.00 300	50.0	10.0	150
Methylene Chloride	FB	Lin2	20589 146368	39793 1594879	289949	62909	814145	0.300 5.00	1.00 60.0	10.0	2.00	30.0
tert-Butyl alcohol	TBA	Lin1	+++++ 50634	10757 530360	103361	25764	300590	+++++ 50.0	10.0 600	100	20.0	300

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
Acrylonitrile	FB	Ave	7644 132956	28348 1661461	286517	53920	863563	3.00 50.0	10.0 600	100	20.0	300
trans-1,2-Dichloroethene	FB	Ave	11159 179063	35154 2163767	351195	67262	1056693	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Methyl tert-butyl ether	FB	Ave	19196 296103	62101 3405326	620688	113032	1794782	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Hexane	CBZ	Ave	18384 314081	64190 4048497	656745	113407	1936877	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1-Dichloroethane	FB	Ave	23998 364528	79883 4517987	742521	136484	2206706	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Vinyl acetate	FB	Ave	26188 489475	84948 5740935	959261	169021	3086662	0.600 10.0	2.00 120	20.0	4.00	60.0
Isopropyl ether	FB	Ave	949648	158619	33342 1898580	324780	64479	37.5	6.25	1.25 75.0	12.5	2.50
2-Chloro-1,3-butadiene	FB	Ave	1750155	294842	61627 3499683	570915	115265	30.0	5.00	1.00 60.0	10.0	2.00
Tert-butyl ethyl ether	FB	Ave	3659958	620642	153824 7387205	1272766	264567	37.5	6.25	1.25 75.0	12.5	2.50
cis-1,2-Dichloroethene	FB	Ave	10712 175089	37013 2172564	367183	67321	1074834	0.300 5.00	1.00 60.0	10.0	2.00	30.0
2-Butanone (MEK)	FB	Ave	+++++ 115653	24233 1491424	271060	37612	820646	+++++ 20.0	4.00 240	40.0	8.00	120
2,2-Dichloropropane	FB	Lin2	+++++ 357591	111289 3826816	676578	161477	1911674	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
Ethyl acetate	FB	Ave	835914	133601	30591 1689137	308502	50291	60.0	10.0	2.00 120	20.0	4.00

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
Propionitrile	FB	Ave	374048	61262	13113 752658	130541	23893	375	62.5	12.5 750	125	25.0
sec-Butyl Alcohol	TBA	Ave	15358 188288	44351 2256681	424147	81308	1291377	9.00 150	30.0 1800	300	60.0	900
Methacrylonitrile	FB	Ave	2645878	426154	88804 5249270	925891	173321	300	50.0	10.0 600	100	20.0
Bromochloromethane	FB	Ave	4564 77430	15065 966337	163111	30589	488660	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Tetrahydrofuran	FB	Ave	+++++ 41570	9425 502514	91342	16390	265724	+++++ 10.0	2.00 120	20.0	4.00	60.0
Chloroform	FB	Ave	20454 348497	75009 4188258	703605	133676	2084195	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1,1-Trichloroethane	FB	Ave	19475 334275	69076 4170262	682150	122948	2022539	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Cyclohexane	FB	Ave	21245 370277	74464 4600736	759284	137225	2254936	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1-Dichloropropene	FB	Ave	20169 295185	61407 3571391	587910	109356	1748830	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Carbon tetrachloride	FB	Ave	17528 312599	63160 3967597	634790	114248	1914881	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Isobutyl alcohol	TBA	Ave	+++++ 58888	13096 692521	133112	22070	420168	+++++ 125	25.0 1500	250	50.0	750
Benzene	FB	Ave	32434 549811	109532 6903972	1127346	210215	3405649	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2-Dichloroethane	FB	Ave	+++++ 165237	34787 1932916	340868	65169	1008279	+++++ 5.00	1.00 60.0	10.0	2.00	30.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
Tert-amyl methyl ether	FB	Ave	2980183	509379	108283 5944725	1058840	203262	37.5	6.25	1.25 75.0	12.5	2.50
n-Butanol	FB	Ave	237384	32899	6625 479232	80688	13826	750	125	25.0 1500	250	50.0
Trichloroethene	FB	Ave	12844 227548	44827 2854202	465659	82244	1391651	0.300 5.00	1.00 60.0	10.0	2.00	30.0
2-Pentanone	FB	Ave	22323 317235	65366 3833019	715858	124028	2088712	1.20 20.0	4.00 240	40.0	8.00	120
Methylcyclohexane	FB	Ave	16660 331927	69997 4186466	687055	121641	2049189	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2-Dichloropropane	FB	Ave	12750 215066	47827 2580688	443299	88743	1320707	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Methyl methacrylate	FB	Ave	277060	46363	11608 545200	94799	20939	60.0	10.0	2.00 120	20.0	4.00
Dibromomethane	FB	Ave	7097 107201	22545 1255247	221961	42931	654298	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,4-Dioxane	FB	Lin2	+++++ 11405	1190 154119	24744	3158	87288	+++++ 100	20.0 1200	200	40.0	600
Bromodichloromethane	FB	Ave	18101 314609	64456 3971466	672865	126497	1964681	0.300 5.00	1.00 60.0	10.0	2.00	30.0
2-Nitropropane	FB	Ave	235853	34617	7254 474539	68670	13786	60.0	10.0	2.00 120	20.0	4.00
2-Chloroethyl vinyl ether	FB	Ave	+++++ 37567	8401 539090	74647	12060	271671	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
cis-1,3-Dichloropropene	CBZ	Ave	16389 276201	55629 3329041	571072	107388	1713888	0.300 5.00	1.00 60.0	10.0	2.00	30.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
4-Methyl-2-pentanone (MIBK)	FB	Lin1	34884 425851	72563 5332900	1002764	125802	2918765	1.20 20.0	4.00 240	40.0	8.00	120
Toluene	FB	Ave	38452 621009	132622 7745216	1267160	237075	3836921	0.300 5.00	1.00 60.0	10.0	2.00	30.0
trans-1,3-Dichloropropene	FB	Ave	+++++ 203021	41101 2363176	414785	78291	1231322	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
Ethyl methacrylate	CBZ	Ave	8665 165619	38403 1969555	351571	70056	1050575	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1,2-Trichloroethane	FB	Ave	+++++ 124206	28973 1387307	248293	51927	735362	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
Tetrachloroethene	CBZ	Ave	10578 191028	39068 2470886	395487	71310	1183439	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,3-Dichloropropane	CBZ	Ave	12859 205450	47124 2453301	440887	87035	1297830	0.300 5.00	1.00 60.0	10.0	2.00	30.0
2-Hexanone	CBZ	Lin1	20301 277410	43268 3687649	653257	85245	1981716	1.20 20.0	4.00 240	40.0	8.00	120
Chlorodibromomethane	CBZ	Ave	12707 197422	43268 2532153	424072	82411	1317455	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2-Dibromoethane	CBZ	Ave	8631 143966	29215 1794214	309647	58280	925921	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1-Chlorohexane	CBZ	Ave	21495 315700	66824 3982029	633113	118927	1911706	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Chlorobenzene	CBZ	Ave	25956 413665	85583 5169847	859727	161425	2540363	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	11938 201252	41387 2510665	419142	77661	1254447	0.300 5.00	1.00 60.0	10.0	2.00	30.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
Ethylbenzene	CBZ	Ave	12392 213988	43467 2674714	449228	82557	1300912	0.300 5.00	1.00 60.0	10.0	2.00	30.0
m-Xylene & p-Xylene	CBZ	Ave	17023 290550	62391 3670522	601905	102405	1816296	0.300 5.00	1.00 60.0	10.0	2.00	30.0
o-Xylene	CBZ	Ave	14418 253986	51986 3193493	528399	100515	1578391	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Styrene	CBZ	Ave	22003 413563	88179 5159432	858871	160271	2556260	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Bromoform	CBZ	Ave	6045 112580	21881 1411916	243755	43536	737056	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Isopropylbenzene	DCB	Ave	48827 812395	171044 10313550	1680664	305501	4996844	0.300 5.00	1.00 60.0	10.0	2.00	30.0
cis-1,4-Dichloro-2-butene	DCB	Ave	206859	35995	5565 412278	75289	15634	30.0	5.00	1.00 60.0	10.0	2.00
Cyclohexanone	CBZ	Lin1	8548 94188	15703 1194077	223269	29957	677839	12.0 200	40.0 2400	400	80.0	1200
Bromobenzene	DCB	Ave	10185 189284	38258 2406376	397495	73134	1204988	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,1,2,2-Tetrachloroethane	DCB	Ave	+++++ 162847	38437 1907715	350506	68821	1042084	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
1,2,3-Trichloropropane	DCB	Ave	2701 37836	8533 434508	79592	16148	231112	0.300 5.00	1.00 60.0	10.0	2.00	30.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 44139	10962 486849	86189	18311	257129	+++++ 5.00	1.00 60.0	10.0	2.00	30.0
N-Propylbenzene	DCB	Ave	11808 201896	41134 2510741	412525	76813	1211930	0.300 5.00	1.00 60.0	10.0	2.00	30.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
2-Chlorotoluene	DCB	Ave	9287 150706	32135 1941695	320058	60448	938094	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,3,5-Trimethylbenzene	DCB	Ave	38588 610567	124917 7739677	1267667	234990	3748579	0.300 5.00	1.00 60.0	10.0	2.00	30.0
4-Chlorotoluene	DCB	Ave	11247 193360	41938 2561711	412960	78238	1265565	0.300 5.00	1.00 60.0	10.0	2.00	30.0
tert-Butylbenzene	DCB	Ave	41418 664399	139500 8377315	1369653	250654	4067161	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2,4-Trimethylbenzene	DCB	Ave	36504 580572	121648 7231176	1206077	221512	3557690	0.300 5.00	1.00 60.0	10.0	2.00	30.0
sec-Butylbenzene	DCB	Ave	10292 177196	35553 2264838	365299	69410	1080246	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,3-Dichlorobenzene	DCB	Ave	17375 276824	59259 3660427	591386	108495	1735503	0.300 5.00	1.00 60.0	10.0	2.00	30.0
p-Isopropyltoluene	DCB	Ave	42337 767309	156306 9779012	1595405	292735	4713028	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,4-Dichlorobenzene	DCB	Ave	25137 443692	90470 5532730	897375	173354	2812786	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2,3-Trimethylbenzene	DCB	Ave	3206272	519679	111761 6472065	1016440	209412	30.0	5.00	1.00 60.0	10.0	2.00
n-Butylbenzene	DCB	Ave	49540 798058	162753 10123491	1632647	295629	4897561	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2-Dichlorobenzene	DCB	Ave	16946 298057	60837 3820213	626018	117567	1890736	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1451 27832	5677 349881	61145	11040	184811	0.300 5.00	1.00 60.0	10.0	2.00	30.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 279265

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/28/2015 00:18 Calibration End Date: 05/28/2015 05:10 Calibration ID: 22417

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7 LVL 12	LVL 3 LVL 8 LVL 13	LVL 4 LVL 9	LVL 5 LVL 10
1,2,4-Trichlorobenzene	DCB	Ave	10076 201768	40657 2675409	429478	79388	1320265	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Hexachlorobutadiene	DCB	Ave	11646 209088	43213 2743229	438309	81678	1302417	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Naphthalene	DCB	Ave	13238 221754	45982 2893523	486464	88140	1488412	0.300 5.00	1.00 60.0	10.0	2.00	30.0
1,2,3-Trichlorobenzene	DCB	Ave	8851 158675	32643 2079040	333902	56420	1050261	0.300 5.00	1.00 60.0	10.0	2.00	30.0
Dibromofluoromethane (Surr)	FB	Ave	1592725	266180	62835 3238689	546393	118288	30.0	5.00	1.00 60.0	10.0	2.00
1,2-Dichloroethane-d4 (Surr)	FB	Ave	881719	149069	33456 1797526	308839	66325	30.0	5.00	1.00 60.0	10.0	2.00
Toluene-d8 (Surr)	CBZ	Ave	3504937	582345	134275 7087877	1177961	255016	30.0	5.00	1.00 60.0	10.0	2.00
4-Bromofluorobenzene (Surr)	DCB	Ave	1920918	317561	81659 3915034	618356	142343	30.0	5.00	1.00 60.0	10.0	2.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2949.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-May-2015 00:18:30 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:03:28 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: moanm Date: 02-Jun-2015 08:03:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.994	3.974	0.020	97	193515	250.0	250.0	
* 2 Fluorobenzene	96	6.762	6.759	0.003	97	1055741	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.115	11.094	0.021	91	255283	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.109	14.106	0.003	98	371746	12.5	12.5	
28 Dichlorodifluoromethane	85	2.166	2.164	0.002	95	17035	0.3000	0.4280	
30 Chloromethane	50	2.253	2.269	-0.016	95	11373	0.3000	0.3460	
31 Butadiene	54	2.375	2.373	0.002	0	9511	NC	NC	
32 Vinyl chloride	62	2.375	2.390	-0.015	87	11464	0.3000	0.3566	
35 Bromomethane	94	2.671	2.669	0.002	93	11483	0.3000	0.4304	
36 Chloroethane	64	2.758	2.756	0.002	97	8427	0.3000	0.4312	
37 Dichlorofluoromethane	67	2.932	2.930	0.002	96	30915	0.3000	0.4361	
38 Trichlorofluoromethane	101	2.985	2.982	0.003	98	22025	0.3000	0.3473	
40 Ethyl ether	59	3.228	3.226	0.002	88	5076	0.3000	0.3030	
44 Acrolein	56		3.365				ND	ND	
45 1,1-Dichloroethene	96	3.489	3.470	0.019	93	9301	0.3000	0.2950	
46 1,1,2-Trichloro-1,2,2-trif	151	3.507	3.487	0.020	93	11802	0.3000	0.2746	
47 Acetone	43	3.507	3.505	0.002	95	12647	1.20	3.85	
48 Iodomethane	142	3.646	3.644	0.002	98	21695	0.3000	0.3057	
50 Carbon disulfide	76	3.733	3.731	0.002	96	41433	0.3000	0.3408	
52 3-Chloro-1-propene	41	3.820	3.818	0.002	82	22629	0.3000	0.3092	
53 Methyl acetate	43	3.838	3.818	0.020	77	13933	1.50	1.31	
54 Methylene Chloride	84	3.960	3.957	0.003	97	20589	0.3000	0.2991	
55 2-Methyl-2-propanol	59	4.099	4.062	0.037	92	6971	3.00	3.17	
57 Acrylonitrile	53	4.203	4.201	0.002	39	7644	3.00	2.78	
58 trans-1,2-Dichloroethene	96	4.238	4.236	0.002	95	11159	0.3000	0.3146	
56 Methyl tert-butyl ether	73	4.238	4.236	0.002	91	19196	0.3000	0.3194	
59 Hexane	57	4.499	4.514	-0.015	91	18384	0.3000	0.2685	
60 1,1-Dichloroethane	63	4.691	4.688	0.003	95	23998	0.3000	0.3205	
61 Vinyl acetate	43	4.743	4.723	0.020	97	26188	0.6000	0.5647	
65 cis-1,2-Dichloroethene	96	5.352	5.367	-0.015	88	10712	0.3000	0.2997	
67 2-Butanone (MEK)	43		5.367				ND	ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.317	5.385	-0.068	80	62959	0.3000	0.2386	
71 sec-Butyl Alcohol	45	5.596	5.576	0.020	91	15358	9.00	11.1	
73 Chlorobromomethane	128	5.666	5.663	0.003	92	4564	0.3000	0.2910	
74 Tetrahydrofuran	42	5.735	5.716	0.019	41	4474	0.6000	1.03	
75 Chloroform	83	5.735	5.733	0.002	96	20454	0.3000	0.2925	
76 1,1,1-Trichloroethane	97	5.979	5.977	0.002	97	19475	0.3000	0.2916	
77 Cyclohexane	56	6.049	6.046	0.003	91	21245	0.3000	0.2883	
78 1,1-Dichloropropene	75	6.171	6.168	0.003	90	20169	0.3000	0.3369	
79 Carbon tetrachloride	117	6.188	6.186	0.002	94	17528	0.3000	0.2823	
80 Isobutyl alcohol	41		6.290				ND	ND	
81 Benzene	78	6.432	6.429	0.003	97	32434	0.3000	0.2933	
82 1,2-Dichloroethane	62		6.447				ND	ND	
84 n-Heptane	43	6.728	6.725	0.003	96	27451	0.3000	0.2803	
86 Trichloroethene	95	7.233	7.230	0.003	94	12844	0.3000	0.2856	
88 2-Pentanone	43	7.494	7.474	0.020	63	22323	1.20	1.33	
89 Methylcyclohexane	55	7.494	7.491	0.003	85	16660	0.3000	0.2538	
90 1,2-Dichloropropane	63	7.528	7.526	0.002	62	12750	0.3000	0.2886	
92 Dibromomethane	93	7.703	7.700	0.003	90	7097	0.3000	0.3223	
93 1,4-Dioxane	88		7.718				ND	ND	
94 Dichlorobromomethane	83	7.894	7.892	0.002	97	18101	0.3000	0.2815	
96 2-Chloroethyl vinyl ether	63		8.292				ND	ND	
97 cis-1,3-Dichloropropene	75	8.503	8.501	0.002	89	16389	0.3000	0.2725	
98 4-Methyl-2-pentanone (MIBK	43	8.730	8.710	0.020	96	34884	1.20	1.61	
99 Toluene	91	8.973	8.971	0.002	98	38452	0.3000	0.3033	
100 trans-1,3-Dichloropropene	75		9.285				ND	ND	
101 Ethyl methacrylate	69	9.409	9.406	0.003	52	8665	0.3000	0.2347	
102 1,1,2-Trichloroethane	97	9.548	9.546	0.002	39	11674	0.3000	0.4595	
103 Tetrachloroethene	164	9.774	9.772	0.002	94	10578	0.3000	0.2547	
104 1,3-Dichloropropane	76	9.792	9.789	0.003	76	12859	0.3000	0.2747	
105 2-Hexanone	43	9.948	9.929	0.019	95	20301	1.20	1.71	
108 Chlorodibromomethane	129	10.157	10.155	0.002	90	12707	0.3000	0.2789	
109 Ethylene Dibromide	107	10.349	10.329	0.020	96	8631	0.3000	0.2688	
110 1-Chlorohexane	91	11.115	11.113	0.002	52	21495	0.3000	0.3064	
111 Chlorobenzene	112	11.150	11.147	0.003	86	25956	0.3000	0.2835	
112 1,1,1,2-Tetrachloroethane	131	11.272	11.287	-0.015	73	11938	0.3000	0.2701	
113 Ethylbenzene	106	11.324	11.322	0.002	98	12392	0.3000	0.2655	
114 m-Xylene & p-Xylene	106	11.515	11.496	0.019	97	17023	0.3000	0.2683	
115 o-Xylene	106	12.072	12.070	0.002	97	14418	0.3000	0.2590	
116 Styrene	104	12.090	12.088	0.002	95	22003	0.3000	0.2444	
117 Bromoform	173	12.334	12.349	-0.015	88	6045	0.3000	0.2459	
118 Isopropylbenzene	105	12.560	12.558	0.002	96	48827	0.3000	0.3065	
120 Cyclohexanone	55	12.699	12.697	0.002	88	8548	12.0	16.8	
122 Bromobenzene	156	12.943	12.941	0.002	92	10185	0.3000	0.2773	
121 1,1,2,2-Tetrachloroethane	83	12.960	12.958	0.002	67	14087	0.3000	0.4249	
123 1,2,3-Trichloropropane	110	12.995	12.993	0.002	79	2701	0.3000	0.3484	
124 trans-1,4-Dichloro-2-buten	53	13.030	13.028	0.002	59	1719	0.3000	0.1976	
125 N-Propylbenzene	120	13.082	13.080	0.002	99	11808	0.3000	0.3028	
126 2-Chlorotoluene	126	13.187	13.184	0.003	96	9287	0.3000	0.3074	
127 1,3,5-Trimethylbenzene	105	13.291	13.289	0.002	94	38588	0.3000	0.3202	
128 4-Chlorotoluene	126	13.326	13.306	0.020	97	11247	0.3000	0.2880	
129 tert-Butylbenzene	119	13.674	13.672	0.002	95	41418	0.3000	0.3169	
130 1,2,4-Trimethylbenzene	105	13.726	13.724	0.002	95	36504	0.3000	0.3189	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.918	13.916	0.002	94	10292	0.3000	0.2983	
132 1,3-Dichlorobenzene	146	14.040	14.037	0.003	86	17375	0.3000	0.3114	
133 4-Isopropyltoluene	119	14.074	14.072	0.002	97	42337	0.3000	0.2853	
134 1,4-Dichlorobenzene	146	14.127	14.142	-0.015	81	25137	0.3000	0.2916	
137 n-Butylbenzene	91	14.510	14.507	0.003	98	49540	0.3000	0.3179	
138 1,2-Dichlorobenzene	146	14.527	14.542	-0.015	95	16946	0.3000	0.2893	
139 1,2-Dibromo-3-Chloropropan	157	15.293	15.326	-0.033	68	1451	0.3000	0.2654	
144 1,2,3-Trichlorobenzene	180	16.529	16.074	0.455	45	8851	0.3000	0.2284	a
142 Hexachlorobutadiene	225	16.233	16.231	0.002	94	11646	0.3000	0.2840	
143 Naphthalene	128	16.303	16.301	0.002	92	13238	0.3000	0.2957	
141 1,2,4-Trichlorobenzene	180	16.077	16.527	-0.450	52	10076	0.3000	0.3192	a
S 151 1,2-Dichloroethene, Total	96				0		0.6000	0.6143	
S 145 Trihalomethanes, Total	1				0		1.20	1.10	
S 146 Xylenes, Total (URS)	1				0		0.6000	0.5273	
S 147 Total BTEX	1				0			1.39	
S 148 1,3-Dichloropropene, Total	1				0		0.6000	0.2725	
S 149 1,2-Dichloroethene, Total	1				0		0.6000	0.6143	
S 150 Xylenes, Total	106				0		0.6000	0.5273	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- a - User Assigned ID

Reagents:

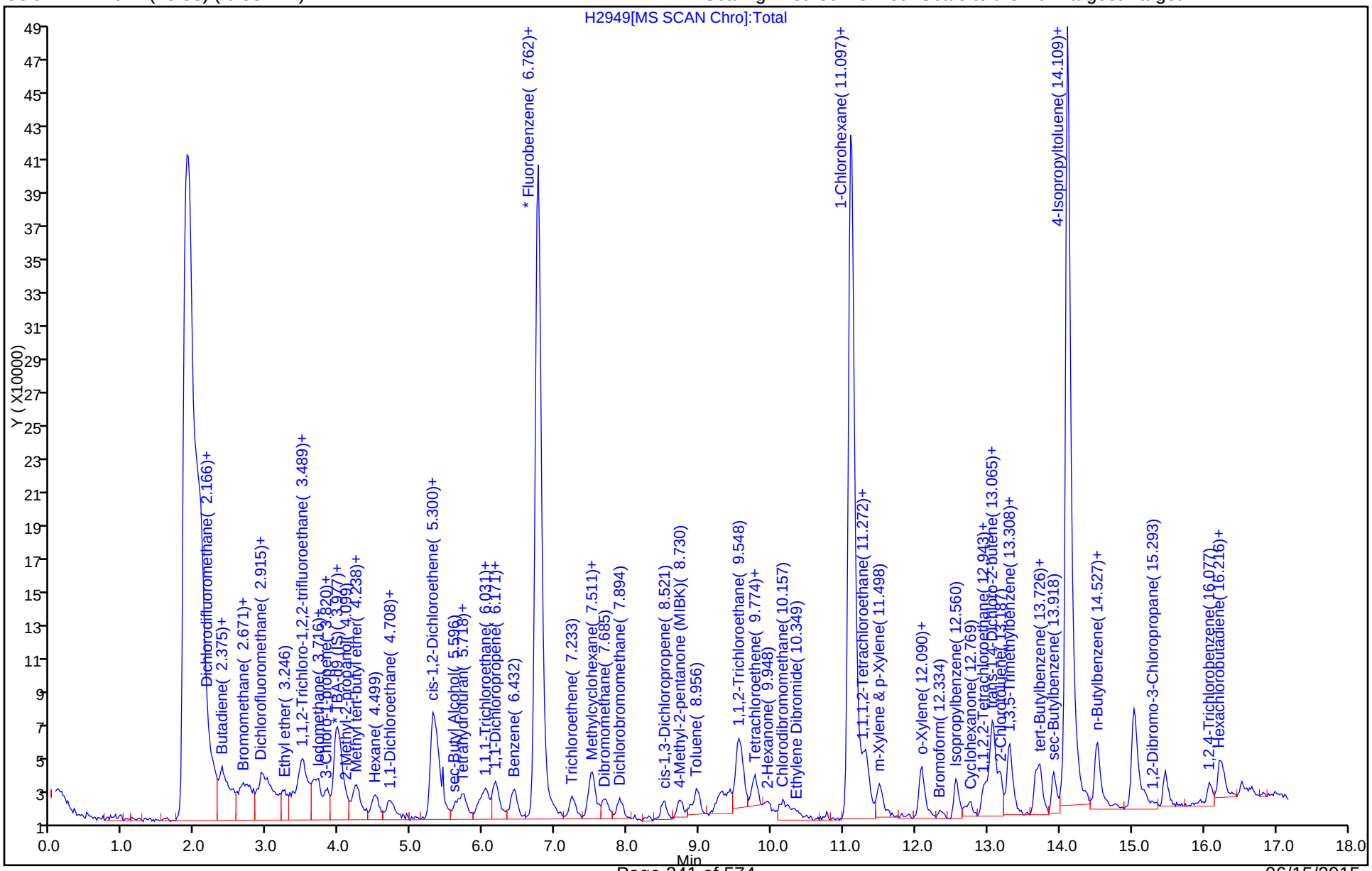
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Main A_00022	Amount Added:	0.15	Units: uL
MV-Gas/Ket A_00033	Amount Added:	0.15	Units: uL
MV-2cleve+AVA_00009	Amount Added:	0.15	Units: uL

Report Date: 02-Jun-2015 08:03:28 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2949.D				
Injection Date:	28-May-2015 00:18:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

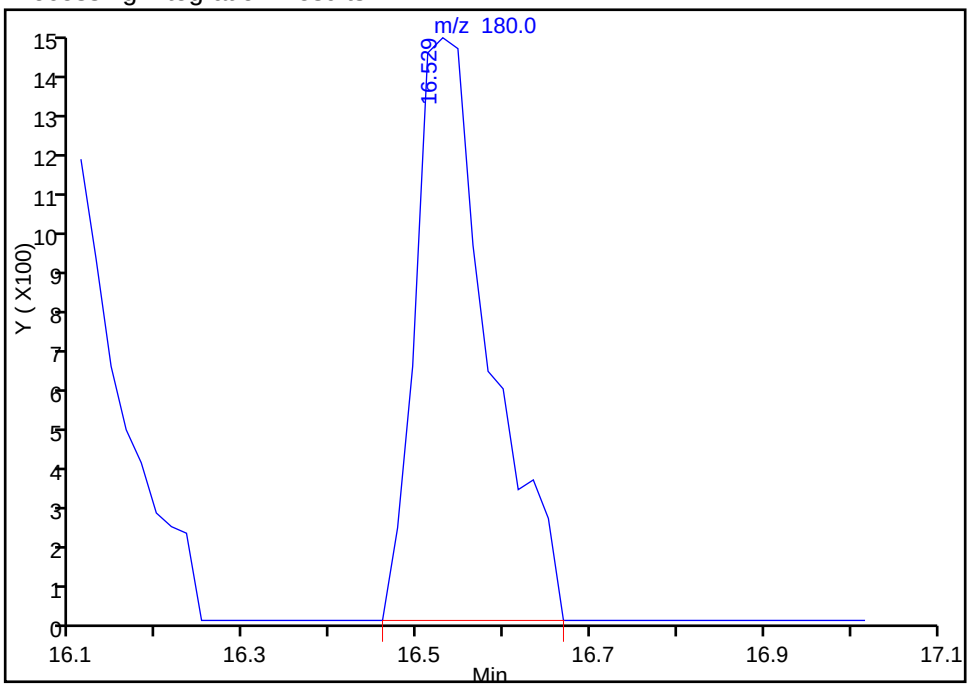
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2949.D				
Injection Date:	28-May-2015 00:18:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

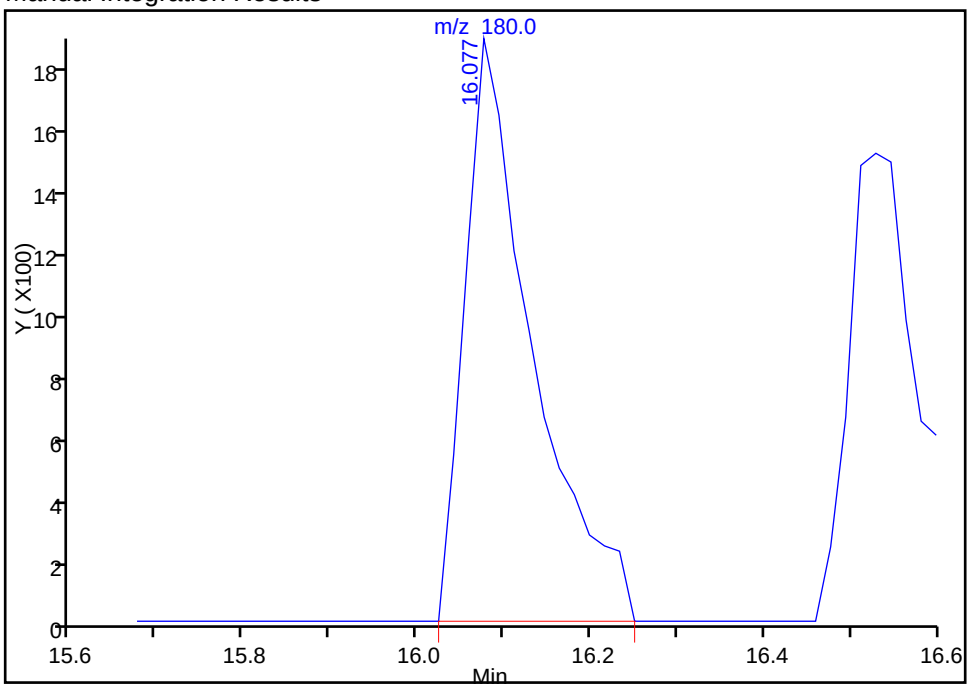
Processing Integration Results

RT: 16.53
Area: 8851
Amount: 0.285656
Amount Units: ug/l



Manual Integration Results

RT: 16.08
Area: 10076
Amount: 0.319183
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:03:27
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

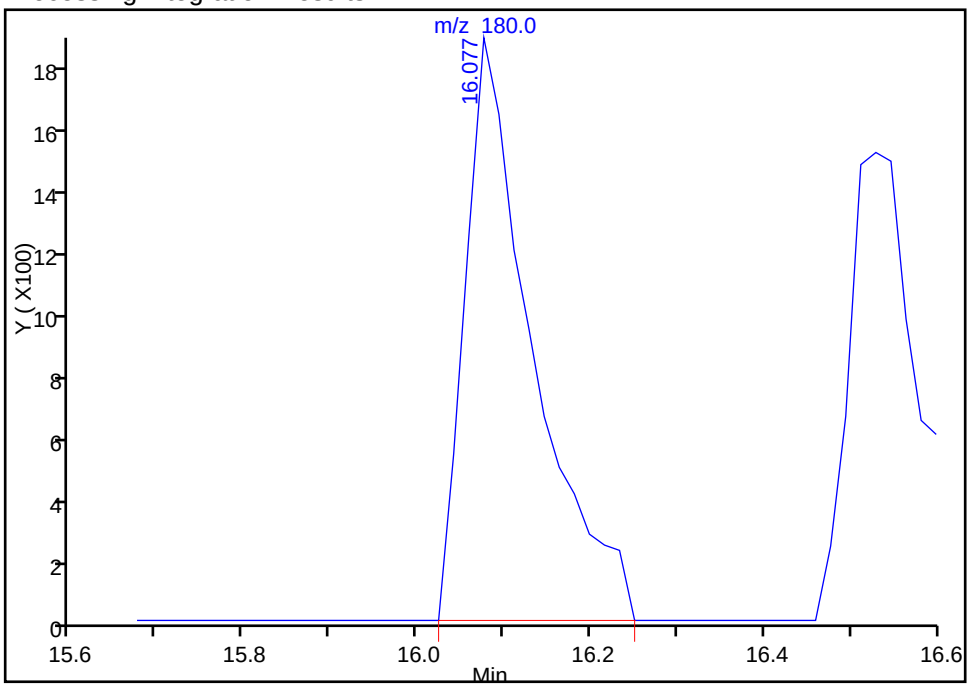
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2949.D				
Injection Date:	28-May-2015 00:18:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

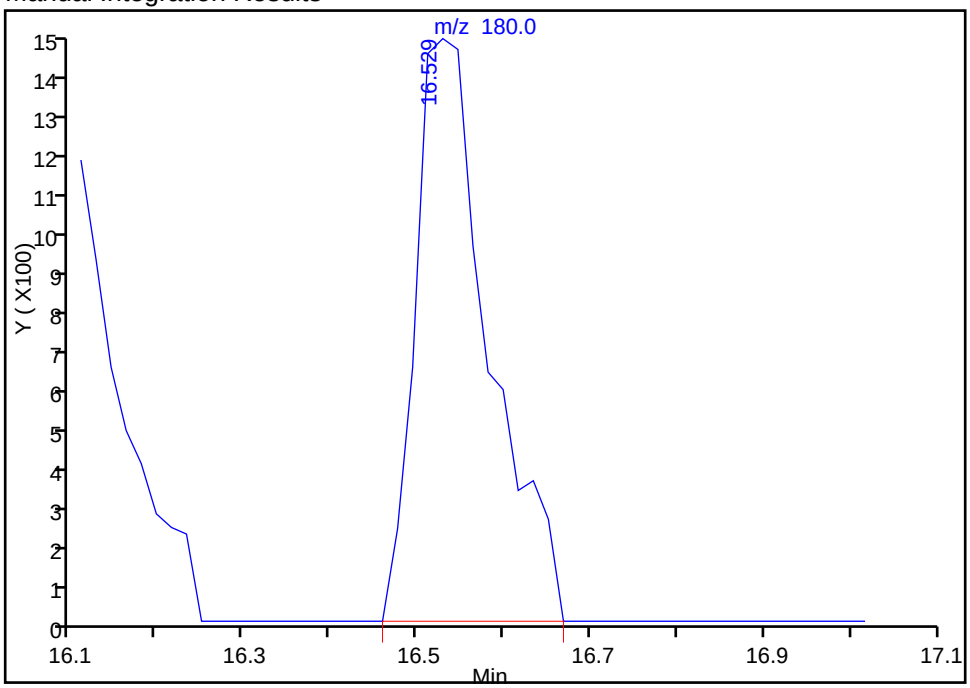
Processing Integration Results

RT: 16.08
Area: 10076
Amount: 0.256125
Amount Units: ug/l



Manual Integration Results

RT: 16.53
Area: 8851
Amount: 0.228373
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:03:27
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2950.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-May-2015 00:40:30 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:03:43 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: wickhamt Date: 28-May-2015 06:21:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.993	3.974	0.019	97	193113	250.0	250.0	
* 2 Fluorobenzene	96	6.761	6.759	0.002	97	1059430	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.096	11.094	0.002	93	237965	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.108	14.106	0.002	98	377864	12.5	12.5	
28 Dichlorodifluoromethane	85	2.148	2.164	-0.016	98	42175	1.00	0.9145	
30 Chloromethane	50	2.252	2.269	-0.017	99	30623	1.00	0.9283	M
31 Butadiene	54	2.374	2.373	0.001	0	23161	NC	NC	
32 Vinyl chloride	62	2.391	2.390	0.001	89	29166	1.00	0.9040	
35 Bromomethane	94	2.670	2.669	0.001	90	27242	1.00	1.02	
36 Chloroethane	64	2.757	2.756	0.001	97	19936	1.00	1.02	
37 Dichlorofluoromethane	67	2.931	2.930	0.001	98	65058	1.00	0.9145	
38 Trichlorofluoromethane	101	2.983	2.982	0.001	98	56652	1.00	0.8902	
40 Ethyl ether	59	3.227	3.226	0.001	94	17097	1.00	1.02	
44 Acrolein	56	3.366	3.365	0.001	94	12221	10.0	10.6	
45 1,1-Dichloroethene	96	3.471	3.470	0.001	94	33271	1.00	1.05	
46 1,1,2-Trichloro-1,2,2-trif	151	3.488	3.487	0.001	95	44325	1.00	1.03	
47 Acetone	43	3.505	3.505	0.000	46	16671	4.00	5.06	
48 Iodomethane	142	3.645	3.644	0.001	98	73821	1.00	1.04	
50 Carbon disulfide	76	3.732	3.731	0.001	95	123216	1.00	1.01	
52 3-Chloro-1-propene	41	3.819	3.818	0.001	84	77645	1.00	1.06	
53 Methyl acetate	43	3.819	3.818	0.001	73	59188	5.00	5.55	
54 Methylene Chloride	84	3.941	3.957	-0.016	98	39793	1.00	1.01	
55 2-Methyl-2-propanol	59	4.080	4.062	0.018	95	10757	10.0	7.40	
57 Acrylonitrile	53	4.202	4.201	0.001	54	28348	10.0	10.3	
58 trans-1,2-Dichloroethene	96	4.237	4.236	0.001	94	35154	1.00	0.9876	
56 Methyl tert-butyl ether	73	4.237	4.236	0.001	84	62101	1.00	1.03	
59 Hexane	57	4.498	4.514	-0.016	95	64190	1.00	1.01	
60 1,1-Dichloroethane	63	4.689	4.688	0.001	96	79883	1.00	1.06	
61 Vinyl acetate	43	4.724	4.723	0.001	96	84948	2.00	1.83	
65 cis-1,2-Dichloroethene	96	5.351	5.367	-0.016	87	37013	1.00	1.03	
67 2-Butanone (MEK)	43	5.368	5.367	0.001	45	24233	4.00	3.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.368	5.385	-0.017	76	111289	1.00	1.02	
71 sec-Butyl Alcohol	45	5.595	5.576	0.019	97	44351	30.0	32.1	
73 Chlorobromomethane	128	5.647	5.663	-0.016	90	15065	1.00	0.9571	
74 Tetrahydrofuran	42	5.716	5.716	0.000	40	9425	2.00	2.15	
75 Chloroform	83	5.716	5.733	-0.017	95	75009	1.00	1.07	
76 1,1,1-Trichloroethane	97	5.978	5.977	0.001	96	69076	1.00	1.03	
77 Cyclohexane	56	6.047	6.046	0.001	92	74464	1.00	1.01	
78 1,1-Dichloropropene	75	6.152	6.168	-0.016	90	61407	1.00	1.02	
79 Carbon tetrachloride	117	6.187	6.186	0.001	96	63160	1.00	1.01	
80 Isobutyl alcohol	41	6.291	6.290	0.001	90	13096	25.0	27.0	
81 Benzene	78	6.413	6.429	-0.016	97	109532	1.00	0.9869	
82 1,2-Dichloroethane	62	6.448	6.447	0.001	94	34787	1.00	1.04	
84 n-Heptane	43	6.709	6.725	-0.016	97	102379	1.00	1.04	
86 Trichloroethene	95	7.231	7.230	0.001	97	44827	1.00	0.99	
88 2-Pentanone	43	7.475	7.474	0.001	95	65366	4.00	3.88	
89 Methylcyclohexane	55	7.492	7.491	0.001	92	69997	1.00	1.06	
90 1,2-Dichloropropane	63	7.527	7.526	0.001	95	47827	1.00	1.08	
92 Dibromomethane	93	7.684	7.700	-0.016	94	22545	1.00	1.02	
93 1,4-Dioxane	88	7.736	7.718	0.018	30	1190	20.0	20.9	
94 Dichlorobromomethane	83	7.893	7.892	0.001	98	64456	1.00	1.00	
96 2-Chloroethyl vinyl ether	63	8.293	8.292	0.001	82	8401	1.00	1.06	
97 cis-1,3-Dichloropropene	75	8.502	8.501	0.001	91	55629	1.00	0.99	
98 4-Methyl-2-pentanone (MIBK	43	8.728	8.710	0.018	98	72563	4.00	3.27	
99 Toluene	91	8.972	8.971	0.001	97	132622	1.00	1.04	
100 trans-1,3-Dichloropropene	75	9.285	9.285	0.000	94	41101	1.00	1.01	
101 Ethyl methacrylate	69	9.407	9.406	0.001	95	38403	1.00	1.12	
102 1,1,2-Trichloroethane	97	9.547	9.546	0.001	54	28973	1.00	1.14	
103 Tetrachloroethene	164	9.756	9.772	-0.016	94	39068	1.00	1.01	
104 1,3-Dichloropropane	76	9.790	9.789	0.001	95	47124	1.00	1.08	
105 2-Hexanone	43	9.912	9.929	-0.017	96	43268	4.00	3.23	
108 Chlorodibromomethane	129	10.139	10.155	-0.016	90	43268	1.00	1.02	
109 Ethylene Dibromide	107	10.330	10.329	0.001	99	29215	1.00	0.9759	
110 1-Chlorohexane	91	11.113	11.113	0.000	81	66824	1.00	1.02	
111 Chlorobenzene	112	11.148	11.147	0.001	88	85583	1.00	1.00	
112 1,1,1,2-Tetrachloroethane	131	11.288	11.287	0.001	81	41387	1.00	1.00	
113 Ethylbenzene	106	11.322	11.322	0.000	99	43467	1.00	1.00	
114 m-Xylene & p-Xylene	106	11.496	11.496	0.000	97	62391	1.00	1.05	
115 o-Xylene	106	12.071	12.070	0.001	98	51986	1.00	1.00	
116 Styrene	104	12.088	12.088	0.000	94	88179	1.00	1.05	
117 Bromoform	173	12.350	12.349	0.001	94	21881	1.00	0.9548	
118 Isopropylbenzene	105	12.558	12.558	0.000	97	171044	1.00	1.06	
120 Cyclohexanone	55	12.680	12.697	-0.017	94	15703	40.0	31.4	
122 Bromobenzene	156	12.941	12.941	0.000	92	38258	1.00	1.02	
121 1,1,2,2-Tetrachloroethane	83	12.959	12.958	0.001	71	38437	1.00	1.14	
123 1,2,3-Trichloropropane	110	13.011	12.993	0.018	79	8533	1.00	1.08	
124 trans-1,4-Dichloro-2-buten	53	13.029	13.028	0.000	63	10962	1.00	1.24	
125 N-Propylbenzene	120	13.081	13.080	0.001	99	41134	1.00	1.04	
126 2-Chlorotoluene	126	13.168	13.184	-0.016	97	32135	1.00	1.05	
127 1,3,5-Trimethylbenzene	105	13.290	13.289	0.001	94	124917	1.00	1.02	
128 4-Chlorotoluene	126	13.307	13.306	0.001	98	41938	1.00	1.06	
129 tert-Butylbenzene	119	13.673	13.672	0.001	95	139500	1.00	1.05	
130 1,2,4-Trimethylbenzene	105	13.725	13.724	0.001	96	121648	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.916	13.916	0.000	95	35553	1.00	1.01	
132 1,3-Dichlorobenzene	146	14.038	14.037	0.001	97	59259	1.00	1.04	
133 4-Isopropyltoluene	119	14.073	14.072	0.001	98	156306	1.00	1.04	
134 1,4-Dichlorobenzene	146	14.125	14.142	-0.017	92	90470	1.00	1.03	
137 n-Butylbenzene	91	14.508	14.507	0.001	99	162753	1.00	1.03	
138 1,2-Dichlorobenzene	146	14.526	14.542	-0.016	95	60837	1.00	1.02	
139 1,2-Dibromo-3-Chloropropan	157	15.327	15.326	0.001	74	5677	1.00	1.02	
144 1,2,3-Trichlorobenzene	180	16.528	16.074	0.454	84	32643	1.00	0.8534	a
142 Hexachlorobutadiene	225	16.232	16.231	0.001	97	43213	1.00	1.04	
143 Naphthalene	128	16.302	16.301	0.001	97	45982	1.00	1.01	
141 1,2,4-Trichlorobenzene	180	16.075	16.527	-0.452	85	40657	1.00	1.22	a
S 151 1,2-Dichloroethene, Total	96				0		2.00	2.02	
S 145 Trihalomethanes, Total	1				0		4.00	4.04	
S 146 Xylenes, Total (URS)	1				0		2.00	2.06	
S 147 Total BTEX	1				0			5.09	
S 148 1,3-Dichloropropene, Total	1				0		2.00	2.00	
S 149 1,2-Dichloroethene, Total	1				0		2.00	2.02	
S 150 Xylenes, Total	106				0		2.00	2.06	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

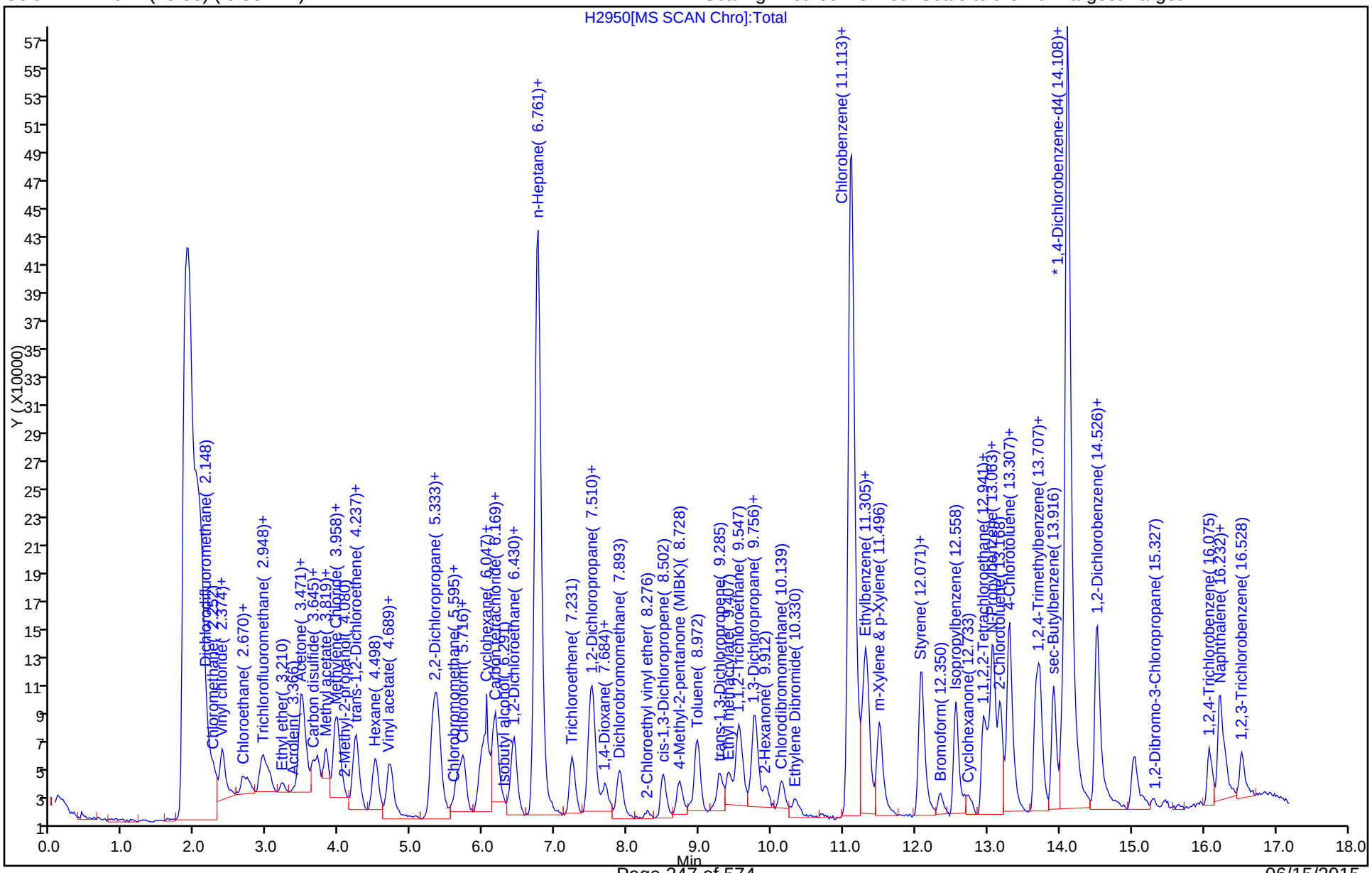
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Main A_00022	Amount Added:	0.50	Units: uL
MV-Gas/Ket A_00033	Amount Added:	0.50	Units: uL
MV-2cleve+AVA_00009	Amount Added:	0.50	Units: uL

Report Date: 02-Jun-2015 08:03:44 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2950.D				
Injection Date:	28-May-2015 00:40:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

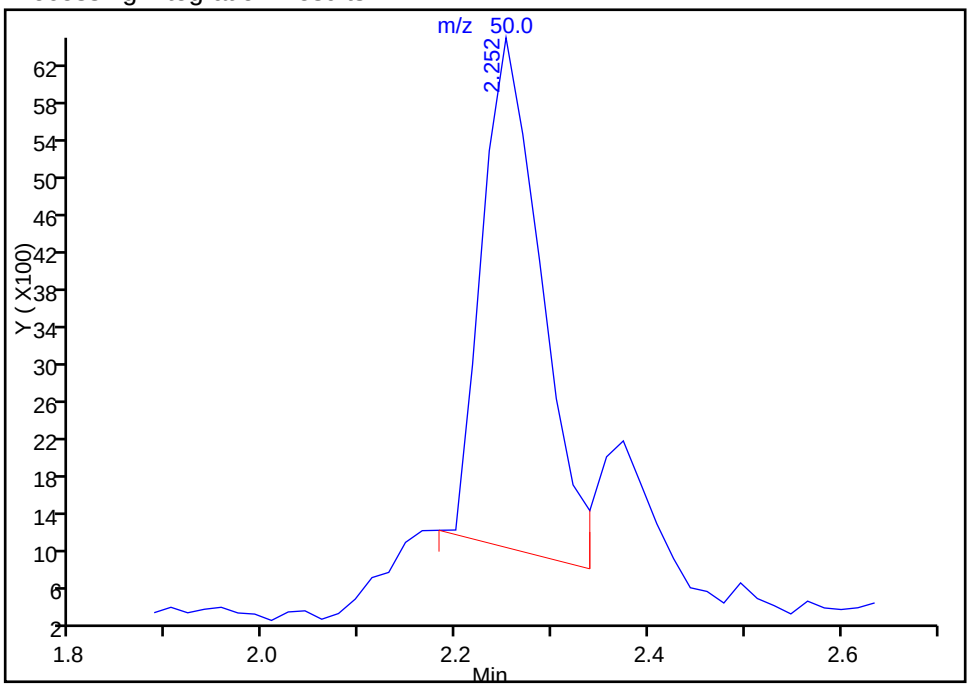
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2950.D				
Injection Date:	28-May-2015 00:40:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

30 Chloromethane, CAS: 74-87-3

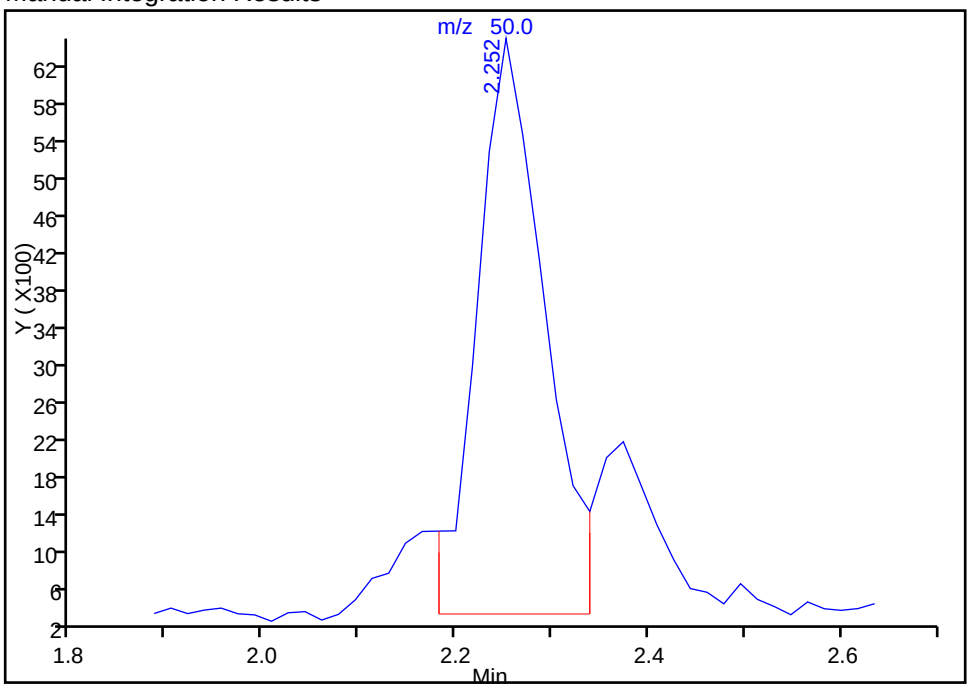
Processing Integration Results

RT: 2.25
Area: 23488
Amount: 0.764324
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 30623
Amount: 0.928269
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:21:14
Audit Action: Assigned New Baseline
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

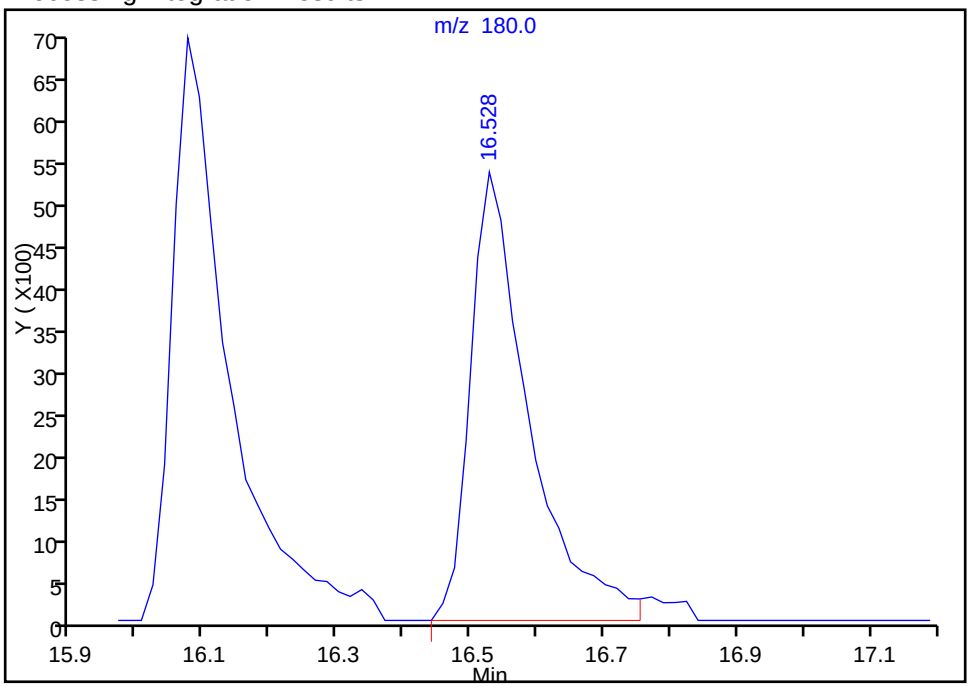
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2950.D				
Injection Date:	28-May-2015 00:40:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

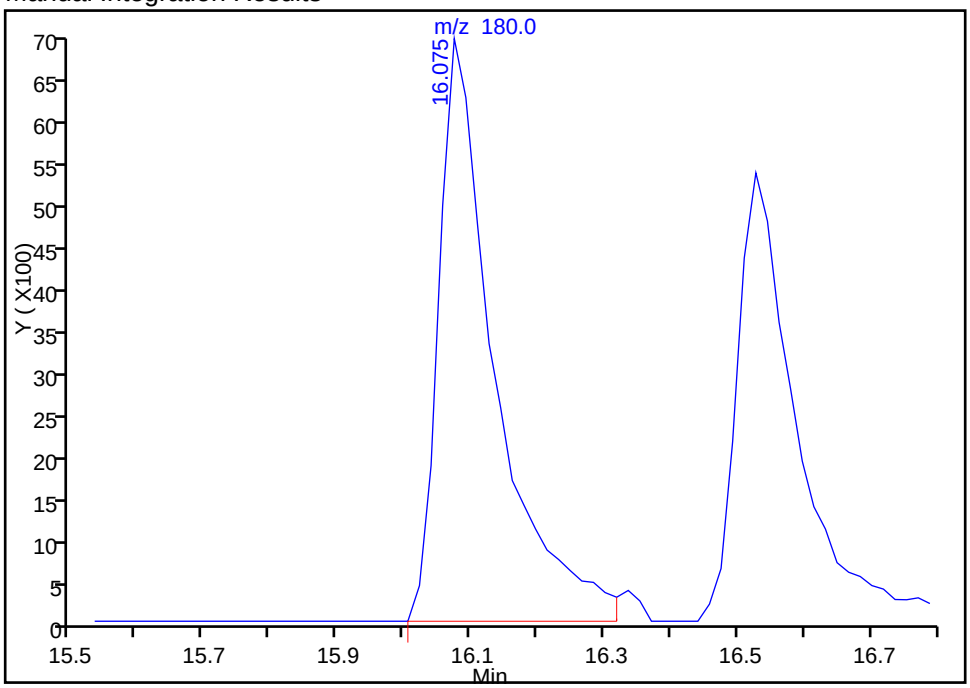
Processing Integration Results

RT: 16.53
Area: 32643
Amount: 1.017307
Amount Units: ug/l



Manual Integration Results

RT: 16.08
Area: 40657
Amount: 1.223410
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:03:43
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

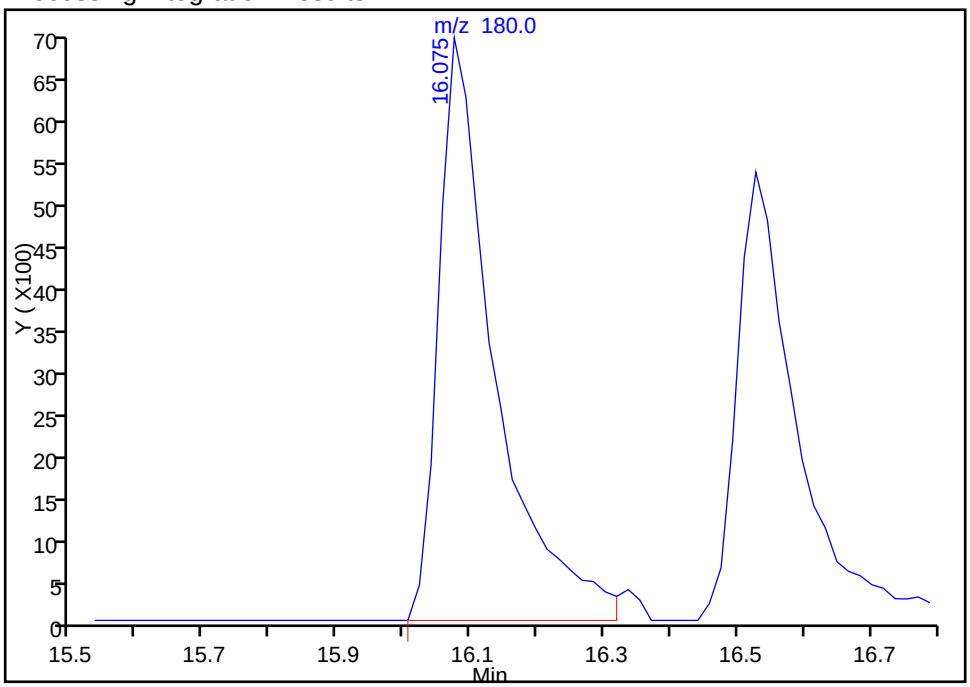
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2950.D				
Injection Date:	28-May-2015 00:40:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	4	Worklist Smp#:	10
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

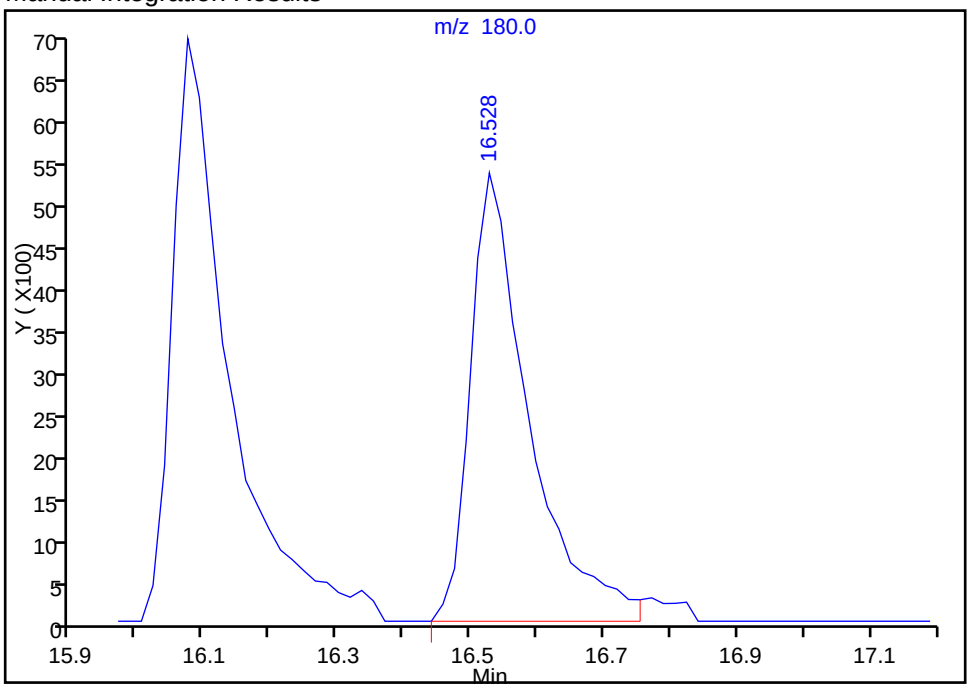
Processing Integration Results

RT: 16.08
Area: 40657
Amount: 1.032043
Amount Units: ug/l



Manual Integration Results

RT: 16.53
Area: 32643
Amount: 0.853416
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:03:43
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2951.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-May-2015 01:03:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:04:02 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: wickhamt Date: 28-May-2015 06:22:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.971	3.974	-0.003	97	188279	250.0	250.0	
* 2 Fluorobenzene	96	6.756	6.759	-0.003	96	1027041	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.109	11.094	0.015	94	231298	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.106	0.014	97	367583	12.5	12.5	
28 Dichlorodifluoromethane	85	2.143	2.164	-0.021	97	61856	2.00	1.33	
30 Chloromethane	50	2.247	2.269	-0.022	98	53286	2.00	1.67	M
31 Butadiene	54	2.369	2.373	-0.004	0	36913	NC	NC	
32 Vinyl chloride	62	2.386	2.390	-0.004	85	47784	2.00	1.53	
35 Bromomethane	94	2.665	2.669	-0.004	91	43358	2.00	1.67	
36 Chloroethane	64	2.735	2.756	-0.021	100	31142	2.00	1.64	
37 Dichlorofluoromethane	67	2.926	2.930	-0.004	97	111136	2.00	1.61	
38 Trichlorofluoromethane	101	2.996	2.982	0.014	99	89150	2.00	1.45	
40 Ethyl ether	59	3.222	3.226	-0.004	95	32923	2.00	2.02	
44 Acrolein	56	3.361	3.365	-0.004	98	21672	20.0	19.3	
45 1,1-Dichloroethene	96	3.466	3.470	-0.004	94	58222	2.00	1.90	
46 1,1,2-Trichloro-1,2,2-trif	151	3.483	3.487	-0.004	97	79903	2.00	1.91	
47 Acetone	43	3.501	3.505	-0.004	39	25083	8.00	7.85	
48 Iodomethane	142	3.640	3.644	-0.004	100	131594	2.00	1.91	
50 Carbon disulfide	76	3.709	3.731	-0.022	96	214216	2.00	1.81	
52 3-Chloro-1-propene	41	3.814	3.818	-0.004	85	137857	2.00	1.94	
53 Methyl acetate	43	3.814	3.818	-0.004	78	101327	10.0	9.79	
54 Methylene Chloride	84	3.936	3.957	-0.021	97	62909	2.00	1.95	
55 2-Methyl-2-propanol	59	4.075	4.062	0.013	91	25764	20.0	24.8	
57 Acrylonitrile	53	4.197	4.201	-0.004	97	53920	20.0	20.1	
58 trans-1,2-Dichloroethene	96	4.232	4.236	-0.004	94	67262	2.00	1.95	
56 Methyl tert-butyl ether	73	4.232	4.236	-0.004	91	113032	2.00	1.93	
59 Hexane	57	4.493	4.514	-0.021	94	113407	2.00	1.83	
60 1,1-Dichloroethane	63	4.684	4.688	-0.004	96	136484	2.00	1.87	
61 Vinyl acetate	43	4.719	4.723	-0.004	96	169021	4.00	3.75	
65 cis-1,2-Dichloroethene	96	5.346	5.367	-0.021	88	67321	2.00	1.94	
67 2-Butanone (MEK)	43	5.363	5.367	-0.004	46	37612	8.00	6.38	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.363	5.385	-0.022	92	161477	2.00	1.91	
71 sec-Butyl Alcohol	45	5.572	5.576	-0.004	96	81308	60.0	60.3	
73 Chlorobromomethane	128	5.642	5.663	-0.021	90	30589	2.00	2.00	
74 Tetrahydrofuran	42	5.712	5.716	-0.004	41	16390	4.00	3.86	
75 Chloroform	83	5.729	5.733	-0.004	96	133676	2.00	1.96	
76 1,1,1-Trichloroethane	97	5.973	5.977	-0.004	97	122948	2.00	1.89	
77 Cyclohexane	56	6.042	6.046	-0.004	92	137225	2.00	1.91	
78 1,1-Dichloropropene	75	6.147	6.168	-0.021	92	109356	2.00	1.88	
79 Carbon tetrachloride	117	6.182	6.186	-0.004	97	114248	2.00	1.89	
80 Isobutyl alcohol	41	6.304	6.290	0.014	93	22070	50.0	46.7	
81 Benzene	78	6.408	6.429	-0.021	97	210215	2.00	1.95	
82 1,2-Dichloroethane	62	6.443	6.447	-0.004	96	65169	2.00	2.00	
84 n-Heptane	43	6.721	6.725	-0.004	97	176712	2.00	1.85	
86 Trichloroethene	95	7.226	7.230	-0.004	97	82244	2.00	1.88	
88 2-Pentanone	43	7.470	7.474	-0.004	96	124028	8.00	7.59	
89 Methylcyclohexane	55	7.487	7.491	-0.004	90	121641	2.00	1.90	
90 1,2-Dichloropropane	63	7.522	7.526	-0.004	96	88743	2.00	2.06	
92 Dibromomethane	93	7.696	7.700	-0.004	91	42931	2.00	2.00	
93 1,4-Dioxane	88	7.714	7.718	-0.004	29	3158	40.0	36.4	
94 Dichlorobromomethane	83	7.888	7.892	-0.004	98	126497	2.00	2.02	
96 2-Chloroethyl vinyl ether	63	8.288	8.292	-0.004	85	12060	2.00	1.57	
97 cis-1,3-Dichloropropene	75	8.497	8.501	-0.004	91	107388	2.00	1.97	
98 4-Methyl-2-pentanone (MIBK	43	8.723	8.710	0.013	97	125802	8.00	5.81	
99 Toluene	91	8.967	8.971	-0.004	98	237075	2.00	1.92	
100 trans-1,3-Dichloropropene	75	9.281	9.285	-0.004	97	78291	2.00	1.99	
101 Ethyl methacrylate	69	9.420	9.406	0.014	96	70056	2.00	2.09	
102 1,1,2-Trichloroethane	97	9.559	9.546	0.013	66	51927	2.00	2.10	
103 Tetrachloroethene	164	9.768	9.772	-0.004	96	71310	2.00	1.90	
104 1,3-Dichloropropane	76	9.785	9.789	-0.004	95	87035	2.00	2.05	
105 2-Hexanone	43	9.925	9.929	-0.004	98	85245	8.00	6.00	
108 Chlorodibromomethane	129	10.151	10.155	-0.004	91	82411	2.00	2.00	
109 Ethylene Dibromide	107	10.325	10.329	-0.004	97	58280	2.00	2.00	
110 1-Chlorohexane	91	11.109	11.113	-0.004	89	118927	2.00	1.87	
111 Chlorobenzene	112	11.143	11.147	-0.004	89	161425	2.00	1.95	
112 1,1,1,2-Tetrachloroethane	131	11.283	11.287	-0.004	83	77661	2.00	1.94	
113 Ethylbenzene	106	11.317	11.322	-0.005	99	82557	2.00	1.95	
114 m-Xylene & p-Xylene	106	11.492	11.496	-0.004	97	102405	2.00	1.78	
115 o-Xylene	106	12.066	12.070	-0.004	99	100515	2.00	1.99	
116 Styrene	104	12.083	12.088	-0.005	93	160271	2.00	1.97	
117 Bromoform	173	12.345	12.349	-0.004	93	43536	2.00	1.95	
118 Isopropylbenzene	105	12.554	12.558	-0.004	97	305501	2.00	1.94	
120 Cyclohexanone	55	12.693	12.697	-0.004	96	29957	80.0	60.0	
122 Bromobenzene	156	12.937	12.941	-0.004	91	73134	2.00	2.01	
121 1,1,2,2-Tetrachloroethane	83	12.954	12.958	-0.004	91	68821	2.00	2.10	
123 1,2,3-Trichloropropane	110	13.006	12.993	0.013	78	16148	2.00	2.11	
124 trans-1,4-Dichloro-2-buten	53	13.006	13.028	-0.022	67	18311	2.00	2.13	
125 N-Propylbenzene	120	13.076	13.080	-0.004	99	76813	2.00	1.99	
126 2-Chlorotoluene	126	13.180	13.184	-0.004	96	60448	2.00	2.02	
127 1,3,5-Trimethylbenzene	105	13.302	13.289	0.013	94	234990	2.00	1.97	
128 4-Chlorotoluene	126	13.320	13.306	0.014	97	78238	2.00	2.03	
129 tert-Butylbenzene	119	13.668	13.672	-0.004	95	250654	2.00	1.94	
130 1,2,4-Trimethylbenzene	105	13.720	13.724	-0.004	95	221512	2.00	1.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.911	13.916	-0.005	95	69410	2.00	2.03	
132 1,3-Dichlorobenzene	146	14.033	14.037	-0.004	94	108495	2.00	1.97	
133 4-Isopropyltoluene	119	14.086	14.072	0.014	98	292735	2.00	2.00	
134 1,4-Dichlorobenzene	146	14.138	14.142	-0.004	90	173354	2.00	2.03	
137 n-Butylbenzene	91	14.503	14.507	-0.004	99	295629	2.00	1.92	
138 1,2-Dichlorobenzene	146	14.538	14.542	-0.004	95	117567	2.00	2.03	
139 1,2-Dibromo-3-Chloropropan	157	15.322	15.326	-0.004	82	11040	2.00	2.04	
144 1,2,3-Trichlorobenzene	180	16.523	16.074	0.449	89	56420	2.00	1.56	a
142 Hexachlorobutadiene	225	16.227	16.231	-0.004	96	81678	2.00	2.01	
143 Naphthalene	128	16.297	16.301	-0.004	97	88140	2.00	1.99	
141 1,2,4-Trichlorobenzene	180	16.070	16.527	-0.457	90	79388	2.00	2.34	a
S 151 1,2-Dichloroethene, Total	96				0		4.00	3.89	
S 145 Trihalomethanes, Total	1				0		8.00	7.94	
S 146 Xylenes, Total (URS)	1				0		4.00	3.77	
S 147 Total BTEX	1				0			9.60	
S 148 1,3-Dichloropropene, Total	1				0		4.00	3.96	
S 149 1,2-Dichloroethene, Total	1				0		4.00	3.89	
S 150 Xylenes, Total	106				0		4.00	3.77	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

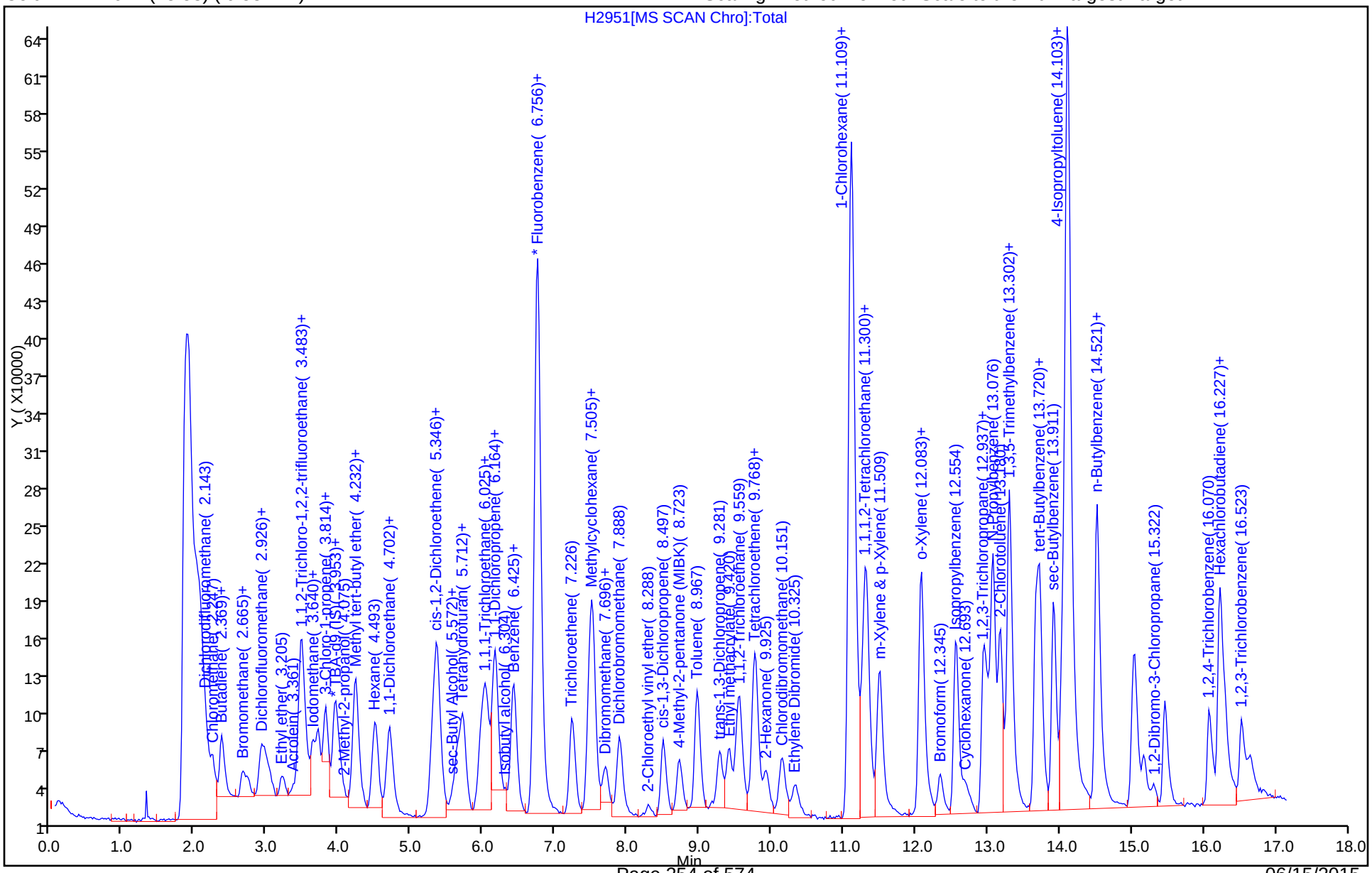
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Main A_00022	Amount Added:	1.00	Units: uL
MV-Gas/Ket A_00033	Amount Added:	1.00	Units: uL
MV-2cleve+AVA_00009	Amount Added:	1.00	Units: uL

Report Date: 02-Jun-2015 08:04:02 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2951.D				
Injection Date:	28-May-2015 01:03:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

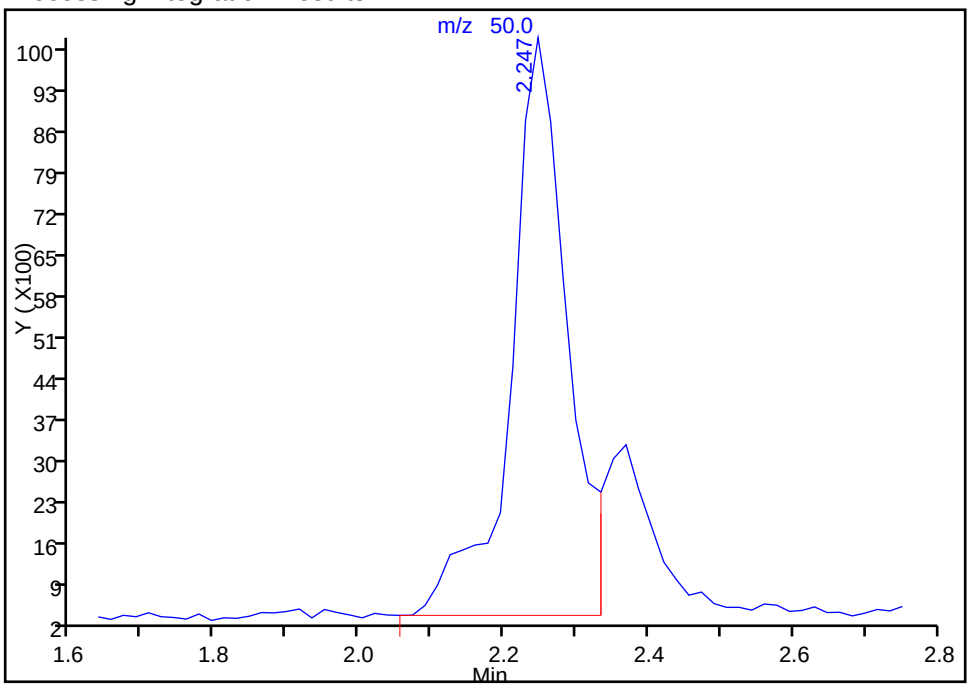
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2951.D				
Injection Date:	28-May-2015 01:03:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

30 Chloromethane, CAS: 74-87-3

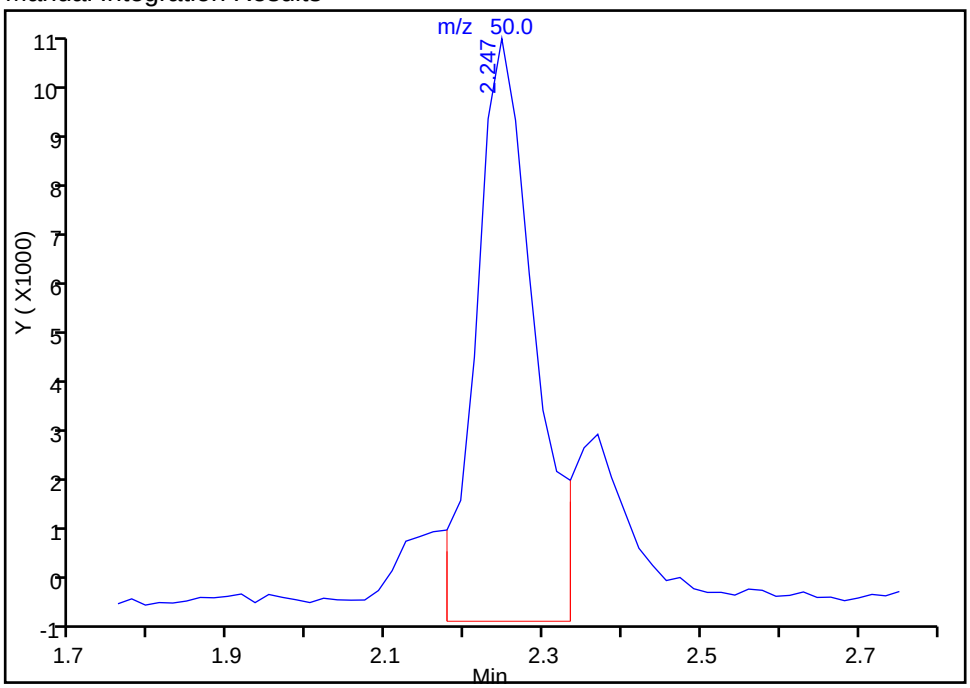
Processing Integration Results

RT: 2.25
Area: 53646
Amount: 1.676096
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 53286
Amount: 1.666187
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:22:57
Audit Action: Assigned New Baseline
Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

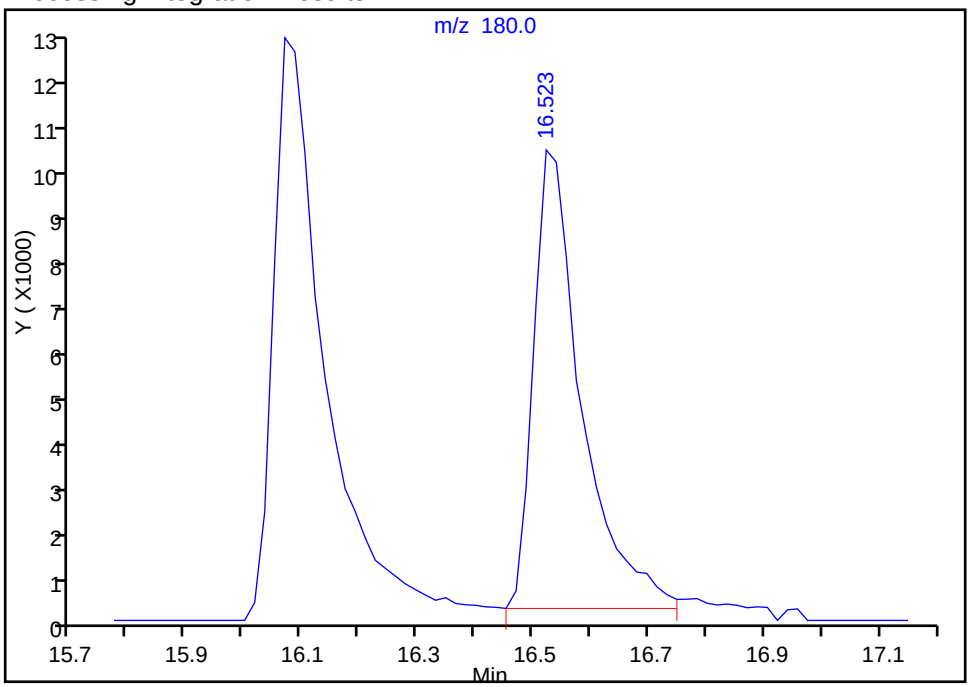
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2951.D				
Injection Date:	28-May-2015 01:03:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

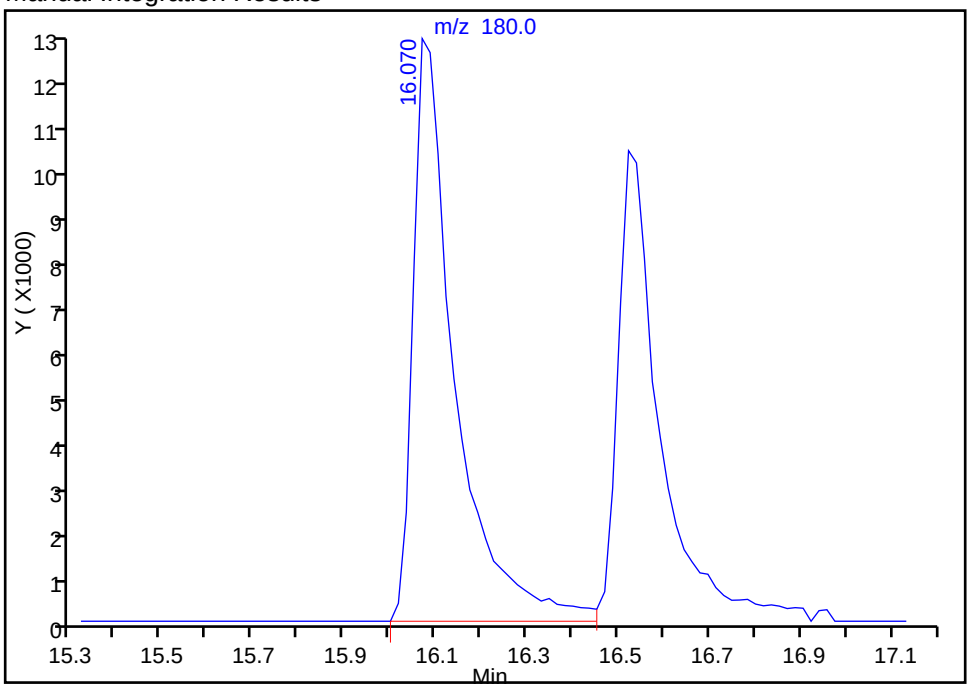
Processing Integration Results

RT: 16.52
Area: 56420
Amount: 1.745219
Amount Units: ug/l



Manual Integration Results

RT: 16.07
Area: 79388
Amount: 2.337079
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:02
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

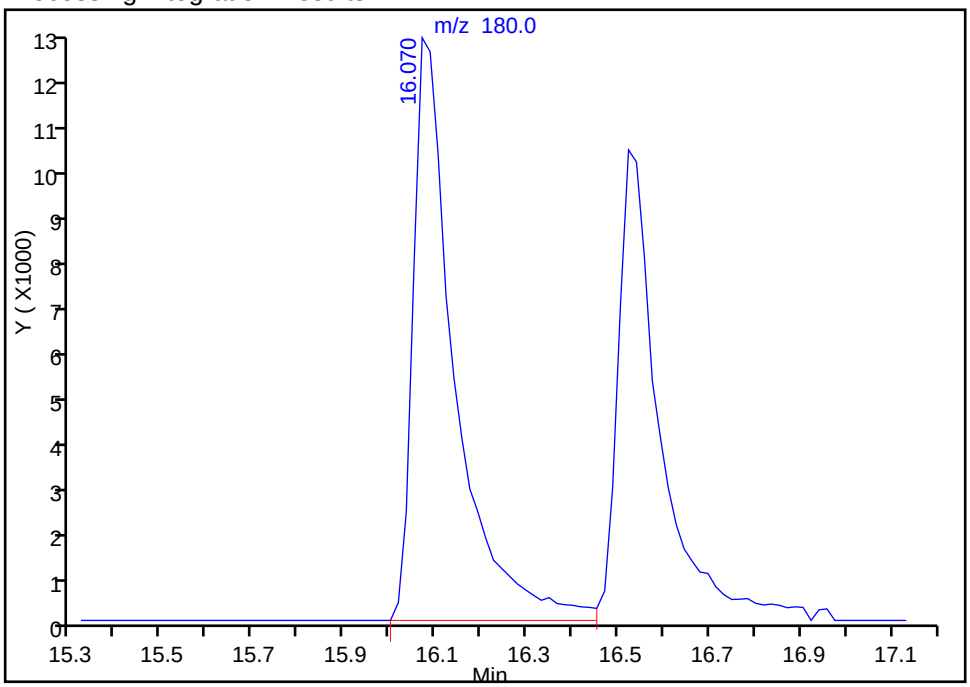
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2951.D				
Injection Date:	28-May-2015 01:03:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

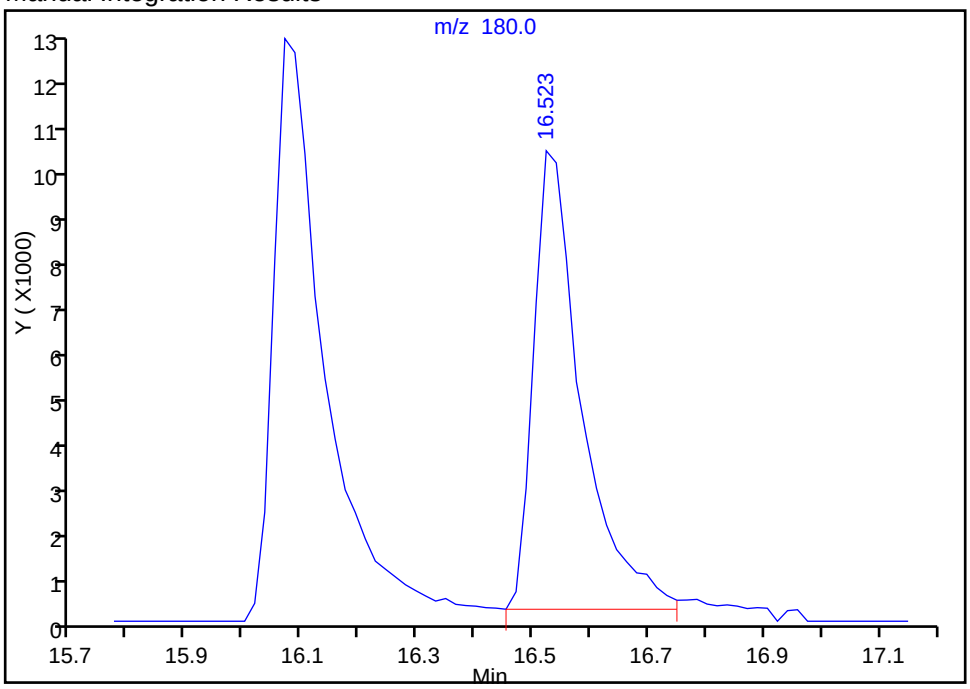
Processing Integration Results

RT: 16.07
Area: 79388
Amount: 2.133564
Amount Units: ug/l



Manual Integration Results

RT: 16.52
Area: 56420
Amount: 1.559763
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:02
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2952.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-May-2015 01:25:30 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:04:17 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: wickhamt Date: 28-May-2015 06:24:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.987	3.974	0.013	96	195219	250.0	250.0	
* 2 Fluorobenzene	96	6.755	6.759	-0.004	95	1029988	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.108	11.094	0.014	93	227484	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.106	0.014	97	377031	12.5	12.5	
28 Dichlorodifluoromethane	85	2.159	2.164	-0.005	98	247178	5.00	5.03	
30 Chloromethane	50	2.264	2.269	-0.005	100	162089	5.00	5.05	
31 Butadiene	54	2.368	2.373	-0.005	0	127553	NC	NC	
32 Vinyl chloride	62	2.386	2.390	-0.004	97	159681	5.00	5.09	
35 Bromomethane	94	2.682	2.669	0.013	91	132730	5.00	5.10	
36 Chloroethane	64	2.751	2.756	-0.005	99	103163	5.00	5.41	
37 Dichlorofluoromethane	67	2.925	2.930	-0.005	99	365019	5.00	5.28	
38 Trichlorofluoromethane	101	2.978	2.982	-0.004	99	321455	5.00	5.20	
40 Ethyl ether	59	3.221	3.226	-0.005	94	84807	5.00	5.19	
44 Acrolein	56	3.361	3.365	-0.004	99	59073	50.0	52.5	
45 1,1-Dichloroethene	96	3.465	3.470	-0.005	94	159253	5.00	5.18	
46 1,1,2-Trichloro-1,2,2-trif	151	3.500	3.487	0.013	97	219337	5.00	5.23	
47 Acetone	43	3.517	3.505	0.012	41	62422	20.0	19.5	
48 Iodomethane	142	3.639	3.644	-0.005	99	351110	5.00	5.07	
50 Carbon disulfide	76	3.726	3.731	-0.005	99	599818	5.00	5.06	
52 3-Chloro-1-propene	41	3.813	3.818	-0.005	92	363829	5.00	5.10	
53 Methyl acetate	43	3.831	3.818	0.013	98	259179	25.0	25.0	
54 Methylene Chloride	84	3.952	3.957	-0.005	98	146368	5.00	5.15	
55 2-Methyl-2-propanol	59	4.074	4.062	0.012	96	50634	50.0	51.2	
57 Acrylonitrile	53	4.214	4.201	0.013	99	132956	50.0	49.5	
58 trans-1,2-Dichloroethene	96	4.231	4.236	-0.005	94	179063	5.00	5.17	
56 Methyl tert-butyl ether	73	4.231	4.236	-0.005	86	296103	5.00	5.05	
59 Hexane	57	4.510	4.514	-0.004	95	314081	5.00	5.15	
60 1,1-Dichloroethane	63	4.684	4.688	-0.004	96	364528	5.00	4.99	
61 Vinyl acetate	43	4.718	4.723	-0.005	96	489475	10.0	10.8	
65 cis-1,2-Dichloroethene	96	5.363	5.367	-0.004	88	175089	5.00	5.02	
67 2-Butanone (MEK)	43	5.363	5.367	-0.004	50	115653	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.380	5.385	-0.005	90	357591	5.00	5.16	
71 sec-Butyl Alcohol	45	5.589	5.576	0.013	97	188288	150.0	134.7	
73 Chlorobromomethane	128	5.659	5.663	-0.004	89	77430	5.00	5.06	
74 Tetrahydrofuran	42	5.711	5.716	-0.005	40	41570	10.0	9.77	
75 Chloroform	83	5.728	5.733	-0.005	96	348497	5.00	5.11	
76 1,1,1-Trichloroethane	97	5.972	5.977	-0.005	97	334275	5.00	5.13	
77 Cyclohexane	56	6.042	6.046	-0.004	97	370277	5.00	5.15	
78 1,1-Dichloropropene	75	6.163	6.168	-0.005	91	295185	5.00	5.05	
79 Carbon tetrachloride	117	6.181	6.186	-0.005	97	312599	5.00	5.16	
80 Isobutyl alcohol	41	6.285	6.290	-0.005	94	58888	125.0	120.3	
81 Benzene	78	6.425	6.429	-0.004	97	549811	5.00	5.10	
82 1,2-Dichloroethane	62	6.442	6.447	-0.005	96	165237	5.00	5.07	
84 n-Heptane	43	6.721	6.725	-0.004	97	498964	5.00	5.22	
86 Trichloroethene	95	7.225	7.230	-0.005	97	227548	5.00	5.19	
88 2-Pentanone	43	7.469	7.474	-0.005	95	317235	20.0	19.4	
89 Methylcyclohexane	55	7.504	7.491	0.013	89	331927	5.00	5.18	
90 1,2-Dichloropropane	63	7.539	7.526	0.013	96	215066	5.00	4.99	
92 Dibromomethane	93	7.696	7.700	-0.004	91	107201	5.00	4.99	
93 1,4-Dioxane	88	7.748	7.718	0.030	30	11405	100.0	100.1	
94 Dichlorobromomethane	83	7.887	7.892	-0.005	98	314609	5.00	5.02	
96 2-Chloroethyl vinyl ether	63	8.287	8.292	-0.005	89	37567	5.00	4.88	
97 cis-1,3-Dichloropropene	75	8.496	8.501	-0.005	91	276201	5.00	5.15	
98 4-Methyl-2-pentanone (MIBK	43	8.723	8.710	0.013	97	425851	20.0	19.5	
99 Toluene	91	8.966	8.971	-0.005	97	621009	5.00	5.02	
100 trans-1,3-Dichloropropene	75	9.280	9.285	-0.005	98	203021	5.00	5.14	
101 Ethyl methacrylate	69	9.419	9.406	0.013	95	165619	5.00	5.03	
102 1,1,2-Trichloroethane	97	9.541	9.546	-0.005	94	124206	5.00	5.01	
103 Tetrachloroethene	164	9.767	9.772	-0.005	96	191028	5.00	5.16	
104 1,3-Dichloropropane	76	9.785	9.789	-0.004	94	205450	5.00	4.93	
105 2-Hexanone	43	9.924	9.929	-0.005	98	277410	20.0	18.7	
108 Chlorodibromomethane	129	10.150	10.155	-0.005	90	197422	5.00	4.86	
109 Ethylene Dibromide	107	10.324	10.329	-0.005	99	143966	5.00	5.03	
110 1-Chlorohexane	91	11.108	11.113	-0.005	91	315700	5.00	5.05	
111 Chlorobenzene	112	11.143	11.147	-0.004	90	413665	5.00	5.07	
112 1,1,1,2-Tetrachloroethane	131	11.282	11.287	-0.005	93	201252	5.00	5.11	
113 Ethylbenzene	106	11.317	11.322	-0.005	99	213988	5.00	5.14	
114 m-Xylene & p-Xylene	106	11.508	11.496	0.012	98	290550	5.00	5.14	
115 o-Xylene	106	12.065	12.070	-0.005	99	253986	5.00	5.12	
116 Styrene	104	12.083	12.088	-0.005	93	413563	5.00	5.16	
117 Bromoform	173	12.344	12.349	-0.005	93	112580	5.00	5.14	
118 Isopropylbenzene	105	12.570	12.558	0.012	97	812395	5.00	5.03	
120 Cyclohexanone	55	12.692	12.697	-0.005	95	94188	200.0	188.0	
122 Bromobenzene	156	12.953	12.941	0.012	94	189284	5.00	5.08	
121 1,1,2,2-Tetrachloroethane	83	12.953	12.958	-0.005	94	162847	5.00	4.84	
123 1,2,3-Trichloropropane	110	13.005	12.993	0.012	79	37836	5.00	4.81	
124 trans-1,4-Dichloro-2-buten	53	13.023	13.028	-0.005	70	44139	5.00	5.00	
125 N-Propylbenzene	120	13.075	13.080	-0.005	99	201896	5.00	5.11	
126 2-Chlorotoluene	126	13.180	13.184	-0.004	96	150706	5.00	4.92	
127 1,3,5-Trimethylbenzene	105	13.301	13.289	0.012	94	610567	5.00	5.00	
128 4-Chlorotoluene	126	13.319	13.306	0.013	98	193360	5.00	4.88	
129 tert-Butylbenzene	119	13.667	13.672	-0.005	95	664399	5.00	5.01	
130 1,2,4-Trimethylbenzene	105	13.719	13.724	-0.005	96	580572	5.00	5.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.928	13.916	0.012	95	177196	5.00	5.06	
132 1,3-Dichlorobenzene	146	14.050	14.037	0.013	97	276824	5.00	4.89	
133 4-Isopropyltoluene	119	14.085	14.072	0.013	98	767309	5.00	5.10	
134 1,4-Dichlorobenzene	146	14.137	14.142	-0.005	93	443692	5.00	5.08	
137 n-Butylbenzene	91	14.503	14.507	-0.004	99	798058	5.00	5.05	
138 1,2-Dichlorobenzene	146	14.537	14.542	-0.005	96	298057	5.00	5.02	
139 1,2-Dibromo-3-Chloropropan	157	15.304	15.326	-0.022	79	27832	5.00	5.02	
144 1,2,3-Trichlorobenzene	180	16.540	16.074	0.466	94	158675	5.00	4.07	a
142 Hexachlorobutadiene	225	16.226	16.231	-0.005	96	209088	5.00	5.03	
143 Naphthalene	128	16.296	16.301	-0.005	98	221754	5.00	4.88	
141 1,2,4-Trichlorobenzene	180	16.087	16.527	-0.440	94	201768	5.00	5.59	a
S 151 1,2-Dichloroethene, Total	96				0		10.0	10.2	
S 145 Trihalomethanes, Total	1				0		20.0	20.1	
S 146 Xylenes, Total (URS)	1				0		10.0	10.3	
S 147 Total BTEX	1				0			25.5	
S 148 1,3-Dichloropropene, Total	1				0		10.0	10.3	
S 149 1,2-Dichloroethene, Total	1				0		10.0	10.2	
S 150 Xylenes, Total	106				0		10.0	10.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

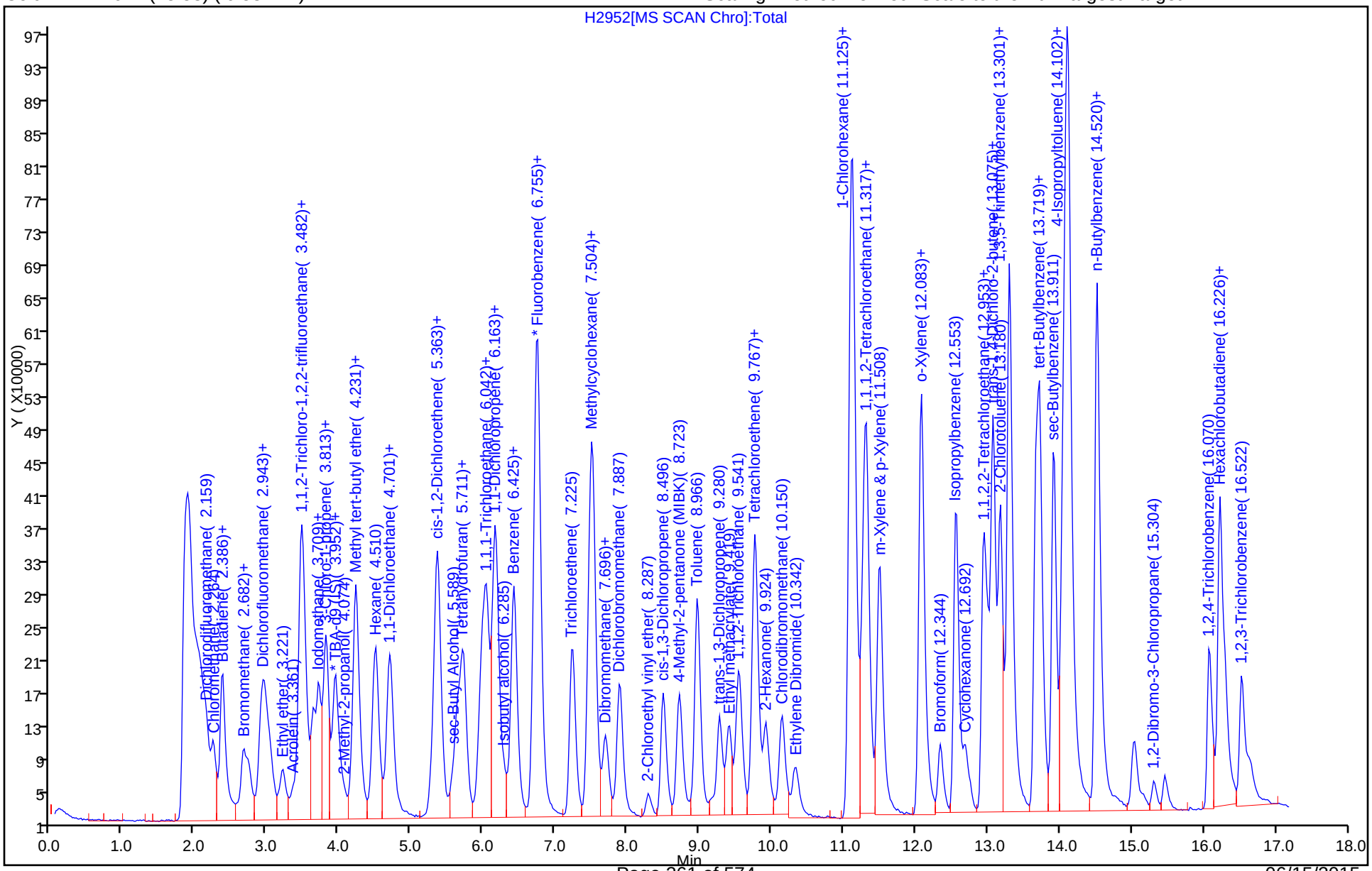
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Main A_00022	Amount Added:	2.50	Units: uL
MV-Gas/Ket A_00033	Amount Added:	2.50	Units: uL
MV-2cleve+AVA_00009	Amount Added:	2.50	Units: uL

Report Date: 02-Jun-2015 08:04:17 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2952.D				
Injection Date:	28-May-2015 01:25:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	12
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

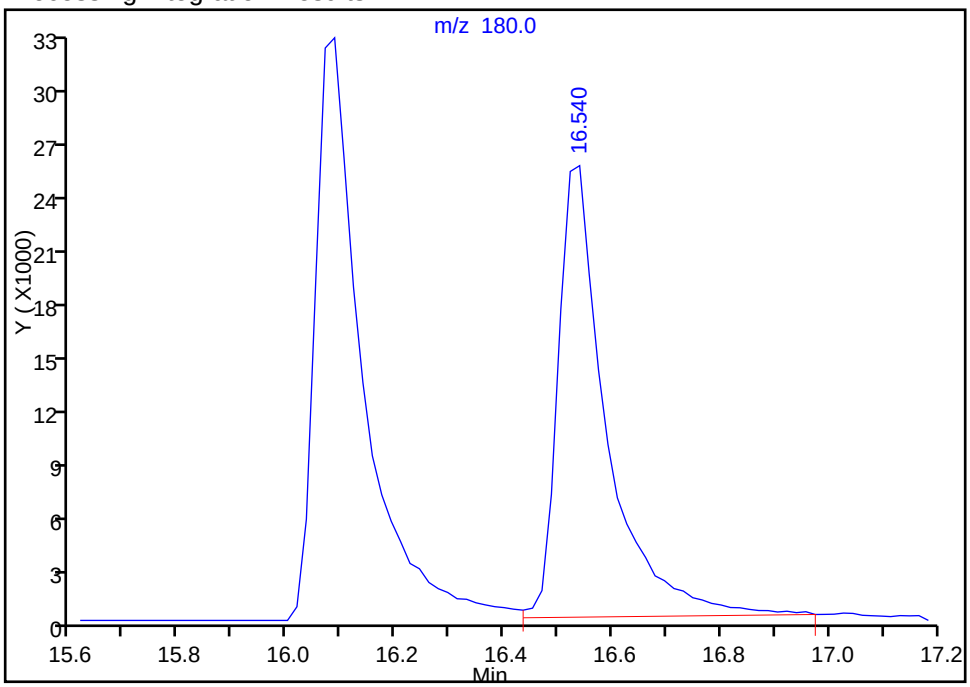
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2952.D				
Injection Date:	28-May-2015 01:25:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

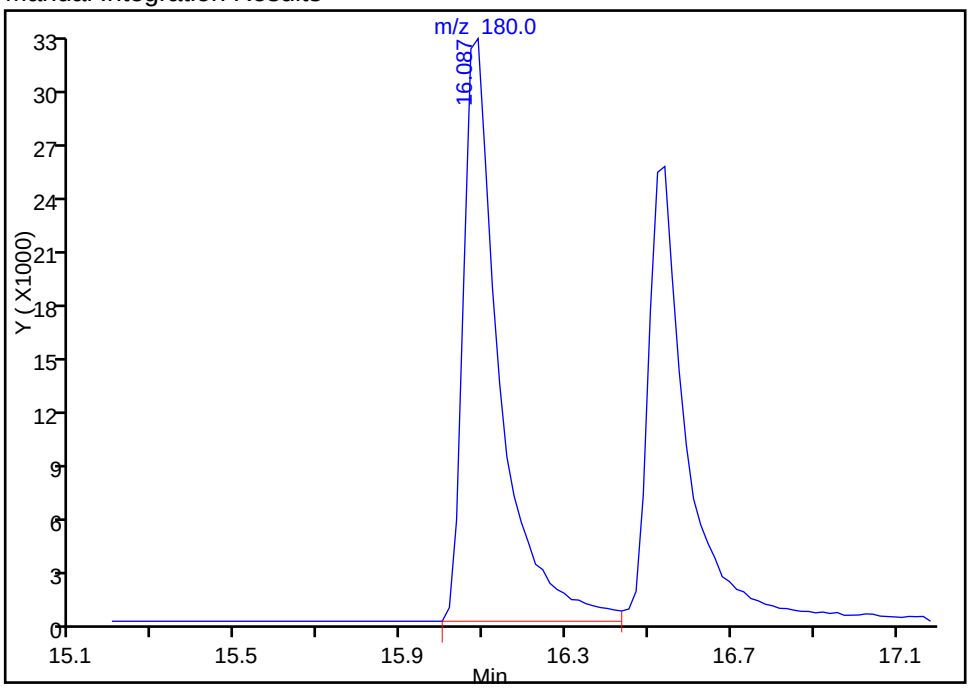
Processing Integration Results

RT: 16.54
Area: 158675
Amount: 4.554130
Amount Units: ug/l



Manual Integration Results

RT: 16.09
Area: 201768
Amount: 5.593289
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:17
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

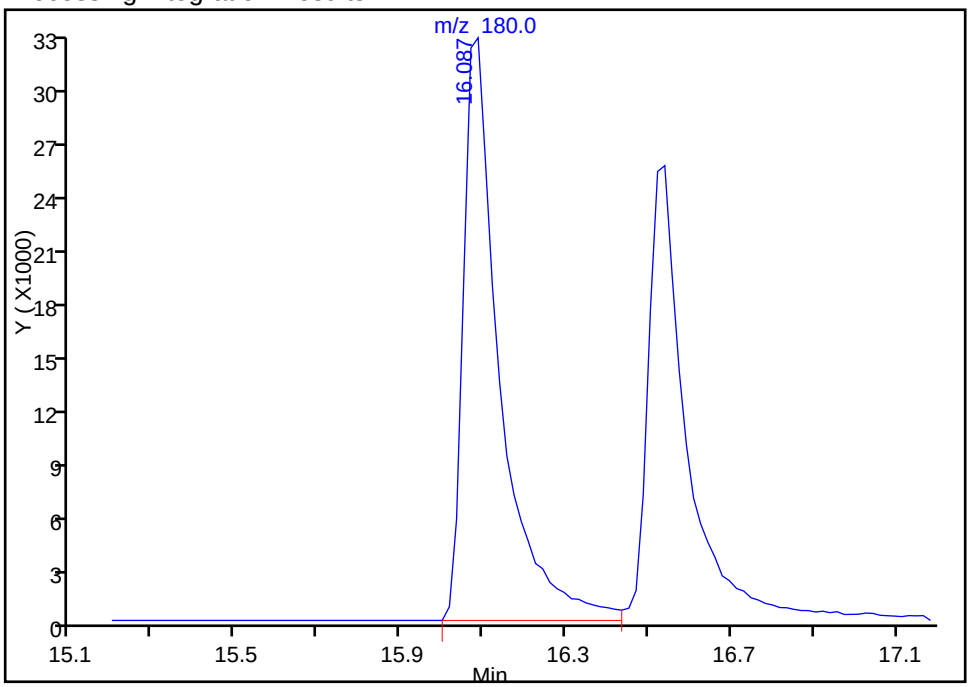
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2952.D				
Injection Date:	28-May-2015 01:25:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

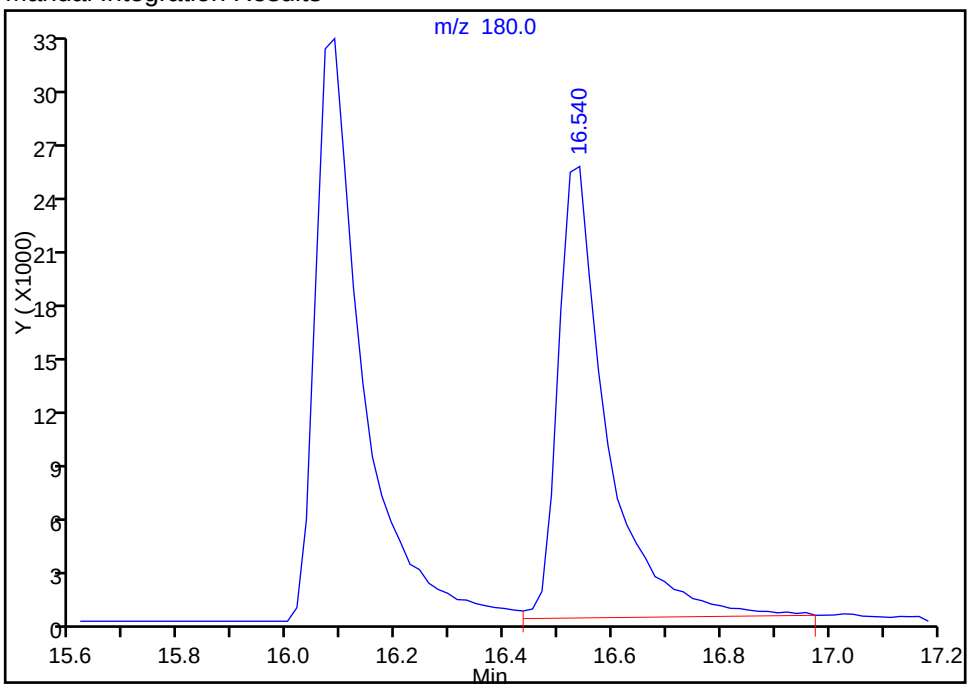
Processing Integration Results

RT: 16.09
Area: 201768
Amount: 5.061159
Amount Units: ug/l



Manual Integration Results

RT: 16.54
Area: 158675
Amount: 4.074146
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:17
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2953.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-May-2015 01:48:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:04:33 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: wickhamt Date: 28-May-2015 06:16:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.975	3.975	0.000	97	213064	250.0	250.0	
* 2 Fluorobenzene	96	6.760	6.760	0.000	97	1060270	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.113	11.113	0.000	93	230984	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.107	14.107	0.000	97	388500	12.5	12.5	
28 Dichlorodifluoromethane	85	2.164	2.164	0.000	98	490322	10.0	9.60	
30 Chloromethane	50	2.269	2.269	0.000	98	338017	10.0	10.2	
31 Butadiene	54	2.373	2.373	0.000	0	261973	NC	NC	
32 Vinyl chloride	62	2.390	2.390	0.000	98	329568	10.0	10.2	
35 Bromomethane	94	2.669	2.669	0.000	91	285208	10.0	10.6	
36 Chloroethane	64	2.756	2.756	0.000	100	210596	10.0	10.7	
37 Dichlorofluoromethane	67	2.930	2.930	0.000	99	766394	10.0	10.8	
38 Trichlorofluoromethane	101	2.982	2.982	0.000	99	675996	10.0	10.6	
40 Ethyl ether	59	3.226	3.226	0.000	93	171739	10.0	10.2	
44 Acrolein	56	3.365	3.365	0.000	98	113181	100.0	97.6	
45 1,1-Dichloroethene	96	3.470	3.470	0.000	94	321941	10.0	10.2	
46 1,1,2-Trichloro-1,2,2-trif	151	3.487	3.487	0.000	98	443684	10.0	10.3	
47 Acetone	43	3.505	3.505	0.000	97	132884	40.0	40.3	
48 Iodomethane	142	3.644	3.644	0.000	99	723408	10.0	10.2	
50 Carbon disulfide	76	3.731	3.731	0.000	100	1216758	10.0	9.97	
52 3-Chloro-1-propene	41	3.818	3.818	0.000	91	733581	10.0	9.98	
53 Methyl acetate	43	3.818	3.818	0.000	97	568374	50.0	53.2	
54 Methylene Chloride	84	3.957	3.957	0.000	98	289949	10.0	10.3	
55 2-Methyl-2-propanol	59	4.062	4.062	0.000	95	103361	100.0	99.7	
57 Acrylonitrile	53	4.201	4.201	0.000	97	286517	100.0	103.7	
58 trans-1,2-Dichloroethene	96	4.236	4.236	0.000	95	351195	10.0	9.86	
56 Methyl tert-butyl ether	73	4.236	4.236	0.000	96	620688	10.0	10.3	
59 Hexane	57	4.514	4.514	0.000	95	656745	10.0	10.6	
60 1,1-Dichloroethane	63	4.688	4.688	0.000	96	742521	10.0	9.87	
61 Vinyl acetate	43	4.723	4.723	0.000	96	959261	20.0	20.6	
65 cis-1,2-Dichloroethene	96	5.367	5.367	0.000	88	367183	10.0	10.2	
67 2-Butanone (MEK)	43	5.367	5.367	0.000	96	271060	40.0	44.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.385	5.385	0.000	91	676578	10.0	10.1	
71 sec-Butyl Alcohol	45	5.576	5.576	0.000	96	424147	300.0	278.0	
73 Chlorobromomethane	128	5.663	5.663	0.000	89	163111	10.0	10.4	
74 Tetrahydrofuran	42	5.716	5.716	0.000	94	91342	20.0	20.9	
75 Chloroform	83	5.733	5.733	0.000	96	703605	10.0	10.0	
76 1,1,1-Trichloroethane	97	5.977	5.977	0.000	96	682150	10.0	10.2	
77 Cyclohexane	56	6.046	6.046	0.000	97	759284	10.0	10.3	
78 1,1-Dichloropropene	75	6.168	6.168	0.000	92	587910	10.0	9.78	
79 Carbon tetrachloride	117	6.186	6.186	0.000	98	634790	10.0	10.2	
80 Isobutyl alcohol	41	6.290	6.290	0.000	91	133112	250.0	249.1	
81 Benzene	78	6.429	6.429	0.000	98	1127346	10.0	10.1	
82 1,2-Dichloroethane	62	6.447	6.447	0.000	96	340868	10.0	10.2	
84 n-Heptane	43	6.725	6.725	0.000	97	1009732	10.0	10.3	
86 Trichloroethene	95	7.230	7.230	0.000	97	465659	10.0	10.3	
88 2-Pentanone	43	7.474	7.474	0.000	96	715858	40.0	42.4	
89 Methylcyclohexane	55	7.491	7.491	0.000	90	687055	10.0	10.4	
90 1,2-Dichloropropane	63	7.526	7.526	0.000	87	443299	10.0	10.0	
92 Dibromomethane	93	7.700	7.700	0.000	92	221961	10.0	10.0	
93 1,4-Dioxane	88	7.718	7.718	0.000	30	24744	200.0	197.9	
94 Dichlorobromomethane	83	7.892	7.892	0.000	98	672865	10.0	10.4	
96 2-Chloroethyl vinyl ether	63	8.292	8.292	0.000	88	74647	10.0	9.41	
97 cis-1,3-Dichloropropene	75	8.501	8.501	0.000	91	571072	10.0	10.5	
98 4-Methyl-2-pentanone (MIBK	43	8.710	8.710	0.000	97	1002764	40.0	44.5	
99 Toluene	91	8.971	8.971	0.000	97	1267160	10.0	9.95	
100 trans-1,3-Dichloropropene	75	9.285	9.285	0.000	99	414785	10.0	10.2	
101 Ethyl methacrylate	69	9.406	9.406	0.000	96	351571	10.0	10.5	
102 1,1,2-Trichloroethane	97	9.546	9.546	0.000	93	248293	10.0	9.73	
103 Tetrachloroethene	164	9.772	9.772	0.000	95	395487	10.0	10.5	
104 1,3-Dichloropropane	76	9.789	9.789	0.000	95	440887	10.0	10.4	
105 2-Hexanone	43	9.929	9.929	0.000	98	653257	40.0	42.6	
108 Chlorodibromomethane	129	10.155	10.155	0.000	90	424072	10.0	10.3	
109 Ethylene Dibromide	107	10.329	10.329	0.000	98	309647	10.0	10.7	
110 1-Chlorohexane	91	11.113	11.113	0.000	92	633113	10.0	9.97	
111 Chlorobenzene	112	11.147	11.147	0.000	87	859727	10.0	10.4	
112 1,1,1,2-Tetrachloroethane	131	11.287	11.287	0.000	94	419142	10.0	10.5	
113 Ethylbenzene	106	11.322	11.322	0.000	99	449228	10.0	10.6	
114 m-Xylene & p-Xylene	106	11.496	11.496	0.000	97	601905	10.0	10.5	
115 o-Xylene	106	12.070	12.070	0.000	99	528399	10.0	10.5	
116 Styrene	104	12.088	12.088	0.000	93	858871	10.0	10.5	
117 Bromoform	173	12.349	12.349	0.000	94	243755	10.0	11.0	
118 Isopropylbenzene	105	12.558	12.558	0.000	97	1680664	10.0	10.1	
120 Cyclohexanone	55	12.697	12.697	0.000	98	223269	400.0	436.6	
122 Bromobenzene	156	12.941	12.941	0.000	94	397495	10.0	10.4	
121 1,1,2,2-Tetrachloroethane	83	12.958	12.958	0.000	93	350506	10.0	10.1	
123 1,2,3-Trichloropropane	110	12.993	12.993	0.000	82	79592	10.0	9.82	
124 trans-1,4-Dichloro-2-buten	53	13.028	13.028	0.000	68	86189	10.0	9.48	
125 N-Propylbenzene	120	13.080	13.080	0.000	99	412525	10.0	10.1	
126 2-Chlorotoluene	126	13.184	13.184	0.000	96	320058	10.0	10.1	
127 1,3,5-Trimethylbenzene	105	13.289	13.289	0.000	94	1267667	10.0	10.1	
128 4-Chlorotoluene	126	13.306	13.306	0.000	98	412960	10.0	10.1	
129 tert-Butylbenzene	119	13.672	13.672	0.000	94	1369653	10.0	10.0	
130 1,2,4-Trimethylbenzene	105	13.724	13.724	0.000	97	1206077	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.916	13.916	0.000	95	365299	10.0	10.1	
132 1,3-Dichlorobenzene	146	14.037	14.037	0.000	96	591386	10.0	10.1	
133 4-Isopropyltoluene	119	14.072	14.072	0.000	98	1595405	10.0	10.3	
134 1,4-Dichlorobenzene	146	14.142	14.142	0.000	93	897375	10.0	9.96	
137 n-Butylbenzene	91	14.507	14.507	0.000	99	1632647	10.0	10.0	
138 1,2-Dichlorobenzene	146	14.542	14.542	0.000	96	626018	10.0	10.2	
139 1,2-Dibromo-3-Chloropropan	157	15.326	15.326	0.000	77	61145	10.0	10.7	
144 1,2,3-Trichlorobenzene	180	16.527	16.527	0.000	93	333902	10.0	9.55	a
142 Hexachlorobutadiene	225	16.231	16.231	0.000	97	438309	10.0	10.2	
143 Naphthalene	128	16.301	16.301	0.000	98	486464	10.0	10.4	
141 1,2,4-Trichlorobenzene	180	16.074	16.074	0.000	94	429478	10.0	11.1	a
S 151 1,2-Dichloroethene, Total	96				0		20.0	20.1	
S 145 Trihalomethanes, Total	1				0		40.0	41.7	
S 146 Xylenes, Total (URS)	1				0		20.0	21.0	
S 148 1,3-Dichloropropene, Total	1				0		20.0	20.7	
S 149 1,2-Dichloroethene, Total	1				0		20.0	20.1	
S 150 Xylenes, Total	106				0		20.0	21.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Main A_00022	Amount Added:	5.00	Units: uL
MV-Gas/Ket A_00033	Amount Added:	5.00	Units: uL
MV-2cleve+AVA_00009	Amount Added:	5.00	Units: uL

Report Date: 02-Jun-2015 08:04:34 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2953.D

Injection Date: 28-May-2015 01:48:30 Instrument ID: VMS_H Operator ID: BERGERB

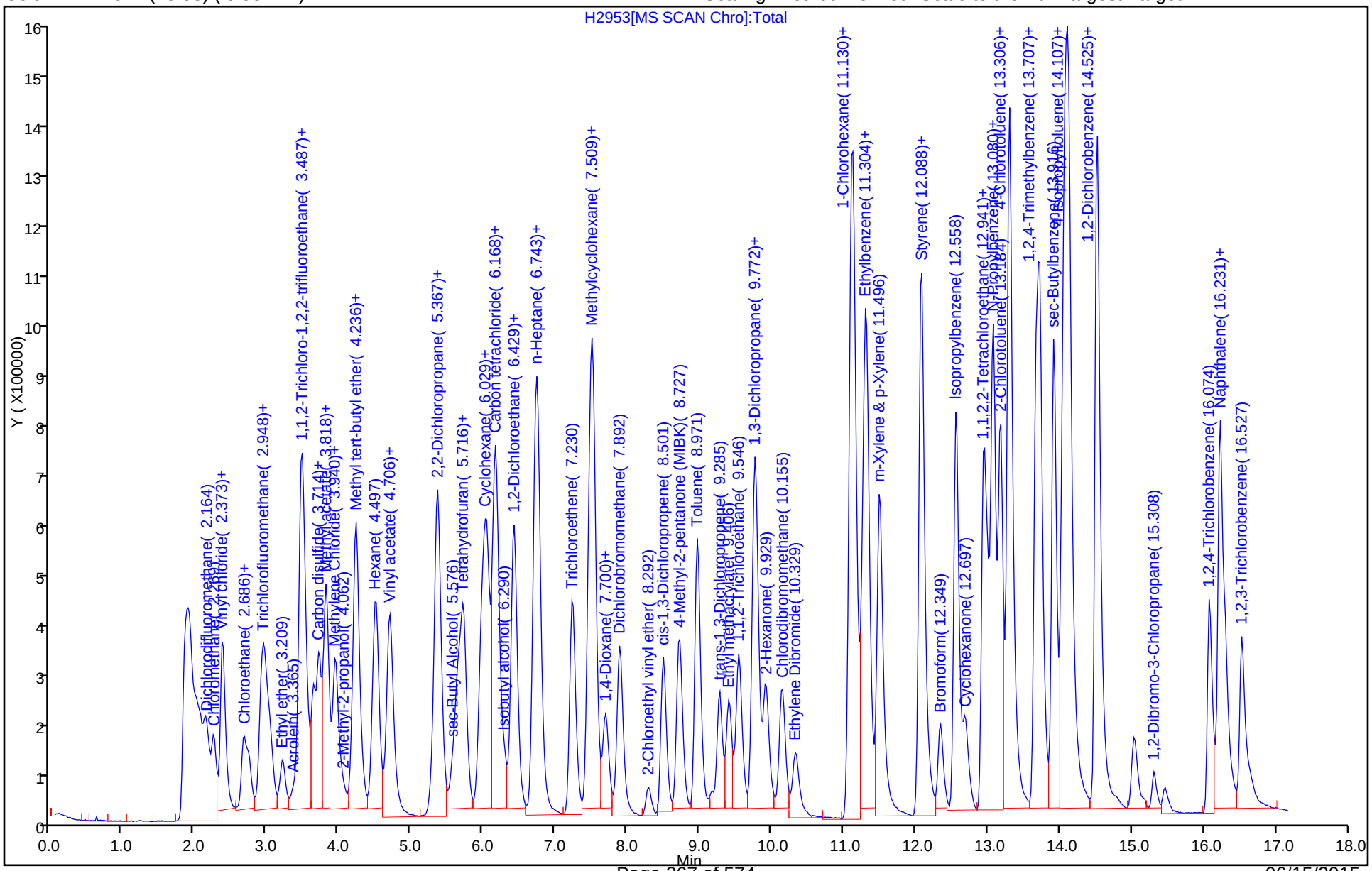
Lims ID: ic Worklist Smp#: 13

Client ID:

Purge Vol: 20.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: AQ_VMSH_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

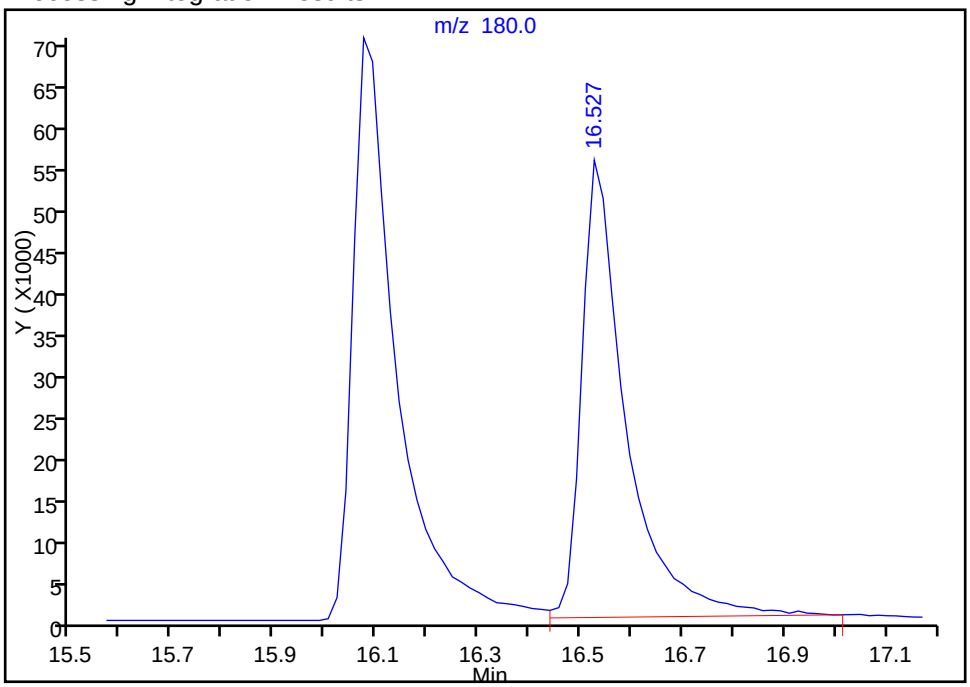
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2953.D				
Injection Date:	28-May-2015 01:48:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

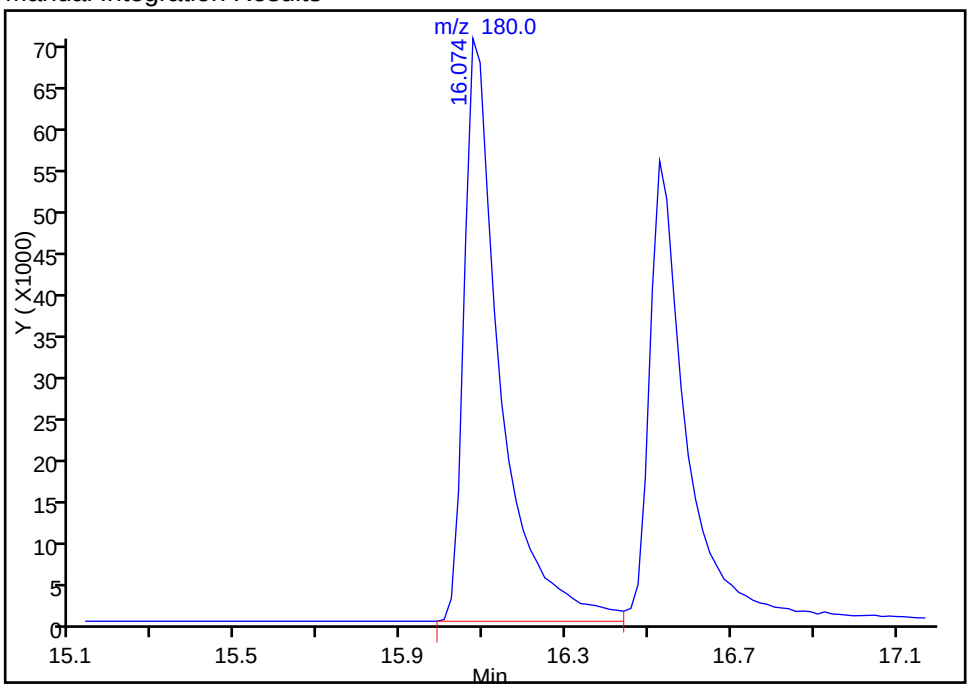
Processing Integration Results

RT: 16.53
Area: 333902
Amount: 8.982972
Amount Units: ug/l



Manual Integration Results

RT: 16.07
Area: 429478
Amount: 11.144875
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:33
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

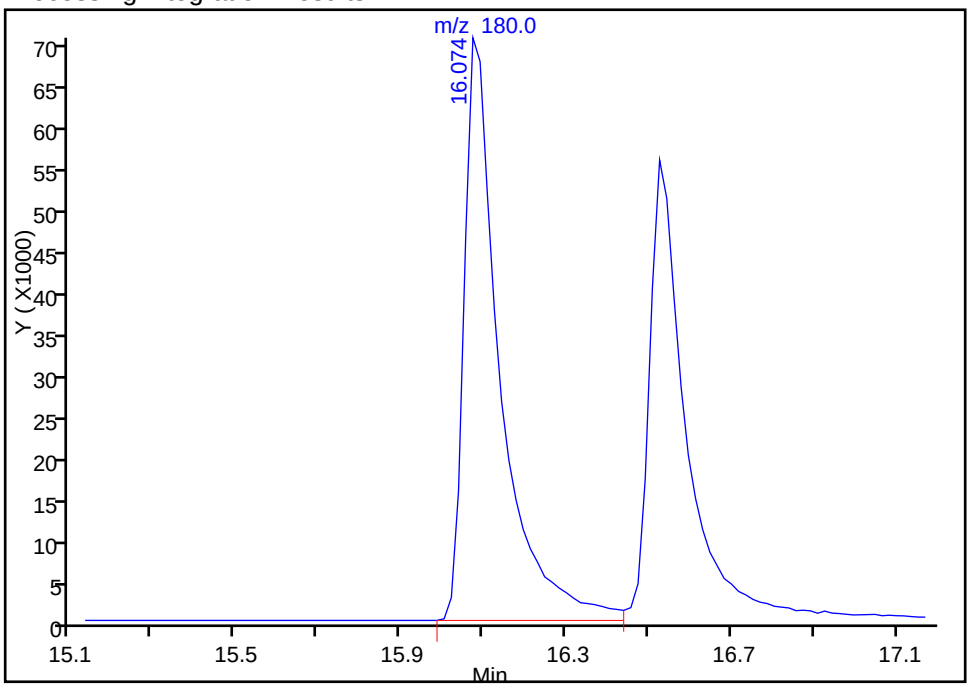
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2953.D				
Injection Date:	28-May-2015 01:48:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

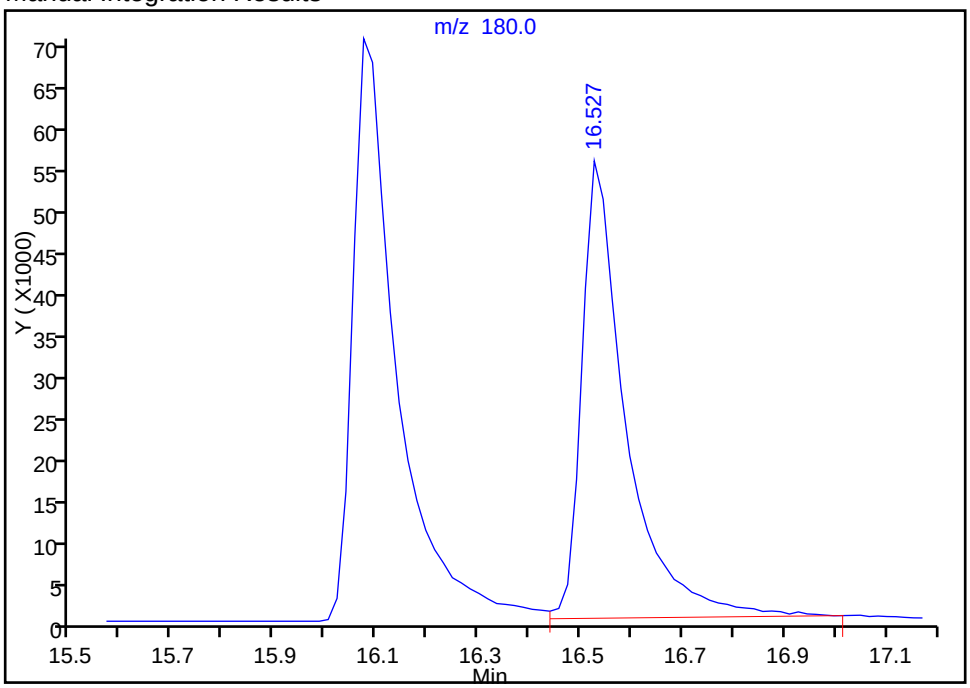
Processing Integration Results

RT: 16.07
Area: 429478
Amount: 10.403969
Amount Units: ug/l



Manual Integration Results

RT: 16.53
Area: 333902
Amount: 9.551391
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:33
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2954.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-May-2015 02:10:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:04:52 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: wickhamt Date: 28-May-2015 06:25:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.987	3.975	0.012	96	211743	250.0	250.0	
* 2 Fluorobenzene	96	6.773	6.760	0.013	95	1066896	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.108	11.113	-0.005	93	237911	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.107	0.013	95	406093	12.5	12.5	
28 Dichlorodifluoromethane	85	2.159	2.164	-0.005	98	1582945	30.0	30.6	
30 Chloromethane	50	2.264	2.269	-0.005	99	1032956	30.0	31.1	
31 Butadiene	54	2.386	2.373	0.013	0	810368	NC	NC	
32 Vinyl chloride	62	2.386	2.390	-0.004	98	1028076	30.0	31.6	
35 Bromomethane	94	2.682	2.669	0.013	90	847148	30.0	31.4	
36 Chloroethane	64	2.751	2.756	-0.005	100	614520	30.0	31.1	
37 Dichlorofluoromethane	67	2.925	2.930	-0.005	99	2336784	30.0	32.6	
38 Trichlorofluoromethane	101	2.995	2.982	0.013	100	2060386	30.0	32.1	
40 Ethyl ether	59	3.221	3.226	-0.005	94	502993	30.0	29.7	
44 Acrolein	56	3.361	3.365	-0.004	100	354662	300.0	304.1	
45 1,1-Dichloroethene	96	3.465	3.470	-0.005	94	937902	30.0	29.4	
46 1,1,2-Trichloro-1,2,2-trif	151	3.500	3.487	0.013	98	1309750	30.0	30.2	
47 Acetone	43	3.517	3.505	0.012	98	376529	120.0	113.4	
48 Iodomethane	142	3.639	3.644	-0.005	99	2111383	30.0	29.4	
50 Carbon disulfide	76	3.726	3.731	-0.005	100	3580245	30.0	29.1	
52 3-Chloro-1-propene	41	3.813	3.818	-0.005	90	2163538	30.0	29.3	
53 Methyl acetate	43	3.831	3.818	0.013	98	1670946	150.0	155.5	
54 Methylene Chloride	84	3.953	3.957	-0.004	98	814145	30.0	29.7	
55 2-Methyl-2-propanol	59	4.057	4.062	-0.005	92	300590	300.0	300.7	
57 Acrylonitrile	53	4.196	4.201	-0.005	98	863563	300.0	310.6	
58 trans-1,2-Dichloroethene	96	4.231	4.236	-0.005	95	1056693	30.0	29.5	
56 Methyl tert-butyl ether	73	4.249	4.236	0.013	98	1794782	30.0	29.6	
59 Hexane	57	4.510	4.514	-0.004	95	1936877	30.0	30.4	
60 1,1-Dichloroethane	63	4.684	4.688	-0.004	96	2206706	30.0	29.2	
61 Vinyl acetate	43	4.719	4.723	-0.004	96	3086662	60.0	65.9	
65 cis-1,2-Dichloroethene	96	5.363	5.367	-0.004	89	1074834	30.0	29.8	
67 2-Butanone (MEK)	43	5.363	5.367	-0.004	97	820646	120.0	134.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.380	5.385	-0.005	92	1911674	30.0	29.9	
71 sec-Butyl Alcohol	45	5.572	5.576	-0.004	96	1291377	900.0	851.8	
73 Chlorobromomethane	128	5.659	5.663	-0.004	90	488660	30.0	30.8	
74 Tetrahydrofuran	42	5.711	5.716	-0.005	97	265724	60.0	60.3	
75 Chloroform	83	5.728	5.733	-0.005	97	2084195	30.0	29.5	
76 1,1,1-Trichloroethane	97	5.972	5.977	-0.005	97	2022539	30.0	30.0	
77 Cyclohexane	56	6.059	6.046	0.013	97	2254936	30.0	30.3	
78 1,1-Dichloropropene	75	6.164	6.168	-0.004	92	1748830	30.0	28.9	
79 Carbon tetrachloride	117	6.181	6.186	-0.005	97	1914881	30.0	30.5	
80 Isobutyl alcohol	41	6.286	6.290	-0.004	91	420168	750.0	791.2	
81 Benzene	78	6.425	6.429	-0.004	98	3405649	30.0	30.5	
82 1,2-Dichloroethane	62	6.442	6.447	-0.005	96	1008279	30.0	29.9	
84 n-Heptane	43	6.721	6.725	-0.004	97	3019511	30.0	30.5	
86 Trichloroethene	95	7.243	7.230	0.013	97	1391651	30.0	30.6	
88 2-Pentanone	43	7.469	7.474	-0.005	96	2088712	120.0	123.0	
89 Methylcyclohexane	55	7.504	7.491	0.013	90	2049189	30.0	30.9	
90 1,2-Dichloropropane	63	7.539	7.526	0.013	89	1320707	30.0	29.6	
92 Dibromomethane	93	7.696	7.700	-0.004	92	654298	30.0	29.4	
93 1,4-Dioxane	88	7.731	7.718	0.013	31	87288	600.0	663.8	
94 Dichlorobromomethane	83	7.905	7.892	0.013	98	1964681	30.0	30.2	
96 2-Chloroethyl vinyl ether	63	8.288	8.292	-0.004	89	271671	30.0	34.0	
97 cis-1,3-Dichloropropene	75	8.497	8.501	-0.004	91	1713888	30.0	30.6	
98 4-Methyl-2-pentanone (MIBK	43	8.723	8.710	0.013	97	2918765	120.0	128.5	
99 Toluene	91	8.984	8.971	0.013	97	3836921	30.0	29.9	
100 trans-1,3-Dichloropropene	75	9.280	9.285	-0.005	98	1231322	30.0	30.1	
101 Ethyl methacrylate	69	9.419	9.406	0.013	97	1050575	30.0	30.5	
102 1,1,2-Trichloroethane	97	9.559	9.546	0.013	93	735362	30.0	28.6	
103 Tetrachloroethene	164	9.767	9.772	-0.005	96	1183439	30.0	30.6	
104 1,3-Dichloropropane	76	9.802	9.789	0.013	95	1297830	30.0	29.8	
105 2-Hexanone	43	9.924	9.929	-0.005	98	1981716	120.0	124.4	
108 Chlorodibromomethane	129	10.150	10.155	-0.005	90	1317455	30.0	31.0	
109 Ethylene Dibromide	107	10.342	10.329	0.013	98	925921	30.0	30.9	
110 1-Chlorohexane	91	11.125	11.113	0.012	91	1911706	30.0	29.2	
111 Chlorobenzene	112	11.160	11.147	0.013	90	2540363	30.0	29.8	
112 1,1,1,2-Tetrachloroethane	131	11.282	11.287	-0.005	96	1254447	30.0	30.5	
113 Ethylbenzene	106	11.334	11.322	0.012	99	1300912	30.0	29.9	
114 m-Xylene & p-Xylene	106	11.508	11.496	0.012	98	1816296	30.0	30.7	
115 o-Xylene	106	12.083	12.070	0.013	99	1578391	30.0	30.4	
116 Styrene	104	12.100	12.088	0.012	93	2556260	30.0	30.5	
117 Bromoform	173	12.344	12.349	-0.005	94	737056	30.0	32.2	
118 Isopropylbenzene	105	12.570	12.558	0.012	97	4996844	30.0	28.7	
120 Cyclohexanone	55	12.692	12.697	-0.005	98	677839	1200.0	1283.6	
122 Bromobenzene	156	12.953	12.941	0.012	97	1204988	30.0	30.0	
121 1,1,2,2-Tetrachloroethane	83	12.953	12.958	-0.005	94	1042084	30.0	28.8	
123 1,2,3-Trichloropropane	110	13.006	12.993	0.013	82	231112	30.0	27.3	
124 trans-1,4-Dichloro-2-buten	53	13.023	13.028	-0.005	71	257129	30.0	27.1	
125 N-Propylbenzene	120	13.075	13.080	-0.005	99	1211930	30.0	28.5	
126 2-Chlorotoluene	126	13.180	13.184	-0.004	95	938094	30.0	28.4	
127 1,3,5-Trimethylbenzene	105	13.302	13.289	0.013	95	3748579	30.0	28.5	
128 4-Chlorotoluene	126	13.319	13.306	0.013	99	1265565	30.0	29.7	
129 tert-Butylbenzene	119	13.685	13.672	0.013	95	4067161	30.0	28.5	
130 1,2,4-Trimethylbenzene	105	13.737	13.724	0.013	95	3557690	30.0	28.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.928	13.916	0.012	95	1080246	30.0	28.7	
132 1,3-Dichlorobenzene	146	14.050	14.037	0.013	96	1735503	30.0	28.5	
133 4-Isopropyltoluene	119	14.085	14.072	0.013	98	4713028	30.0	29.1	
134 1,4-Dichlorobenzene	146	14.137	14.142	-0.005	93	2812786	30.0	29.9	
137 n-Butylbenzene	91	14.520	14.507	0.013	99	4897561	30.0	28.8	
138 1,2-Dichlorobenzene	146	14.538	14.542	-0.004	96	1890736	30.0	29.6	
139 1,2-Dibromo-3-Chloropropan	157	15.304	15.326	-0.022	80	184811	30.0	30.9	
141 1,2,4-Trichlorobenzene	180	16.087	16.074	0.013	94	1320265	30.0	31.8	a
142 Hexachlorobutadiene	225	16.226	16.231	-0.005	97	1302417	30.0	29.1	
143 Naphthalene	128	16.296	16.301	-0.005	97	1488412	30.0	30.4	
144 1,2,3-Trichlorobenzene	180	16.540	16.527	0.013	93	1050261	30.0	29.8	a
S 151 1,2-Dichloroethene, Total	96				0		60.0	59.2	
S 145 Trihalomethanes, Total	1				0		120.0	122.9	
S 146 Xylenes, Total (URS)	1				0		60.0	61.1	
S 147 Total BTEX	1				0			151.5	
S 148 1,3-Dichloropropene, Total	1				0		60.0	60.7	
S 149 1,2-Dichloroethene, Total	1				0		60.0	59.2	
S 150 Xylenes, Total	106				0		60.0	61.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

MV-568718-D_00002	Amount Added: 1.00	Units: uL
MV-Main A_00022	Amount Added: 15.00	Units: uL
MV-Gas/Ket A_00033	Amount Added: 15.00	Units: uL
MV-2cleve+AVA_00009	Amount Added: 15.00	Units: uL

Report Date: 02-Jun-2015 08:04:52 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2954.D

Injection Date: 28-May-2015 02:10:30 Instrument ID: VMS_H Operator ID: BERGERB

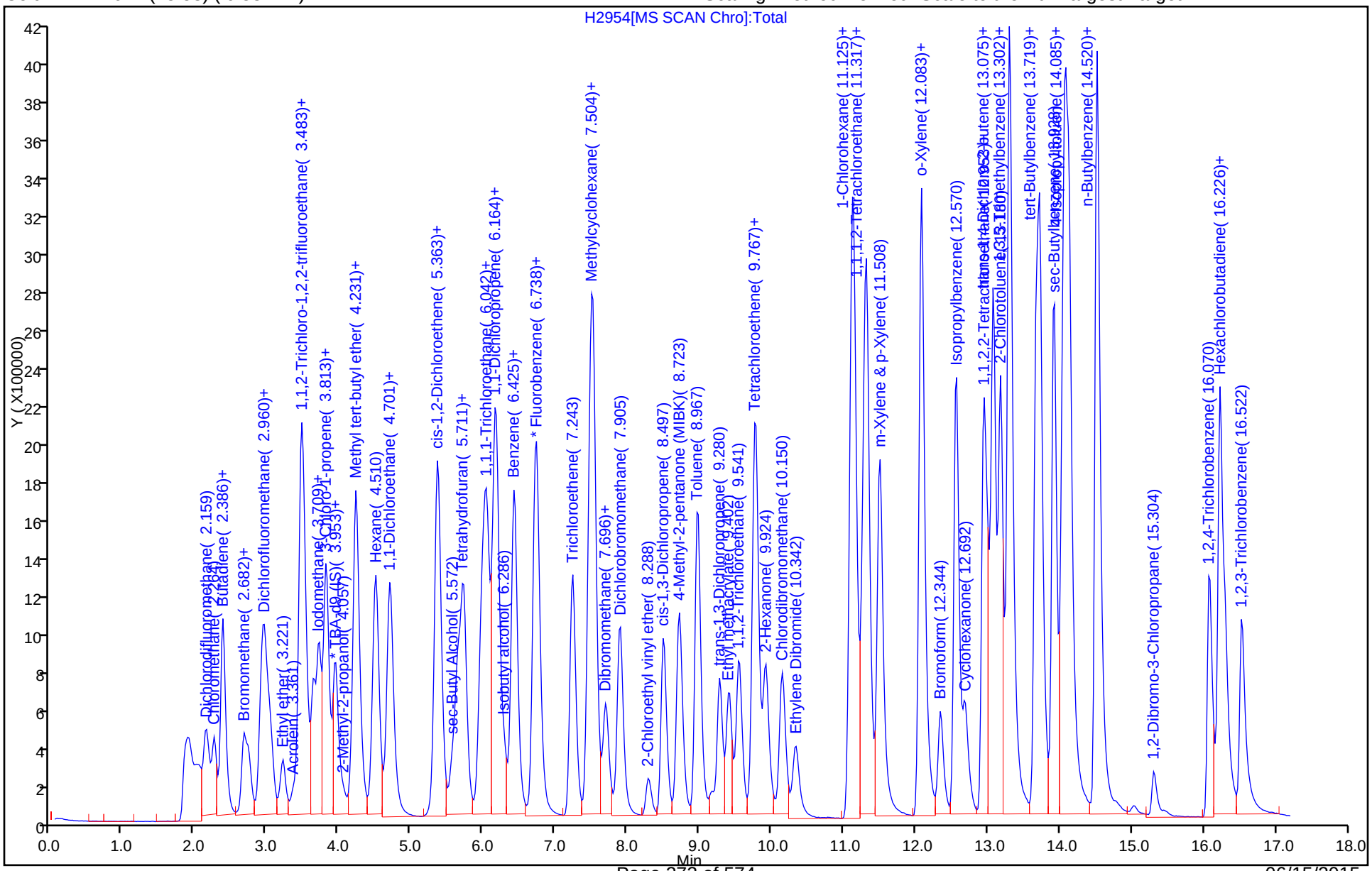
Lims ID: ic Worklist Smp#: 14

Client ID:

Purge Vol: 20.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: AQ_VMSH_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

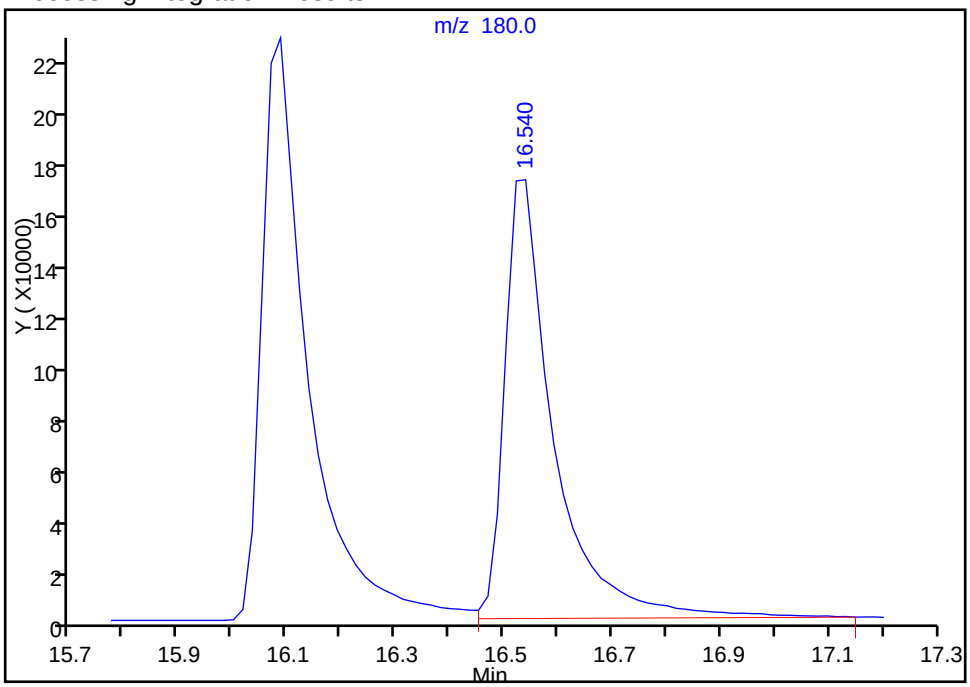
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2954.D				
Injection Date:	28-May-2015 02:10:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

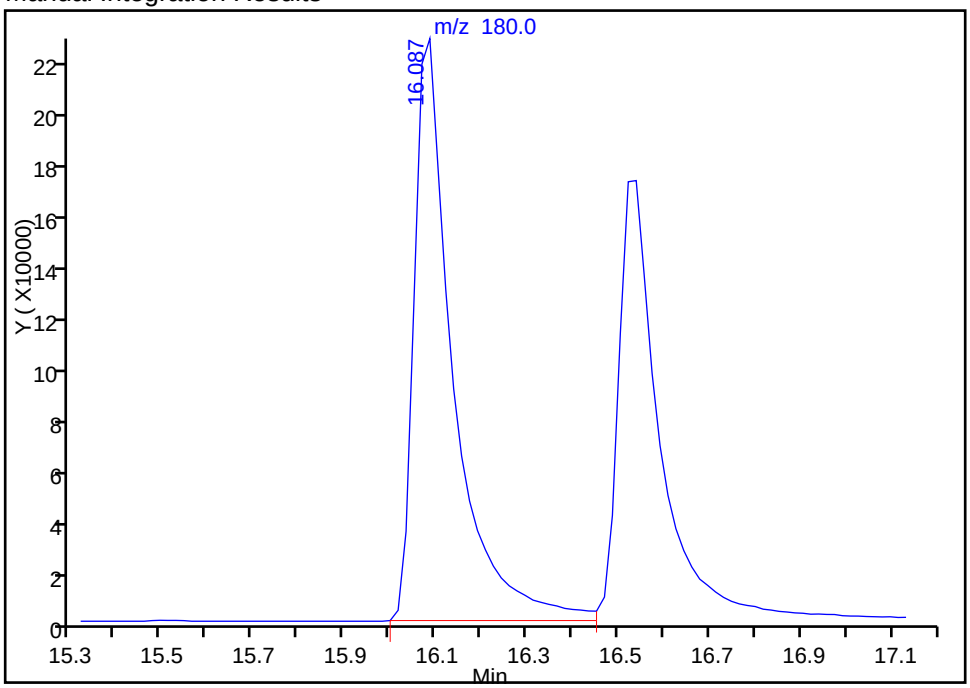
Processing Integration Results

RT: 16.54
Area: 1050261
Amount: 26.073362
Amount Units: ug/l



Manual Integration Results

RT: 16.09
Area: 1320265
Amount: 31.762542
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:52
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

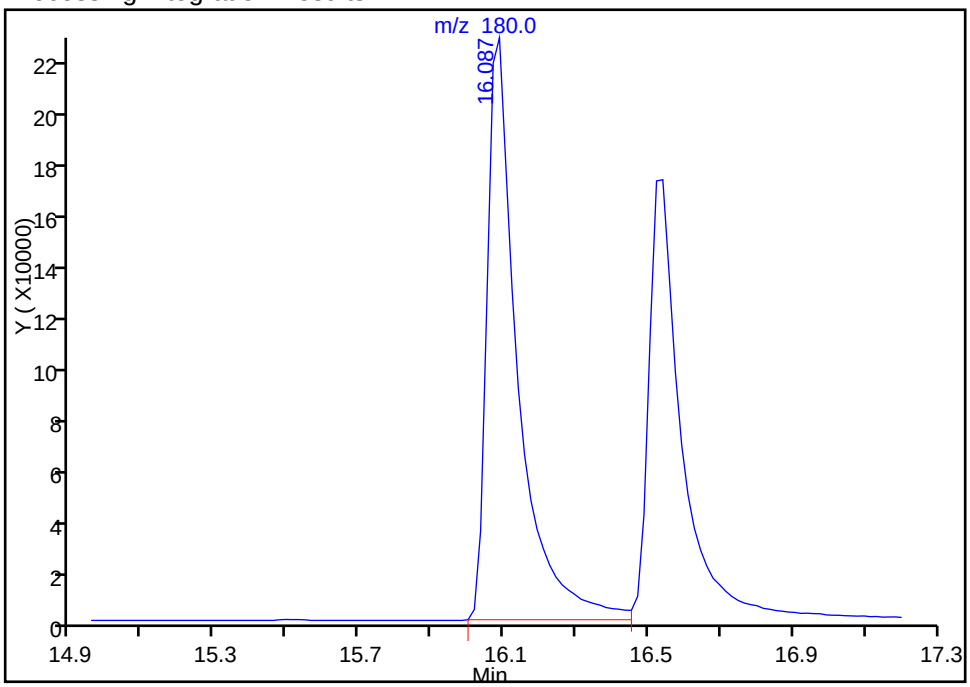
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2954.D				
Injection Date:	28-May-2015 02:10:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

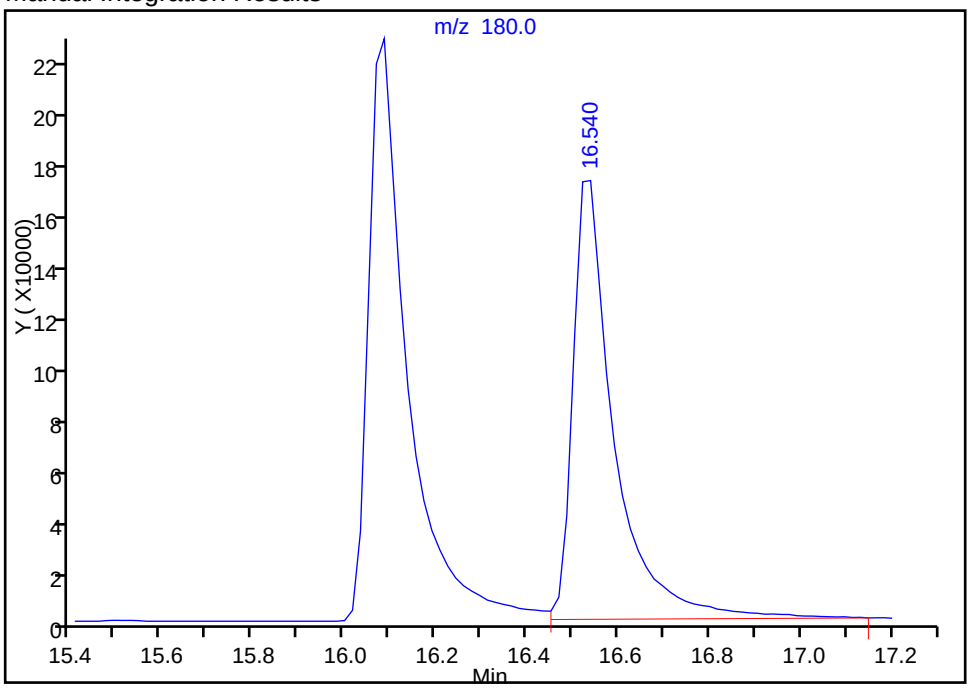
Processing Integration Results

RT: 16.09
Area: 1320265
Amount: 36.130523
Amount Units: ug/l



Manual Integration Results

RT: 16.54
Area: 1050261
Amount: 29.789730
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:04:52
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2955.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-May-2015 02:33:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 08:05:05 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: wickhamt Date: 28-May-2015 06:35:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.994	3.975	0.019	96	189827	250.0	250.0	
* 2 Fluorobenzene	96	6.779	6.760	0.019	97	1088738	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.114	11.113	0.001	91	232172	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.126	14.107	0.019	95	409472	12.5	12.5	
28 Dichlorodifluoromethane	85	2.166	2.164	0.002	98	3195464	60.0	60.4	
30 Chloromethane	50	2.270	2.269	0.001	98	2063538	60.0	60.9	
31 Butadiene	54	2.374	2.373	0.001	0	1655066	NC	NC	
32 Vinyl chloride	62	2.392	2.390	0.002	98	2088314	60.0	63.0	
35 Bromomethane	94	2.688	2.669	0.019	90	1677127	60.0	61.0	
36 Chloroethane	64	2.740	2.756	-0.016	100	1175653	60.0	58.3	
37 Dichlorofluoromethane	67	2.932	2.930	0.002	99	4651419	60.0	63.6	
38 Trichlorofluoromethane	101	2.984	2.982	0.002	100	4149850	60.0	63.5	
40 Ethyl ether	59	3.228	3.226	0.002	94	946871	60.0	54.8	
44 Acrolein	56	3.367	3.365	0.002	99	670949	599.9	563.7	
45 1,1-Dichloroethene	96	3.471	3.470	0.001	94	1917053	60.0	59.0	
46 1,1,2-Trichloro-1,2,2-trif	151	3.489	3.487	0.002	98	2715137	60.0	61.3	
47 Acetone	43	3.506	3.505	0.001	97	674850	240.0	199.2	
48 Iodomethane	142	3.645	3.644	0.001	99	4302574	60.0	58.8	
50 Carbon disulfide	76	3.715	3.731	-0.016	100	7290483	60.0	58.1	
52 3-Chloro-1-propene	41	3.819	3.818	0.001	91	4311947	60.0	57.1	
53 Methyl acetate	43	3.837	3.818	0.019	99	3085396	300.0	281.3	
54 Methylene Chloride	84	3.941	3.957	-0.016	98	1594879	60.0	57.5	
55 2-Methyl-2-propanol	59	4.081	4.062	0.019	96	530360	600.0	596.2	
57 Acrylonitrile	53	4.202	4.201	0.001	98	1661461	600.0	585.7	
58 trans-1,2-Dichloroethene	96	4.237	4.236	0.001	95	2163767	60.0	59.2	
56 Methyl tert-butyl ether	73	4.237	4.236	0.001	99	3405326	60.0	54.9	
59 Hexane	57	4.498	4.514	-0.016	95	4048497	60.0	65.0	
60 1,1-Dichloroethane	63	4.690	4.688	0.002	96	4517987	60.0	58.5	
61 Vinyl acetate	43	4.725	4.723	0.002	96	5740935	120.0	120.0	
65 cis-1,2-Dichloroethene	96	5.369	5.367	0.002	88	2172564	60.0	58.9	
67 2-Butanone (MEK)	43	5.369	5.367	0.002	95	1491424	240.0	238.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.369	5.385	-0.016	91	3826816	60.0	59.4	
71 sec-Butyl Alcohol	45	5.578	5.576	0.002	96	2256681	1800.0	1660.4	
73 Chlorobromomethane	128	5.647	5.663	-0.016	90	966337	60.0	59.7	
74 Tetrahydrofuran	42	5.717	5.716	0.001	95	502514	120.0	111.8	
75 Chloroform	83	5.735	5.733	0.001	97	4188258	60.0	58.1	
76 1,1,1-Trichloroethane	97	5.978	5.977	0.001	97	4170262	60.0	60.5	
77 Cyclohexane	56	6.048	6.046	0.002	97	4600736	60.0	60.5	
78 1,1-Dichloropropene	75	6.170	6.168	0.002	92	3571391	60.0	57.8	
79 Carbon tetrachloride	117	6.187	6.186	0.001	98	3967597	60.0	62.0	
80 Isobutyl alcohol	41	6.292	6.290	0.002	92	692521	1500.0	1454.7	
81 Benzene	78	6.431	6.429	0.002	97	6903972	60.0	60.5	
82 1,2-Dichloroethane	62	6.448	6.447	0.001	96	1932916	60.0	56.1	
84 n-Heptane	43	6.727	6.725	0.002	97	6112060	60.0	60.5	
86 Trichloroethene	95	7.249	7.230	0.019	97	2854202	60.0	61.5	
88 2-Pentanone	43	7.475	7.474	0.001	96	3833019	240.0	221.2	
89 Methylcyclohexane	55	7.510	7.491	0.019	91	4186466	60.0	61.8	
90 1,2-Dichloropropane	63	7.545	7.526	0.019	96	2580688	60.0	56.6	
92 Dibromomethane	93	7.702	7.700	0.002	95	1255247	60.0	55.3	
93 1,4-Dioxane	88	7.719	7.718	0.001	81	154119	1200.0	1139.8	
94 Dichlorobromomethane	83	7.893	7.892	0.001	98	3971466	60.0	59.9	
96 2-Chloroethyl vinyl ether	63	8.294	8.292	0.002	88	539090	60.0	66.2	
97 cis-1,3-Dichloropropene	75	8.503	8.501	0.002	91	3329041	60.0	60.9	
98 4-Methyl-2-pentanone (MIBK	43	8.729	8.710	0.019	97	5332900	240.0	230.1	
99 Toluene	91	8.973	8.971	0.002	97	7745216	60.0	59.2	
100 trans-1,3-Dichloropropene	75	9.286	9.285	0.001	98	2363176	60.0	56.6	
101 Ethyl methacrylate	69	9.408	9.406	0.002	95	1969555	60.0	58.7	
102 1,1,2-Trichloroethane	97	9.547	9.546	0.001	92	1387307	60.0	53.0	
103 Tetrachloroethene	164	9.774	9.772	0.002	96	2470886	60.0	65.4	
104 1,3-Dichloropropane	76	9.791	9.789	0.002	97	2453301	60.0	57.6	
105 2-Hexanone	43	9.930	9.929	0.001	98	3687649	240.0	236.7	
108 Chlorodibromomethane	129	10.157	10.155	0.002	91	2532153	60.0	61.1	
109 Ethylene Dibromide	107	10.331	10.329	0.002	98	1794214	60.0	61.4	
110 1-Chlorohexane	91	11.114	11.113	0.001	90	3982029	60.0	62.4	
111 Chlorobenzene	112	11.149	11.147	0.002	90	5169847	60.0	62.1	
112 1,1,1,2-Tetrachloroethane	131	11.288	11.287	0.001	96	2510665	60.0	62.5	
113 Ethylbenzene	106	11.323	11.322	0.001	99	2674714	60.0	63.0	
114 m-Xylene & p-Xylene	106	11.514	11.496	0.018	98	3670522	60.0	63.6	
115 o-Xylene	106	12.072	12.070	0.002	98	3193493	60.0	63.1	
116 Styrene	104	12.089	12.088	0.001	93	5159432	60.0	63.0	
117 Bromoform	173	12.350	12.349	0.001	94	1411916	60.0	63.1	
118 Isopropylbenzene	105	12.559	12.558	0.001	96	10313550	60.0	58.8	
120 Cyclohexanone	55	12.698	12.697	0.001	97	1194077	2400.0	2315.6	
122 Bromobenzene	156	12.942	12.941	0.001	95	2406376	60.0	59.5	
121 1,1,2,2-Tetrachloroethane	83	12.959	12.958	0.001	94	1907715	60.0	52.2	
123 1,2,3-Trichloropropane	110	13.012	12.993	0.019	80	434508	60.0	50.9	
124 trans-1,4-Dichloro-2-buten	53	13.029	13.028	0.001	82	486849	60.0	50.8	
125 N-Propylbenzene	120	13.081	13.080	0.001	99	2510741	60.0	58.5	
126 2-Chlorotoluene	126	13.186	13.184	0.002	95	1941695	60.0	58.3	
127 1,3,5-Trimethylbenzene	105	13.308	13.289	0.019	95	7739677	60.0	58.3	
128 4-Chlorotoluene	126	13.325	13.306	0.019	98	2561711	60.0	59.6	
129 tert-Butylbenzene	119	13.673	13.672	0.001	95	8377315	60.0	58.2	
130 1,2,4-Trimethylbenzene	105	13.726	13.724	0.002	95	7231176	60.0	57.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.917	13.916	0.001	95	2264838	60.0	59.6	
132 1,3-Dichlorobenzene	146	14.039	14.037	0.002	97	3660427	60.0	59.6	
133 4-Isopropyltoluene	119	14.091	14.072	0.019	98	9779012	60.0	59.8	
134 1,4-Dichlorobenzene	146	14.143	14.142	0.001	95	5532730	60.0	58.3	
137 n-Butylbenzene	91	14.509	14.507	0.002	99	10123491	60.0	59.0	
138 1,2-Dichlorobenzene	146	14.544	14.542	0.002	97	3820213	60.0	59.2	
139 1,2-Dibromo-3-Chloropropan	157	15.310	15.326	-0.016	82	349881	60.0	58.1	
141 1,2,4-Trichlorobenzene	180	16.076	16.074	0.002	94	2675409	60.0	61.7	a
142 Hexachlorobutadiene	225	16.232	16.231	0.001	97	2743229	60.0	60.7	
143 Naphthalene	128	16.302	16.301	0.001	97	2893523	60.0	58.7	
144 1,2,3-Trichlorobenzene	180	16.528	16.527	0.001	93	2079040	60.0	60.9	a
S 151 1,2-Dichloroethene, Total	96				0		120.0	118.1	
S 145 Trihalomethanes, Total	1				0		240.0	242.2	
S 146 Xylenes, Total (URS)	1				0		120.0	126.7	
S 147 Total BTEX	1				0			309.5	
S 148 1,3-Dichloropropene, Total	1				0		120.0	117.5	
S 149 1,2-Dichloroethene, Total	1				0		120.0	118.1	
S 150 Xylenes, Total	106				0		120.0	126.7	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

MV-568718-D_00002	Amount Added: 1.00	Units: uL
MV-Main A_00022	Amount Added: 30.00	Units: uL
MV-Gas/Ket A_00033	Amount Added: 30.00	Units: uL
MV-2cleve+AVA_00009	Amount Added: 30.00	Units: uL

Report Date: 02-Jun-2015 08:05:05 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2955.D

Injection Date: 28-May-2015 02:33:30 Instrument ID: VMS_H Operator ID: BERGERB

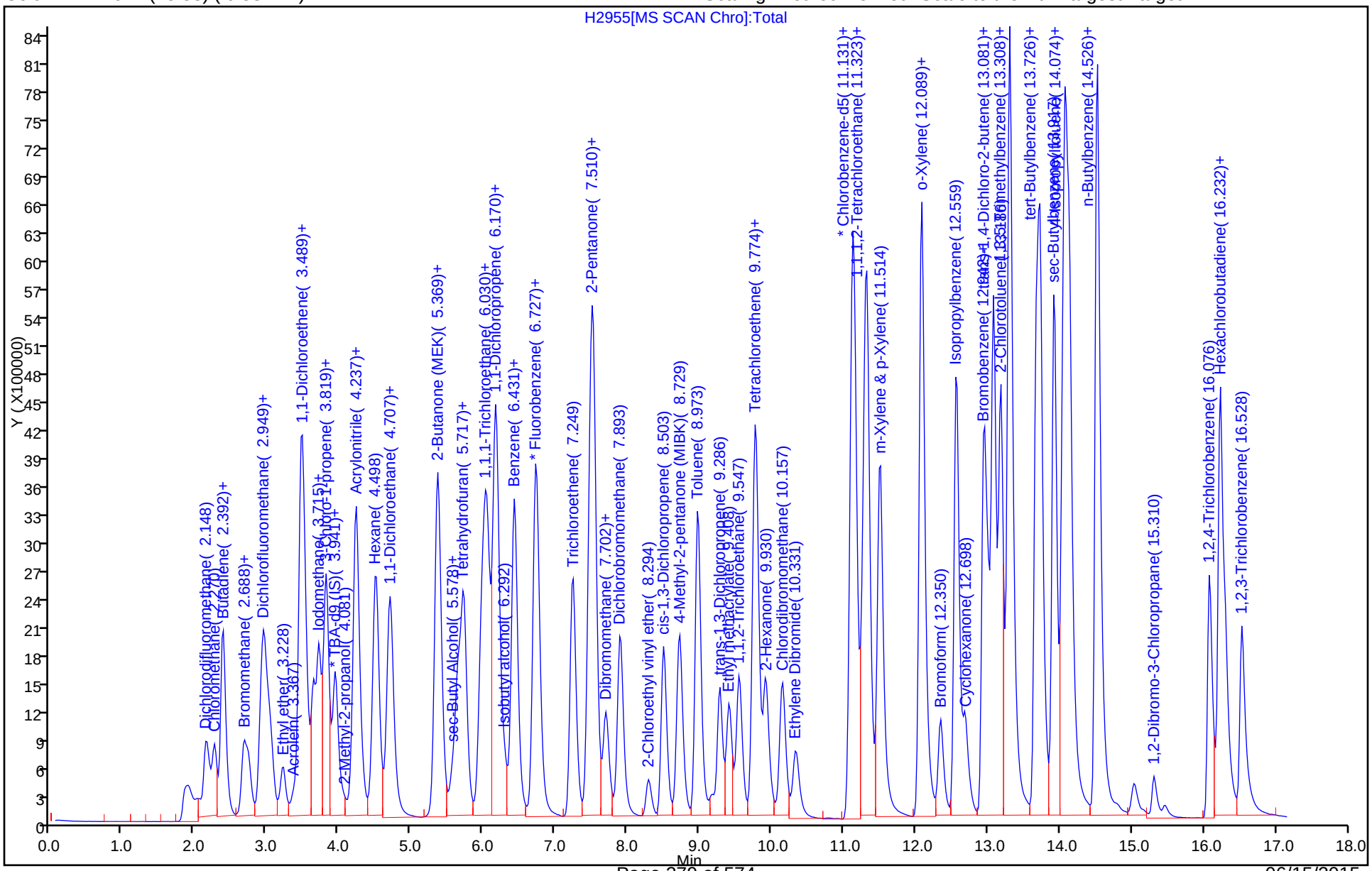
Lims ID: ic Worklist Smp#: 15

Client ID:

Purge Vol: 20.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: AQ_VMSH_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

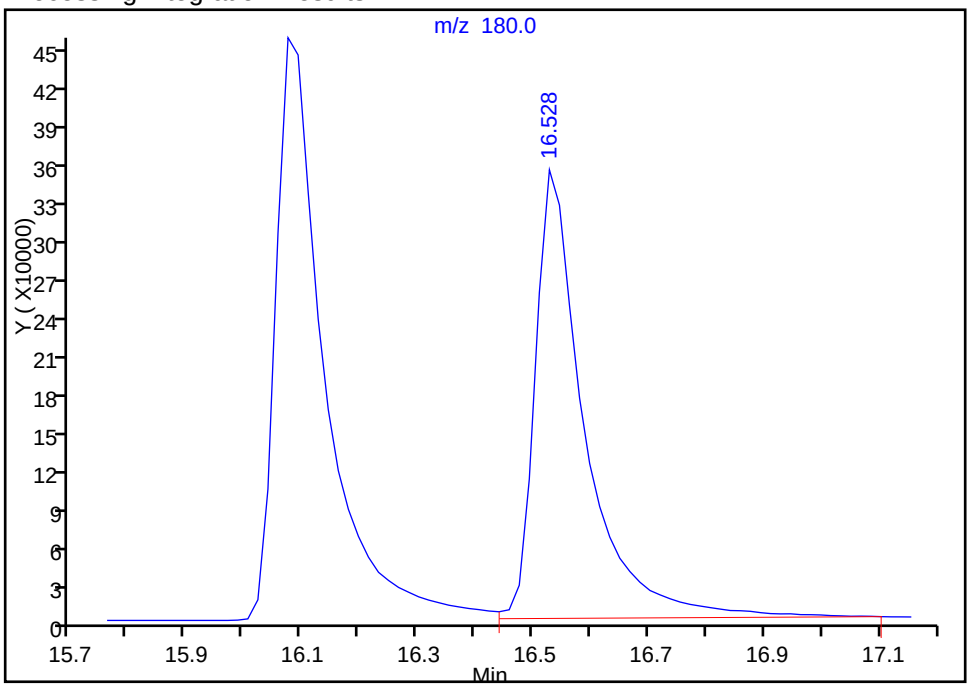
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2955.D				
Injection Date:	28-May-2015 02:33:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

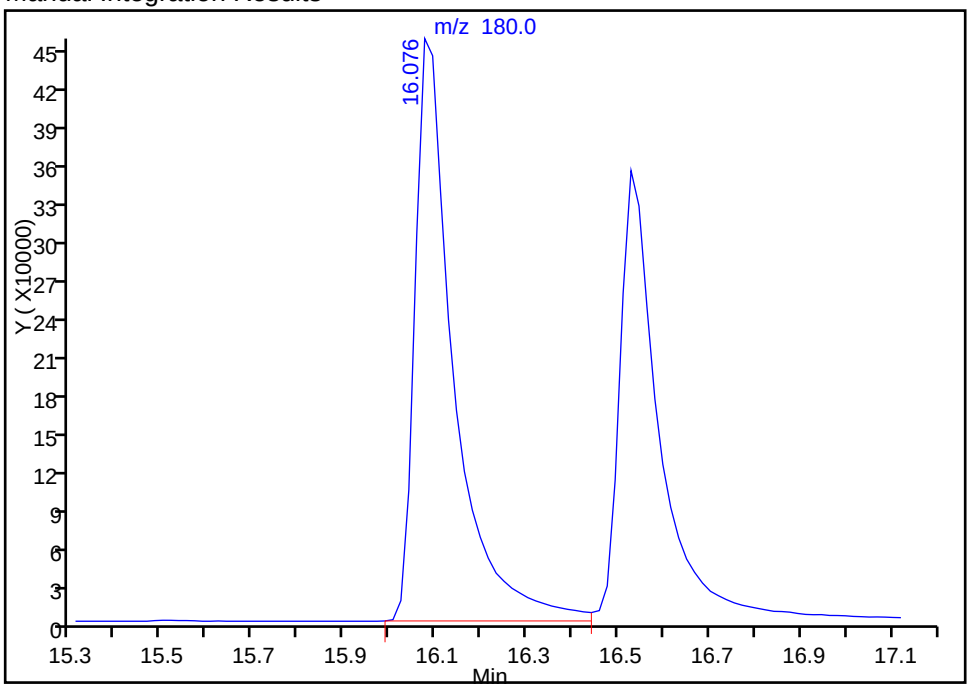
Processing Integration Results

RT: 16.53
Area: 2079040
Amount: 49.604181
Amount Units: ug/l



Manual Integration Results

RT: 16.08
Area: 2675409
Amount: 61.741363
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:05:05
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

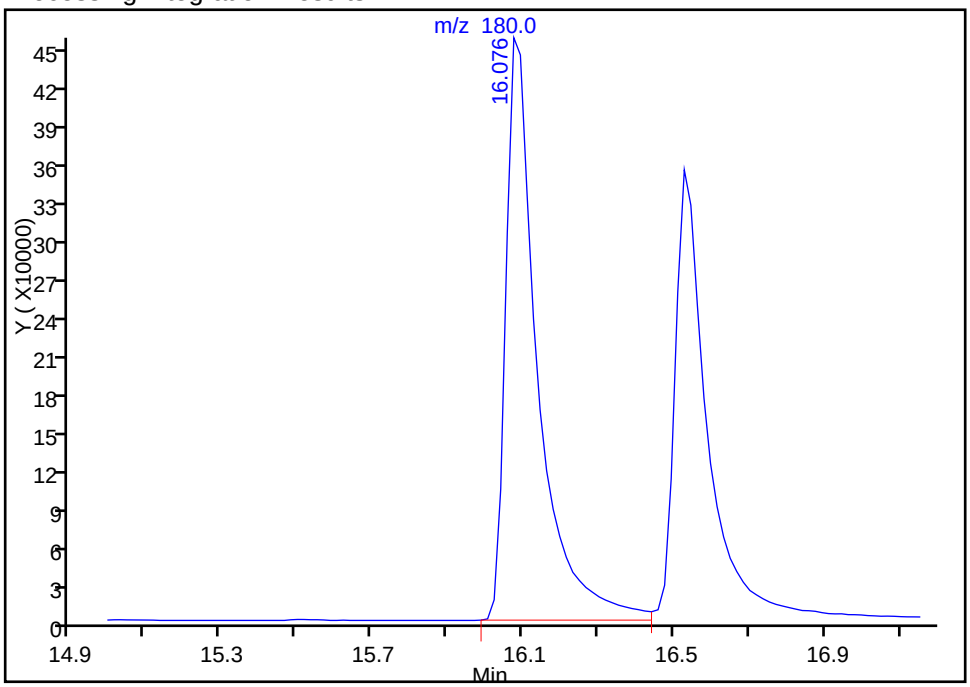
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2955.D				
Injection Date:	28-May-2015 02:33:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

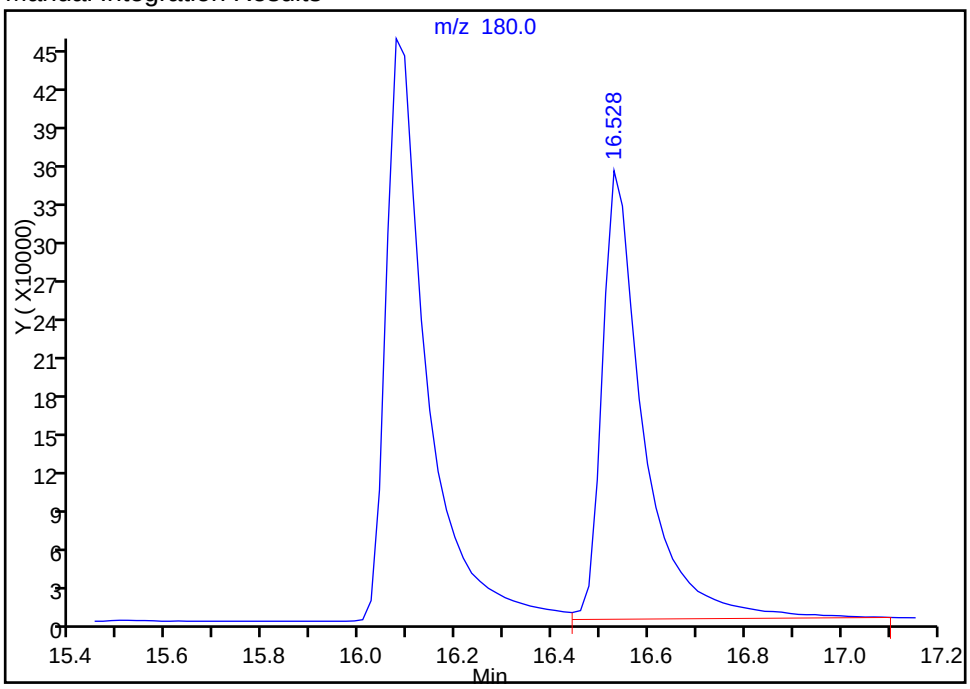
Processing Integration Results

RT: 16.08
Area: 2675409
Amount: 75.259408
Amount Units: ug/l



Manual Integration Results

RT: 16.53
Area: 2079040
Amount: 60.916685
Amount Units: ug/l



Reviewer: moanm, 02-Jun-2015 08:05:05
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2957.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-May-2015 03:18:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:17 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:47:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.973	3.975	-0.002	99	223130	250.0	250.0	
* 2 Fluorobenzene	96	6.759	6.760	-0.001	97	1100257	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.111	11.113	-0.002	93	260705	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.123	14.107	0.016	98	399090	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.923	5.924	-0.001	93	62835	1.00	1.13	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.341	6.342	-0.001	83	33456	1.00	1.09	
$ 10 Toluene-d8 (Surr)	98	8.883	8.883	-0.001	95	134275	1.00	1.06	
$ 11 4-Bromofluorobenzene (Surr	95	12.765	12.766	-0.001	81	81659	1.00	1.20	
34 Ethylene oxide	43	2.650	2.633	0.017	99	108123	200.0	200.2	
39 Ethanol	45		3.156				ND	ND	
43 Propene oxide	58	3.311	3.295	0.016	95	106179	50.0	51.5	
49 Isopropyl alcohol	45	3.642	3.626	0.016	36	10503	10.0	13.7	
51 Acetonitrile	41	3.799	3.817	-0.018	71	16071	12.5	15.3	M
62 Isopropyl ether	87	4.756	4.757	-0.001	99	33342	1.25	1.31	
63 2-Chloro-1,3-butadiene	53	4.791	4.792	-0.001	92	61627	1.00	1.06	
64 Tert-butyl ethyl ether	59	5.174	5.175	-0.001	99	153824	1.25	1.49	
69 Ethyl acetate	43	5.435	5.419	0.016	95	30591	2.00	2.19	
70 Propionitrile	54	5.470	5.454	0.016	46	13113	12.5	13.2	
72 Methacrylonitrile	41	5.627	5.610	0.017	97	88804	10.0	10.2	
83 Tert-amyl methyl ether	73	6.550	6.551	0.000	97	108283	1.25	1.33	
85 n-Butanol	56	7.159	7.160	-0.001	84	6625	25.0	22.8	
87 Ethyl acrylate	55	7.368	7.351	0.017	0	20390	NC	NC	
91 Methyl methacrylate	100	7.681	7.665	0.016	94	11608	2.00	2.38	
95 2-Nitropropane	41	8.186	8.187	-0.001	96	7254	2.00	2.01	
107 Tetrahydrothiophene	60	10.136	10.119	0.017	59	11131	1.00	0.99	
119 cis-1,4-Dichloro-2-butene	53	12.660	12.661	-0.001	82	5565	1.00	0.7918	
135 1,2,3-Trimethylbenzene	105	14.192	14.193	-0.001	97	111761	1.00	1.05	
140 1,3,5-Trichlorobenzene	180	15.516	15.516	0.000	95	54832	1.00	1.04	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

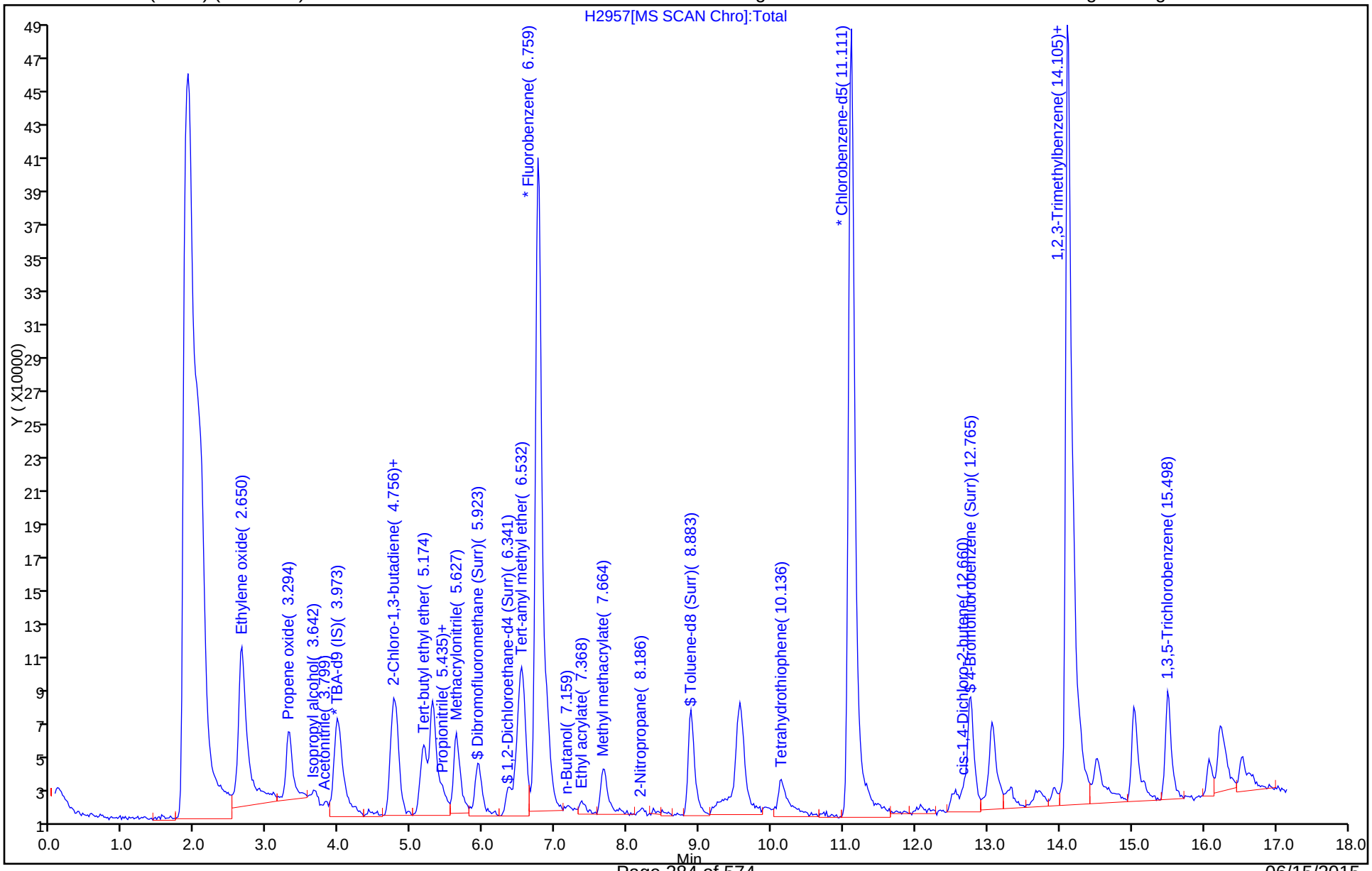
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Supp A_00011	Amount Added:	0.50	Units: uL
MV-ARCH SS A_00042	Amount Added:	0.08	Units: uL

Report Date: 28-May-2015 07:24:17 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2957.D				
Injection Date:	28-May-2015 03:18:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	16
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

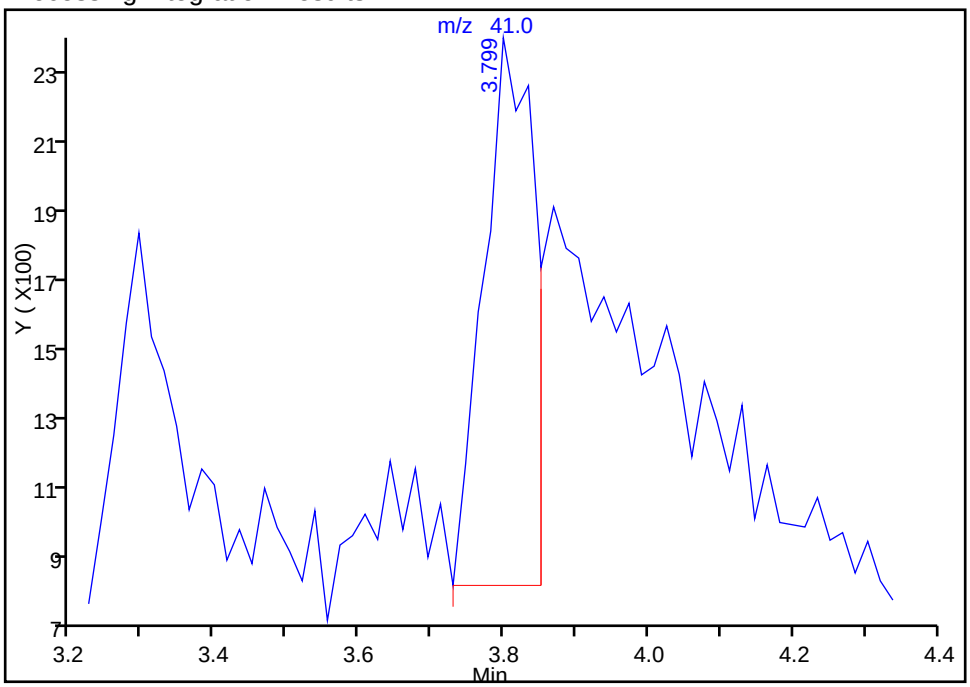
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2957.D				
Injection Date:	28-May-2015 03:18:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

51 Acetonitrile, CAS: 75-05-8

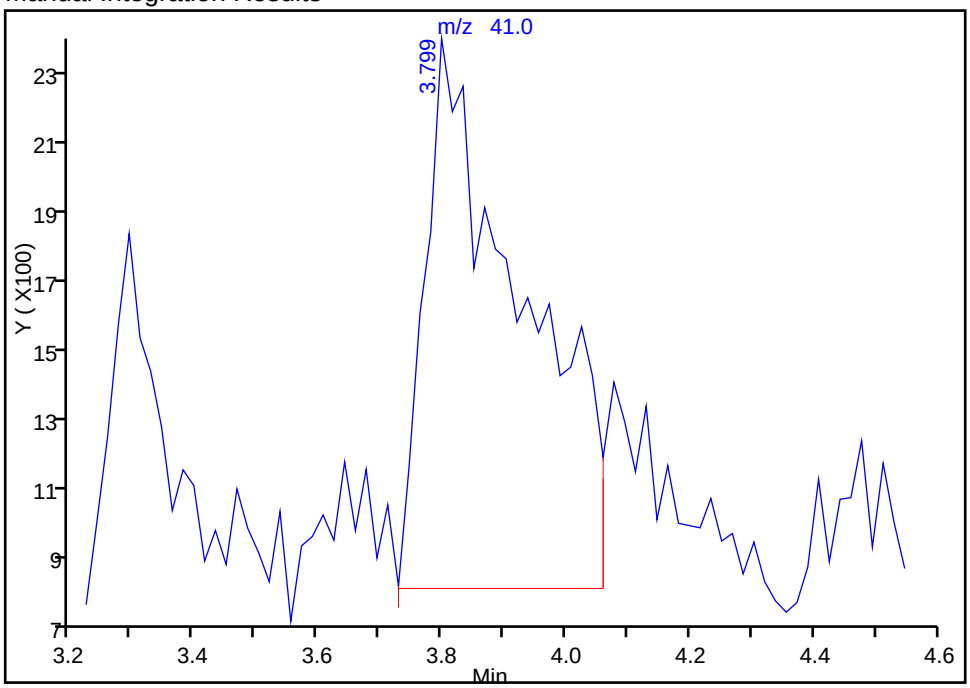
Processing Integration Results

RT: 3.80
Area: 7181
Amount: 10.938454
Amount Units: ug/l



Manual Integration Results

RT: 3.80
Area: 16071
Amount: 15.289027
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:50:57
Audit Action: Assigned New Baseline
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2958.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-May-2015 03:40:30 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:18 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:47:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.987	3.975	0.012	99	199012	250.0	250.0	
* 2 Fluorobenzene	96	6.755	6.760	-0.005	97	1109205	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.108	11.113	-0.005	93	253043	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.107	0.013	98	394410	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.920	5.924	-0.004	93	118288	2.00	2.11	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.355	6.342	0.013	83	66325	2.00	2.14	
$ 10 Toluene-d8 (Surr)	98	8.879	8.883	-0.004	94	255016	2.00	2.07	
$ 11 4-Bromofluorobenzene (Surr	95	12.762	12.766	-0.004	81	142343	2.00	2.11	
34 Ethylene oxide	43	2.647	2.633	0.014	99	206562	400.0	379.3	
39 Ethanol	45	3.169	3.156	0.013	45	9004	100.0	104.6	M
43 Propene oxide	58	3.308	3.295	0.013	95	198005	100.0	95.2	
49 Isopropyl alcohol	45	3.639	3.626	0.013	30	10028	20.0	12.6	
51 Acetonitrile	41	3.848	3.817	0.031	94	19392	25.0	20.5	M
62 Isopropyl ether	87	4.753	4.757	-0.004	99	64479	2.50	2.51	
63 2-Chloro-1,3-butadiene	53	4.788	4.792	-0.004	92	115265	2.00	1.97	
64 Tert-butyl ethyl ether	59	5.171	5.175	-0.004	99	264567	2.50	2.54	
69 Ethyl acetate	43	5.415	5.419	-0.004	96	50291	4.00	3.57	
70 Propionitrile	54	5.450	5.454	-0.004	32	23893	25.0	23.8	
72 Methacrylonitrile	41	5.624	5.610	0.014	97	173321	20.0	19.7	
83 Tert-amyl methyl ether	73	6.564	6.551	0.014	96	203262	2.50	2.48	
85 n-Butanol	56	7.156	7.160	-0.004	91	13826	50.0	47.2	
87 Ethyl acrylate	55	7.347	7.351	-0.004	0	47247	NC	NC	
91 Methyl methacrylate	100	7.661	7.665	-0.004	95	20939	4.00	4.26	
95 2-Nitropropane	41	8.200	8.187	0.013	96	13786	4.00	3.80	
107 Tetrahydrothiophene	60	10.133	10.119	0.014	59	22027	2.00	2.02	
119 cis-1,4-Dichloro-2-butene	53	12.657	12.661	-0.004	94	15634	2.00	2.25	
135 1,2,3-Trimethylbenzene	105	14.189	14.193	-0.004	97	209412	2.00	1.98	
140 1,3,5-Trichlorobenzene	180	15.512	15.516	-0.004	96	105315	2.00	2.03	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

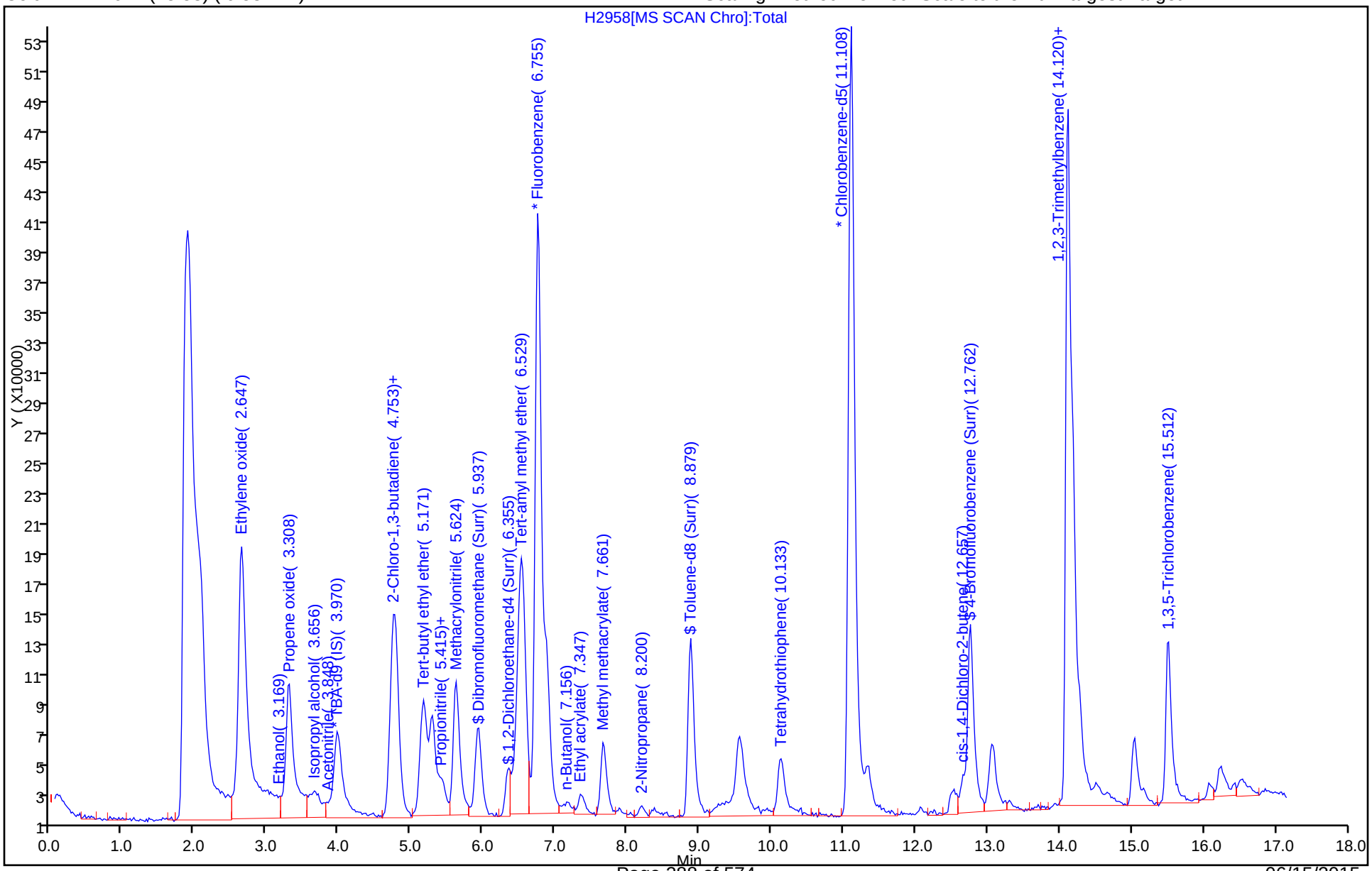
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Supp A_00011	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00042	Amount Added:	0.16	Units: uL

Report Date: 28-May-2015 07:24:18 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2958.D				
Injection Date:	28-May-2015 03:40:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	17
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

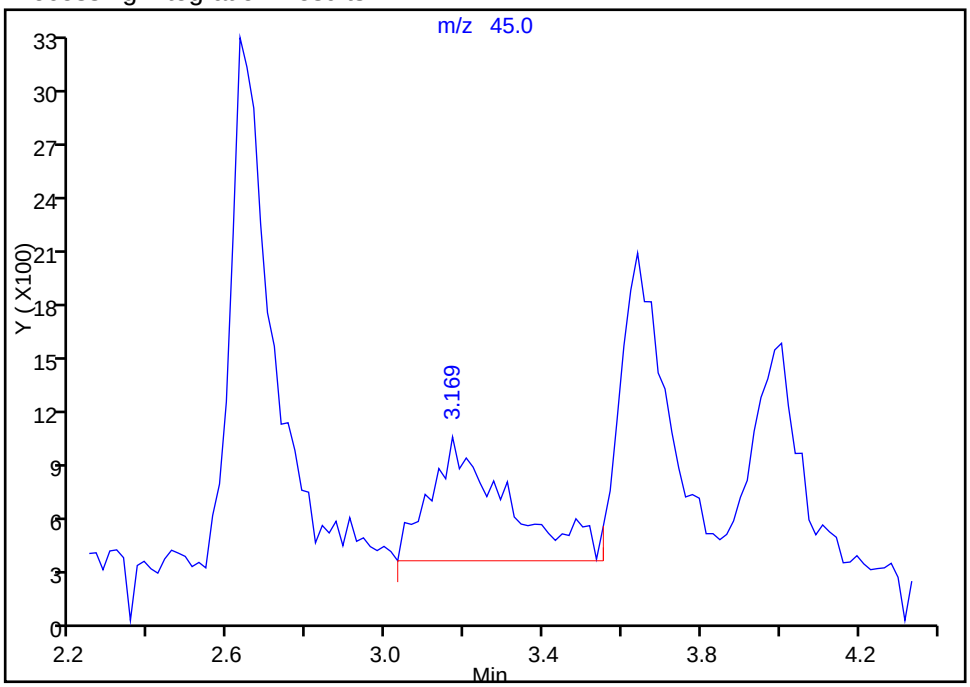
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2958.D				
Injection Date:	28-May-2015 03:40:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

39 Ethanol, CAS: 64-17-5

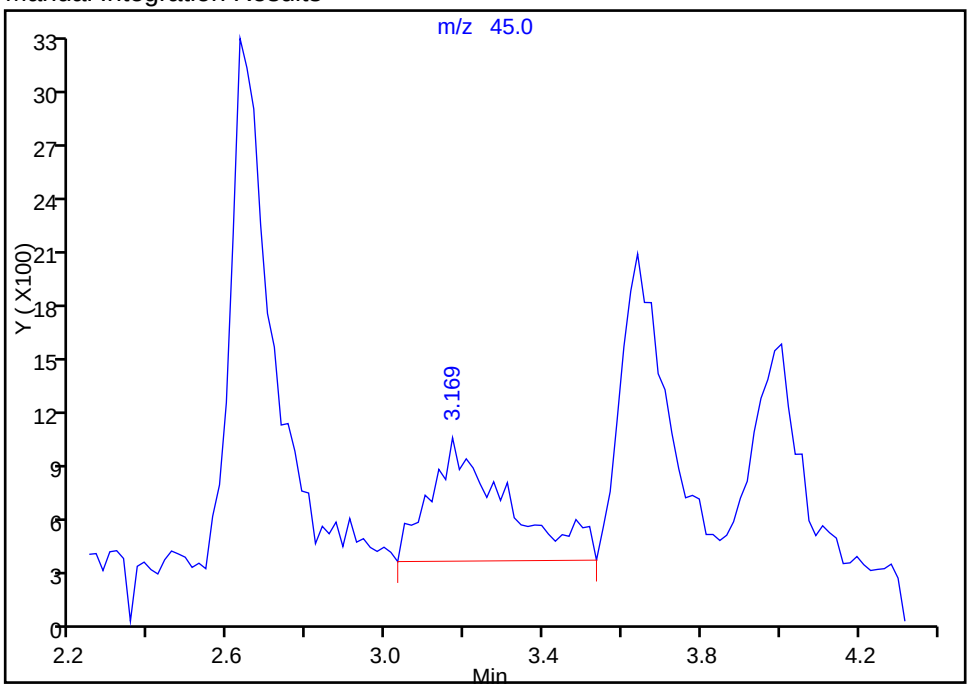
Processing Integration Results

RT: 3.17
Area: 9329
Amount: 131.4277
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 9004
Amount: 104.5561
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:52:50
Audit Action: Manually Integrated
Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

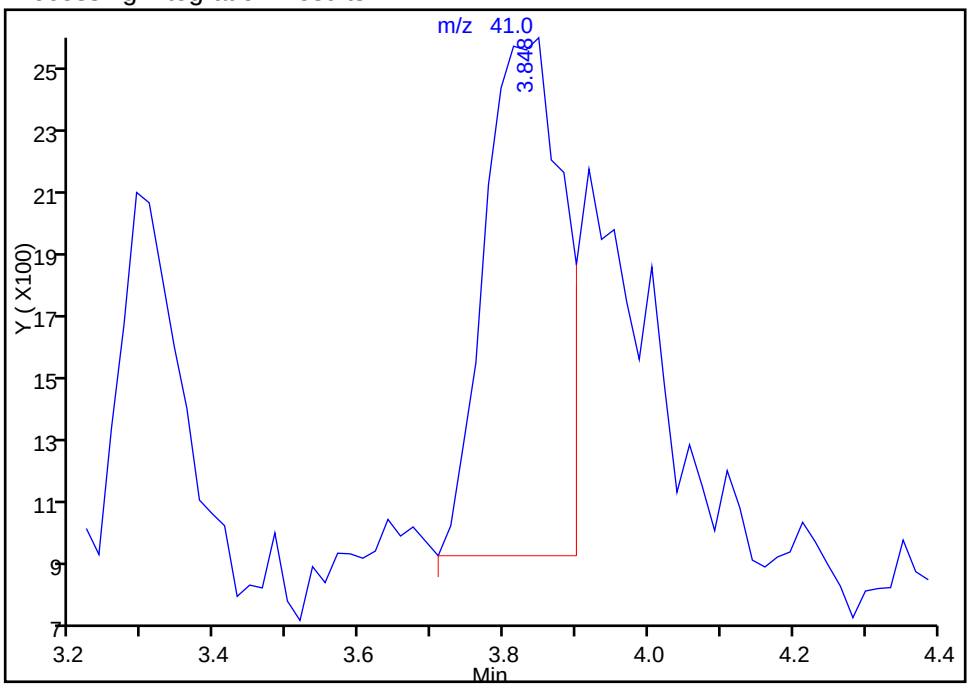
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2958.D				
Injection Date:	28-May-2015 03:40:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

51 Acetonitrile, CAS: 75-05-8

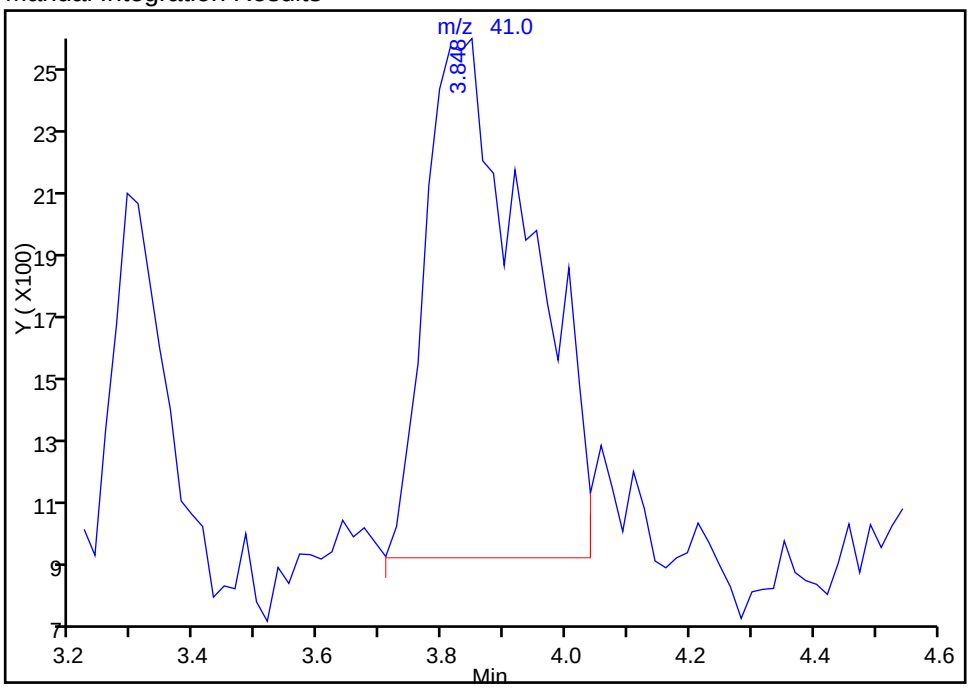
Processing Integration Results

RT: 3.85
Area: 12617
Amount: 20.460101
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 19392
Amount: 20.495260
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:50:33
Audit Action: Assigned New Baseline
Audit Reason: Split Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2959.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-May-2015 04:03:30 ALS Bottle#: 13 Worklist Smp#: 18
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:19 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:48:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.988	3.975	0.013	99	193876	250.0	250.0	
* 2 Fluorobenzene	96	6.756	6.760	-0.004	97	1102662	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.108	11.113	-0.005	92	247579	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.107	0.013	97	386847	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.920	5.924	-0.004	92	266180	5.00	4.78	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.338	6.342	-0.004	83	149069	5.00	4.83	
$ 10 Toluene-d8 (Surr)	98	8.880	8.883	-0.003	95	582345	5.00	4.82	
$ 11 4-Bromofluorobenzene (Surr	95	12.762	12.766	-0.004	81	317561	5.00	4.80	
34 Ethylene oxide	43	2.647	2.633	0.014	99	544994	1000.0	1006.8	
39 Ethanol	45	3.187	3.156	0.031	95	15621	250.0	216.2	M
43 Propene oxide	58	3.309	3.295	0.014	95	506300	250.0	244.9	
49 Isopropyl alcohol	45	3.657	3.626	0.031	95	24803	50.0	42.1	
51 Acetonitrile	41	3.796	3.817	-0.021	100	43880	62.5	60.9	
62 Isopropyl ether	87	4.736	4.757	-0.021	98	158619	6.25	6.21	
63 2-Chloro-1,3-butadiene	53	4.788	4.792	-0.004	92	294842	5.00	5.07	
64 Tert-butyl ethyl ether	59	5.171	5.175	-0.004	99	620642	6.25	6.00	
69 Ethyl acetate	43	5.415	5.419	-0.004	99	133601	10.0	9.55	
70 Propionitrile	54	5.450	5.454	-0.004	96	61262	62.5	61.5	
72 Methacrylonitrile	41	5.624	5.610	0.014	97	426154	50.0	48.8	
83 Tert-amyl methyl ether	73	6.547	6.551	-0.003	97	509379	6.25	6.25	
85 n-Butanol	56	7.156	7.160	-0.004	90	32899	125.0	113.0	
87 Ethyl acrylate	55	7.365	7.351	0.014	0	115703	NC	NC	
91 Methyl methacrylate	100	7.678	7.665	0.013	95	46363	10.0	9.48	
95 2-Nitropropane	41	8.201	8.187	0.014	96	34617	10.0	9.59	
107 Tetrahydrothiophene	60	10.133	10.119	0.014	59	52424	5.00	4.92	
119 cis-1,4-Dichloro-2-butene	53	12.640	12.661	-0.021	93	35995	5.00	5.28	
135 1,2,3-Trimethylbenzene	105	14.190	14.193	-0.003	98	519679	5.00	5.02	
140 1,3,5-Trichlorobenzene	180	15.513	15.516	-0.003	96	251792	5.00	4.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

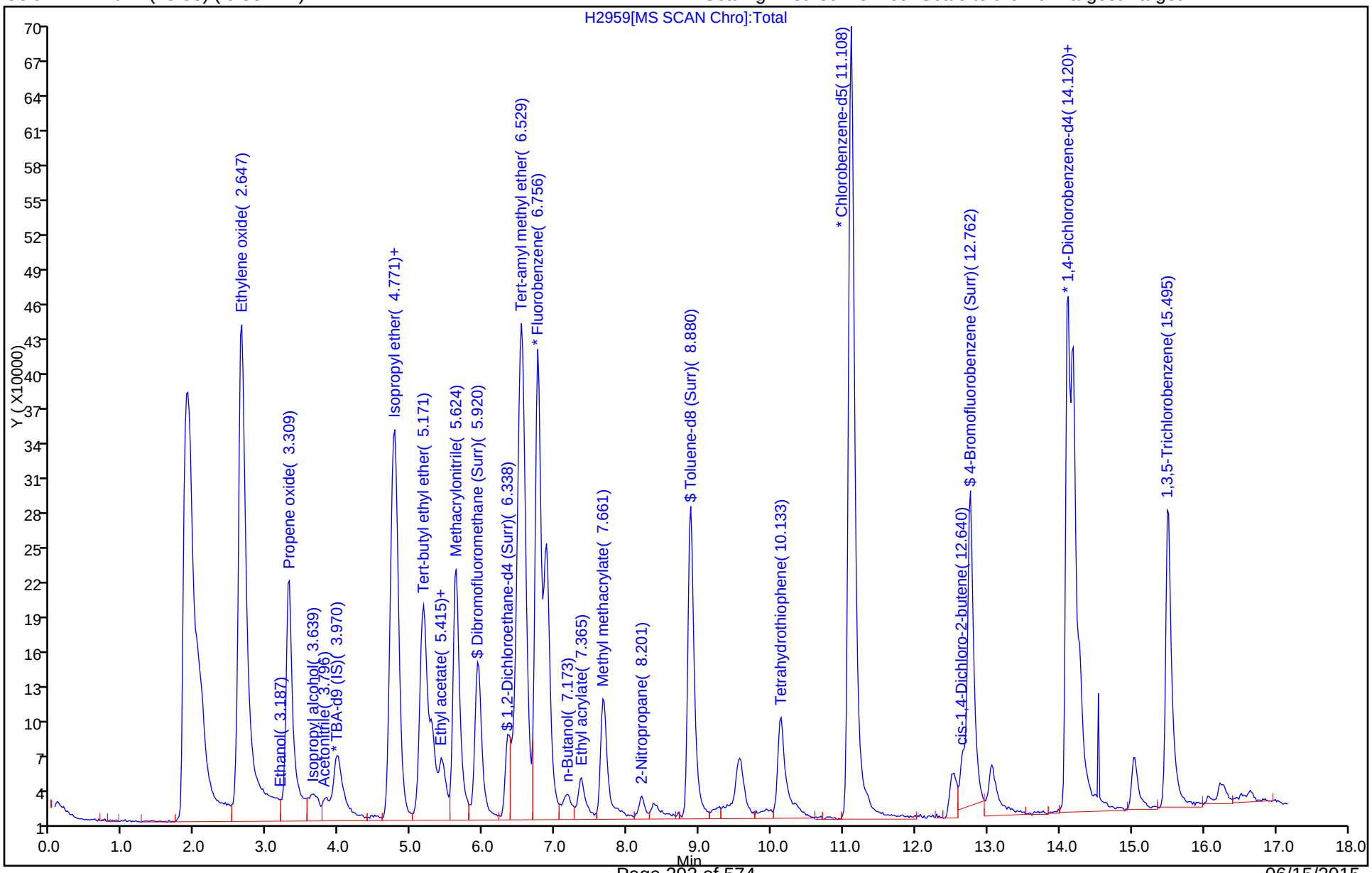
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Supp A_00011	Amount Added:	2.50	Units: uL
MV-ARCH SS A_00042	Amount Added:	0.40	Units: uL

Report Date: 28-May-2015 07:24:19 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2959.D				
Injection Date:	28-May-2015 04:03:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	18
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

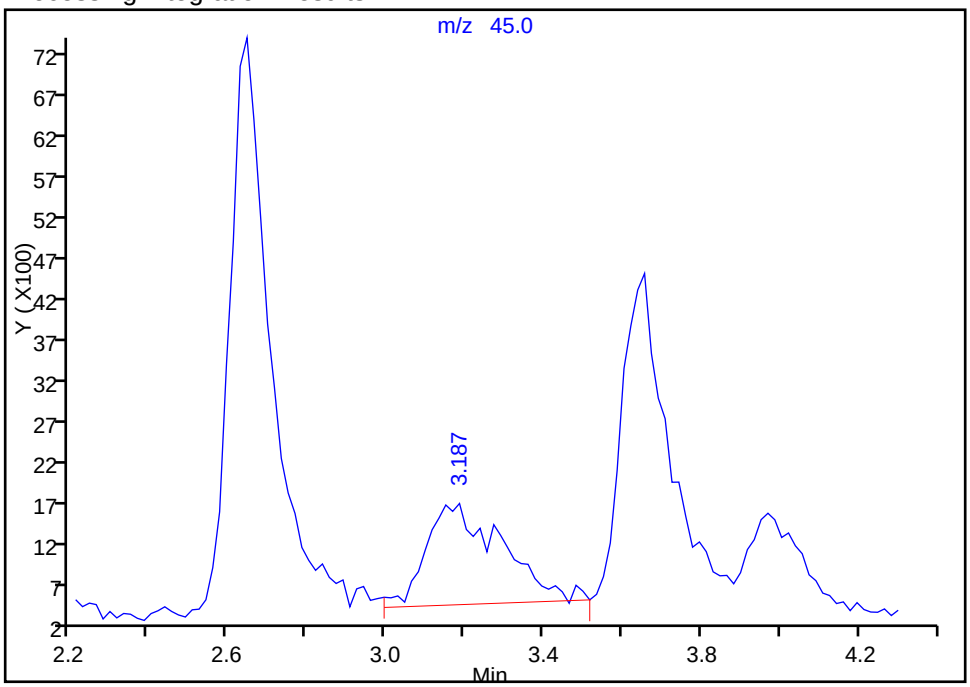
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2959.D				
Injection Date:	28-May-2015 04:03:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	13	Worklist Smp#:	18
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

39 Ethanol, CAS: 64-17-5

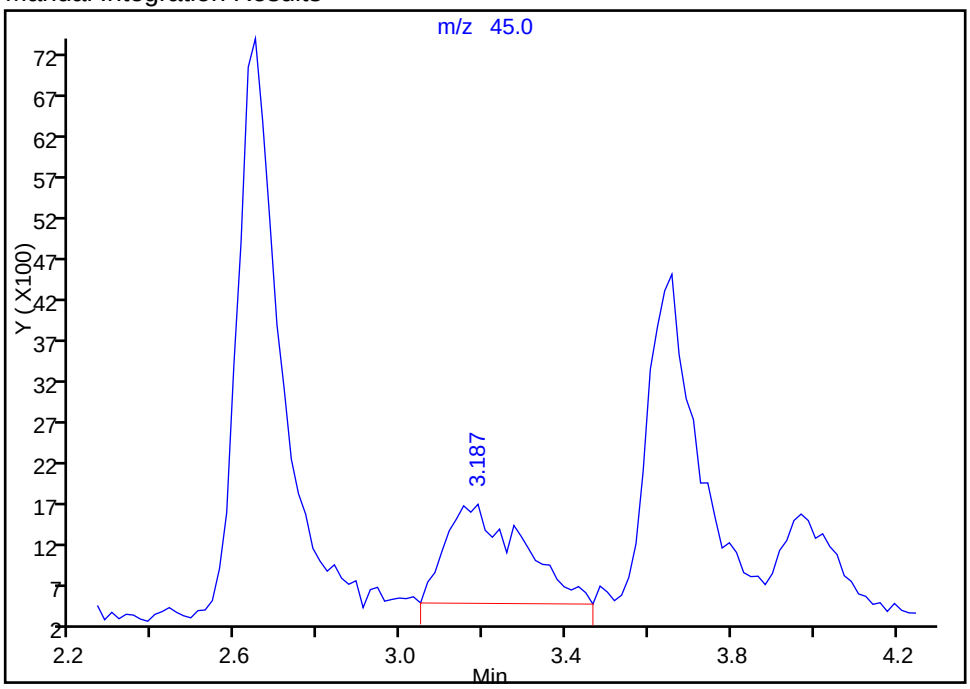
Processing Integration Results

RT: 3.19
Area: 16621
Amount: 245.7684
Amount Units: ug/l



Manual Integration Results

RT: 3.19
Area: 15621
Amount: 216.1921
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:52:31
Audit Action: Manually Integrated
Audit Reason: Shouldering

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2960.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-May-2015 04:25:30 ALS Bottle#: 14 Worklist Smp#: 19
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: icis
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:20 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:46:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.974	3.974	0.000	100	211144	250.0	250.0	
* 2 Fluorobenzene	96	6.759	6.759	0.000	98	1108417	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.094	11.094	0.000	93	256513	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.106	14.106	0.000	98	390191	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.924	5.924	0.000	93	546393	10.0	9.76	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.342	6.342	0.000	83	308839	10.0	9.96	
$ 10 Toluene-d8 (Surr)	98	8.883	8.883	0.000	95	1177961	10.0	9.41	
$ 11 4-Bromofluorobenzene (Surr	95	12.766	12.766	0.000	81	618356	10.0	9.26	
34 Ethylene oxide	43	2.633	2.633	0.000	99	1164009	2000.0	2139.2	
39 Ethanol	45	3.156	3.156	0.000	91	33859	500.0	518.5	
43 Propene oxide	58	3.295	3.295	0.000	95	1107446	500.0	533.0	
49 Isopropyl alcohol	45	3.626	3.626	0.000	95	62543	100.0	116.5	
51 Acetonitrile	41	3.817	3.817	0.000	99	81258	125.0	121.5	
62 Isopropyl ether	87	4.757	4.757	0.000	98	324780	12.5	12.7	
63 2-Chloro-1,3-butadiene	53	4.792	4.792	0.000	92	570915	10.0	9.76	
64 Tert-butyl ethyl ether	59	5.175	5.175	0.000	99	1272766	12.5	12.2	
69 Ethyl acetate	43	5.419	5.419	0.000	99	308502	20.0	21.9	
70 Propionitrile	54	5.454	5.454	0.000	98	130541	125.0	130.3	
72 Methacrylonitrile	41	5.610	5.610	0.000	97	925891	100.0	105.4	
83 Tert-amyl methyl ether	73	6.551	6.551	0.000	97	1058840	12.5	12.9	
85 n-Butanol	56	7.160	7.160	0.000	93	80688	250.0	275.7	
87 Ethyl acrylate	55	7.351	7.351	0.000	0	237833	NC	NC	
91 Methyl methacrylate	100	7.665	7.665	0.000	96	94799	20.0	19.3	
95 2-Nitropropane	41	8.187	8.187	0.000	97	68670	20.0	18.9	
107 Tetrahydrothiophene	60	10.119	10.119	0.000	71	109788	10.0	9.94	
119 cis-1,4-Dichloro-2-butene	53	12.661	12.661	0.000	93	75289	10.0	11.0	
135 1,2,3-Trimethylbenzene	105	14.193	14.193	0.000	99	1016440	10.0	9.74	
140 1,3,5-Trichlorobenzene	180	15.516	15.516	0.000	96	490488	10.0	9.54	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

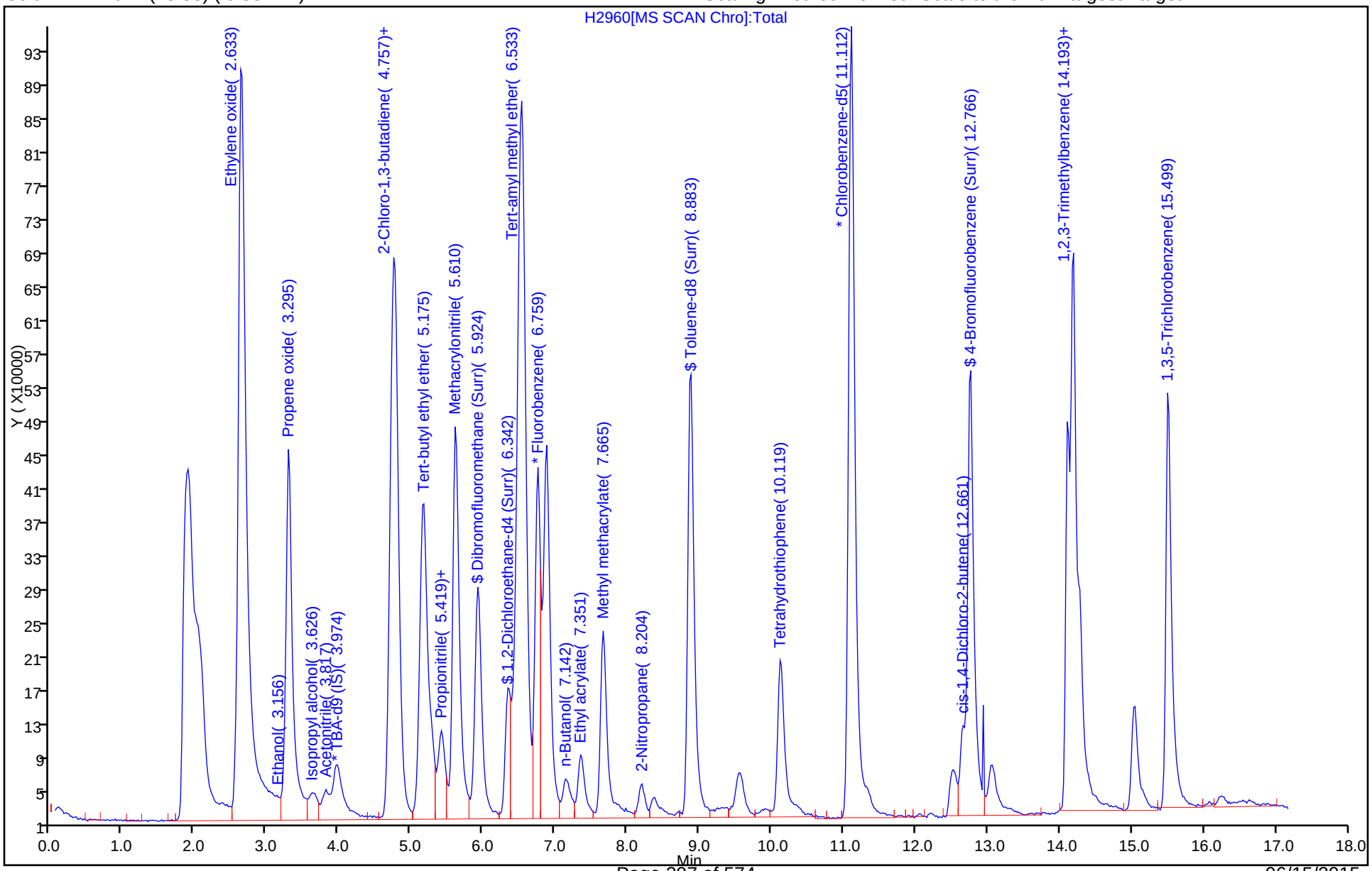
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Supp A_00011	Amount Added:	5.00	Units: uL
MV-ARCH SS A_00042	Amount Added:	0.80	Units: uL

Report Date: 28-May-2015 07:24:21 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2960.D				
Injection Date:	28-May-2015 04:25:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	icis			Worklist Smp#:	19
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2961.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-May-2015 04:48:30 ALS Bottle#: 15 Worklist Smp#: 20
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:22 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:49:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.975	3.974	0.001	99	193158	250.0	250.0	
* 2 Fluorobenzene	96	6.760	6.759	0.001	98	1119204	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.113	11.094	0.019	92	223366	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.107	14.106	0.001	98	396341	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.925	5.924	0.000	93	1592725	30.0	28.2	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.342	6.342	0.000	83	881719	30.0	28.2	
$ 10 Toluene-d8 (Surr)	98	8.884	8.883	0.001	95	3504937	30.0	32.2	
$ 11 4-Bromofluorobenzene (Surr	95	12.766	12.766	0.000	81	1920918	30.0	28.3	
34 Ethylene oxide	43	2.634	2.633	0.001	99	3313631	6000.0	6030.9	
39 Ethanol	45	3.122	3.156	-0.034	90	92015	1500.0	1472.0	
43 Propene oxide	58	3.296	3.295	0.001	95	3129672	1500.0	1491.7	
49 Isopropyl alcohol	45	3.626	3.626	0.000	45	156601	300.0	299.4	a
51 Acetonitrile	41	3.801	3.817	-0.016	97	239466	375.0	376.1	
62 Isopropyl ether	87	4.741	4.757	-0.016	99	949648	37.5	36.7	
63 2-Chloro-1,3-butadiene	53	4.793	4.792	0.001	92	1750155	30.0	29.6	
64 Tert-butyl ethyl ether	59	5.158	5.175	-0.017	99	3659958	37.5	34.8	
69 Ethyl acetate	43	5.402	5.419	-0.017	99	835914	60.0	58.9	
70 Propionitrile	54	5.437	5.454	-0.017	98	374048	375.0	369.8	
72 Methacrylonitrile	41	5.611	5.610	0.001	96	2645878	300.0	298.2	
83 Tert-amyl methyl ether	73	6.551	6.551	0.001	96	2980183	37.5	36.0	
85 n-Butanol	56	7.143	7.160	-0.017	94	237384	750.0	803.2	
87 Ethyl acrylate	55	7.352	7.351	0.001	0	693518	NC	NC	
91 Methyl methacrylate	100	7.665	7.665	0.000	95	277060	60.0	55.8	
95 2-Nitropropane	41	8.188	8.187	0.001	98	235853	60.0	64.4	
107 Tetrahydrothiophene	60	10.120	10.119	0.001	59	307294	30.0	31.9	
119 cis-1,4-Dichloro-2-butene	53	12.662	12.661	0.001	96	206859	30.0	29.6	
135 1,2,3-Trimethylbenzene	105	14.194	14.193	0.001	99	3206272	30.0	30.2	
140 1,3,5-Trichlorobenzene	180	15.500	15.516	-0.016	95	1552919	30.0	29.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

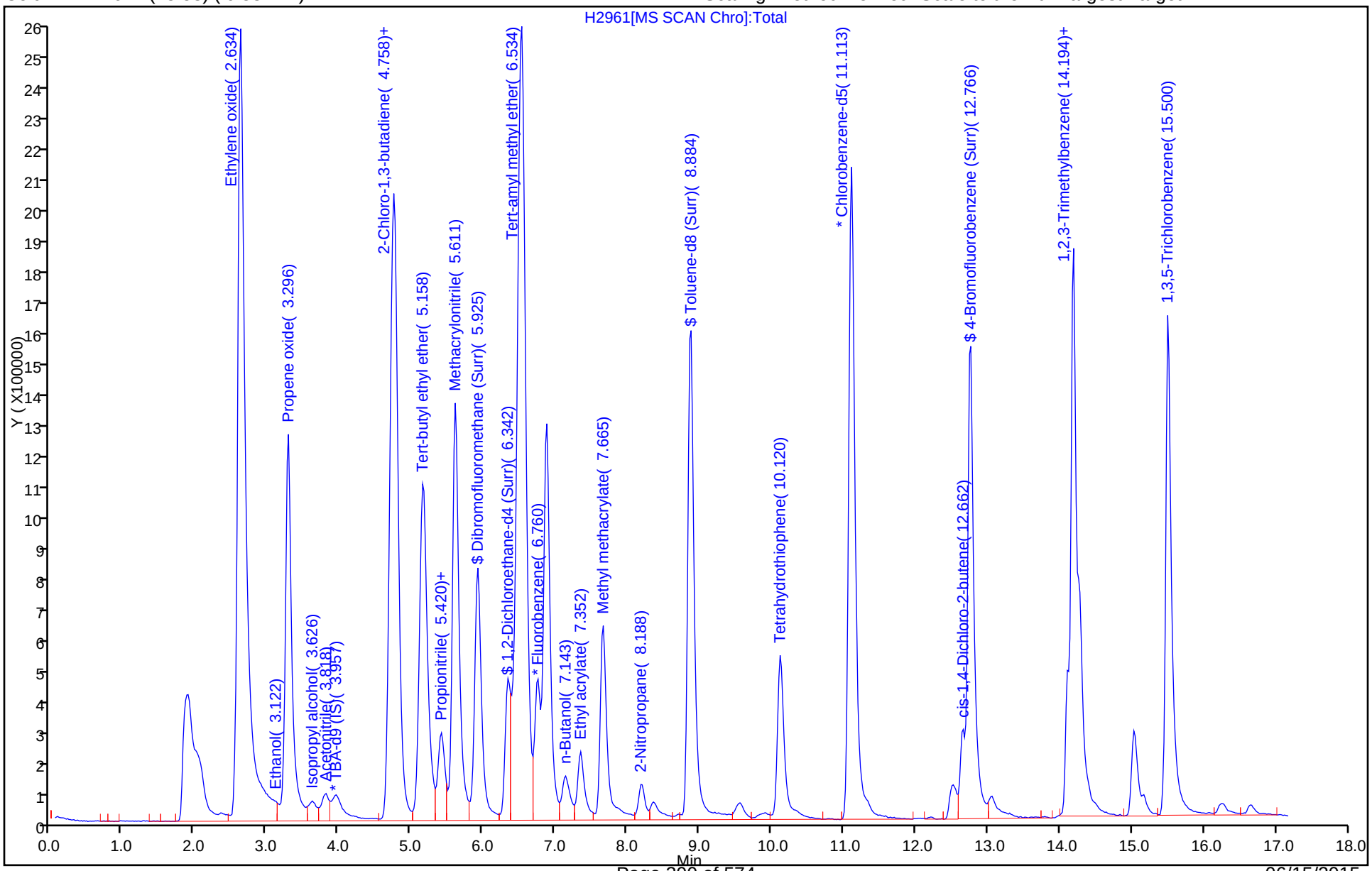
MV-568718-D_00002	Amount Added: 1.00	Units: uL
MV-Supp A_00011	Amount Added: 15.00	Units: uL
MV-ARCH SS A_00042	Amount Added: 2.40	Units: uL

Report Date: 28-May-2015 07:24:22 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2961.D				
Injection Date:	28-May-2015 04:48:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	20
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

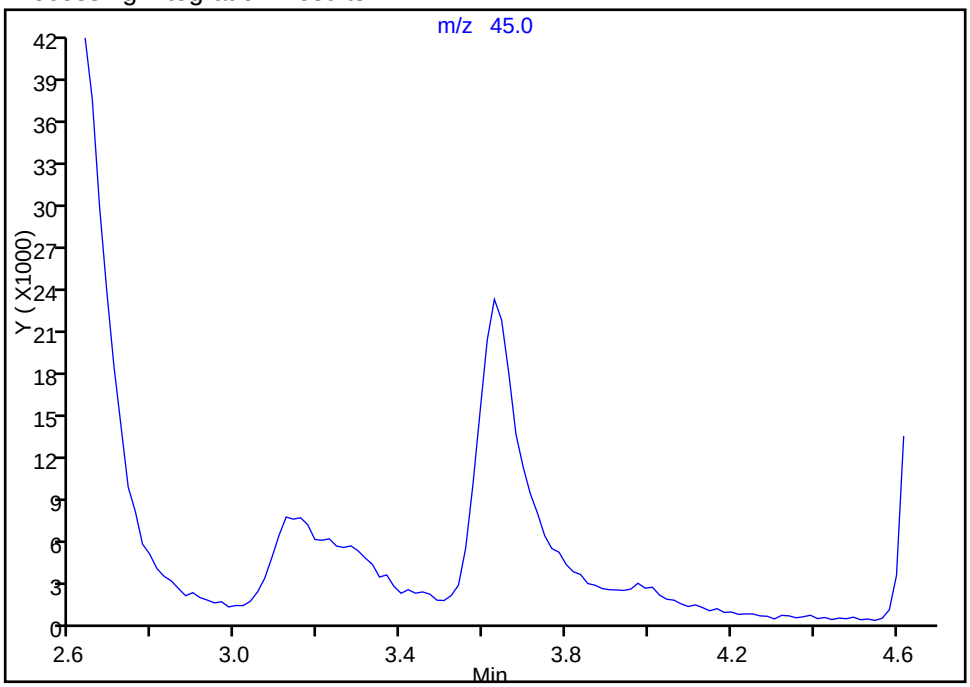
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2961.D				
Injection Date:	28-May-2015 04:48:30	Instrument ID:	VMS_H		
Lims ID:	ic				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	15	Worklist Smp#:	20
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

49 Isopropyl alcohol, CAS: 67-63-0

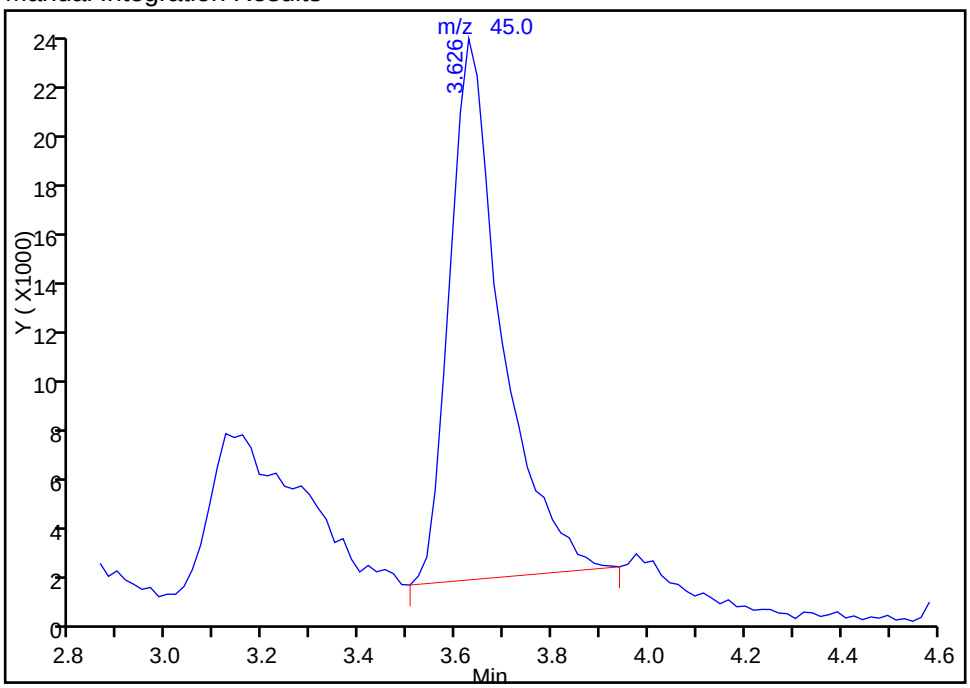
Not Detected
Expected RT: 3.63

Processing Integration Results



Manual Integration Results

RT: 3.63
Area: 156601
Amount: 299.4198
Amount Units: ug/l



Reviewer: wickhamt, 28-May-2015 06:49:25
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-May-2015 05:10:30 ALS Bottle#: 16 Worklist Smp#: 21
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: BERGERB Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub99

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:23 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:50:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.970	3.974	-0.004	98	188814	250.0	250.0	
* 2 Fluorobenzene	96	6.756	6.759	-0.003	98	1134348	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.108	11.094	0.014	93	259304	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.106	0.014	98	413886	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.920	5.924	-0.004	93	3238689	60.0	56.5	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.338	6.342	-0.004	83	1797526	60.0	56.6	
$ 10 Toluene-d8 (Surr)	98	8.880	8.883	-0.003	95	7087877	60.0	56.0	
$ 11 4-Bromofluorobenzene (Surr	95	12.762	12.766	-0.004	81	3915034	60.0	55.3	
34 Ethylene oxide	43	2.630	2.633	-0.003	99	6477092	12000	11631	
39 Ethanol	45	3.152	3.156	-0.004	91	200333	3000.0	3214.0	
43 Propene oxide	58	3.291	3.295	-0.004	95	6237685	3000.0	2933.5	
49 Isopropyl alcohol	45	3.640	3.626	0.014	98	312090	600.0	595.7	
51 Acetonitrile	41	3.814	3.817	-0.003	99	480531	750.0	755.6	
62 Isopropyl ether	87	4.754	4.757	-0.003	99	1898580	75.0	72.3	
63 2-Chloro-1,3-butadiene	53	4.789	4.792	-0.003	92	3499683	60.0	58.5	
64 Tert-butyl ethyl ether	59	5.172	5.175	-0.003	99	7387205	75.0	69.4	
69 Ethyl acetate	43	5.415	5.419	-0.004	99	1689137	120.0	117.4	
70 Propionitrile	54	5.450	5.454	-0.004	98	752658	750.0	734.2	
72 Methacrylonitrile	41	5.607	5.610	-0.003	96	5249270	600.0	583.8	
83 Tert-amyl methyl ether	73	6.547	6.551	-0.003	96	5944725	75.0	70.9	
85 n-Butanol	56	7.139	7.160	-0.021	94	479232	1500.0	1599.8	
87 Ethyl acrylate	55	7.348	7.351	-0.003	0	1402868	NC	NC	
91 Methyl methacrylate	100	7.661	7.665	-0.004	95	545200	120.0	108.4	
95 2-Nitropropane	41	8.201	8.187	0.014	97	474539	120.0	127.8	
107 Tetrahydrothiophene	60	10.116	10.119	-0.003	94	640849	60.0	57.4	
119 cis-1,4-Dichloro-2-butene	53	12.658	12.661	-0.003	93	412278	60.0	56.6	
135 1,2,3-Trimethylbenzene	105	14.190	14.193	-0.003	99	6472065	60.0	58.5	
140 1,3,5-Trichlorobenzene	180	15.513	15.516	-0.003	95	3310308	60.0	60.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

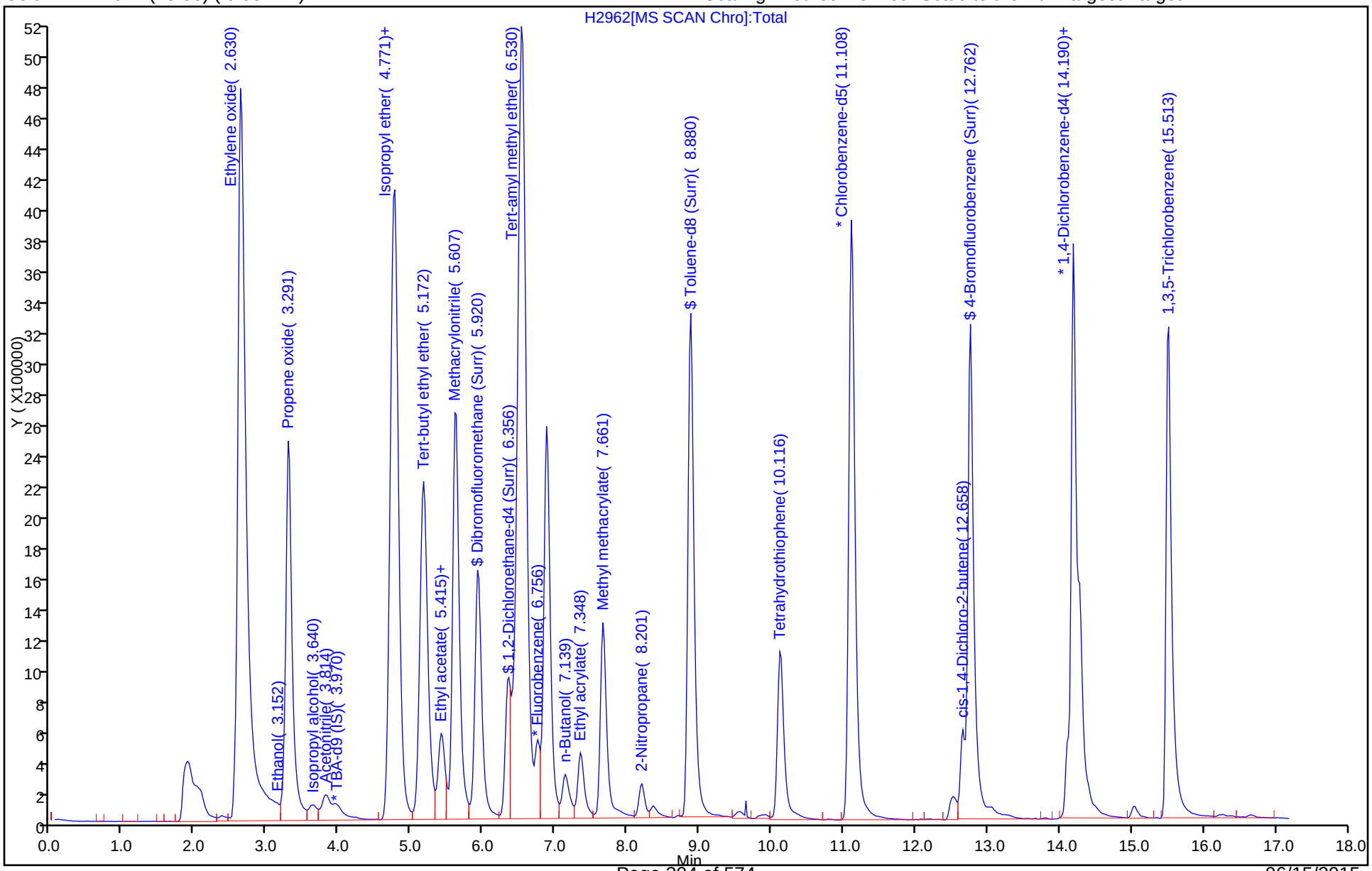
MV-568718-D_00002	Amount Added: 1.00	Units: uL
MV-Supp A_00011	Amount Added: 30.00	Units: uL
MV-ARCH SS A_00042	Amount Added: 4.80	Units: uL

Report Date: 28-May-2015 07:24:23 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D				
Injection Date:	28-May-2015 05:10:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	ic			Worklist Smp#:	21
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 275091

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/29/2015 15:01 Calibration End Date: 04/29/2015 17:21 Calibration ID: 22162

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-275091/11	J6305.D
Level 2	STD002 280-275091/12	J6306.D
Level 3	STD005 280-275091/13	J6307.D
Level 4	STD010 280-275091/14	J6308.D
Level 5	STD020 280-275091/15	J6309.D
Level 6	ICIS 280-275091/16	J6310.D
Level 7	STD100 280-275091/17	J6311.D
Level 8	STD200 280-275091/18	J6312.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.0792	0.2118 0.0695	0.1058 0.0673	0.0653	0.0680	Lin1	11.375	0.0665							0.9910		0.9900
Isopropyl alcohol	+++++ 0.7084	+++++ 0.6305	0.6816 0.6837	0.6303	0.6277	Ave		0.6604				5.3		15.0			
Acetonitrile	+++++ 0.0362	0.0485 0.0358	0.0321 0.0329	0.0312	0.0299	Lin1	0.1491	0.0337							0.9960		0.9900
Isopropyl ether	+++++ 0.2435	0.2384 0.2310	0.2204 0.2170	0.2130	0.2087	Ave		0.2246				5.9		15.0			
2-Chloro-1,3-butadiene	+++++ 0.5897	0.5349 0.5615	0.5288 0.5304	0.5043	0.5148	Ave		0.5378				5.4		15.0			
Tert-butyl ethyl ether	1.3415 1.0865	1.0242 1.0410	0.9526 0.9989	0.9342	0.9339	Ave		1.0391				12.9		15.0			
Ethyl acetate	+++++ 0.2508	0.3528 0.2584	0.2695 0.2360	0.2410	0.2273	Lin2	0.4442	0.2342							0.9950		0.9900
Propionitrile	+++++ 0.0407	0.0415 0.0414	0.0371 0.0374	0.0348	0.0359	Ave		0.0384				7.2		15.0			
Methacrylonitrile	+++++ 0.1947	0.1950 0.1943	0.1887 0.1673	0.1761	0.1757	Ave		0.1845				6.2		15.0			
Tert-amyl methyl ether	1.1128 0.9321	0.8707 0.9089	0.8456 0.8555	0.8290	0.8117	Ave		0.8958				10.7		15.0			
n-Butanol	+++++ 0.3637	0.5566 0.3200	0.3738 0.3220	0.3331	0.3221	Lin2	11.370	0.3127							0.9910		0.9900
Methyl methacrylate	+++++ 0.0924	0.0887 0.0945	0.0846 0.0876	0.0832	0.0813	Ave		0.0875				5.5		15.0			
2-Nitropropane	+++++ 0.1138	0.1258 0.1172	0.1049 0.1091	0.1002	0.0982	Ave		0.1099				8.9		15.0			
cis-1,4-Dichloro-2-butene	0.4104 0.3186	0.3047 0.3153	0.2969 0.2881	0.2869	0.2800	Ave		0.3126				13.4		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 Denver Job No.: 280-69452-1 Analy Batch No.: 275091

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/29/2015 15:01 Calibration End Date: 04/29/2015 17:21 Calibration ID: 22162

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 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	3.6115 2.9310	2.8408 2.8012	2.6293 2.6115	2.6175	2.5295	Ave		2.8215				12.3		15.0			
Dibromofluoromethane (Surr)	+++++ 0.3734	+++++ 0.3765	0.3713 0.3681	0.3514	0.3630	Ave		0.3673				2.5		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.4263	+++++ 0.4276	0.4065 0.4171	0.4048	0.4078	Ave		0.4150				2.5		15.0			
Toluene-d8 (Surr)	+++++ 3.9762	+++++ 3.8687	4.0149 3.6487	3.8640	3.7742	Ave		3.8578				3.5		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.0919	+++++ 1.0650	1.0931 0.9989	1.0875	1.0603	Ave		1.0661				3.4		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 275091

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/29/2015 15:01 Calibration End Date: 04/29/2015 17:21 Calibration ID: 22162

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-275091/11	J6305.D
Level 2	STD002 280-275091/12	J6306.D
Level 3	STD005 280-275091/13	J6307.D
Level 4	STD010 280-275091/14	J6308.D
Level 5	STD020 280-275091/15	J6309.D
Level 6	ICIS 280-275091/16	J6310.D
Level 7	STD100 280-275091/17	J6311.D
Level 8	STD200 280-275091/18	J6312.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	TBA	Lin1	+++++ 145740	17554 279499	20626 495819	24736	49921	+++++ 2500	100 5000	250 10000	500	1000
Isopropyl alcohol	TBA	Ave	+++++ 260690	+++++ 507160	26575 1007868	47736	92214	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Lin1	+++++ 524711	28005 1029480	45750 1913568	91416	173761	+++++ 625	25.0 1250	62.5 2500	125	250
Isopropyl ether	FB	Ave	+++++ 353203	13778 664731	31418 1263934	62428	121409	+++++ 62.5	2.50 125	6.25 250	12.5	25.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 684437	24730 1292920	60294 2471323	118220	239596	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	38077 1576203	59183 2996235	135775 5817784	273742	543348	1.25 62.5	2.50 125	6.25 250	12.5	25.0
Ethyl acetate	FB	Lin2	+++++ 582184	32620 1190172	61453 2198974	112980	211539	+++++ 100	4.00 200	10.0 400	20.0	40.0
Propionitrile	FB	Ave	+++++ 589886	23988 1192781	52943 2178968	101991	208796	+++++ 625	25.0 1250	62.5 2500	125	250
Methacrylonitrile	FB	Ave	+++++ 2259765	90154 4474995	215112 7794534	412742	817686	+++++ 500	20.0 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	31587 1352279	50312 2616117	120515 4982219	242930	472221	1.25 62.5	2.50 125	6.25 250	12.5	25.0
n-Butanol	TBA	Lin2	+++++ 334589	23063 643410	36432 1186606	63070	118296	+++++ 1250	50.0 2500	125 5000	250	500
Methyl methacrylate	FB	Ave	+++++ 214593	8199 435234	19289 816289	39025	75724	+++++ 100	4.00 200	10.0 400	20.0	40.0
2-Nitropropane	FB	Ave	+++++ 264060	11635 539558	23920 1016301	46994	91422	+++++ 100	4.00 200	10.0 400	20.0	40.0
cis-1,4-Dichloro-2-butene	DCB	Ave	4186 171183	6436 346187	15880 637747	31235	60202	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCB	Ave	36835 1574740	59996 3075089	140621 5781445	284926	543829	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 275091

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/29/2015 15:01 Calibration End Date: 04/29/2015 17:21 Calibration ID: 22162

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dibromofluoromethane (Surr)	FB	Ave	+++++ 433404	+++++ 866968	42335 1715177	82373	168960	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 494813	+++++ 984596	46355 1943581	94904	189780	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 1400684	+++++ 2760939	137024 5214777	270820	532998	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCB	Ave	+++++ 586648	+++++ 1169098	58458 2211318	118379	227969	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6305.D
Lims ID: STD001
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2015 15:01:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD001
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:28 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: dukesa Date: 29-Apr-2015 16:31:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.733	5.733	0.000	100	869952	1000.0	1000.0	
* 1 Fluorobenzene	96	7.735	7.735	0.000	98	1135389	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.015	0.000	92	331778	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.895	11.895	0.000	98	509962	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.178	7.178	0.000	91	11509	1.00	1.38	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.474	7.474	0.000	98	14322	1.00	1.52	
$ 7 Toluene-d8 (Surr)	98	8.918	8.918	0.000	94	36786	1.00	1.44	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.903	0.000	79	17155	1.00	1.58	
24 Chlorotrifluoroethene	116	3.940	3.940	0.000	82	1753	1.00	4.64	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.131	4.131	0.000	93	10635	1.00	3.71	
29 2-Chloro-1,1,1-Trifluoroet	118	4.410	4.410	0.000	22	6819	1.00	1.42	
30 Ethylene oxide	43	4.671	4.671	0.000	99	73520	200.0	296.7	
35 Ethanol	45	5.071	5.071	0.000	21	4616	50.0	-91.3	
36 1,2-Dichloro-1,1,2-trifluo	117	5.193	5.193	0.000	87	5994	1.00	1.01	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.245	5.245	0.000	95	9757	1.00	0.8868	
39 Propene oxide	58	5.315	5.315	0.000	83	64879	50.0	52.4	
44 Isopropyl alcohol	45	5.472	5.472	0.000	82	16819	10.0	29.3	
47 Acetonitrile	41	5.698	5.698	0.000	30	20277	12.5	22.1	
58 Isopropyl ether	87	6.342	6.342	0.000	97	8873	1.25	1.74	
60 2-Chloro-1,3-butadiene	53	6.464	6.464	0.000	93	15914	1.00	1.30	
61 Tert-butyl ethyl ether	59	6.621	6.621	0.000	98	38077	1.25	1.61	
62 Ethyl acetate	43	6.760	6.760	0.000	95	26792	2.00	3.14	
66 Propionitrile	54	6.847	6.847	0.000	98	15626	12.5	17.9	
68 Methacrylonitrile	41	6.969	6.969	0.000	96	60515	10.0	14.4	
78 Tert-amyl methyl ether	73	7.543	7.543	0.000	91	31587	1.25	1.55	
80 n-Butanol	56	7.735	7.735	0.000	41	18895	25.0	33.1	
83 Methyl methacrylate	100	8.152	8.152	0.000	91	5410	2.00	2.72	
90 2-Nitropropane	41	8.518	8.518	0.000	98	6488	2.00	2.60	
101 Tetrahydrothiophene	60		9.613				ND	ND	
112 cis-1,4-Dichloro-2-butene	53	10.781	10.781	0.000	91	4186	1.00	1.31	
127 1,2,3-Trimethylbenzene	105	11.912	11.912	0.000	97	36835	1.00	1.28	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
16 1,3,5-Trichlorobenzene	180	13.270	13.270	0.000	94	13360	1.00	1.19	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

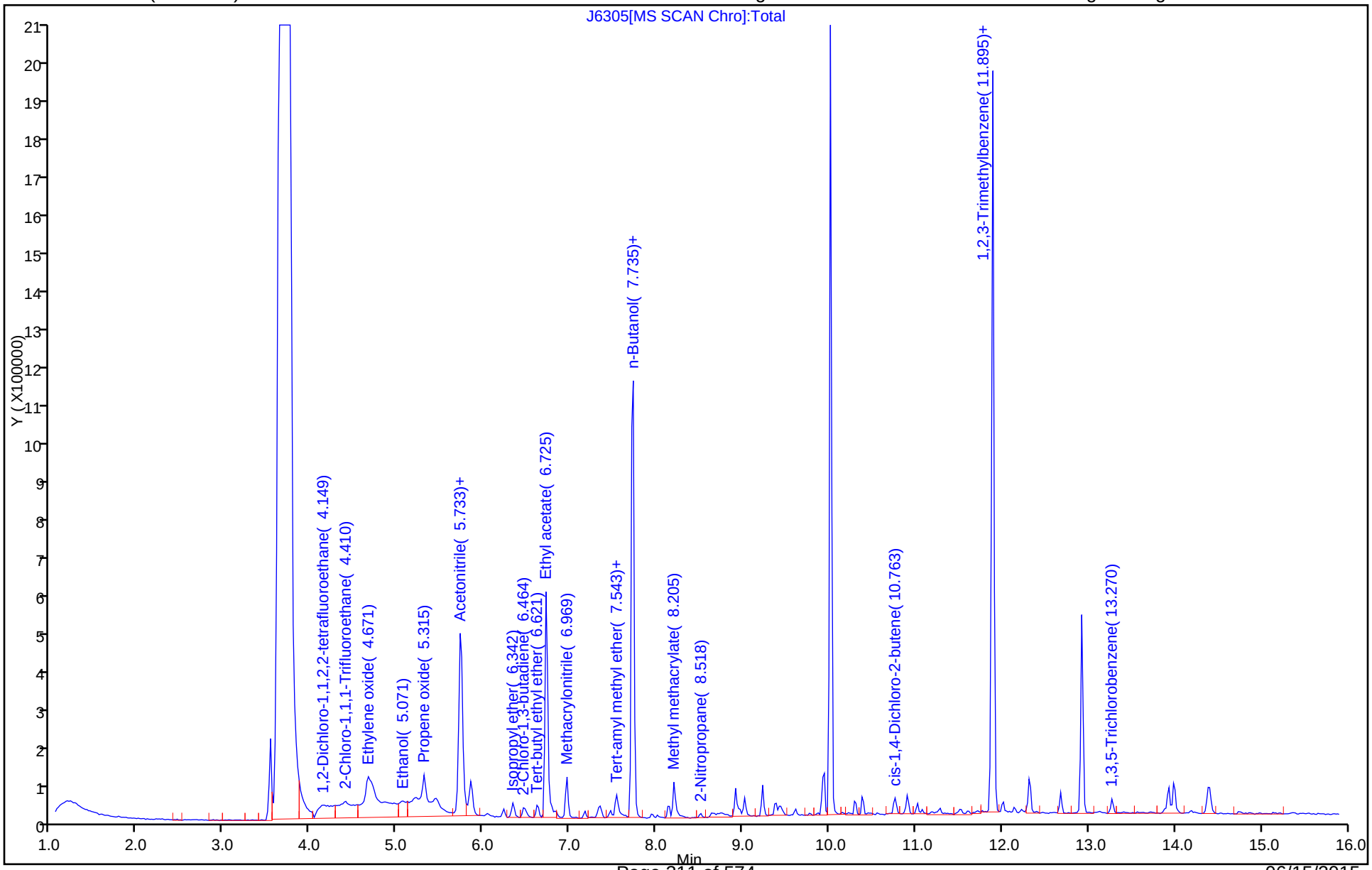
MV-Supp A_00011	Amount Added:	0.13	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	0.02	Units: uL
Freon_A_00005	Amount Added:	0.13	Units: uL

Report Date: 29-Apr-2015 18:07:29 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6305.D				
Injection Date:	29-Apr-2015 15:01:30	Instrument ID:	VMS_J	Operator ID:	MEIERG
Lims ID:	STD001			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6306.D
Lims ID: STD002
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Apr-2015 15:21:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD002
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:29 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.748	5.748	0.000	100	828779	1000.0	1000.0	
* 1 Fluorobenzene	96	7.732	7.732	0.000	97	1155725	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.013	10.013	0.000	93	340198	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.893	11.893	0.000	97	527985	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.175	7.175	0.000	91	18282	2.00	2.15	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.471	7.471	0.000	99	19948	2.00	2.08	
$ 7 Toluene-d8 (Surr)	98	8.916	8.916	0.000	95	58108	2.00	2.21	
$ 8 4-Bromofluorobenzene (Surr	95	10.901	10.901	0.000	83	26087	2.00	2.32	
24 Chlorotrifluoroethene	116	3.938	3.938	0.000	90	3509	2.00	5.05	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.147	4.147	0.000	94	13616	2.00	4.12	
29 2-Chloro-1,1,1-Trifluoroet	118	4.408	4.408	0.000	38	11210	2.00	2.30	
30 Ethylene oxide	43	4.669	4.669	0.000	100	123437	400.0	489.3	
35 Ethanol	45	5.069	5.069	0.000	66	17554	100.0	147.4	
36 1,2-Dichloro-1,1,2-trifluo	117	5.208	5.208	0.000	87	11926	2.00	1.97	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.243	5.243	0.000	96	25123	2.00	2.24	
39 Propene oxide	58	5.330	5.330	0.000	88	121293	100.0	96.2	
44 Isopropyl alcohol	45	5.487	5.487	0.000	92	16514	20.0	30.2	
47 Acetonitrile	41	5.713	5.713	0.000	25	28005	25.0	31.5	
58 Isopropyl ether	87	6.357	6.357	0.000	95	13778	2.50	2.65	
60 2-Chloro-1,3-butadiene	53	6.479	6.479	0.000	93	24730	2.00	1.99	
61 Tert-butyl ethyl ether	59	6.636	6.636	0.000	98	59183	2.50	2.46	
62 Ethyl acetate	43	6.775	6.775	0.000	95	32620	4.00	4.13	
66 Propionitrile	54	6.845	6.845	0.000	97	23988	25.0	27.0	
68 Methacrylonitrile	41	6.967	6.967	0.000	96	90154	20.0	21.1	
78 Tert-amyl methyl ether	73	7.541	7.541	0.000	95	50312	2.50	2.43	
80 n-Butanol	56	7.750	7.750	0.000	38	23063	50.0	52.6	
83 Methyl methacrylate	100	8.150	8.150	0.000	91	8199	4.00	4.05	
90 2-Nitropropane	41	8.516	8.516	0.000	98	11635	4.00	4.58	
101 Tetrahydrothiophene	60	9.612	9.612	0.000	58	12394	2.00	1.92	
112 cis-1,4-Dichloro-2-butene	53	10.779	10.779	0.000	90	6436	2.00	1.95	
127 1,2,3-Trimethylbenzene	105	11.910	11.910	0.000	97	59996	2.00	2.01	
16 1,3,5-Trichlorobenzene	180	13.268	13.268	0.000	95	23108	2.00	1.98	

Reagents:

MV-Supp A_00011	Amount Added:	0.25	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	0.04	Units: uL
Freon_A_00005	Amount Added:	0.25	Units: uL

Report Date: 29-Apr-2015 18:07:29 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6306.D

Injection Date: 29-Apr-2015 15:21:30 Instrument ID: VMS_J Operator ID: MEIERG

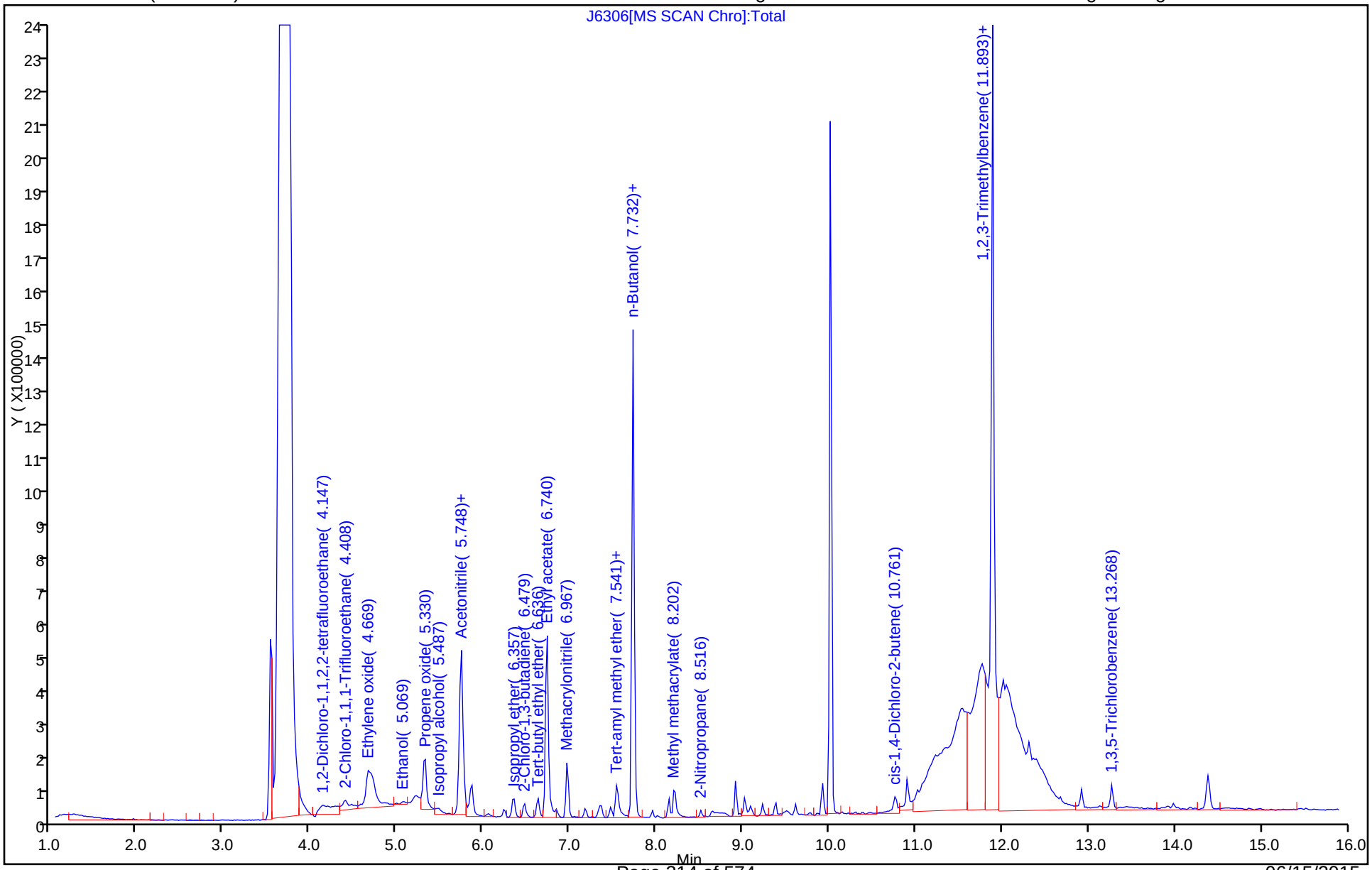
Lims ID: STD002 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6307.D
Lims ID: STD005
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Apr-2015 15:41:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD005
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:30 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.746	5.746	0.000	100	779774	1000.0	1000.0	
* 1 Fluorobenzene	96	7.730	7.730	0.000	97	1140222	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.011	10.011	0.000	94	341289	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.891	11.891	0.000	98	534814	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.173	7.173	0.000	92	42335	5.00	5.05	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.469	7.469	0.000	98	46355	5.00	4.90	
$ 7 Toluene-d8 (Surr)	98	8.914	8.914	0.000	95	137024	5.00	5.20	
$ 8 4-Bromofluorobenzene (Surr	95	10.899	10.899	0.000	87	58458	5.00	5.13	
24 Chlorotrifluoroethene	116	3.936	3.936	0.000	97	9141	5.00	6.42	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.145	4.145	0.000	96	26155	5.00	5.98	
29 2-Chloro-1,1,1-Trifluoroet	118	4.406	4.406	0.000	36	23398	5.00	4.86	
30 Ethylene oxide	43	4.684	4.684	0.000	98	267917	1000.0	1076.5	
35 Ethanol	45	5.067	5.067	0.000	79	20626	250.0	226.7	
36 1,2-Dichloro-1,1,2-trifluo	117	5.206	5.206	0.000	95	29108	5.00	4.88	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.241	5.241	0.000	96	54785	5.00	4.96	
39 Propene oxide	58	5.328	5.328	0.000	91	359542	250.0	289.2	
44 Isopropyl alcohol	45	5.485	5.485	0.000	93	26575	50.0	51.6	
47 Acetonitrile	41	5.711	5.711	0.000	95	45750	62.5	55.1	
58 Isopropyl ether	87	6.355	6.355	0.000	96	31418	6.25	6.13	
60 2-Chloro-1,3-butadiene	53	6.477	6.477	0.000	95	60294	5.00	4.92	
61 Tert-butyl ethyl ether	59	6.634	6.634	0.000	98	135775	6.25	5.73	
62 Ethyl acetate	43	6.773	6.773	0.000	97	61453	10.0	9.61	
66 Propionitrile	54	6.843	6.843	0.000	99	52943	62.5	60.4	
68 Methacrylonitrile	41	6.965	6.965	0.000	96	215112	50.0	51.1	
78 Tert-amyl methyl ether	73	7.539	7.539	0.000	96	120515	6.25	5.90	
80 n-Butanol	56	7.748	7.748	0.000	87	36432	125.0	113.1	
83 Methyl methacrylate	100	8.148	8.148	0.000	92	19289	10.0	9.67	
90 2-Nitropropane	41	8.514	8.514	0.000	97	23920	10.0	9.55	
101 Tetrahydrothiophene	60	9.610	9.610	0.000	58	31462	5.00	4.85	
112 cis-1,4-Dichloro-2-butene	53	10.777	10.777	0.000	91	15880	5.00	4.75	
127 1,2,3-Trimethylbenzene	105	11.908	11.908	0.000	98	140621	5.00	4.66	
16 1,3,5-Trichlorobenzene	180	13.266	13.266	0.000	95	53937	5.00	4.57	

Reagents:

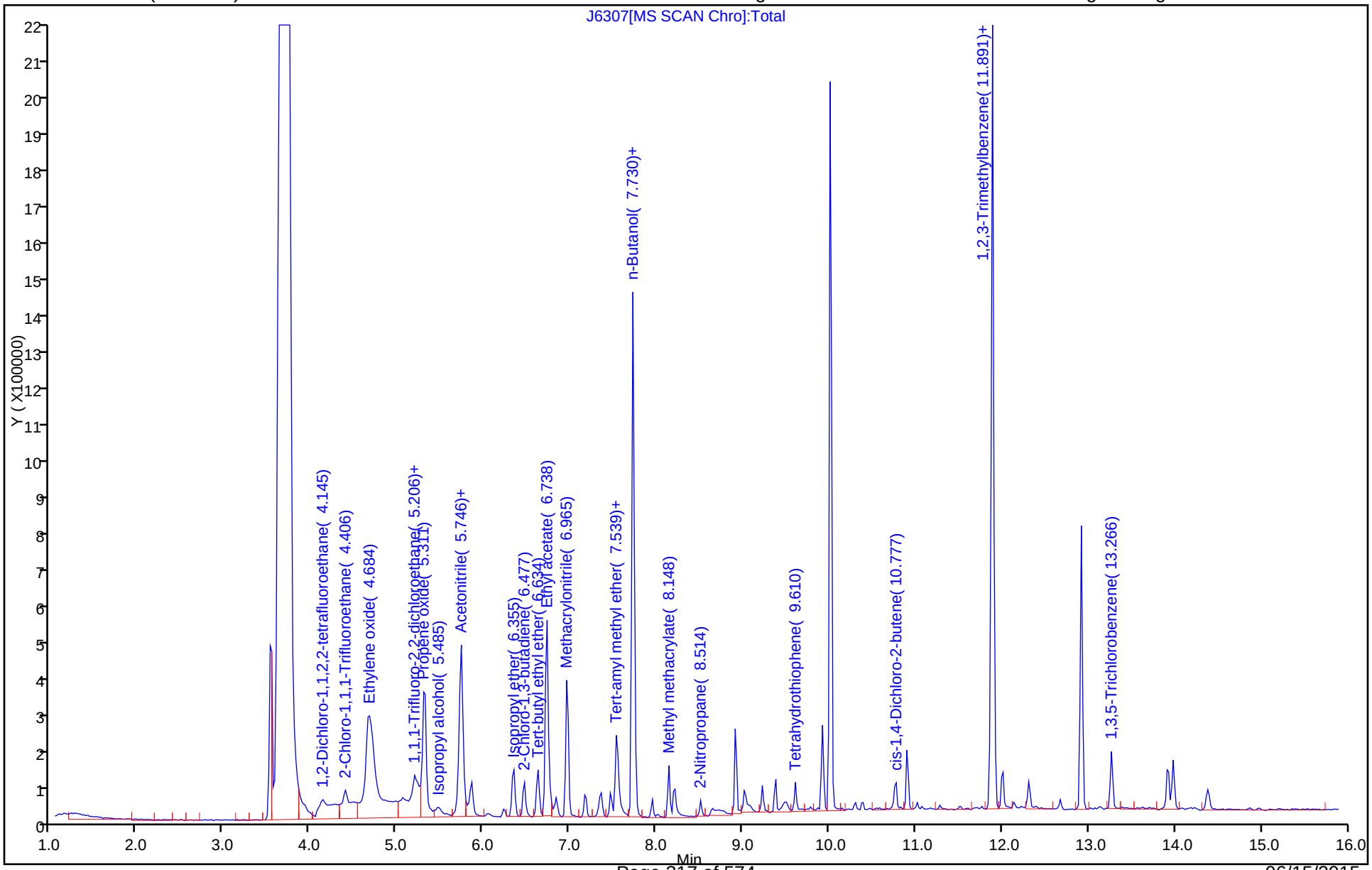
MV-Supp A_00011	Amount Added:	0.63	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	0.10	Units: uL
Freon_A_00005	Amount Added:	0.63	Units: uL

Report Date: 29-Apr-2015 18:07:30 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6307.D				
Injection Date:	29-Apr-2015 15:41:30	Instrument ID:	VMS_J	Operator ID:	MEIERG
Lims ID:	STD005			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6308.D
Lims ID: STD010
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2015 16:01:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD010
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:31 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.746	5.746	0.000	100	757363	1000.0	1000.0	
* 1 Fluorobenzene	96	7.731	7.731	0.000	99	1172110	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.011	10.011	0.000	94	350442	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.891	11.891	0.000	98	544265	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.174	7.174	0.000	92	82373	10.0	9.57	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.470	7.470	0.000	98	94904	10.0	9.75	
$ 7 Toluene-d8 (Surr)	98	8.914	8.914	0.000	94	270820	10.0	10.0	
$ 8 4-Bromofluorobenzene (Surr	95	10.899	10.899	0.000	88	118379	10.0	10.2	
24 Chlorotrifluoroethene	116	3.936	3.936	0.000	96	20646	10.0	9.05	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.145	4.145	0.000	97	49113	10.0	9.15	
29 2-Chloro-1,1,1-Trifluoroet	118	4.406	4.406	0.000	38	44191	10.0	8.93	
30 Ethylene oxide	43	4.667	4.667	0.000	99	528669	2000.0	2066.4	
35 Ethanol	45	5.068	5.068	0.000	88	24736	500.0	320.1	
36 1,2-Dichloro-1,1,2-trifluo	117	5.207	5.207	0.000	96	57159	10.0	9.32	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.242	5.242	0.000	97	107226	10.0	9.44	
39 Propene oxide	58	5.311	5.311	0.000	90	670185	500.0	524.4	
44 Isopropyl alcohol	45	5.485	5.485	0.000	97	47736	100.0	95.4	
47 Acetonitrile	41	5.712	5.712	0.000	97	91416	125.0	111.3	
58 Isopropyl ether	87	6.356	6.356	0.000	96	62428	12.5	11.9	
60 2-Chloro-1,3-butadiene	53	6.477	6.477	0.000	95	118220	10.0	9.38	
61 Tert-butyl ethyl ether	59	6.634	6.634	0.000	98	273742	12.5	11.2	
62 Ethyl acetate	43	6.773	6.773	0.000	98	112980	20.0	18.7	
66 Propionitrile	54	6.843	6.843	0.000	98	101991	125.0	113.3	
68 Methacrylonitrile	41	6.965	6.965	0.000	97	412742	100.0	95.4	
78 Tert-amyl methyl ether	73	7.539	7.539	0.000	96	242930	12.5	11.6	
80 n-Butanol	56	7.748	7.748	0.000	92	63070	250.0	230.0	
83 Methyl methacrylate	100	8.149	8.149	0.000	91	39025	20.0	19.0	
90 2-Nitropropane	41	8.514	8.514	0.000	98	46994	20.0	18.2	
101 Tetrahydrothiophene	60	9.611	9.611	0.000	58	61454	10.0	9.23	
112 cis-1,4-Dichloro-2-butene	53	10.777	10.777	0.000	91	31235	10.0	9.18	
127 1,2,3-Trimethylbenzene	105	11.908	11.908	0.000	99	284926	10.0	9.28	
16 1,3,5-Trichlorobenzene	180	13.266	13.266	0.000	95	112227	10.0	9.34	

Reagents:

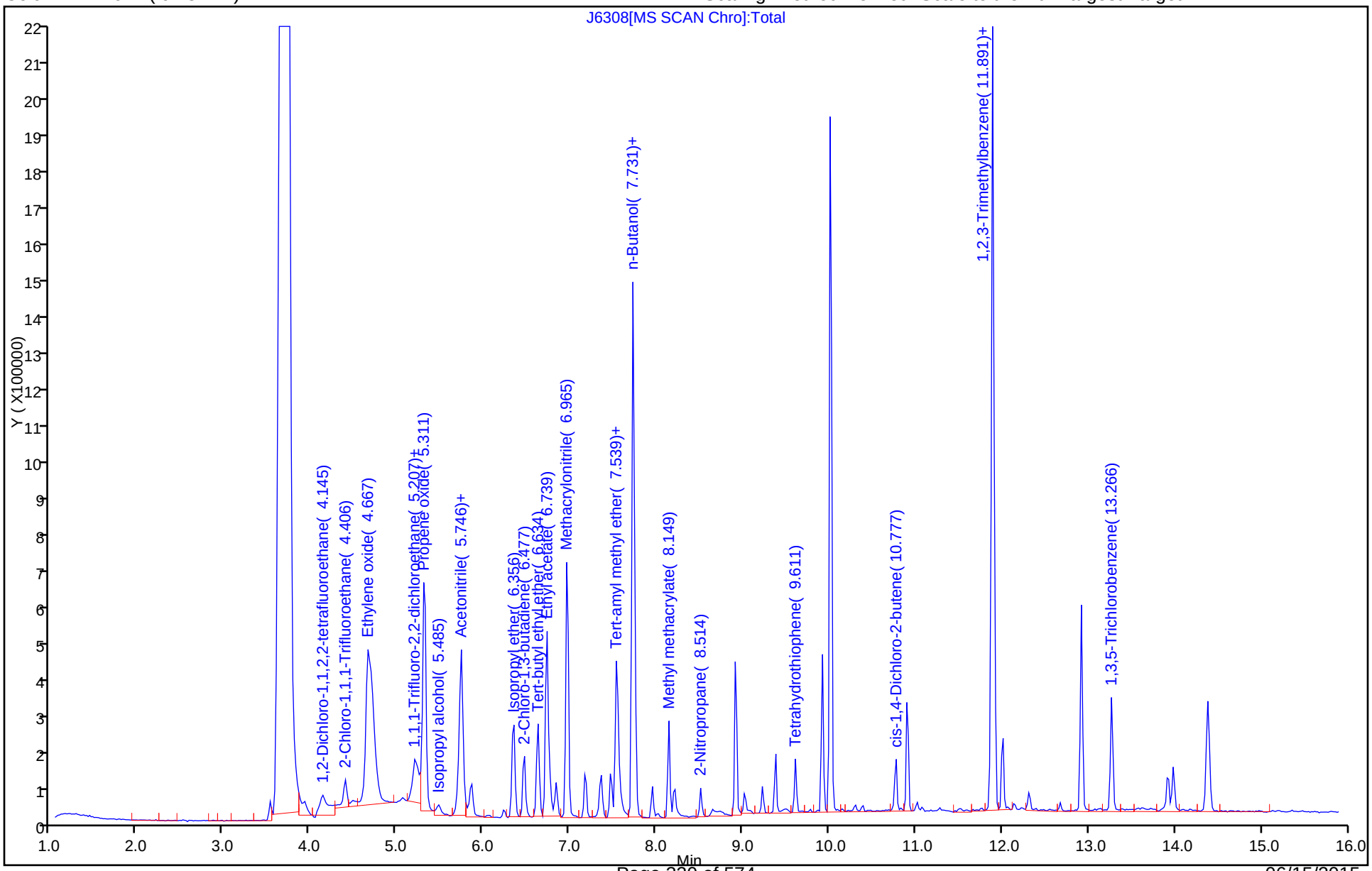
MV-Supp A_00011	Amount Added:	1.25	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	0.20	Units: uL
Freon_A_00005	Amount Added:	1.25	Units: uL

Report Date: 29-Apr-2015 18:07:31 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6308.D				
Injection Date:	29-Apr-2015 16:01:30	Instrument ID:	VMS_J	Operator ID:	MEIERG
Lims ID:	STD010			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6309.D
Lims ID: STD020
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Apr-2015 16:21:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD020
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:31 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.746	5.746	0.000	100	734578	1000.0	1000.0	
* 1 Fluorobenzene	96	7.730	7.730	0.000	98	1163570	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.011	10.011	0.000	94	353053	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.891	11.891	0.000	98	537491	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.173	7.173	0.000	92	168960	20.0	19.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.469	7.469	0.000	98	189780	20.0	19.6	
$ 7 Toluene-d8 (Surr)	98	8.914	8.914	0.000	94	532998	20.0	19.6	
$ 8 4-Bromofluorobenzene (Surr	95	10.898	10.898	0.000	86	227969	20.0	19.9	
24 Chlorotrifluoroethene	116	3.936	3.936	0.000	97	45492	20.0	15.0	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.145	4.145	0.000	97	99532	20.0	16.4	
29 2-Chloro-1,1,1-Trifluoroet	118	4.406	4.406	0.000	39	85027	20.0	17.3	
30 Ethylene oxide	43	4.684	4.684	0.000	98	905261	4000.0	3564.4	
35 Ethanol	45	5.067	5.067	0.000	93	49921	1000.0	850.8	
36 1,2-Dichloro-1,1,2-trifluo	117	5.206	5.206	0.000	95	113827	20.0	18.7	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.241	5.241	0.000	96	214404	20.0	19.0	
39 Propene oxide	58	5.311	5.311	0.000	88	1302394	1000.0	1026.5	
44 Isopropyl alcohol	45	5.485	5.485	0.000	97	92214	200.0	190.1	
47 Acetonitrile	41	5.711	5.711	0.000	98	173761	250.0	217.2	
58 Isopropyl ether	87	6.355	6.355	0.000	96	121409	25.0	23.2	
60 2-Chloro-1,3-butadiene	53	6.477	6.477	0.000	95	239596	20.0	19.1	
61 Tert-butyl ethyl ether	59	6.634	6.634	0.000	98	543348	25.0	22.5	
62 Ethyl acetate	43	6.773	6.773	0.000	99	211539	40.0	36.9	
66 Propionitrile	54	6.843	6.843	0.000	97	208796	250.0	233.6	
68 Methacrylonitrile	41	6.965	6.965	0.000	97	817686	200.0	190.4	
78 Tert-amyl methyl ether	73	7.539	7.539	0.000	96	472221	25.0	22.7	
80 n-Butanol	56	7.748	7.748	0.000	87	118296	500.0	478.7	
83 Methyl methacrylate	100	8.148	8.148	0.000	91	75724	40.0	37.2	
90 2-Nitropropane	41	8.514	8.514	0.000	99	91422	40.0	35.8	
101 Tetrahydrothiophene	60	9.610	9.610	0.000	57	127811	20.0	19.1	
112 cis-1,4-Dichloro-2-butene	53	10.777	10.777	0.000	92	60202	20.0	17.9	
127 1,2,3-Trimethylbenzene	105	11.908	11.908	0.000	99	543829	20.0	17.9	
16 1,3,5-Trichlorobenzene	180	13.266	13.266	0.000	95	222200	20.0	18.7	

Reagents:

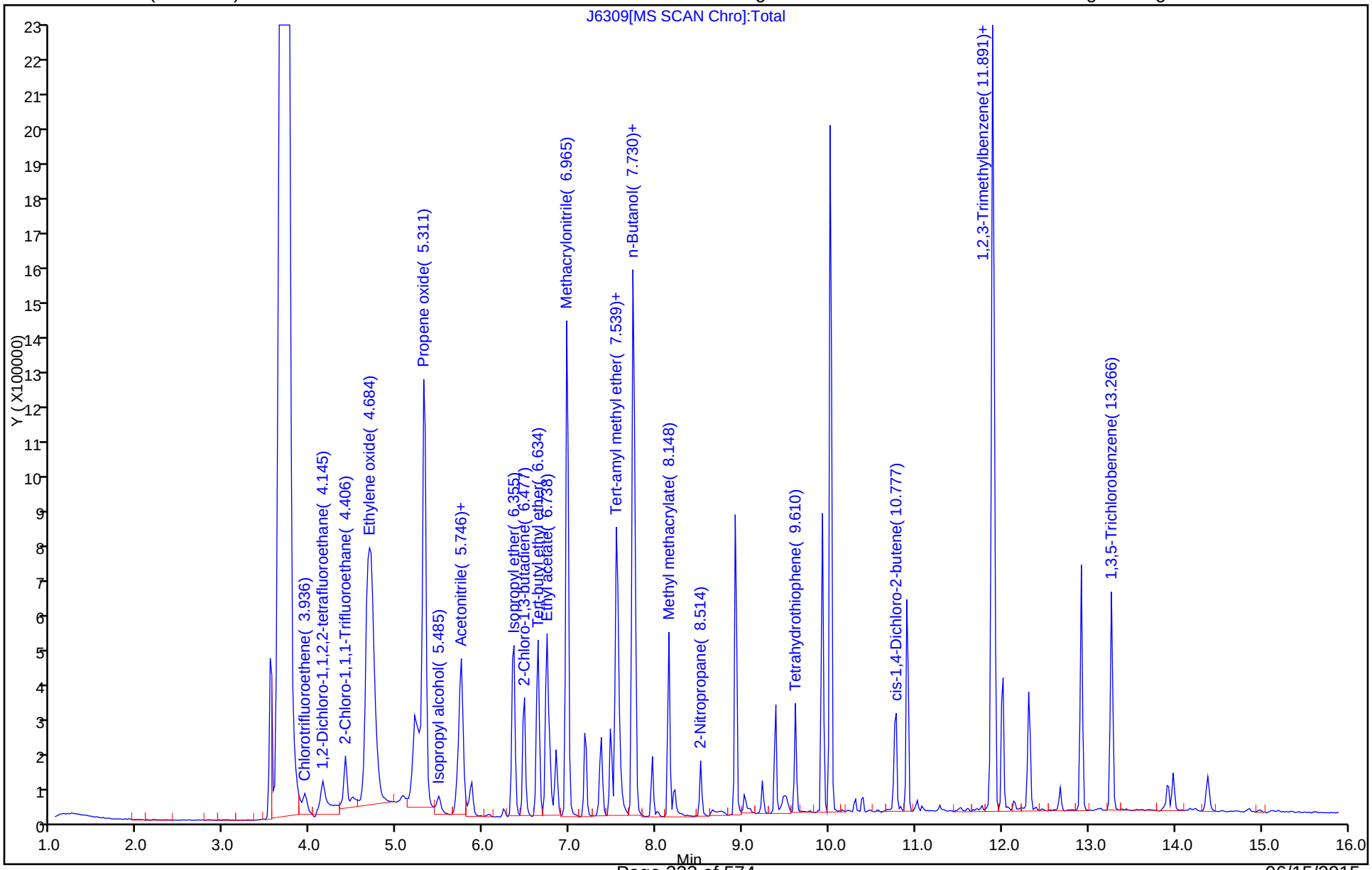
MV-Supp A_00011	Amount Added:	2.50	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	0.40	Units: uL
Freon_A_00005	Amount Added:	2.50	Units: uL

Report Date: 29-Apr-2015 18:07:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6309.D				
Injection Date:	29-Apr-2015 16:21:30	Instrument ID:	VMS_J	Operator ID:	MEIERG
Lims ID:	STD020			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6310.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 29-Apr-2015 16:41:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:32 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: dukesa Date: 29-Apr-2015 18:00:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.749	5.749	0.000	100	735996	1000.0	1000.0	
* 1 Fluorobenzene	96	7.733	7.733	0.000	98	1160625	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.013	10.013	0.000	93	352266	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.893	11.893	0.000	97	537276	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.176	7.176	0.000	92	433404	50.0	50.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.472	7.472	0.000	98	494813	50.0	51.4	
$ 7 Toluene-d8 (Surr)	98	8.917	8.917	0.000	94	1400684	50.0	51.5	
$ 8 4-Bromofluorobenzene (Surr	95	10.901	10.901	0.000	86	586648	50.0	51.2	
24 Chlorotrifluoroethene	116	3.938	3.938	0.000	97	201385	50.0	51.9	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.147	4.147	0.000	98	354712	50.0	53.2	
29 2-Chloro-1,1,1-Trifluoroet	118	4.408	4.408	0.000	38	272159	50.0	55.5	
30 Ethylene oxide	43	4.669	4.669	0.000	98	2696690	10000	10645	
35 Ethanol	45	5.070	5.070	0.000	96	145740	2500.0	2806.5	
36 1,2-Dichloro-1,1,2-trifluo	117	5.209	5.209	0.000	96	351757	50.0	57.9	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.244	5.244	0.000	96	668029	50.0	59.4	
39 Propene oxide	58	5.313	5.313	0.000	86	3375501	2500.0	2667.2	
44 Isopropyl alcohol	45	5.488	5.488	0.000	99	260690	500.0	536.4	
47 Acetonitrile	41	5.714	5.714	0.000	98	524711	625.0	666.5	
58 Isopropyl ether	87	6.358	6.358	0.000	96	353203	62.5	67.8	
60 2-Chloro-1,3-butadiene	53	6.480	6.480	0.000	95	684437	50.0	54.8	
61 Tert-butyl ethyl ether	59	6.636	6.636	0.000	98	1576203	62.5	65.3	
62 Ethyl acetate	43	6.776	6.776	0.000	100	582184	100.0	105.2	
66 Propionitrile	54	6.845	6.845	0.000	97	589886	625.0	661.6	
68 Methacrylonitrile	41	6.967	6.967	0.000	96	2259765	500.0	527.5	
78 Tert-amyl methyl ether	73	7.542	7.542	0.000	98	1352279	62.5	65.0	
80 n-Butanol	56	7.750	7.750	0.000	82	334589	1250.0	1417.6	
83 Methyl methacrylate	100	8.151	8.151	0.000	91	214593	100.0	105.7	
90 2-Nitropropane	41	8.516	8.516	0.000	99	264060	100.0	103.5	
101 Tetrahydrothiophene	60	9.613	9.613	0.000	58	368781	50.0	55.1	
112 cis-1,4-Dichloro-2-butene	53	10.779	10.779	0.000	90	171183	50.0	51.0	
127 1,2,3-Trimethylbenzene	105	11.911	11.911	0.000	99	1574740	50.0	51.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
16 1,3,5-Trichlorobenzene	180	13.268	13.268	0.000	96	618462	50.0	52.2	

Reagents:

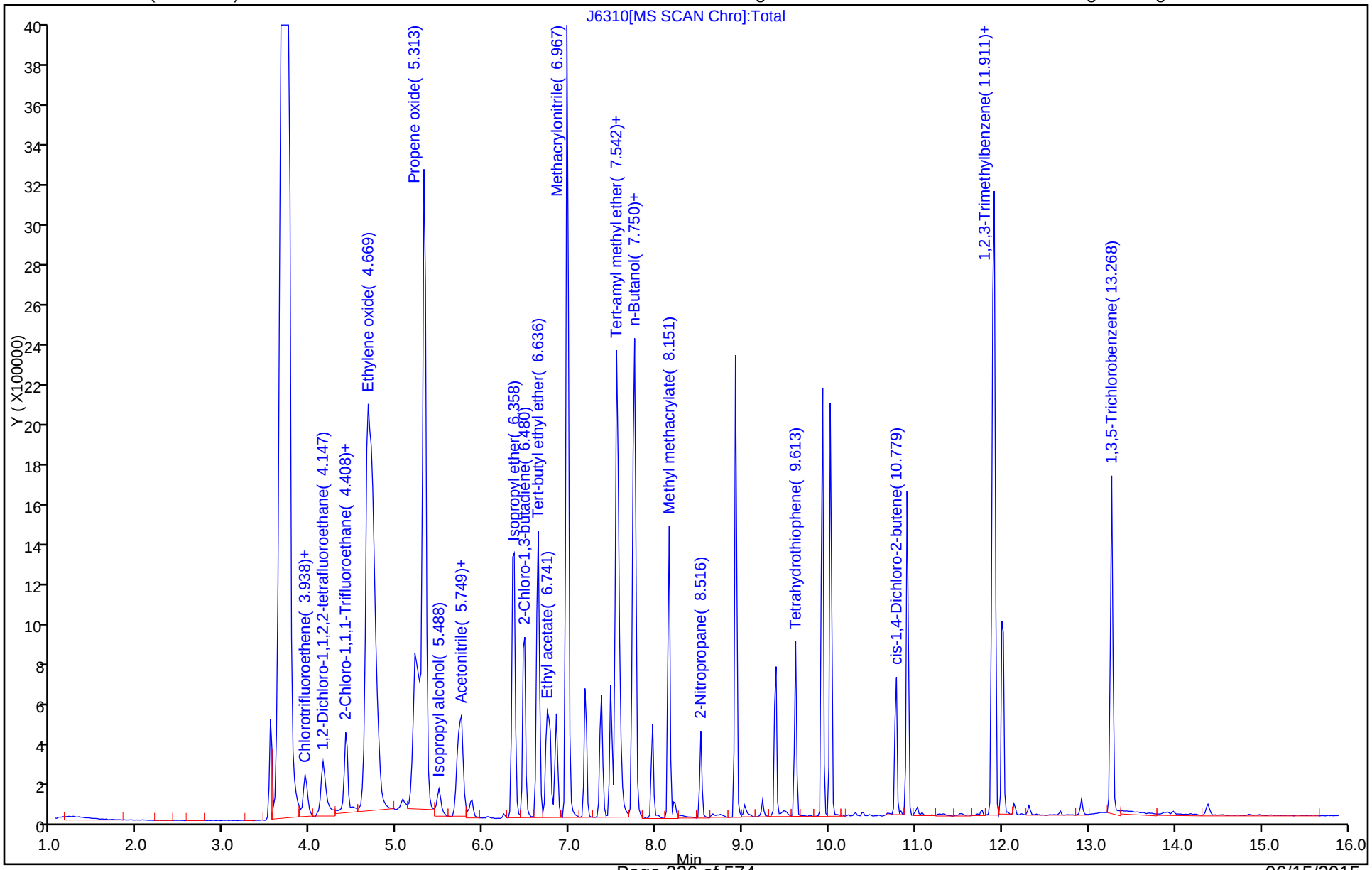
MV-Supp A_00011	Amount Added:	6.25	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	1.00	Units: uL
Freon_A_00005	Amount Added:	6.25	Units: uL

Report Date: 29-Apr-2015 18:07:32 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6310.D				
Injection Date:	29-Apr-2015 16:41:30	Instrument ID:	VMS_J	Operator ID:	MEIERG
Lims ID:	ICIS			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6311.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Apr-2015 17:01:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:33 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.749	5.749	0.000	99	804318	1000.0	1000.0	
* 1 Fluorobenzene	96	7.733	7.733	0.000	98	1151286	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.014	10.014	0.000	92	356827	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.894	11.894	0.000	98	548895	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.176	7.176	0.000	92	866968	100.0	102.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.472	7.472	0.000	98	984596	100.0	103.0	
$ 7 Toluene-d8 (Surr)	98	8.917	8.917	0.000	94	2760939	100.0	100.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.901	10.901	0.000	81	1169098	100.0	99.9	
24 Chlorotrifluoroethene	116	3.939	3.939	0.000	97	411589	100.0	102.4	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.147	4.147	0.000	97	676456	100.0	100.3	
29 2-Chloro-1,1,1-Trifluoroet	118	4.409	4.409	0.000	86	506770	100.0	104.2	
30 Ethylene oxide	43	4.652	4.652	0.000	98	4749199	20000	18899	
35 Ethanol	45	5.070	5.070	0.000	97	279499	5000.0	5054.1	
36 1,2-Dichloro-1,1,2-trifluo	117	5.209	5.209	0.000	96	691797	100.0	114.9	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.244	5.244	0.000	95	1290549	100.0	115.7	
39 Propene oxide	58	5.314	5.314	0.000	82	6097570	5000.0	4857.1	
44 Isopropyl alcohol	45	5.488	5.488	0.000	99	507160	1000.0	954.8	
47 Acetonitrile	41	5.714	5.714	0.000	98	1029480	1250.0	1322.5	
58 Isopropyl ether	87	6.358	6.358	0.000	96	664731	125.0	128.6	
60 2-Chloro-1,3-butadiene	53	6.463	6.463	0.000	96	1292920	100.0	104.4	
61 Tert-butyl ethyl ether	59	6.637	6.637	0.000	98	2996235	125.0	125.2	
62 Ethyl acetate	43	6.776	6.776	0.000	100	1190172	200.0	218.8	
66 Propionitrile	54	6.846	6.846	0.000	97	1192781	1250.0	1348.7	
68 Methacrylonitrile	41	6.967	6.967	0.000	96	4474995	1000.0	1053.2	
78 Tert-amyl methyl ether	73	7.542	7.542	0.000	93	2616117	125.0	126.8	
80 n-Butanol	56	7.751	7.751	0.000	41	643410	2500.0	2522.1	
83 Methyl methacrylate	100	8.151	8.151	0.000	91	435234	200.0	216.1	
90 2-Nitropropane	41	8.517	8.517	0.000	99	539558	200.0	213.3	
101 Tetrahydrothiophene	60	9.613	9.613	0.000	57	732613	100.0	108.1	
112 cis-1,4-Dichloro-2-butene	53	10.780	10.780	0.000	90	346187	100.0	100.9	
127 1,2,3-Trimethylbenzene	105	11.911	11.911	0.000	100	3075089	100.0	99.3	
16 1,3,5-Trichlorobenzene	180	13.269	13.269	0.000	96	1234339	100.0	101.9	

Reagents:

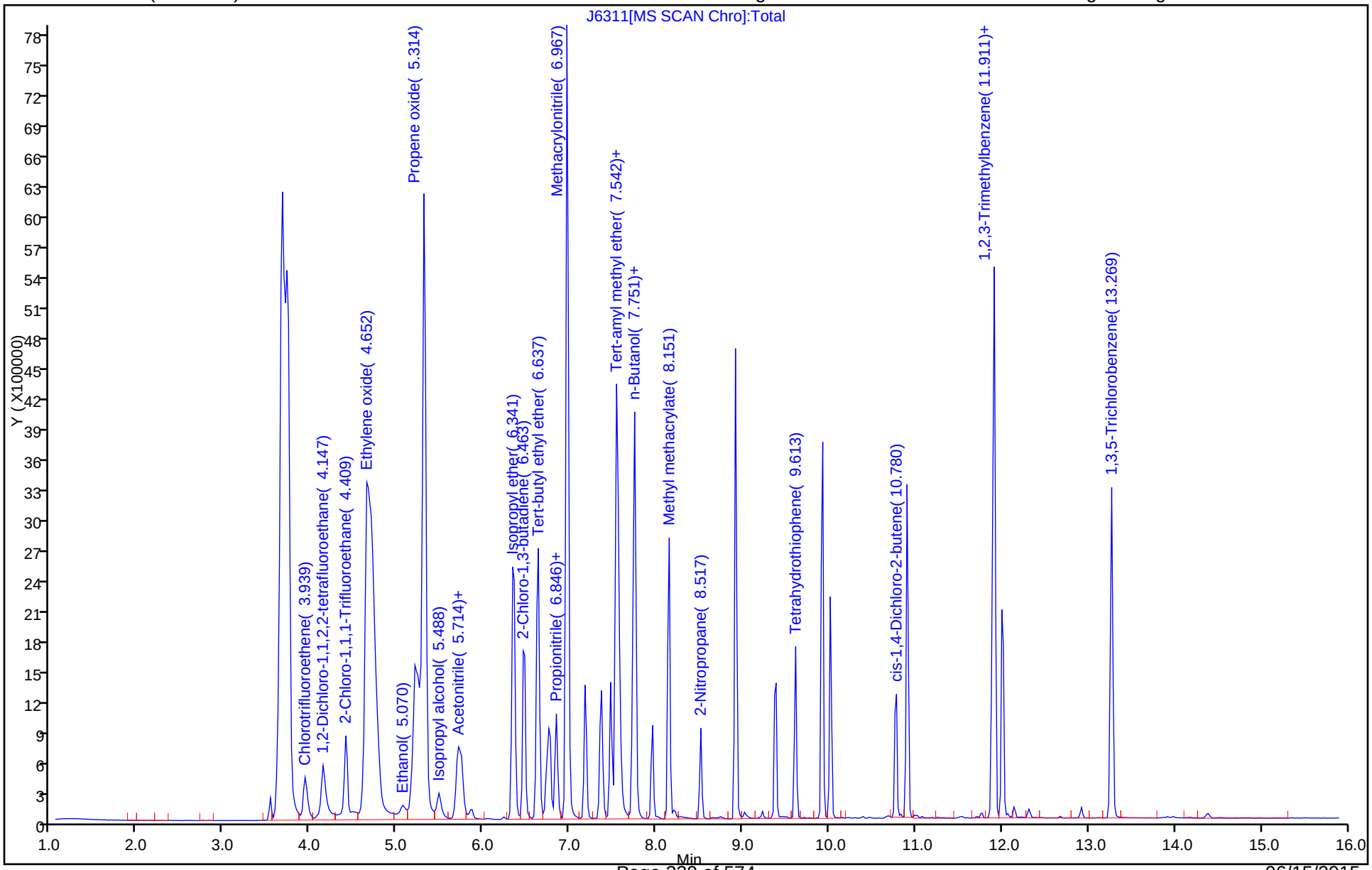
MV-Supp A_00011	Amount Added: 12.50	Units: uL
MV-568718-D_00003	Amount Added: 1.00	Units: uL
MV-ARCH SS A_00044	Amount Added: 2.00	Units: uL
Freon_A_00005	Amount Added: 12.50	Units: uL

Report Date: 29-Apr-2015 18:07:33 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6311.D				
Injection Date:	29-Apr-2015 17:01:30	Instrument ID:	VMS_J	Operator ID:	MEIERG
Lims ID:	STD100			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 29-Apr-2015 17:21:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: MEIERG Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub111

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:33 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.750	5.750	0.000	99	737031	1000.0	1000.0	
* 1 Fluorobenzene	96	7.735	7.735	0.000	98	1164817	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.015	0.000	89	357303	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.895	11.895	0.000	97	553461	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.178	7.178	0.000	92	1715177	200.0	200.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.474	7.474	0.000	98	1943581	200.0	201.0	
$ 7 Toluene-d8 (Surr)	98	8.919	8.919	0.000	94	5214777	200.0	189.2	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.903	0.000	84	2211318	200.0	187.4	
24 Chlorotrifluoroethene	116	3.940	3.940	0.000	97	831347	200.0	200.3	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.149	4.149	0.000	98	1379128	200.0	199.9	
29 2-Chloro-1,1,1-Trifluoroet	118	4.410	4.410	0.000	39	955256	200.0	194.1	
30 Ethylene oxide	43	4.689	4.689	0.000	97	7795045	40000	30659	
35 Ethanol	45	5.072	5.072	0.000	98	495819	10000	9944.4	
36 1,2-Dichloro-1,1,2-trifluo	117	5.211	5.211	0.000	91	1041195	200.0	170.9	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.246	5.246	0.000	96	1717340	200.0	152.1	
39 Propene oxide	58	5.298	5.298	0.000	79	9746188	10000	7673.3	
44 Isopropyl alcohol	45	5.489	5.489	0.000	98	1007868	2000.0	2070.7	
47 Acetonitrile	41	5.716	5.716	0.000	98	1913568	2500.0	2433.4	
58 Isopropyl ether	87	6.342	6.342	0.000	96	1263934	250.0	241.6	
60 2-Chloro-1,3-butadiene	53	6.464	6.464	0.000	96	2471323	200.0	197.3	
61 Tert-butyl ethyl ether	59	6.638	6.638	0.000	98	5817784	250.0	240.3	
62 Ethyl acetate	43	6.760	6.760	0.000	100	2198974	400.0	401.2	
66 Propionitrile	54	6.847	6.847	0.000	97	2178968	2500.0	2435.1	
68 Methacrylonitrile	41	6.969	6.969	0.000	95	7794534	2000.0	1813.1	
78 Tert-amyl methyl ether	73	7.543	7.543	0.000	96	4982219	250.0	238.7	
80 n-Butanol	56	7.752	7.752	0.000	92	1186606	5000.0	5112.9	
83 Methyl methacrylate	100	8.153	8.153	0.000	91	816289	400.0	400.5	
90 2-Nitropropane	41	8.518	8.518	0.000	99	1016301	400.0	397.0	
101 Tetrahydrothiophene	60	9.615	9.615	0.000	57	1373058	200.0	202.3	
112 cis-1,4-Dichloro-2-butene	53	10.764	10.764	0.000	92	637747	200.0	184.3	
127 1,2,3-Trimethylbenzene	105	11.913	11.913	0.000	100	5781445	200.0	185.1	
16 1,3,5-Trichlorobenzene	180	13.270	13.270	0.000	97	2378810	200.0	194.8	

Reagents:

MV-Supp A_00011	Amount Added: 25.00	Units: uL
MV-568718-D_00003	Amount Added: 1.00	Units: uL
MV-ARCH SS A_00044	Amount Added: 4.00	Units: uL
Freon_A_00005	Amount Added: 25.00	Units: uL

Report Date: 29-Apr-2015 18:07:34 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Injection Date: 29-Apr-2015 17:21:30 Instrument ID: VMS_J Operator ID: MEIERG

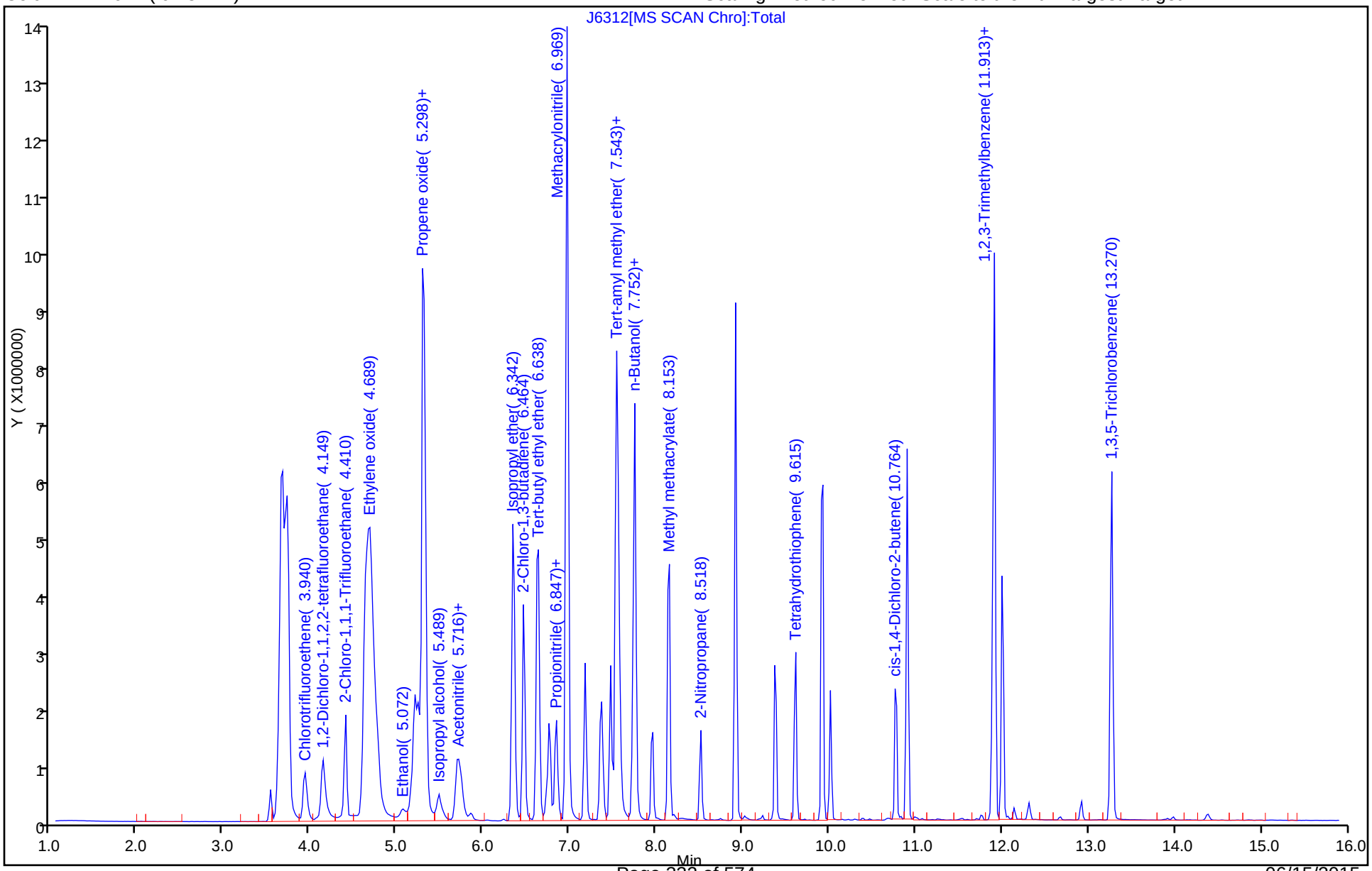
Lims ID: STD200 Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-278046/4	J6811.D
Level 2	STD002 280-278046/5	J6812.D
Level 3	STD005 280-278046/6	J6813.D
Level 4	STD010 280-278046/7	J6814.D
Level 5	STD020 280-278046/8	J6815.D
Level 6	ICIS 280-278046/9	J6816.D
Level 7	STD100 280-278046/10	J6817.D
Level 8	STD200 280-278046/11	J6818.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.4104	0.2681 0.3858	0.2450 0.3983	0.2623	0.2564	Lin1	-0.601	0.3940							0.9920		0.9900
Chloromethane	+++++ 0.3602	+++++ 0.3363	0.2164 0.3554	0.2205	0.2555	Lin1	-1.026	0.3566			0.1000				0.9970		0.9900
Vinyl chloride	+++++ 0.3246	+++++ 0.3001	0.1796 0.3049	0.2082	0.2305	Lin1	-0.828	0.3111							0.9970		0.9900
Bromomethane	+++++ 0.2843	+++++ 0.2519	0.1915 0.2375	0.2047	0.2147	Lin1	-0.287	0.2492							0.9940		0.9900
Chloroethane	+++++ 0.1896	+++++ 0.1689	0.1098 0.1506	0.1368	0.1399	Lin	0.3843	0.1530							0.9920		0.9900
Dichlorofluoromethane	+++++ 0.6639	+++++ 0.6116	0.3710 0.5979	0.4456	0.4776	Lin2	-1.350	0.6145							0.9900		0.9900
Trichlorofluoromethane	+++++ 0.5866	0.3858 0.5611	0.3498 0.5688	0.4115	0.4354	Lin1	-0.767	0.5682							0.9960		0.9900
Ethyl ether	+++++ 0.2097	0.1566 0.1993	0.1415 0.1966	0.1645	0.1758	Ave		0.1777				14.1		15.0			
Acrolein	+++++ 0.0265	0.0252 0.0293	0.0204 0.0254	0.0203	0.0268	Ave		0.0248				13.5		15.0			
Acetone	+++++ 0.1023	0.1020 0.0922	0.0837 0.0945	0.0765	0.0790	Ave		0.0900				11.7		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2455 0.2836	0.2463 0.2665	0.2035 0.2625	0.2107	0.2253	Ave		0.2430				11.6		15.0			
1,1-Dichloroethene	0.3061 0.3340	0.3125 0.3139	0.2628 0.3062	0.2691	0.2705	Ave		0.2969				8.7		30.0			
Iodomethane	0.6489 0.7192	0.6257 0.6811	0.5427 0.6742	0.5832	0.5885	Ave		0.6329				9.3		15.0			
Methyl acetate	0.2245 0.2169	0.1988 0.2058	0.1709 0.2007	0.1852	0.1819	Ave		0.1981				9.1		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 Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

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 8	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	+++++ 0.6323	0.6622 0.5841	0.4878 0.5802	0.5766	0.5364	Ave		0.5800				9.9		15.0			
tert-Butyl alcohol	1.0989 1.1861	1.1282 1.1656	0.9317 1.1634	0.9460	1.0313	Ave		1.0814				9.3		15.0			
Carbon disulfide	+++++ 1.3039	1.3172 1.2183	1.0701 1.2205	1.0931	1.0592	Ave		1.1832				9.2		15.0			
Methylene Chloride	+++++ 0.3617	0.8138 0.3334	0.4722 0.3270	0.3872	0.3304	Lin2	0.9745	0.3090							0.9910		0.9900
Acrylonitrile	0.0885 0.0934	0.0814 0.0877	0.0734 0.0859	0.0793	0.0792	Ave		0.0836				7.7		15.0			
Methyl tert-butyl ether	0.7662 0.8338	0.7270 0.7999	0.6725 0.7984	0.6986	0.7010	Ave		0.7497				7.8		15.0			
trans-1,2-Dichloroethene	0.3352 0.3370	0.3234 0.3175	0.2837 0.3145	0.2889	0.2883	Ave		0.3111				6.9		15.0			
Hexane	+++++ 1.5932	1.8172 1.5539	1.4459 1.5104	1.4579	1.4063	Ave		1.5407				9.0		15.0			
Vinyl acetate	0.5453 0.5648	0.5177 0.4971	0.4506 0.4855	0.4831	0.4687	Ave		0.5016				7.7		15.0			
1,1-Dichloroethane	0.5674 0.6032	0.5207 0.5651	0.4817 0.5671	0.5135	0.5130	Ave		0.5414			0.1000	7.4		15.0			
2-Butanone (MEK)	+++++ 0.1719	0.1762 0.1553	0.1527 0.1570	0.1412	0.1404	Ave		0.1564				8.8		15.0			
sec-Butyl Alcohol	0.8233 0.9099	0.8409 0.8846	0.7261 0.8768	0.7788	0.8007	Ave		0.8301				7.3		15.0			
cis-1,2-Dichloroethene	0.3629 0.3589	0.3362 0.3374	0.2936 0.3274	0.3127	0.3035	Ave		0.3291				7.6		15.0			
2,2-Dichloropropane	0.6478 0.5075	0.4793 0.4793	0.4151 0.4778	0.4435	0.4444	Ave		0.4868				14.6		15.0			
Bromochloromethane	+++++ 0.1915	0.1622 0.1831	0.1525 0.1812	0.1595	0.1637	Ave		0.1705				8.5		15.0			
Chloroform	0.5740 0.6444	0.5467 0.6056	0.5096 0.6097	0.5371	0.5431	Ave		0.5713				7.9		30.0			
Tetrahydrofuran	0.1054 0.0796	+++++ 0.0742	0.0734 0.0746	0.0719	0.0688	Lin2	0.0642	0.0719							0.9960		0.9900
Isobutyl alcohol	0.3634 0.3516	0.2880 0.3391	0.2847 0.3379	0.3054	0.2931	Ave		0.3204				9.7		15.0			
1,1,1-Trichloroethane	0.4691 0.5402	0.4672 0.5064	0.4060 0.5167	0.4553	0.4512	Ave		0.4765				9.0		15.0			
Cyclohexane	+++++ 0.5622	0.6783 0.5186	0.5026 0.5133	0.5121	0.4840	Ave		0.5387				12.2		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 Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

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 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	+++++ 0.4523	0.4194 0.4204	0.3657 0.4185	0.3968	0.3879	Ave		0.4087				6.8		15.0			
Carbon tetrachloride	0.4055 0.5182	0.4105 0.4894	0.3864 0.4979	0.4187	0.4267	Ave		0.4442				11.2		15.0			
1,2-Dichloroethane	+++++ 0.4985	0.4170 0.4737	0.4000 0.4802	0.4117	0.4186	Ave		0.4428				9.0		15.0			
Benzene	1.1727 1.1918	1.0932 1.1196	0.9490 1.0991	1.0342	1.0190	Ave		1.0848				7.5		15.0			
Trichloroethene	0.3839 0.3724	0.3504 0.3463	0.3136 0.3452	0.3152	0.3132	Ave		0.3425				7.9		15.0			
2-Pentanone	0.3810 0.3671	0.3006 0.3583	0.3028 0.3513	0.3243	0.3338	Ave		0.3399				8.7		15.0			
1,2-Dichloropropane	+++++ 0.3188	0.3352 0.3011	0.2775 0.2902	0.2776	0.2723	Ave		0.2961				8.0		30.0			
Methylcyclohexane	0.6886 0.4876	0.5565 0.4471	0.4351 0.4404	0.4273	0.4222	Lin2	0.2493	0.4294							0.9940		0.9900
1,4-Dioxane	+++++ 0.0029	0.0026 0.0026	0.0022 0.0028	0.0023	0.0024	Ave		0.0026				9.9		15.0			
Dibromomethane	0.1908 0.2363	0.2004 0.2297	0.1864 0.2274	0.1994	0.1980	Ave		0.2085				9.3		15.0			
Bromodichloromethane	+++++ 0.5049	0.4101 0.4869	0.3763 0.4915	0.3973	0.4128	Ave		0.4400				11.9		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0982	0.0681 0.0972	0.0631 0.1012	0.0707	0.0838	Lin1	-0.131	0.0998							0.9980		0.9900
cis-1,3-Dichloropropene	1.8332 1.8307	1.7893 1.8457	1.5148 1.8575	1.5757	1.5978	Ave		1.7306				8.2		15.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.3140	+++++ 0.2872	0.2234 0.2882	0.2347	0.2440	Ave		0.2652				13.6		15.0			
Toluene	1.2565 1.2586	1.2234 1.1667	1.0697 1.1576	1.0800	1.0810	Ave		1.1617				6.8		30.0			
Ethyl methacrylate	1.1893 1.2614	1.1814 1.2451	1.0259 1.2451	1.0888	1.1109	Ave		1.1685				7.3		15.0			
trans-1,3-Dichloropropene	0.4517 0.4585	0.4147 0.4383	0.3731 0.4507	0.3957	0.3907	Lin1	-0.098	0.4448							0.9980		0.9900
1,1,2-Trichloroethane	+++++ 0.2771	0.2353 0.2638	0.2153 0.2650	0.2330	0.2329	Ave		0.2460				9.2		15.0			
2-Hexanone	0.7252 0.7853	0.7202 0.7625	0.5828 0.7593	0.6340	0.6424	Ave		0.7015				10.4		15.0			
1,3-Dichloropropane	1.5333 1.5667	1.4865 1.5754	1.3313 1.5435	1.4055	1.4039	Ave		1.4808				6.1		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 Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

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 8	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	1.0722 1.0514	1.0357 1.0078	0.8931 1.0167	0.9661	0.9463	Ave		0.9987				6.0		15.0			
Chlorodibromomethane	1.1006 1.3695	1.0875 1.4147	1.0069 1.4460	1.1088	1.1722	Ave		1.2133				14.0		15.0			
1,2-Dibromoethane	1.0503 1.1347	1.0080 1.1543	0.8904 1.1633	0.9834	0.9859	Ave		1.0463				9.3		15.0			
1-Chlorohexane	1.6868 1.7276	1.6817 1.6442	1.5243 1.6653	1.5931	1.5676	Ave		1.6363				4.2		15.0			
Chlorobenzene	3.0233 3.0145	2.9781 2.9644	2.6175 2.9476	2.7591	2.6663	Ave		2.8714			0.3000	5.7		15.0			
1,1,1,2-Tetrachloroethane	1.1340 1.1867	1.0672 1.1864	0.9970 1.1843	1.0277	1.0561	Ave		1.1049				7.0		15.0			
Ethylbenzene	1.6914 1.4426	1.6117 1.4141	1.3632 1.3944	1.3593	1.3236	Ave		1.4500				9.1		30.0			
m-Xylene & p-Xylene	7.8212 4.0494	5.7500 3.9825	4.0545 4.1043	3.9883	3.7122	Lin2	3.9654	3.7485							0.9930		0.9900
o-Xylene	2.2784 1.7497	1.9801 1.6775	1.5801 1.6378	1.6544	1.5694	Ave		1.7659				13.8		15.0			
Styrene	2.8844 3.0488	2.8924 2.9727	2.5233 2.9243	2.6776	2.6763	Ave		2.8250				6.3		15.0			
Bromoform	0.6129 0.8866	0.6586 0.9370	0.6305 0.9539	0.6883	0.7175	Lin1	-0.719	0.9301			0.1000				0.9950		0.9900
Isopropylbenzene	+++++ 3.1909	3.0740 2.9996	2.6806 3.0437	2.9230	2.8434	Ave		2.9650				5.6		15.0			
Cyclohexanone	+++++ 0.0343	0.0309 0.0324	0.0270 0.0336	0.0284	0.0263	Ave		0.0304				10.6		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8428	+++++ 0.8220	0.6466 0.8358	0.7229	0.7242	Ave		0.7657			0.3000	10.4		15.0			
trans-1,4-Dichloro-2-butene	0.1922 0.2243	0.2072 0.2227	0.1533 0.2243	0.1701	0.1815	Ave		0.1970				13.8		15.0			
1,2,3-Trichloropropane	0.2054 0.2356	0.2040 0.2279	0.1779 0.2316	0.1957	0.2006	Ave		0.2098				9.6		15.0			
N-Propylbenzene	0.7562 0.8358	0.8133 0.7314	0.6901 0.7621	0.7427	0.7402	Ave		0.7590				6.1		15.0			
Bromobenzene	+++++ 0.8964	+++++ 0.8385	0.7174 0.8586	0.7770	0.7972	Ave		0.8142				7.8		15.0			
1,3,5-Trimethylbenzene	+++++ 2.6617	2.5142 2.4418	2.2301 2.5105	2.3438	2.3269	Ave		2.4327				5.9		15.0			
2-Chlorotoluene	0.7268 0.7666	0.7331 0.7164	0.6433 0.7169	0.6823	0.6701	Ave		0.7069				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 Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

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 8	LVL 4	LVL 5		B	M1	M2								
4-Chlorotoluene	0.7896 0.8409	0.7624 0.7234	0.6433 0.7521	0.7261	0.6846	Ave		0.7403				8.3		15.0			
tert-Butylbenzene	2.5138 2.6304	2.5436 2.4281	2.2087 2.4473	2.3207	2.3221	Ave		2.4268				5.7		15.0			
1,2,4-Trimethylbenzene	2.9255 2.7249	2.6560 2.4887	2.2386 2.5623	2.4000	2.3813	Ave		2.5472				8.6		15.0			
sec-Butylbenzene	0.6155 0.6666	0.6203 0.5914	0.5461 0.6092	0.5887	0.5851	Ave		0.6029				5.8		15.0			
4-Isopropyltoluene	2.8335 2.9804	2.8026 2.6532	2.4226 2.7348	2.6374	2.5626	Ave		2.7034				6.4		15.0			
1,3-Dichlorobenzene	1.4194 1.6058	1.5378 1.4378	1.3083 1.5198	1.4041	1.3772	Ave		1.4513				6.7		15.0			
1,4-Dichlorobenzene	1.5788 1.5637	1.4814 1.4749	1.3343 1.4908	1.4216	1.3797	Ave		1.4657				5.8		15.0			
n-Butylbenzene	2.8250 2.7504	2.7010 2.4453	2.3119 2.5518	2.4733	2.4485	Ave		2.5634				6.9		15.0			
1,2-Dichlorobenzene	1.3218 1.4572	1.3685 1.3739	1.1906 1.3921	1.2805	1.2704	Ave		1.3319				6.3		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1761	+++++ 0.1791	0.1293 0.1781	0.1379	0.1407	Lin1	-0.363	0.1802							0.9990		0.9900
1,2,4-Trichlorobenzene	1.0143 1.0772	0.9805 0.9790	0.8596 0.9981	0.9115	0.8947	Ave		0.9644				7.4		15.0			
Hexachlorobutadiene	0.6519 0.6541	0.5865 0.5480	0.4933 0.5873	0.5521	0.5285	Ave		0.5752				9.9		15.0			
Naphthalene	2.0460 2.1624	1.8961 2.0208	1.6469 1.9449	1.7362	1.7278	Ave		1.8976				9.5		15.0			
1,2,3-Trichlorobenzene	0.8890 0.9624	0.8032 0.8998	0.7524 0.8899	0.8090	0.7961	Ave		0.8502				8.3		15.0			
Dibromofluoromethane (Surr)	+++++ 0.3819	+++++ 0.3695	0.3433 0.3684	0.3559	0.3584	Ave		0.3629				3.7		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3932	+++++ 0.3883	0.3442 0.3874	0.3756	0.3752	Ave		0.3773				4.7		15.0			
Toluene-d8 (Surr)	+++++ 3.6629	+++++ 3.7194	3.6158 3.6424	3.7824	3.7012	Ave		3.6873				1.6		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.0722	+++++ 0.9876	0.9549 1.0259	1.0515	1.0148	Ave		1.0178				4.2		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 Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-278046/4	J6811.D
Level 2	STD002 280-278046/5	J6812.D
Level 3	STD005 280-278046/6	J6813.D
Level 4	STD010 280-278046/7	J6814.D
Level 5	STD020 280-278046/8	J6815.D
Level 6	ICIS 280-278046/9	J6816.D
Level 7	STD100 280-278046/10	J6817.D
Level 8	STD200 280-278046/11	J6818.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	+++++ 422003	12109 811703	27018 1692329	54870	107550	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Chloromethane	FB	Lin1	+++++ 370391	+++++ 707494	23867 1510182	46132	107160	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Lin1	+++++ 333701	+++++ 631380	19803 1295610	43560	96663	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Lin1	+++++ 292316	+++++ 529871	21123 1009282	42822	90072	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Lin	+++++ 194902	+++++ 355232	12111 639970	28611	58687	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Lin2	+++++ 682623	+++++ 1286565	40919 2540197	93223	200340	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Lin1	+++++ 603142	17425 1180360	38583 2416508	86078	182604	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	+++++ 215649	7071 419236	15603 835506	34404	73748	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Acrolein	FB	Ave	+++++ 272719	11379 616755	22489 1077369	42420	112488	+++++ 500	20.0 1000	50.0 2000	100.0	200
Acetone	FB	Ave	+++++ 420822	18426 776193	36941 1605357	64011	132463	+++++ 200	8.00 400	20.0 800	40.0	80.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	5445 291578	11126 560671	22438 1115433	44067	94517	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	6788 343427	14116 660361	28986 1301049	56296	113458	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Iodomethane	FB	Ave	14389 739472	28259 1432888	59852 2864609	121996	246855	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	24897 1115011	44902 2165165	94248 4262646	193703	381436	5.00 250	10.0 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 650072	29908 1228827	53803 2465257	120621	224979	+++++ 50.0	2.00 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
tert-Butyl alcohol	TBA	Ave	7416 348140	13716 640541	29199 1343794	53880	116154	10.0 500	20.0 1000	50.0 2000	100	200
Carbon disulfide	FB	Ave	+++++ 1340610	59490 2562943	118023 5185744	228655	444261	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Methylene Chloride	FB	Lin2	+++++ 371871	36757 701374	52078 1389547	80989	138566	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	19625 959941	36772 1845638	80976 3649340	165833	332210	10.0 500	20.0 1000	50.0 2000	100	200
Methyl tert-butyl ether	FB	Ave	16992 857265	32835 1682718	74173 3392133	146132	294026	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	7433 346483	14608 667931	31286 1336436	60429	120938	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexane	CBZ	Ave	+++++ 481089	22642 903759	44354 1782774	85742	167741	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	24183 1161371	46766 2091467	99393 4125546	202125	393179	2.00 100	4.00 200	10.0 400	20.0	40.0
1,1-Dichloroethane	FB	Ave	12583 620142	23519 1188771	53121 2409509	107411	215153	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 707000	31829 1306843	67354 2667528	118145	235481	+++++ 200	8.00 400	20.0 800	40.0	80.0
sec-Butyl Alcohol	TBA	Ave	16668 801269	30668 1458387	68268 3038242	133066	270558	30.0 1500	60.0 3000	150 6000	300	600
cis-1,2-Dichloroethene	FB	Ave	8047 368959	15184 709746	32377 1391082	65402	127318	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	14366 521811	21648 1008318	45782 2030256	92769	186380	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 196859	7327 385285	16822 769872	33364	68676	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Chloroform	FB	Ave	12728 662573	24691 1274001	56207 2590447	112351	227812	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Lin2	4673 163625	+++++ 312083	16187 633611	30063	57678	2.00 100	+++++ 200	10.0 400	20.0	40.0
Isobutyl alcohol	TBA	Ave	6131 258006	8754 465860	22306 975806	43477	82536	25.0 1250	50.0 2500	125 5000	250	500
1,1,1-Trichloroethane	FB	Ave	10402 555451	21099 1065353	44772 2195214	95242	189263	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 578044	30635 1090998	55426 2180721	107125	203024	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	+++++ 465018	18943 884452	40336 1777990	83001	162699	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	8992 532753	18542 1029543	42618 2115356	87580	178962	1.00 50.0	2.00 100	5.00 200	10.0	20.0

FORM VI
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Lab Name: TestAmerica Denver Job No.: 280-69452-1 Analy Batch No.: 278046

SDG No.:

Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/18/2015 17:50 Calibration End Date: 05/18/2015 20:11 Calibration ID: 22340

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	+++++ 512587	18836 996598	44119 2040158	86123	175594	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Benzene	FB	Ave	26006 1225406	49375 2355365	104660 4669680	216341	427386	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	8513 382855	15828 728556	34591 1466625	65933	131372	1.00 50.0	2.00 100	5.00 200	10.0	20.0
2-Pentanone	FB	Ave	33798 1509704	54314 3015210	133599 5970860	271374	560055	4.00 200	8.00 400	20.0 800	40.0	80.0
1,2-Dichloropropane	FB	Ave	+++++ 327788	15140 633512	30601 1232950	58065	114208	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Lin2	15271 501324	25136 940638	47984 1871067	89394	177093	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dioxane	FB	Ave	+++++ 59505	2377 110496	4922 239234	9585	20331	+++++ 1000	40.0 2000	100 4000	200	400
Dibromomethane	FB	Ave	4231 242927	9053 483198	20554 966167	41722	83028	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	+++++ 519159	18522 1024322	41496 2088145	83118	173156	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
2-Chloroethyl vinyl ether	FB	Lin1	+++++ 100998	3076 204500	6957 429787	14780	35168	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	CBZ	Ave	11183 552805	22294 1073482	46468 2192419	92670	190575	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 1291491	+++++ 2416766	98534 4897751	196376	409333	+++++ 200	+++++ 400	20.0 800	40.0	80.0
Toluene	FB	Ave	27864 1294037	55257 2454529	117968 4918470	225928	453421	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBZ	Ave	7255 380916	14720 724190	31470 1469660	64033	132503	1.00 50.0	2.00 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	FB	Lin1	10016 471407	18729 922076	41143 1914811	82771	163853	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	FB	Ave	+++++ 284888	10627 554907	23741 1125811	48733	97674	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
2-Hexanone	CBZ	Ave	17696 948489	35894 1774006	71514 3584959	149150	306480	4.00 200	8.00 400	20.0 800	40.0	80.0
1,3-Dichloropropane	CBZ	Ave	9354 473082	18522 916252	40841 1821897	82663	167452	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Tetrachloroethene	CBZ	Ave	6541 317500	12904 586126	27398 1200050	56818	112869	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chlorodibromomethane	CBZ	Ave	6714 413557	13550 822808	30888 1706772	65214	139811	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	6407 342653	12560 671372	27315 1373047	57835	117600	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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Instrument ID: VMS_J GC Column: DB-624 (75. ID: 0.53(mm) Heated Purge: (Y/N) Y

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			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1-Chlorohexane	CBZ	Ave	10290 521676	20954 956263	46760 1965635	93695	186984	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Chlorobenzene	CBZ	Ave	18443 910295	37107 1724118	80296 3479105	162270	318033	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6918 358340	13297 689998	30584 1397917	60443	125970	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Ethylbenzene	CBZ	Ave	10318 435611	20081 822447	41817 1645868	79943	157872	1.00 50.0	2.00 100	5.00 200	10.0	20.0
m-Xylene & p-Xylene	CBZ	Lin2	47712 1222792	71644 2316297	124377 4844444	234564	442782	1.00 50.0	2.00 100	5.00 200	10.0	20.0
o-Xylene	CBZ	Ave	13899 528365	24672 975682	48472 1933128	97298	187191	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Styrene	CBZ	Ave	17596 920657	36039 1728962	77407 3451650	157474	319225	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromoform	CBZ	Lin1	3739 267723	8206 544963	19343 1125875	40478	85578	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Isopropylbenzene	DCB	Ave	+++++ 1472411	61452 2750814	132688 5618205	267231	521845	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
Cyclohexanone	CBZ	Ave	+++++ 413701	15420 754755	33121 1584649	66773	125426	+++++ 2000	80.0 4000	200 8000	400	800
1,1,2,2-Tetrachloroethane	DCB	Ave	+++++ 388898	+++++ 753777	32008 1542852	66093	132918	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	1874 103484	4143 204225	7590 414072	15550	33313	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	2003 108718	4079 208973	8805 427529	17890	36814	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Propylbenzene	DCB	Ave	7373 385661	16259 670723	34161 1406752	67896	135847	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Bromobenzene	DCB	Ave	+++++ 413644	+++++ 768915	35512 1584918	71037	146302	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 1228180	50261 2239271	110389 4633972	214283	427046	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCB	Ave	7086 353715	14656 656982	31843 1323351	62376	122978	1.00 50.0	2.00 100	5.00 200	10.0	20.0
4-Chlorotoluene	DCB	Ave	7698 388034	15242 663367	31843 1388356	66380	125648	1.00 50.0	2.00 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCB	Ave	24509 1213777	50849 2226685	109333 4517283	212169	426161	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	28523 1257376	53097 2282296	110810 4729672	219418	437028	1.00 50.0	2.00 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCB	Ave	6001 307577	12401 542334	27032 1124440	53825	107389	1.00 50.0	2.00 100	5.00 200	10.0	20.0

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			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Isopropyltoluene	DCB	Ave	27626 1375279	56026 2433108	119917 5048117	241124	470299	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	13839 740956	30743 1318528	64760 2805303	128372	252746	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	15393 721556	29614 1352551	66050 2751806	129969	253206	1.00 50.0	2.00 100	5.00 200	10.0	20.0
n-Butylbenzene	DCB	Ave	27543 1269129	53996 2242433	114438 4710289	226123	449372	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	12887 672384	27357 1259915	58936 2569588	117064	233159	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	+++++ 81259	+++++ 164287	6399 328782	12609	25816	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	9889 497056	19602 897768	42550 1842411	83329	164203	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCB	Ave	6356 301840	11725 502525	24416 1084053	50472	96994	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Naphthalene	DCB	Ave	19948 997801	37905 1853136	81521 3590093	158726	317096	1.00 50.0	2.00 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	8667 444089	16056 825167	37242 1642589	73958	146105	1.00 50.0	2.00 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 392674	+++++ 777435	37858 1565418	74451	150344	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 404225	+++++ 816864	37966 1646014	78579	157361	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 1106070	+++++ 2163276	110919 4299229	222452	441471	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCB	Ave	+++++ 494758	+++++ 905650	47268 1893631	96132	186242	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6811.D
Lims ID: STD001
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-May-2015 17:50:30 ALS Bottle#: 12 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD001
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:37 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 18:43:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.727	5.727	0.000	100	674862	1000.0	1000.0	
* 1 Fluorobenzene	96	7.712	7.712	0.000	97	1108802	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.010	10.010	0.000	85	305019	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.872	11.872	0.000	98	487485	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	92	8517	1.00	1.06	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.468	7.468	0.000	98	8860	1.00	1.06	
$ 7 Toluene-d8 (Surr)	98	8.913	8.913	0.000	93	26485	1.00	1.18	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	96	13268	1.00	1.34	
25 Dichlorodifluoromethane	85	3.987	3.987	0.000	97	5709	1.00	2.18	
27 Chloromethane	50	4.196	4.196	0.000	94	7441	1.00	3.82	
28 Vinyl chloride	62	4.352	4.352	0.000	95	5656	1.00	3.48	
31 Bromomethane	94	4.718	4.718	0.000	91	6137	1.00	2.26	
32 Chloroethane	64	4.787	4.787	0.000	93	3550	1.00	-1.47	
33 Dichlorofluoromethane	67	4.944	4.944	0.000	98	10537	1.00	2.97	
34 Trichlorofluoromethane	101	5.066	5.066	0.000	93	9853	1.00	2.13	
37 Ethyl ether	59	5.205	5.205	0.000	94	5757	1.00	1.46	
40 Acrolein	56	5.344	5.344	0.000	95	8866	10.0	16.1	
41 Acetone	43	5.449	5.449	0.000	98	14713	4.00	7.37	
42 1,1,2-Trichloro-1,2,2-trif	151	5.466	5.466	0.000	87	5445	1.00	1.01	
45 1,1-Dichloroethene	96	5.501	5.501	0.000	95	6788	1.00	1.03	
48 Methyl acetate	43	5.693	5.693	0.000	99	24897	5.00	5.67	
46 Iodomethane	142	5.675	5.675	0.000	99	14389	1.00	1.03	
49 3-Chloro-1-propene	41	5.745	5.745	0.000	73	16567	1.00	1.29	
50 2-Methyl-2-propanol	59	5.797	5.797	0.000	45	7416	10.0	10.2	
51 Carbon disulfide	76	5.797	5.797	0.000	100	40985	1.00	1.56	
52 Methylene Chloride	84	5.849	5.849	0.000	96	28198	1.00	0.9612	
53 Acrylonitrile	53	5.989	5.989	0.000	97	19625	10.0	10.6	
54 Methyl tert-butyl ether	73	6.023	6.023	0.000	98	16992	1.00	1.02	
55 trans-1,2-Dichloroethene	96	6.058	6.058	0.000	97	7433	1.00	1.08	
56 Hexane	57	6.232	6.232	0.000	93	13193	1.00	1.40	
57 Vinyl acetate	43	6.319	6.319	0.000	97	24183	2.00	2.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.389	6.389	0.000	96	12583	1.00	1.05	
63 2-Butanone (MEK)	43	6.772	6.772	0.000	99	22506	4.00	6.49	
64 sec-Butyl Alcohol	45	6.807	6.807	0.000	94	16668	30.0	29.8	
65 cis-1,2-Dichloroethene	96	6.824	6.824	0.000	83	8047	1.00	1.10	
67 2,2-Dichloropropane	77	6.859	6.859	0.000	84	14366	1.00	1.33	
69 Chlorobromomethane	128		7.021				ND	ND	
70 Chloroform	83	7.033	7.033	0.000	92	12728	1.00	1.00	
71 Tetrahydrofuran	42	7.050	7.050	0.000	84	4673	2.00	2.04	
72 Isobutyl alcohol	41	7.224	7.224	0.000	90	6131	25.0	28.4	
73 1,1,1-Trichloroethane	97	7.259	7.259	0.000	98	10402	1.00	0.9844	
74 Cyclohexane	56	7.329	7.329	0.000	94	16902	1.00	1.41	
75 1,1-Dichloropropene	75		7.351				ND	ND	
76 Carbon tetrachloride	117	7.399	7.399	0.000	94	8992	1.00	0.9129	
77 1,2-Dichloroethane	62		7.525				ND	ND	
79 Benzene	78	7.538	7.538	0.000	98	26006	1.00	1.08	
14 n-Heptane	43	7.607	7.607	0.000	96	14308	1.00	1.29	
81 Trichloroethene	130	8.008	8.008	0.000	94	8513	1.00	1.12	
82 2-Pentanone	43	8.043	8.043	0.000	98	33798	4.00	4.48	
85 Methylcyclohexane	55	8.199	8.199	0.000	59	15271	1.00	1.02	
84 1,2-Dichloropropane	63		8.187				ND	ND	
86 1,4-Dioxane	88		8.239				ND	ND	
87 Dibromomethane	93	8.304	8.304	0.000	89	4231	1.00	0.9149	
88 Dichlorobromomethane	83	8.356	8.356	0.000	96	8513	1.00	0.8725	
89 2-Chloroethyl vinyl ether	63		8.500				ND	ND	
91 cis-1,3-Dichloropropene	75	8.687	8.687	0.000	94	11183	1.00	1.06	
92 4-Methyl-2-pentanone (MIBK	43	8.721	8.721	0.000	96	20754	4.00	3.53	
93 Toluene	91	8.965	8.965	0.000	98	27864	1.00	1.08	
94 Ethyl methacrylate	69	9.035	9.035	0.000	90	7255	1.00	1.02	
95 trans-1,3-Dichloropropene	75	9.052	9.052	0.000	98	10016	1.00	1.24	
96 1,1,2-Trichloroethane	97		9.214				ND	ND	
97 2-Hexanone	43	9.331	9.331	0.000	96	17696	4.00	4.14	
98 1,3-Dichloropropane	76	9.348	9.348	0.000	94	9354	1.00	1.04	
99 Tetrachloroethene	164	9.383	9.383	0.000	96	6541	1.00	1.07	
100 Chlorodibromomethane	129	9.557	9.557	0.000	88	6714	1.00	0.9071	
102 Ethylene Dibromide	107	9.679	9.679	0.000	98	6407	1.00	1.00	
103 1-Chlorohexane	91	9.905	9.905	0.000	95	10290	1.00	1.03	
104 Chlorobenzene	112	10.027	10.027	0.000	98	18443	1.00	1.05	
105 Ethylbenzene	106	10.062	10.062	0.000	98	10318	1.00	1.17	M
106 1,1,1,2-Tetrachloroethane	131	10.062	10.062	0.000	43	6918	1.00	1.03	
107 m-Xylene & p-Xylene	91	10.149	10.149	0.000	99	47712	1.00	1.03	M
108 Styrene	104	10.462	10.462	0.000	80	17596	1.00	1.02	
109 o-Xylene	106	10.462	10.462	0.000	91	13899	1.00	1.29	
110 Bromoform	173	10.688	10.688	0.000	69	3739	1.00	1.43	
111 Isopropylbenzene	105		10.728				ND	ND	
113 Cyclohexanone	55	10.862	10.862	0.000	92	10381	40.0	56.0	
114 1,1,2,2-Tetrachloroethane	83	10.950	10.950	0.000	90	7397	1.00	0.99	
115 trans-1,4-Dichloro-2-buten	53	10.967	10.967	0.000	37	1874	1.00	0.9759	
116 1,2,3-Trichloropropane	110	11.019	11.019	0.000	84	2003	1.00	0.9790	
117 N-Propylbenzene	120	11.054	11.054	0.000	98	7373	1.00	1.00	
118 Bromobenzene	156		11.059				ND	ND	
119 1,3,5-Trimethylbenzene	105		11.164				ND	ND	
120 2-Chlorotoluene	126	11.193	11.193	0.000	96	7086	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.263	11.263	0.000	98	7698	1.00	1.07	
122 tert-Butylbenzene	119	11.472	11.472	0.000	94	24509	1.00	1.04	
123 1,2,4-Trimethylbenzene	105	11.507	11.507	0.000	95	28523	1.00	1.15	
124 sec-Butylbenzene	134	11.663	11.663	0.000	95	6001	1.00	1.02	
125 4-Isopropyltoluene	119	11.750	11.750	0.000	97	27626	1.00	1.05	
126 1,3-Dichlorobenzene	146	11.837	11.837	0.000	91	13839	1.00	0.9781	
128 1,4-Dichlorobenzene	146	11.907	11.907	0.000	91	15393	1.00	1.08	
129 n-Butylbenzene	91	12.116	12.116	0.000	97	27543	1.00	1.10	
130 1,2-Dichlorobenzene	146	12.272	12.272	0.000	97	12887	1.00	0.99	
131 1,2-Dibromo-3-Chloropropan	157	13.038	13.038	0.000	84	1534	1.00	2.89	
132 1,2,4-Trichlorobenzene	180	14.013	14.013	0.000	93	9889	1.00	1.05	
133 Hexachlorobutadiene	225	14.170	14.170	0.000	95	6356	1.00	1.13	
134 Naphthalene	128	14.396	14.396	0.000	97	19948	1.00	1.08	
135 1,2,3-Trichlorobenzene	180	14.727	14.727	0.000	91	8667	1.00	1.05	
S 142 1,2-Dichloroethene, Total	96				0		2.00	2.18	
S 137 Xylenes, Total (URS)	1				0		2.00	2.32	
S 138 Total BTEX	1				0			5.65	
S 136 Trihalomethanes, Total	1				0		4.00	4.22	
S 139 1,3-Dichloropropene, Total	1				0		2.00	2.30	
S 140 1,2-Dichloroethene, Total	1				0		2.00	2.18	
S 141 Xylenes, Total	106				0		2.00	2.32	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

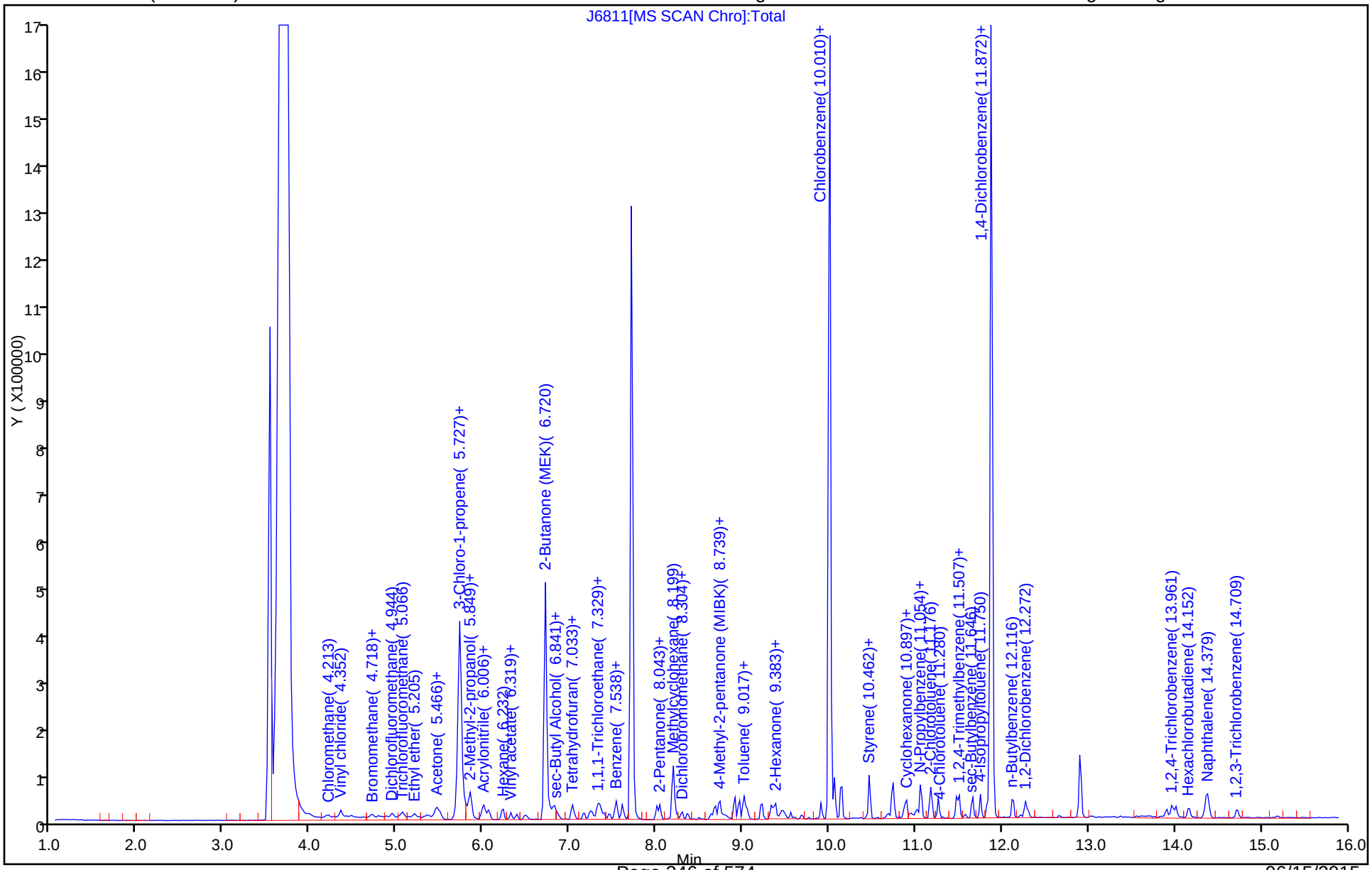
MV-Main A_00022	Amount Added:	0.13	Units: uL
MV-2cleve+AVA_00009	Amount Added:	0.13	Units: uL
MV-Gas/Ket A_00033	Amount Added:	0.13	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00045	Amount Added:	0.02	Units: uL

Report Date: 19-May-2015 18:48:37 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6811.D				
Injection Date:	18-May-2015 17:50:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	STD001			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

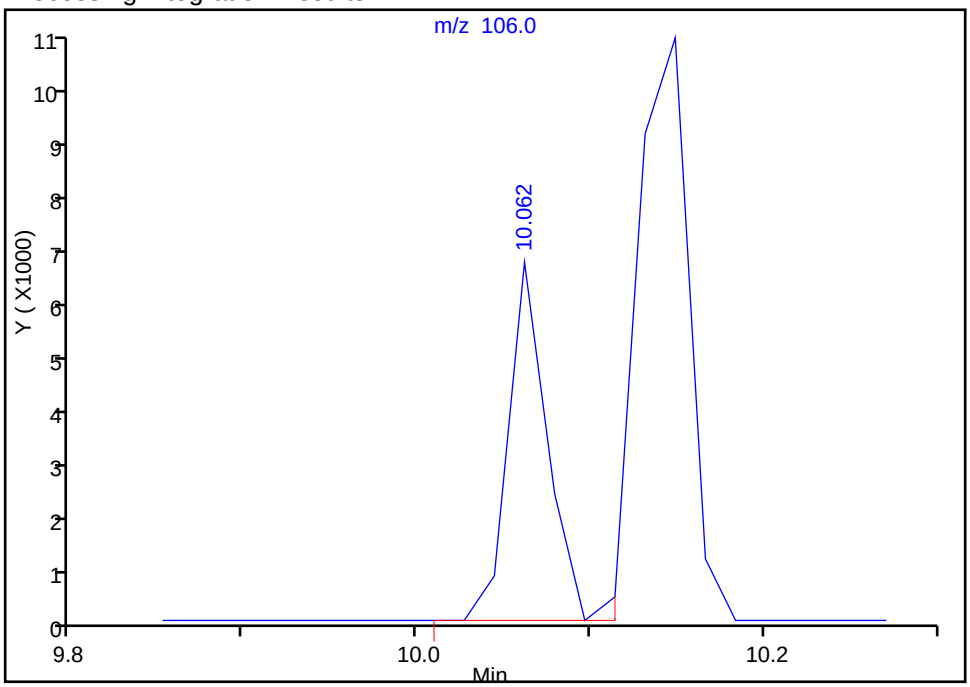
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6811.D				
Injection Date:	18-May-2015 17:50:30	Instrument ID:	VMS_J		
Lims ID:	STD001				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	12	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4

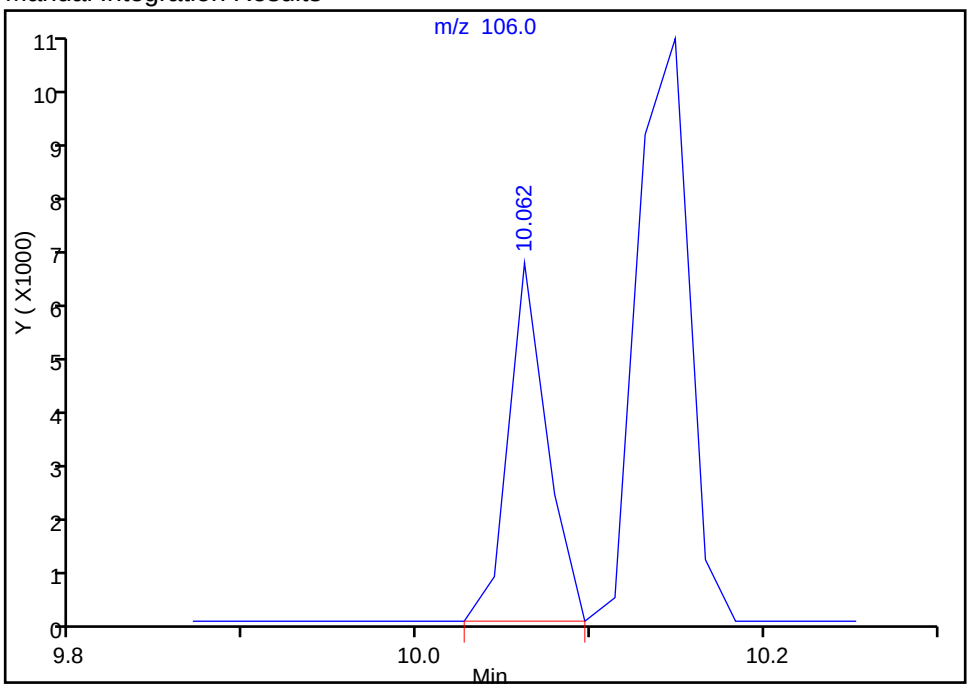
Processing Integration Results

RT: 10.06
Area: 10786
Amount: 1.200044
Amount Units: ug/l



Manual Integration Results

RT: 10.06
Area: 10318
Amount: 1.166450
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:42:14
Audit Action: Manually Integrated
Audit Reason: Other

Manual Integration/User Assign Peak Report

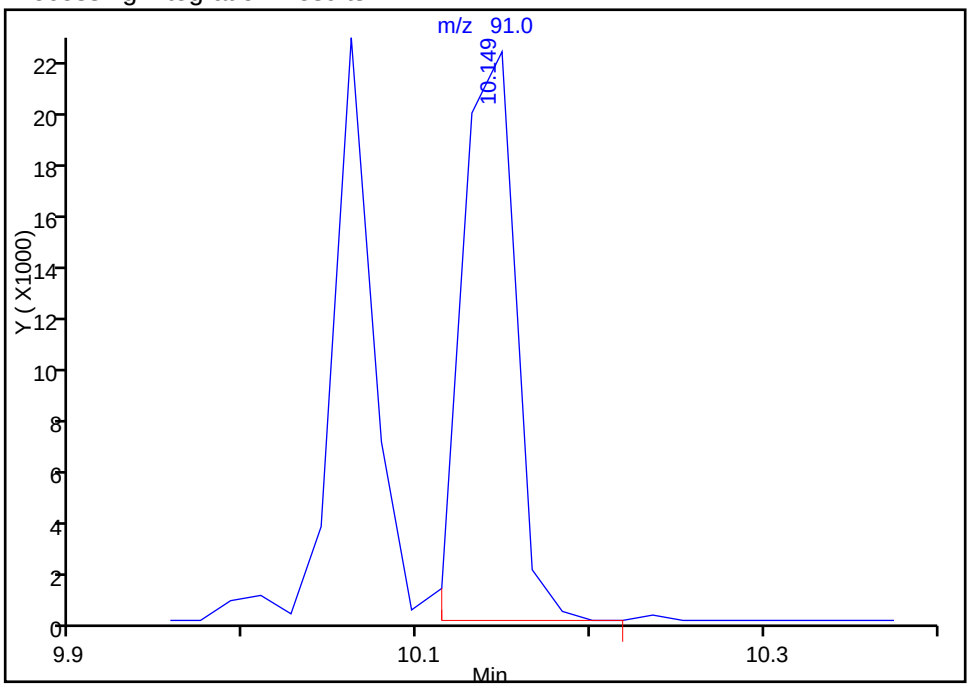
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6811.D				
Injection Date:	18-May-2015 17:50:30	Instrument ID:	VMS_J		
Lims ID:	STD001				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	12	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

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

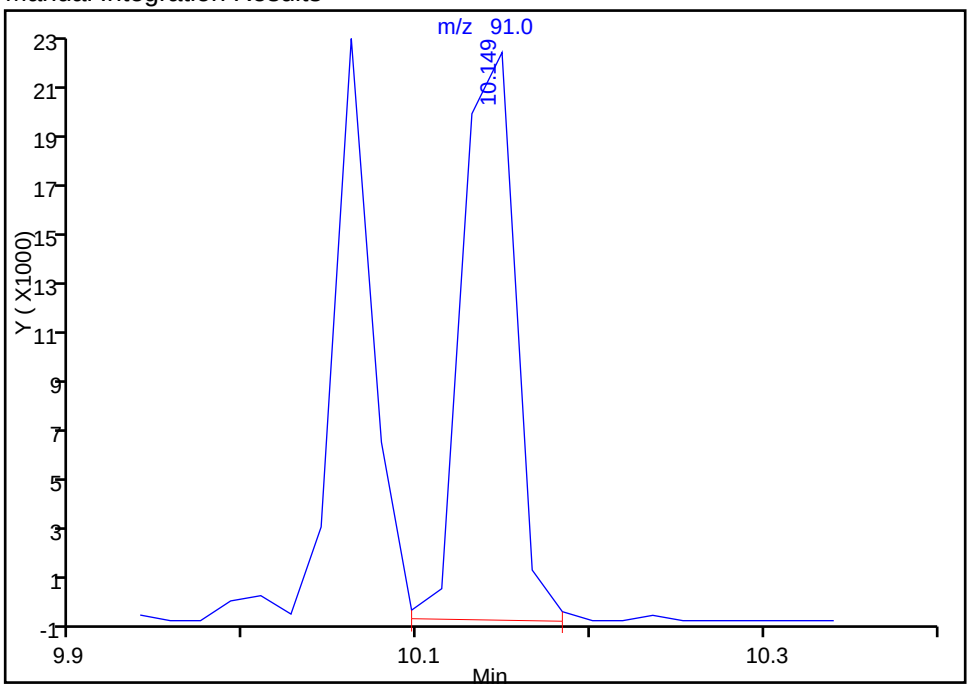
Processing Integration Results

RT: 10.15
Area: 47462
Amount: 1.025356
Amount Units: ug/l



Manual Integration Results

RT: 10.15
Area: 47712
Amount: 1.028627
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:42:14
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6812.D
Lims ID: STD002
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-May-2015 18:10:30 ALS Bottle#: 13 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD002
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:37 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 18:44:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.728	5.728	0.000	100	607852	1000.0	1000.0	
* 1 Fluorobenzene	96	7.712	7.712	0.000	98	1129123	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.010	10.010	0.000	86	311494	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.872	11.872	0.000	96	499775	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.173	7.173	0.000	92	16208	2.00	1.98	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.468	7.468	0.000	99	17438	2.00	2.05	
$ 7 Toluene-d8 (Surr)	98	8.913	8.913	0.000	93	51303	2.00	2.23	
$ 8 4-Bromofluorobenzene (Surr	95	10.898	10.898	0.000	95	23799	2.00	2.34	
25 Dichlorodifluoromethane	85	4.004	4.004	0.000	98	12109	2.00	2.89	
27 Chloromethane	50	4.213	4.213	0.000	99	14703	2.00	4.70	
28 Vinyl chloride	62	4.353	4.353	0.000	95	10873	2.00	4.21	
31 Bromomethane	94	4.718	4.718	0.000	93	10349	2.00	2.99	
32 Chloroethane	64	4.788	4.788	0.000	95	6777	2.00	-0.5504	
33 Dichlorofluoromethane	67	4.962	4.962	0.000	97	23411	2.00	3.88	
34 Trichlorofluoromethane	101	5.066	5.066	0.000	97	17425	2.00	2.71	
37 Ethyl ether	59	5.206	5.206	0.000	94	7071	2.00	1.76	
40 Acrolein	56	5.362	5.362	0.000	94	11379	20.0	20.3	
41 Acetone	43	5.449	5.449	0.000	97	18426	8.00	9.06	
42 1,1,2-Trichloro-1,2,2-trif	151	5.467	5.467	0.000	92	11126	2.00	2.03	
45 1,1-Dichloroethene	96	5.501	5.501	0.000	95	14116	2.00	2.11	
48 Methyl acetate	43	5.693	5.693	0.000	97	44902	10.0	10.0	
46 Iodomethane	142	5.676	5.676	0.000	97	28259	2.00	1.98	
49 3-Chloro-1-propene	41	5.745	5.745	0.000	83	29908	2.00	2.28	
50 2-Methyl-2-propanol	59	5.797	5.797	0.000	48	13716	20.0	20.9	
51 Carbon disulfide	76	5.797	5.797	0.000	99	59490	2.00	2.23	
52 Methylene Chloride	84	5.850	5.850	0.000	94	36757	2.00	2.11	
53 Acrylonitrile	53	6.006	6.006	0.000	96	36772	20.0	19.5	
54 Methyl tert-butyl ether	73	6.024	6.024	0.000	99	32835	2.00	1.94	
55 trans-1,2-Dichloroethene	96	6.076	6.076	0.000	96	14608	2.00	2.08	
56 Hexane	57	6.233	6.233	0.000	91	22642	2.00	2.36	
57 Vinyl acetate	43	6.320	6.320	0.000	98	46766	4.00	4.13	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.389	6.389	0.000	96	23519	2.00	1.92	
63 2-Butanone (MEK)	43	6.772	6.772	0.000	99	31829	8.00	9.01	
64 sec-Butyl Alcohol	45	6.807	6.807	0.000	95	30668	60.0	60.8	
65 cis-1,2-Dichloroethene	96	6.824	6.824	0.000	86	15184	2.00	2.04	
67 2,2-Dichloropropane	77	6.859	6.859	0.000	85	21648	2.00	1.97	
69 Chlorobromomethane	128	7.033	7.033	0.000	93	7327	2.00	1.90	
70 Chloroform	83	7.033	7.033	0.000	94	24691	2.00	1.91	
71 Tetrahydrofuran	42		7.050				ND	ND	
72 Isobutyl alcohol	41	7.242	7.242	0.000	72	8754	50.0	44.9	
73 1,1,1-Trichloroethane	97	7.260	7.260	0.000	98	21099	2.00	1.96	
74 Cyclohexane	56	7.329	7.329	0.000	94	30635	2.00	2.52	
75 1,1-Dichloropropene	75	7.364	7.364	0.000	95	18943	2.00	2.05	
76 Carbon tetrachloride	117	7.399	7.399	0.000	95	18542	2.00	1.85	
77 1,2-Dichloroethane	62	7.521	7.521	0.000	93	18836	2.00	1.88	
79 Benzene	78	7.538	7.538	0.000	98	49375	2.00	2.02	
14 n-Heptane	43	7.608	7.608	0.000	92	23251	2.00	2.07	
81 Trichloroethene	130	8.008	8.008	0.000	96	15828	2.00	2.05	
82 2-Pentanone	43	8.043	8.043	0.000	98	54314	8.00	7.08	
85 Methylcyclohexane	55	8.200	8.200	0.000	82	25136	2.00	2.01	
84 1,2-Dichloropropane	63	8.200	8.200	0.000	69	15140	2.00	2.26	
86 1,4-Dioxane	88	8.252	8.252	0.000	29	2377	40.0	41.1	a
87 Dibromomethane	93	8.304	8.304	0.000	94	9053	2.00	1.92	
88 Dichlorobromomethane	83	8.374	8.374	0.000	98	18522	2.00	1.86	
89 2-Chloroethyl vinyl ether	63	8.495	8.495	0.000	90	3076	2.00	2.68	
91 cis-1,3-Dichloropropene	75	8.687	8.687	0.000	95	22294	2.00	2.07	
92 4-Methyl-2-pentanone (MIBK	43	8.739	8.739	0.000	97	42277	8.00	7.06	
93 Toluene	91	8.965	8.965	0.000	98	55257	2.00	2.11	
94 Ethyl methacrylate	69	9.035	9.035	0.000	88	14720	2.00	2.02	
95 trans-1,3-Dichloropropene	75	9.053	9.053	0.000	98	18729	2.00	2.09	
96 1,1,2-Trichloroethane	97	9.227	9.227	0.000	81	10627	2.00	1.91	a
97 2-Hexanone	43	9.331	9.331	0.000	97	35894	8.00	8.21	
98 1,3-Dichloropropane	76	9.366	9.366	0.000	83	18522	2.00	2.01	a
99 Tetrachloroethene	164	9.383	9.383	0.000	97	12904	2.00	2.07	
100 Chlorodibromomethane	129	9.557	9.557	0.000	88	13550	2.00	1.79	
102 Ethylene Dibromide	107	9.679	9.679	0.000	99	12560	2.00	1.93	
103 1-Chlorohexane	91	9.905	9.905	0.000	95	20954	2.00	2.06	
104 Chlorobenzene	112	10.027	10.027	0.000	96	37107	2.00	2.07	
105 Ethylbenzene	106	10.062	10.062	0.000	99	20081	2.00	2.22	M
106 1,1,1,2-Tetrachloroethane	131	10.062	10.062	0.000	42	13297	2.00	1.93	
107 m-Xylene & p-Xylene	91	10.149	10.149	0.000	99	71644	2.00	2.01	
108 Styrene	104	10.462	10.462	0.000	81	36039	2.00	2.05	
109 o-Xylene	106	10.462	10.462	0.000	89	24672	2.00	2.24	
110 Bromoform	173	10.689	10.689	0.000	94	8206	2.00	2.19	
111 Isopropylbenzene	105	10.724	10.724	0.000	96	61452	2.00	2.07	
113 Cyclohexanone	55	10.863	10.863	0.000	92	15420	80.0	81.4	
114 1,1,2,2-Tetrachloroethane	83	10.950	10.950	0.000	93	14498	2.00	1.89	
115 trans-1,4-Dichloro-2-buten	53	10.967	10.967	0.000	83	4143	2.00	2.10	
116 1,2,3-Trichloropropane	110	11.019	11.019	0.000	82	4079	2.00	1.94	
117 N-Propylbenzene	120	11.054	11.054	0.000	98	16259	2.00	2.14	
118 Bromobenzene	156	11.066	11.059	0.007	0	0	2.00	0	a
119 1,3,5-Trimethylbenzene	105	11.176	11.176	0.000	95	50261	2.00	2.07	
120 2-Chlorotoluene	126	11.194	11.194	0.000	96	14656	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.263	11.263	0.000	98	15242	2.00	2.06	
122 tert-Butylbenzene	119	11.472	11.472	0.000	92	50849	2.00	2.10	
123 1,2,4-Trimethylbenzene	105	11.507	11.507	0.000	95	53097	2.00	2.09	
124 sec-Butylbenzene	134	11.664	11.664	0.000	94	12401	2.00	2.06	
125 4-Isopropyltoluene	119	11.751	11.751	0.000	97	56026	2.00	2.07	
126 1,3-Dichlorobenzene	146	11.838	11.838	0.000	89	30743	2.00	2.12	
128 1,4-Dichlorobenzene	146	11.907	11.907	0.000	96	29614	2.00	2.02	
129 n-Butylbenzene	91	12.116	12.116	0.000	98	53996	2.00	2.11	
130 1,2-Dichlorobenzene	146	12.273	12.273	0.000	98	27357	2.00	2.05	
131 1,2-Dibromo-3-Chloropropan	157	13.039	13.039	0.000	87	2735	2.00	3.53	
132 1,2,4-Trichlorobenzene	180	14.013	14.013	0.000	94	19602	2.00	2.03	
133 Hexachlorobutadiene	225	14.153	14.153	0.000	96	11725	2.00	2.04	
134 Naphthalene	128	14.379	14.379	0.000	98	37905	2.00	2.00	
135 1,2,3-Trichlorobenzene	180	14.710	14.710	0.000	93	16056	2.00	1.89	
S 142 1,2-Dichloroethene, Total	96				0		4.00	4.12	
S 137 Xylenes, Total (URS)	1				0		4.00	4.25	
S 138 Total BTEX	1				0			10.6	
S 136 Trihalomethanes, Total	1				0		8.00	7.76	
S 139 1,3-Dichloropropene, Total	1				0		4.00	4.15	
S 140 1,2-Dichloroethene, Total	1				0		4.00	4.12	
S 141 Xylenes, Total	106				0		4.00	4.25	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

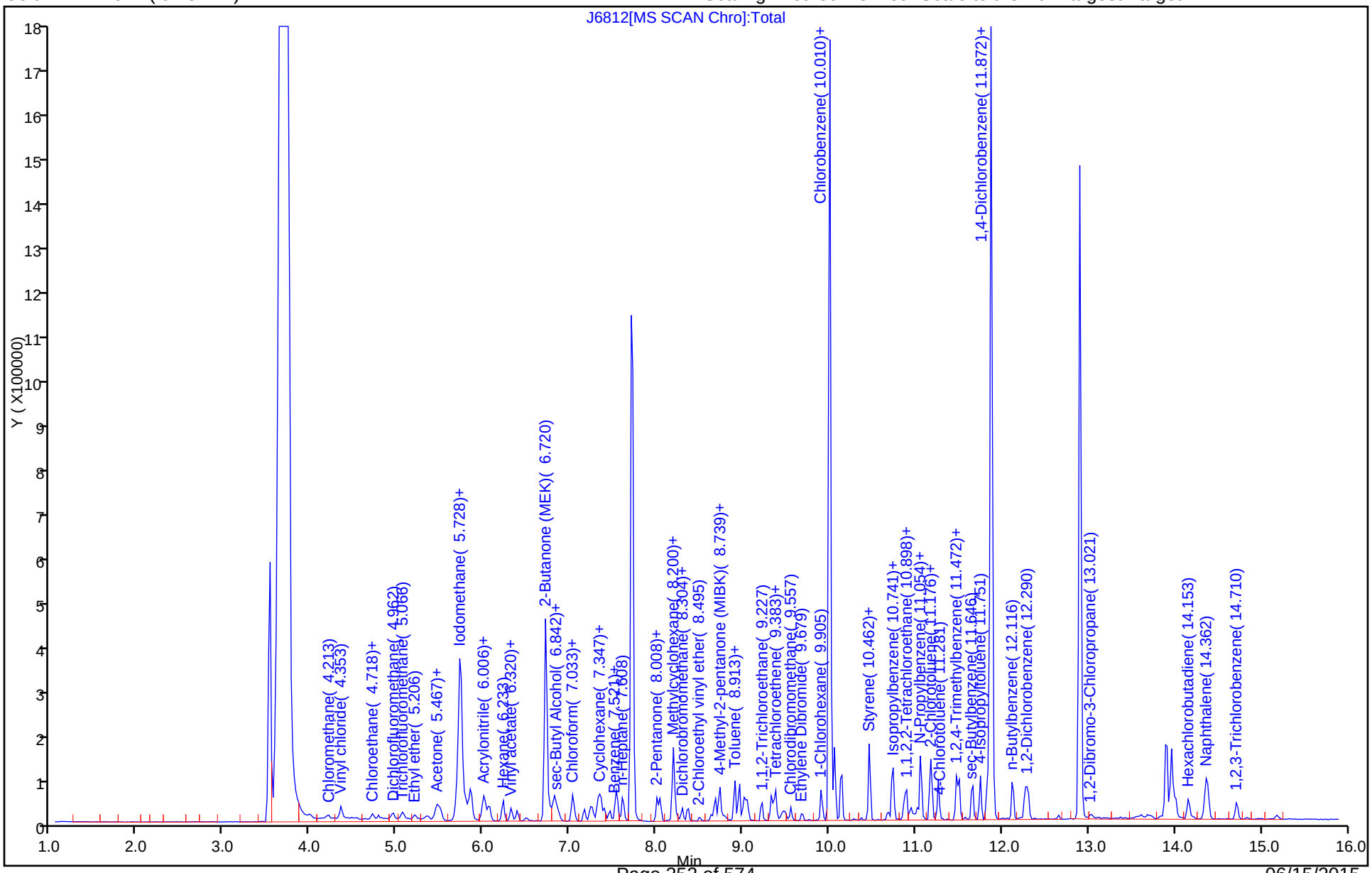
MV-Gas/Ket A_00033	Amount Added:	0.25	Units: uL
MV-Main A_00022	Amount Added:	0.25	Units: uL
MV-2cleve+AVA_00009	Amount Added:	0.25	Units: uL
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00045	Amount Added:	0.04	Units: uL

Report Date: 19-May-2015 18:48:38 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6812.D				
Injection Date:	18-May-2015 18:10:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	STD002			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

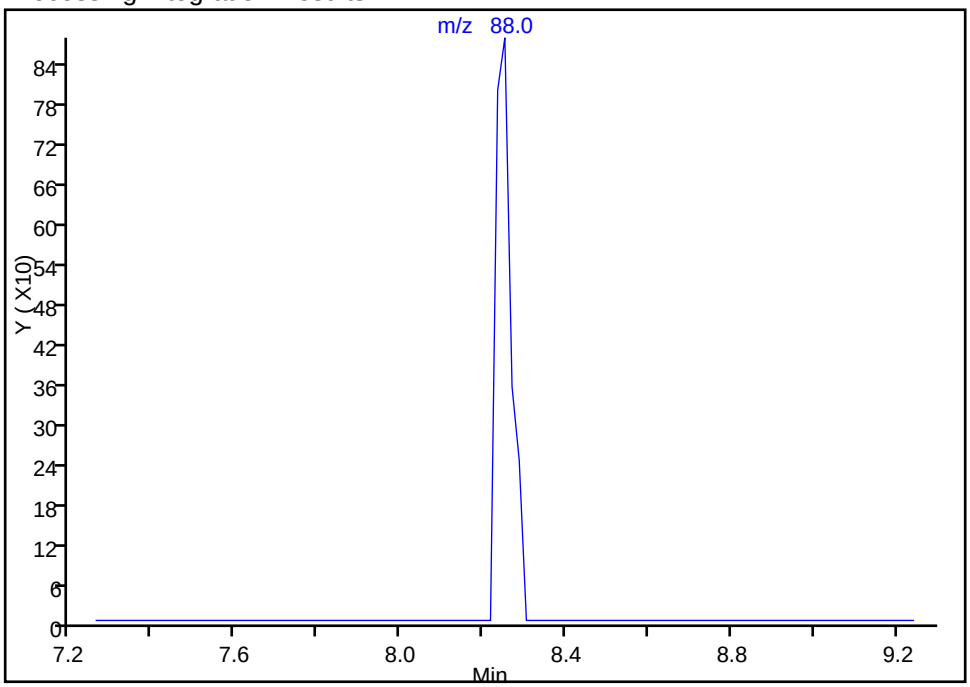
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6812.D				
Injection Date:	18-May-2015 18:10:30	Instrument ID:	VMS_J		
Lims ID:	STD002				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	13	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

86 1,4-Dioxane, CAS: 123-91-1

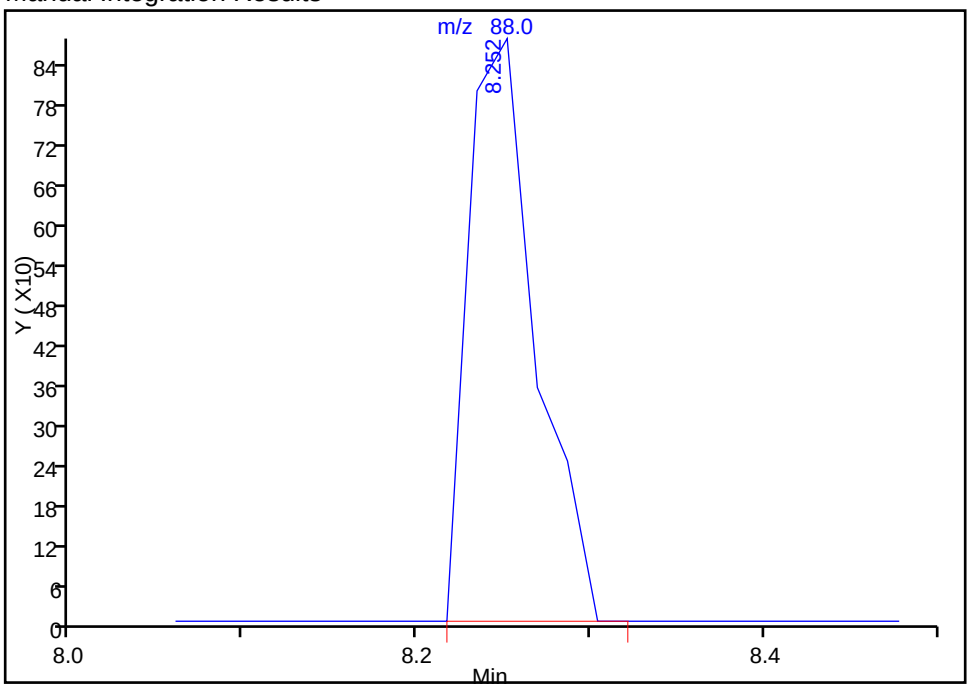
Not Detected
Expected RT: 8.25

Processing Integration Results



Manual Integration Results

RT: 8.25
Area: 2377
Amount: 41.133131
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 18:44:35
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

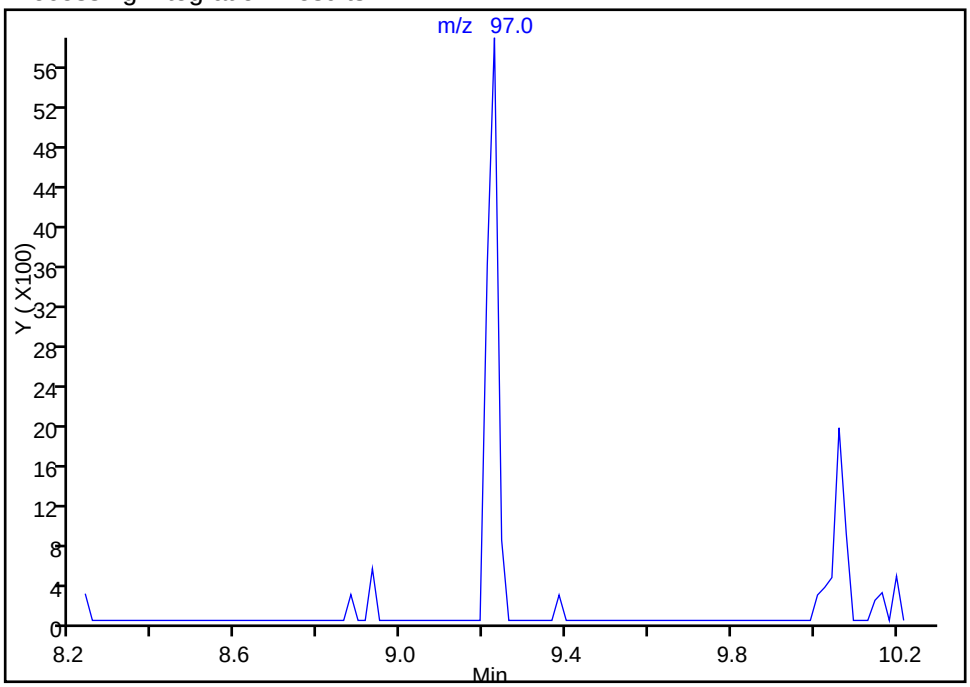
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6812.D				
Injection Date:	18-May-2015 18:10:30	Instrument ID:	VMS_J		
Lims ID:	STD002				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	13	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

96 1,1,2-Trichloroethane, CAS: 79-00-5

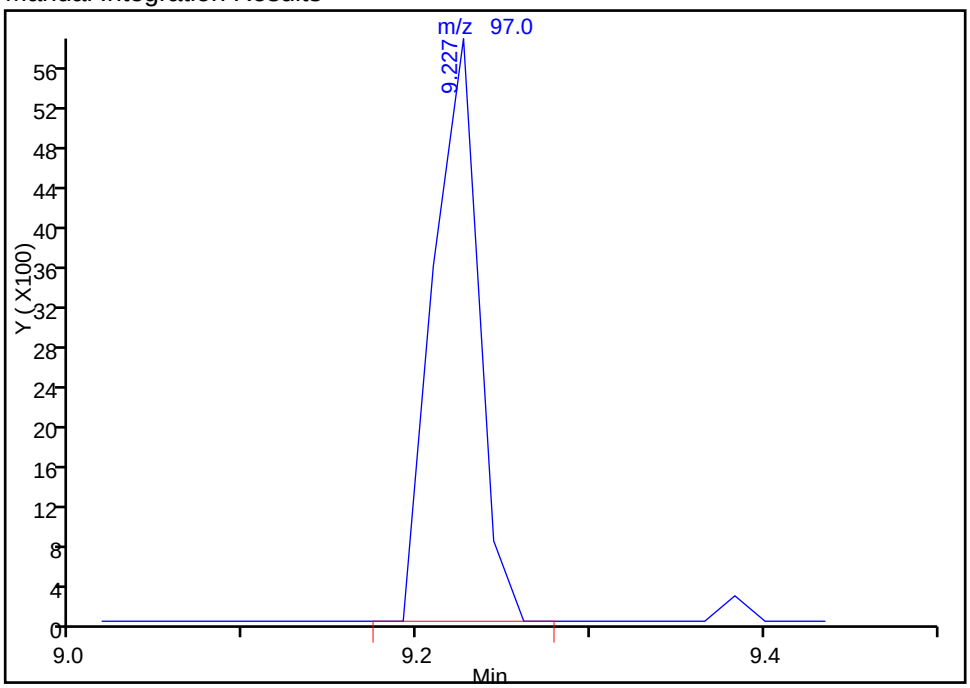
Not Detected
Expected RT: 9.23

Processing Integration Results



RT: 9.23
Area: 10627
Amount: 1.912704
Amount Units: ug/l

Manual Integration Results



Reviewer: dukesa, 18-May-2015 18:44:35
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

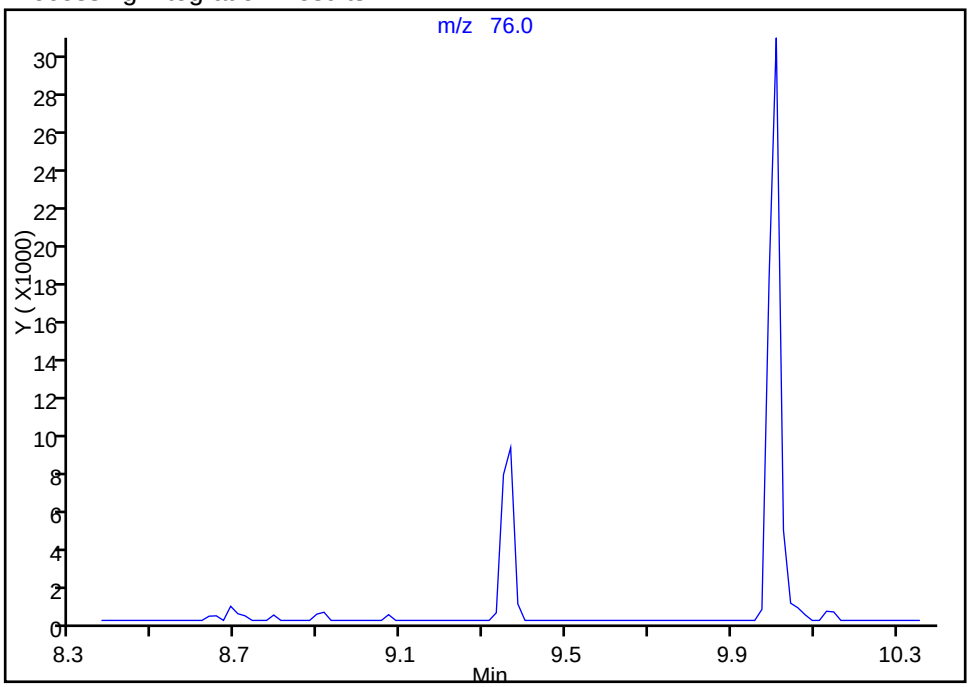
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6812.D				
Injection Date:	18-May-2015 18:10:30	Instrument ID:	VMS_J		
Lims ID:	STD002				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	13	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

98 1,3-Dichloropropane, CAS: 142-28-9

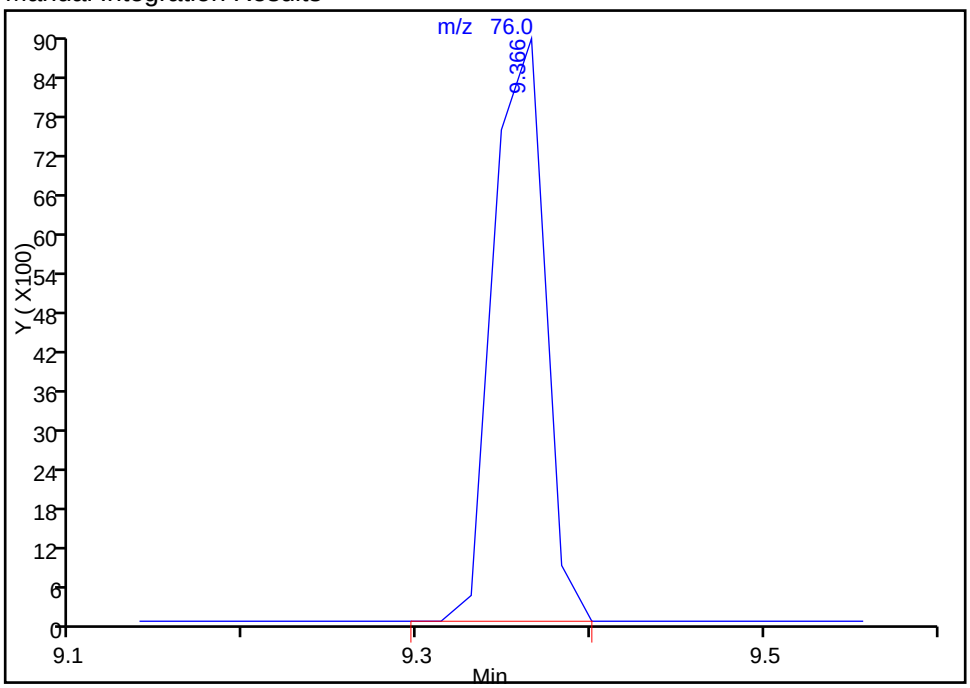
Processing Integration Results

Not Detected
Expected RT: 9.37



Manual Integration Results

RT: 9.37
Area: 18522
Amount: 2.007788
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 18:44:35
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

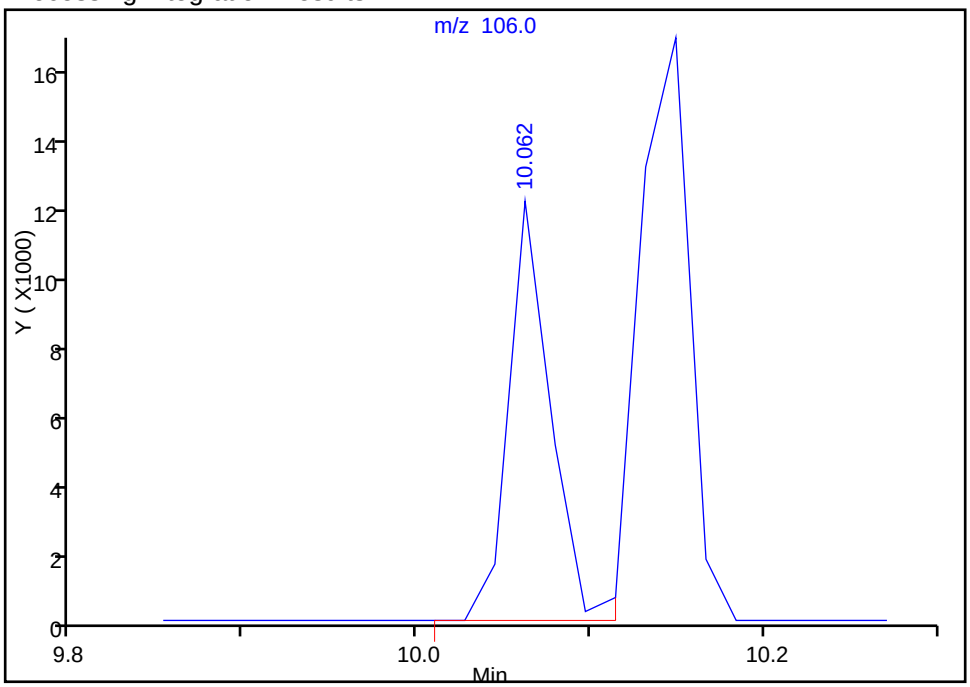
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6812.D				
Injection Date:	18-May-2015 18:10:30	Instrument ID:	VMS_J		
Lims ID:	STD002				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	13	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4

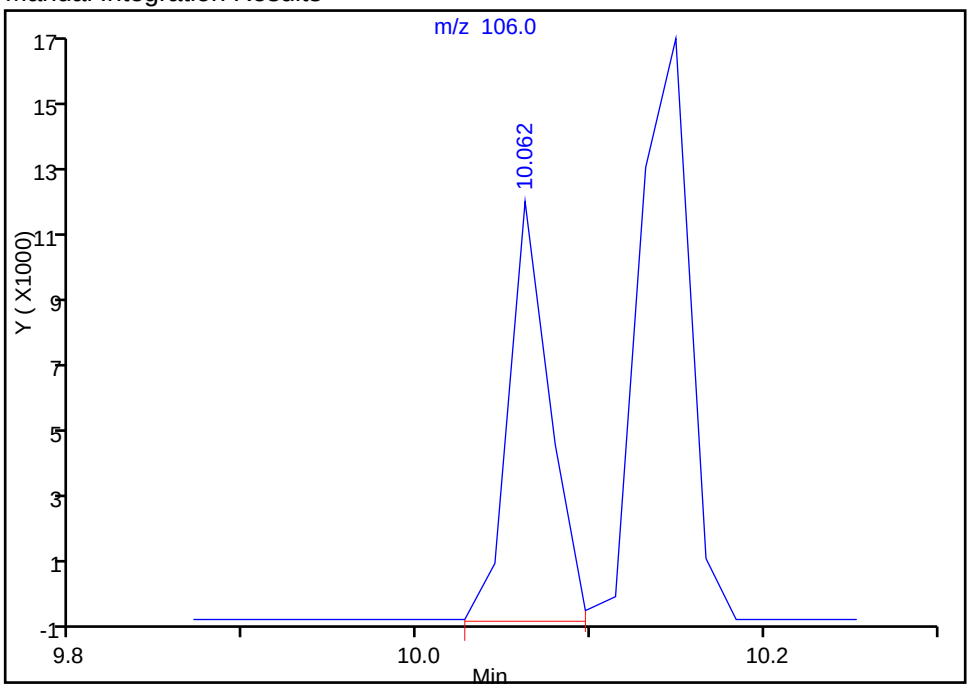
Processing Integration Results

RT: 10.06
Area: 20508
Amount: 2.248916
Amount Units: ug/l



Manual Integration Results

RT: 10.06
Area: 20081
Amount: 2.222968
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:42:35
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6813.D
Lims ID: STD005
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-May-2015 18:30:30 ALS Bottle#: 14 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD005
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 19:10:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.729	5.729	0.000	100	626817	1000.0	1000.0	
* 1 Fluorobenzene	96	7.714	7.714	0.000	98	1102865	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.011	10.011	0.000	85	306764	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.874	11.874	0.000	96	495000	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.174	7.174	0.000	91	37858	5.00	4.73	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.470	7.470	0.000	98	37966	5.00	4.56	
$ 7 Toluene-d8 (Surr)	98	8.915	8.915	0.000	93	110919	5.00	4.90	
$ 8 4-Bromofluorobenzene (Surr	95	10.882	10.882	0.000	70	47268	5.00	4.69	
25 Dichlorodifluoromethane	85	4.006	4.006	0.000	99	27018	5.00	4.63	
27 Chloromethane	50	4.198	4.198	0.000	98	23867	5.00	5.91	
28 Vinyl chloride	62	4.354	4.354	0.000	92	19803	5.00	5.55	
31 Bromomethane	94	4.720	4.720	0.000	94	21123	5.00	4.99	
32 Chloroethane	64	4.789	4.789	0.000	96	12111	5.00	1.08	
33 Dichlorofluoromethane	67	4.946	4.946	0.000	97	40919	5.00	5.21	
34 Trichlorofluoromethane	101	5.068	5.068	0.000	96	38583	5.00	4.43	
37 Ethyl ether	59	5.207	5.207	0.000	94	15603	5.00	3.98	
40 Acrolein	56	5.364	5.364	0.000	98	22489	50.0	41.0	
41 Acetone	43	5.451	5.451	0.000	97	36941	20.0	18.6	
42 1,1,2-Trichloro-1,2,2-trif	151	5.468	5.468	0.000	90	22438	5.00	4.19	
45 1,1-Dichloroethene	96	5.503	5.503	0.000	97	28986	5.00	4.43	
46 Iodomethane	142	5.677	5.677	0.000	99	59852	5.00	4.29	
48 Methyl acetate	43	5.695	5.695	0.000	99	94248	25.0	21.6	
49 3-Chloro-1-propene	41	5.747	5.747	0.000	81	53803	5.00	4.21	
50 2-Methyl-2-propanol	59	5.799	5.799	0.000	48	29199	50.0	43.1	
51 Carbon disulfide	76	5.799	5.799	0.000	99	118023	5.00	4.52	
52 Methylene Chloride	84	5.851	5.851	0.000	94	52078	5.00	4.49	
53 Acrylonitrile	53	6.008	6.008	0.000	97	80976	50.0	43.9	
54 Methyl tert-butyl ether	73	6.025	6.025	0.000	97	74173	5.00	4.49	
55 trans-1,2-Dichloroethene	96	6.077	6.077	0.000	98	31286	5.00	4.56	
56 Hexane	57	6.234	6.234	0.000	92	44354	5.00	4.69	
57 Vinyl acetate	43	6.321	6.321	0.000	97	99393	10.0	8.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.391	6.391	0.000	96	53121	5.00	4.45	
63 2-Butanone (MEK)	43	6.774	6.774	0.000	98	67354	20.0	19.5	
64 sec-Butyl Alcohol	45	6.809	6.809	0.000	95	68268	150.0	131.2	
65 cis-1,2-Dichloroethene	96	6.826	6.826	0.000	86	32377	5.00	4.46	
67 2,2-Dichloropropane	77	6.861	6.861	0.000	87	45782	5.00	4.26	
69 Chlorobromomethane	128	7.035	7.035	0.000	94	16822	5.00	4.47	
70 Chloroform	83	7.035	7.035	0.000	95	56207	5.00	4.46	
71 Tetrahydrofuran	42	7.052	7.052	0.000	84	16187	10.0	9.32	
72 Isobutyl alcohol	41	7.226	7.226	0.000	35	22306	125.0	111.1	
73 1,1,1-Trichloroethane	97	7.261	7.261	0.000	98	44772	5.00	4.26	
74 Cyclohexane	56	7.331	7.331	0.000	95	55426	5.00	4.66	
75 1,1-Dichloropropene	75	7.366	7.366	0.000	97	40336	5.00	4.47	
76 Carbon tetrachloride	117	7.400	7.400	0.000	95	42618	5.00	4.35	
77 1,2-Dichloroethane	62	7.522	7.522	0.000	95	44119	5.00	4.52	
79 Benzene	78	7.540	7.540	0.000	99	104660	5.00	4.37	
14 n-Heptane	43	7.609	7.609	0.000	93	49905	5.00	4.54	
81 Trichloroethene	130	8.010	8.010	0.000	97	34591	5.00	4.58	
82 2-Pentanone	43	8.044	8.044	0.000	98	133599	20.0	17.8	
84 1,2-Dichloropropane	63	8.201	8.201	0.000	72	30601	5.00	4.69	
85 Methylcyclohexane	55	8.201	8.201	0.000	89	47984	5.00	4.49	
86 1,4-Dioxane	88	8.253	8.253	0.000	85	4922	100.0	87.2	
87 Dibromomethane	93	8.306	8.306	0.000	91	20554	5.00	4.47	
88 Dichlorobromomethane	83	8.358	8.358	0.000	98	41496	5.00	4.28	
89 2-Chloroethyl vinyl ether	63	8.497	8.497	0.000	92	6957	5.00	4.48	
91 cis-1,3-Dichloropropene	75	8.689	8.689	0.000	95	46468	5.00	4.38	
92 4-Methyl-2-pentanone (MIBK	43	8.741	8.741	0.000	98	98534	20.0	16.8	
93 Toluene	91	8.967	8.967	0.000	98	117968	5.00	4.60	
94 Ethyl methacrylate	69	9.037	9.037	0.000	91	31470	5.00	4.39	
95 trans-1,3-Dichloropropene	75	9.054	9.054	0.000	99	41143	5.00	4.41	
96 1,1,2-Trichloroethane	97	9.228	9.228	0.000	92	23741	5.00	4.37	
97 2-Hexanone	43	9.333	9.333	0.000	98	71514	20.0	16.6	
98 1,3-Dichloropropane	76	9.350	9.350	0.000	97	40841	5.00	4.50	
99 Tetrachloroethene	164	9.385	9.385	0.000	98	27398	5.00	4.47	
100 Chlorodibromomethane	129	9.559	9.559	0.000	89	30888	5.00	4.15	
102 Ethylene Dibromide	107	9.681	9.681	0.000	99	27315	5.00	4.26	
103 1-Chlorohexane	91	9.907	9.907	0.000	96	46760	5.00	4.66	
104 Chlorobenzene	112	10.029	10.029	0.000	97	80296	5.00	4.56	
105 Ethylbenzene	106	10.064	10.064	0.000	99	41817	5.00	4.70	
106 1,1,1,2-Tetrachloroethane	131	10.064	10.064	0.000	44	30584	5.00	4.51	
107 m-Xylene & p-Xylene	91	10.133	10.133	0.000	99	124377	5.00	4.35	M
108 Styrene	104	10.464	10.464	0.000	84	77407	5.00	4.47	
109 o-Xylene	106	10.464	10.464	0.000	88	48472	5.00	4.47	
110 Bromoform	173	10.673	10.673	0.000	96	19343	5.00	4.16	
111 Isopropylbenzene	105	10.725	10.725	0.000	97	132688	5.00	4.52	
113 Cyclohexanone	55	10.864	10.864	0.000	93	33121	200.0	177.5	
114 1,1,2,2-Tetrachloroethane	83	10.934	10.934	0.000	93	32008	5.00	4.22	
115 trans-1,4-Dichloro-2-buten	53	10.969	10.969	0.000	69	7590	5.00	3.89	
116 1,2,3-Trichloropropane	110	11.021	11.021	0.000	80	8805	5.00	4.24	
117 N-Propylbenzene	120	11.056	11.056	0.000	98	34161	5.00	4.55	
118 Bromobenzene	156	11.073	11.073	0.000	90	35512	5.00	4.41	
119 1,3,5-Trimethylbenzene	105	11.178	11.178	0.000	95	110389	5.00	4.58	
120 2-Chlorotoluene	126	11.195	11.195	0.000	97	31843	5.00	4.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.195	11.195	0.000	98	31843	5.00	4.34	
122 tert-Butylbenzene	119	11.474	11.474	0.000	92	109333	5.00	4.55	
123 1,2,4-Trimethylbenzene	105	11.508	11.508	0.000	94	110810	5.00	4.39	
124 sec-Butylbenzene	134	11.665	11.665	0.000	95	27032	5.00	4.53	
125 4-Isopropyltoluene	119	11.752	11.752	0.000	97	119917	5.00	4.48	
126 1,3-Dichlorobenzene	146	11.822	11.822	0.000	91	64760	5.00	4.51	
128 1,4-Dichlorobenzene	146	11.891	11.891	0.000	95	66050	5.00	4.55	
129 n-Butylbenzene	91	12.118	12.118	0.000	98	114438	5.00	4.51	
130 1,2-Dichlorobenzene	146	12.274	12.274	0.000	97	58936	5.00	4.47	
131 1,2-Dibromo-3-Chloropropan	157	13.040	13.040	0.000	84	6399	5.00	5.60	
132 1,2,4-Trichlorobenzene	180	14.015	14.015	0.000	94	42550	5.00	4.46	
133 Hexachlorobutadiene	225	14.154	14.154	0.000	97	24416	5.00	4.29	
134 Naphthalene	128	14.381	14.381	0.000	98	81521	5.00	4.34	
135 1,2,3-Trichlorobenzene	180	14.711	14.711	0.000	95	37242	5.00	4.42	
S 142 1,2-Dichloroethene, Total	96				0		10.0	9.02	
S 137 Xylenes, Total (URS)	1				0		10.0	8.82	
S 138 Total BTEX	1				0			22.5	
S 136 Trihalomethanes, Total	1				0		20.0	17.0	
S 139 1,3-Dichloropropene, Total	1				0		10.0	8.79	
S 140 1,2-Dichloroethene, Total	1				0		10.0	9.02	
S 141 Xylenes, Total	106				0		10.0	8.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

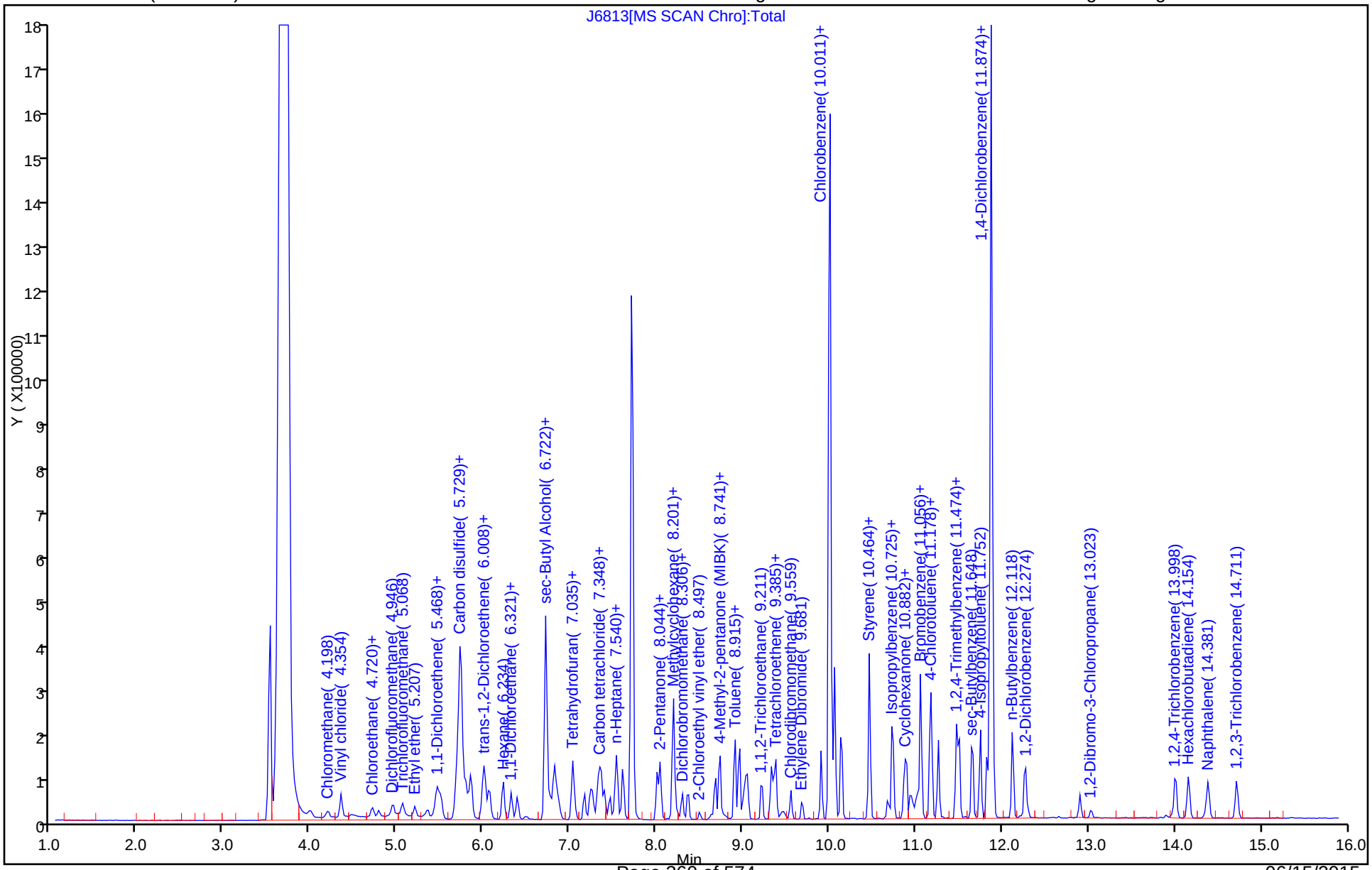
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-Gas/Ket A_00033	Amount Added:	0.63	Units: uL
MV-Main A_00022	Amount Added:	0.63	Units: uL
MV-2cleve+AVA_00009	Amount Added:	0.63	Units: uL
MV-ARCH SS A_00045	Amount Added:	0.10	Units: uL

Report Date: 19-May-2015 18:48:39 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6813.D				
Injection Date:	18-May-2015 18:30:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	STD005			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

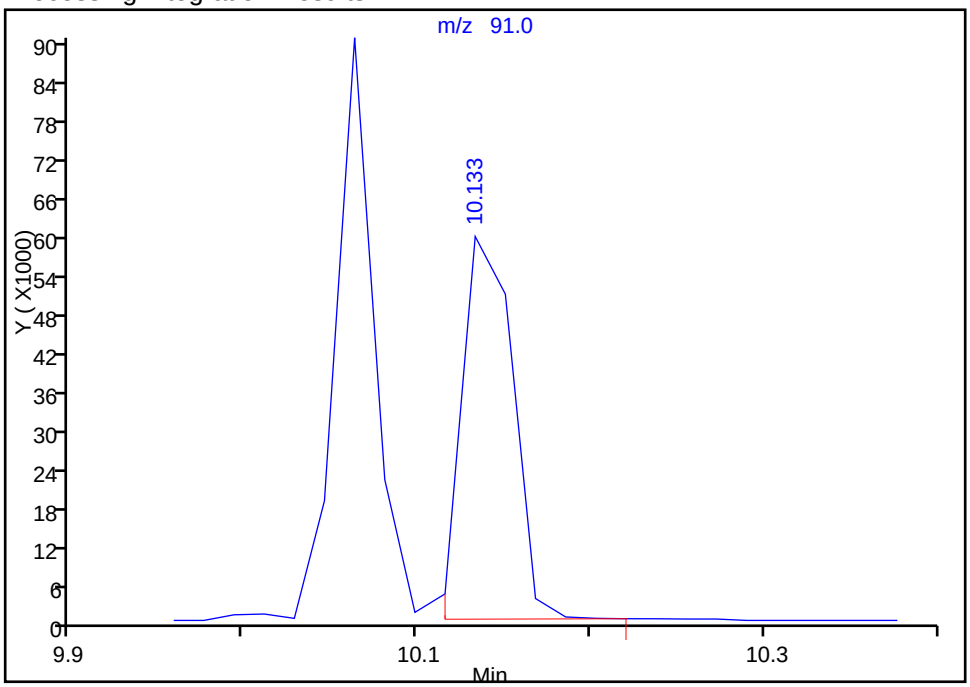
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6813.D				
Injection Date:	18-May-2015 18:30:30	Instrument ID:	VMS_J		
Lims ID:	STD005				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	14	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

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

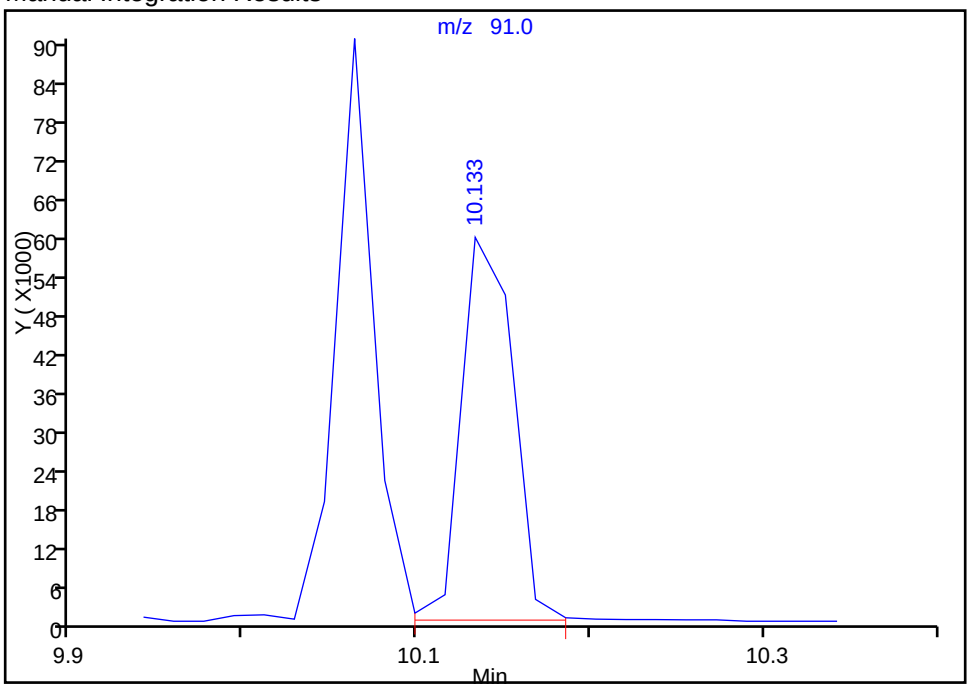
Processing Integration Results

RT: 10.13
Area: 123158
Amount: 4.332894
Amount Units: ug/l



Manual Integration Results

RT: 10.13
Area: 124377
Amount: 4.350327
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:45:37
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6814.D
Lims ID: STD010
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-May-2015 18:50:30 ALS Bottle#: 15 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD010
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:39 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 19:14:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.729	5.729	0.000	100	569530	1000.0	1000.0	
* 1 Fluorobenzene	96	7.714	7.714	0.000	97	1045928	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.012	10.012	0.000	86	294062	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.874	11.874	0.000	96	457119	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.174	7.174	0.000	92	74451	10.0	9.81	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.470	7.470	0.000	98	78579	10.0	9.96	
$ 7 Toluene-d8 (Surr)	98	8.915	8.915	0.000	93	222452	10.0	10.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.882	10.882	0.000	87	96132	10.0	10.3	
25 Dichlorodifluoromethane	85	3.989	3.989	0.000	99	54870	10.0	8.18	
27 Chloromethane	50	4.215	4.215	0.000	97	46132	10.0	9.06	
28 Vinyl chloride	62	4.354	4.354	0.000	92	43560	10.0	9.36	
31 Bromomethane	94	4.720	4.720	0.000	94	42822	10.0	9.37	
32 Chloroethane	64	4.789	4.789	0.000	98	28611	10.0	6.43	
33 Dichlorofluoromethane	67	4.964	4.964	0.000	97	93223	10.0	9.45	
34 Trichlorofluoromethane	101	5.068	5.068	0.000	100	86078	10.0	8.59	
37 Ethyl ether	59	5.207	5.207	0.000	96	34404	10.0	9.25	
40 Acrolein	56	5.346	5.346	0.000	97	42420	100.0	81.6	
41 Acetone	43	5.451	5.451	0.000	96	64011	40.0	34.0	
42 1,1,2-Trichloro-1,2,2-trif	151	5.468	5.468	0.000	96	44067	10.0	8.67	
45 1,1-Dichloroethene	96	5.503	5.503	0.000	97	56296	10.0	9.06	
46 Iodomethane	142	5.677	5.677	0.000	97	121996	10.0	9.21	
48 Methyl acetate	43	5.695	5.695	0.000	99	193703	50.0	46.7	
49 3-Chloro-1-propene	41	5.747	5.747	0.000	80	120621	10.0	9.94	
51 Carbon disulfide	76	5.799	5.799	0.000	99	228655	10.0	9.24	
50 2-Methyl-2-propanol	59	5.799	5.799	0.000	47	53880	100.0	87.5	
52 Methylene Chloride	84	5.851	5.851	0.000	95	80989	10.0	9.37	
53 Acrylonitrile	53	5.991	5.991	0.000	97	165833	100.0	94.8	
54 Methyl tert-butyl ether	73	6.025	6.025	0.000	97	146132	10.0	9.32	
55 trans-1,2-Dichloroethene	96	6.078	6.078	0.000	98	60429	10.0	9.29	
56 Hexane	57	6.234	6.234	0.000	91	85742	10.0	9.46	
57 Vinyl acetate	43	6.321	6.321	0.000	98	202125	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.391	6.391	0.000	97	107411	10.0	9.48	
63 2-Butanone (MEK)	43	6.774	6.774	0.000	99	118145	40.0	36.1	
64 sec-Butyl Alcohol	45	6.809	6.809	0.000	95	133066	300.0	281.4	
65 cis-1,2-Dichloroethene	96	6.826	6.826	0.000	84	65402	10.0	9.50	
67 2,2-Dichloropropane	77	6.861	6.861	0.000	89	92769	10.0	9.11	
69 Chlorobromomethane	128	7.035	7.035	0.000	95	33364	10.0	9.35	
70 Chloroform	83	7.035	7.035	0.000	95	112351	10.0	9.40	
71 Tetrahydrofuran	42	7.052	7.052	0.000	87	30063	20.0	19.1	
72 Isobutyl alcohol	41	7.226	7.226	0.000	35	43477	250.0	238.3	
73 1,1,1-Trichloroethane	97	7.261	7.261	0.000	98	95242	10.0	9.56	
74 Cyclohexane	56	7.331	7.331	0.000	95	107125	10.0	9.51	
75 1,1-Dichloropropene	75	7.366	7.366	0.000	96	83001	10.0	9.71	
76 Carbon tetrachloride	117	7.400	7.400	0.000	97	87580	10.0	9.43	
77 1,2-Dichloroethane	62	7.522	7.522	0.000	92	86123	10.0	9.30	
79 Benzene	78	7.540	7.540	0.000	98	216341	10.0	9.53	
14 n-Heptane	43	7.609	7.609	0.000	94	98399	10.0	9.44	
81 Trichloroethene	130	8.010	8.010	0.000	97	65933	10.0	9.20	
82 2-Pentanone	43	8.045	8.045	0.000	98	271374	40.0	38.2	
84 1,2-Dichloropropane	63	8.201	8.201	0.000	73	58065	10.0	9.37	
85 Methylcyclohexane	55	8.201	8.201	0.000	89	89394	10.0	9.37	
86 1,4-Dioxane	88	8.236	8.236	0.000	85	9585	200.0	179.1	
87 Dibromomethane	93	8.306	8.306	0.000	92	41722	10.0	9.56	
88 Dichlorobromomethane	83	8.358	8.358	0.000	97	83118	10.0	9.03	
89 2-Chloroethyl vinyl ether	63	8.497	8.497	0.000	94	14780	10.0	8.40	
91 cis-1,3-Dichloropropene	75	8.689	8.689	0.000	95	92670	10.0	9.11	
92 4-Methyl-2-pentanone (MIBK	43	8.741	8.741	0.000	97	196376	40.0	35.4	
93 Toluene	91	8.967	8.967	0.000	98	225928	10.0	9.30	
94 Ethyl methacrylate	69	9.037	9.037	0.000	90	64033	10.0	9.32	
95 trans-1,3-Dichloropropene	75	9.054	9.054	0.000	99	82771	10.0	9.12	
96 1,1,2-Trichloroethane	97	9.228	9.228	0.000	93	48733	10.0	9.47	
97 2-Hexanone	43	9.333	9.333	0.000	97	149150	40.0	36.2	
98 1,3-Dichloropropane	76	9.350	9.350	0.000	97	82663	10.0	9.49	
99 Tetrachloroethene	164	9.385	9.385	0.000	98	56818	10.0	9.67	
100 Chlorodibromomethane	129	9.559	9.559	0.000	89	65214	10.0	9.14	
102 Ethylene Dibromide	107	9.681	9.681	0.000	97	57835	10.0	9.40	
103 1-Chlorohexane	91	9.907	9.907	0.000	97	93695	10.0	9.74	
104 Chlorobenzene	112	10.029	10.029	0.000	96	162270	10.0	9.61	
105 Ethylbenzene	106	10.064	10.064	0.000	97	79943	10.0	9.37	M
106 1,1,1,2-Tetrachloroethane	131	10.064	10.064	0.000	45	60443	10.0	9.30	
107 m-Xylene & p-Xylene	91	10.133	10.133	0.000	98	234564	10.0	9.58	M
108 Styrene	104	10.464	10.464	0.000	85	157474	10.0	9.48	
109 o-Xylene	106	10.464	10.464	0.000	88	97298	10.0	9.37	
110 Bromoform	173	10.673	10.673	0.000	96	40478	10.0	8.17	
111 Isopropylbenzene	105	10.725	10.725	0.000	97	267231	10.0	9.86	
113 Cyclohexanone	55	10.864	10.864	0.000	95	66773	400.0	373.4	
114 1,1,2,2-Tetrachloroethane	83	10.934	10.934	0.000	93	66093	10.0	9.44	
115 trans-1,4-Dichloro-2-buten	53	10.969	10.969	0.000	69	15550	10.0	8.64	
116 1,2,3-Trichloropropane	110	11.021	11.021	0.000	82	17890	10.0	9.33	
117 N-Propylbenzene	120	11.056	11.056	0.000	98	67896	10.0	9.78	
118 Bromobenzene	156	11.073	11.073	0.000	89	71037	10.0	9.54	
119 1,3,5-Trimethylbenzene	105	11.160	11.160	0.000	95	214283	10.0	9.63	
120 2-Chlorotoluene	126	11.195	11.195	0.000	98	62376	10.0	9.65	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.265	11.265	0.000	99	66380	10.0	9.81	
122 tert-Butylbenzene	119	11.474	11.474	0.000	92	212169	10.0	9.56	
123 1,2,4-Trimethylbenzene	105	11.509	11.509	0.000	95	219418	10.0	9.42	
124 sec-Butylbenzene	134	11.665	11.665	0.000	95	53825	10.0	9.77	
125 4-Isopropyltoluene	119	11.752	11.752	0.000	97	241124	10.0	9.76	
126 1,3-Dichlorobenzene	146	11.822	11.822	0.000	96	128372	10.0	9.68	
128 1,4-Dichlorobenzene	146	11.891	11.891	0.000	95	129969	10.0	9.70	
129 n-Butylbenzene	91	12.118	12.118	0.000	98	226123	10.0	9.65	
130 1,2-Dichlorobenzene	146	12.274	12.274	0.000	98	117064	10.0	9.61	
131 1,2-Dibromo-3-Chloropropan	157	13.040	13.040	0.000	87	12609	10.0	9.67	
132 1,2,4-Trichlorobenzene	180	14.015	14.015	0.000	93	83329	10.0	9.45	
133 Hexachlorobutadiene	225	14.154	14.154	0.000	98	50472	10.0	9.60	
134 Naphthalene	128	14.381	14.381	0.000	98	158726	10.0	9.15	
135 1,2,3-Trichlorobenzene	180	14.711	14.711	0.000	95	73958	10.0	9.51	
S 142 1,2-Dichloroethene, Total	96				0		20.0	18.8	
S 137 Xylenes, Total (URS)	1				0		20.0	19.0	
S 138 Total BTEX	1				0			47.2	
S 136 Trihalomethanes, Total	1				0		40.0	35.7	
S 139 1,3-Dichloropropene, Total	1				0		20.0	18.2	
S 140 1,2-Dichloroethene, Total	1				0		20.0	18.8	
S 141 Xylenes, Total	106				0		20.0	19.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-2cleve+AVA_00009	Amount Added:	1.25	Units: uL
MV-Main A_00022	Amount Added:	1.25	Units: uL
MV-Gas/Ket A_00033	Amount Added:	1.25	Units: uL
MV-ARCH SS A_00045	Amount Added:	0.20	Units: uL

Report Date: 19-May-2015 18:48:40 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6814.D

Injection Date: 18-May-2015 18:50:30 Instrument ID: VMS_J Operator ID: DUKESA

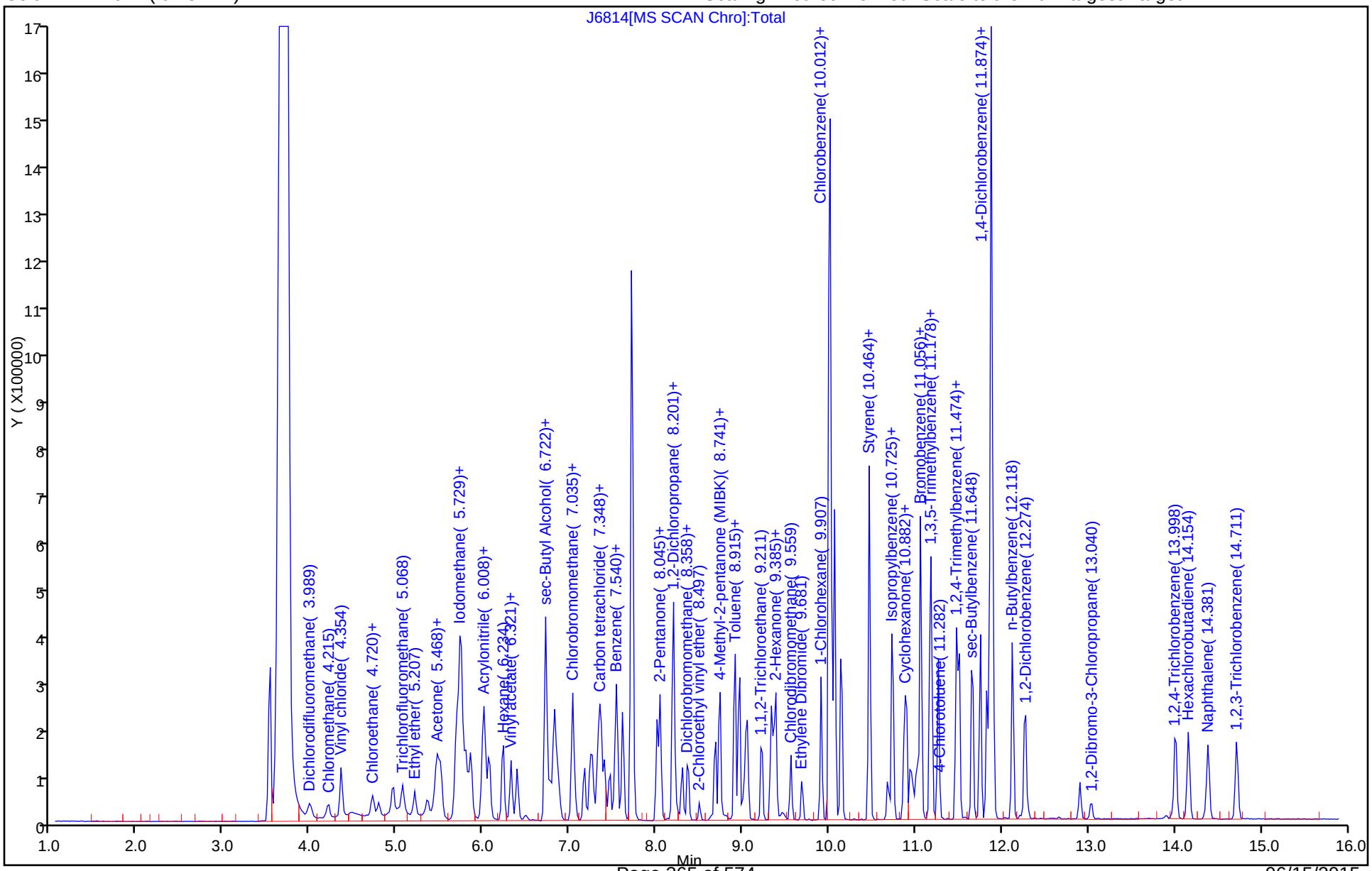
Lims ID: STD010 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

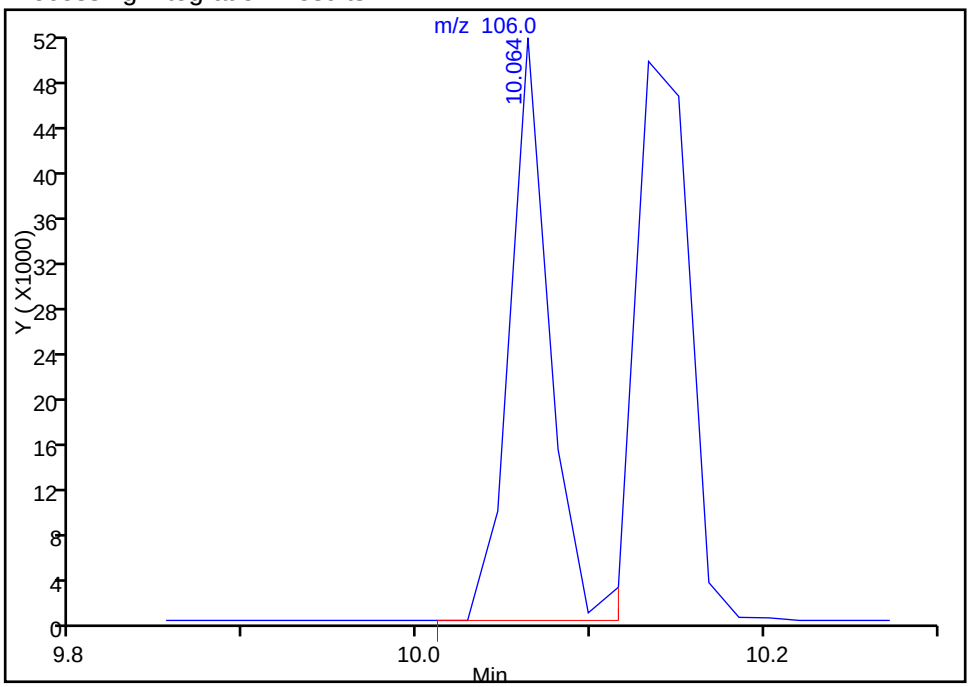
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6814.D				
Injection Date:	18-May-2015 18:50:30	Instrument ID:	VMS_J		
Lims ID:	STD010				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	15	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4

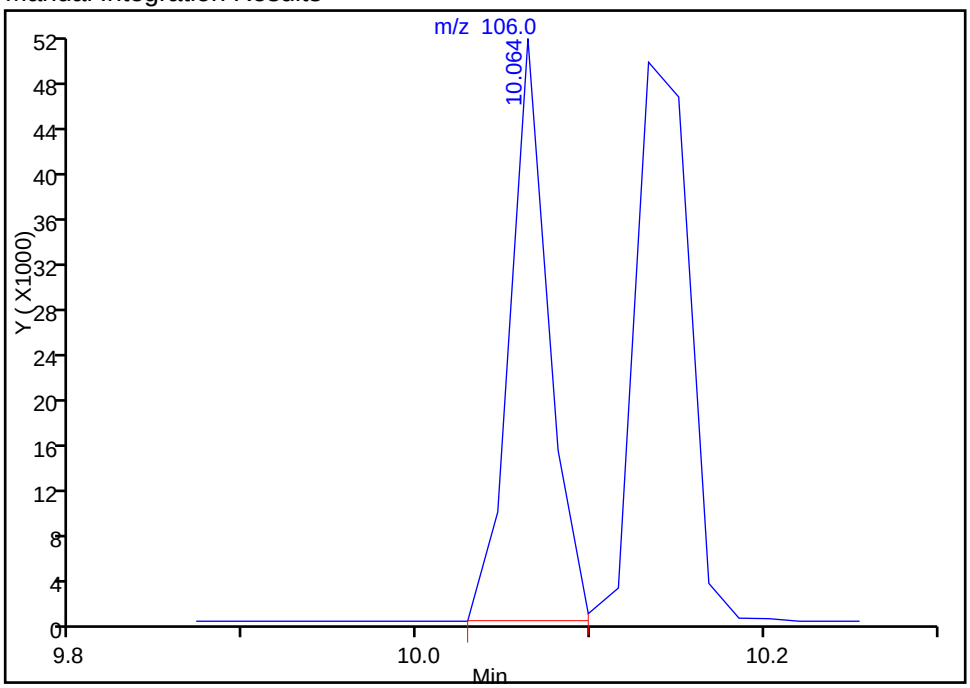
Processing Integration Results

RT: 10.06
Area: 83254
Amount: 9.699262
Amount Units: ug/l



Manual Integration Results

RT: 10.06
Area: 79943
Amount: 9.374304
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:43:33
Audit Action: Manually Integrated
Audit Reason: Other

Manual Integration/User Assign Peak Report

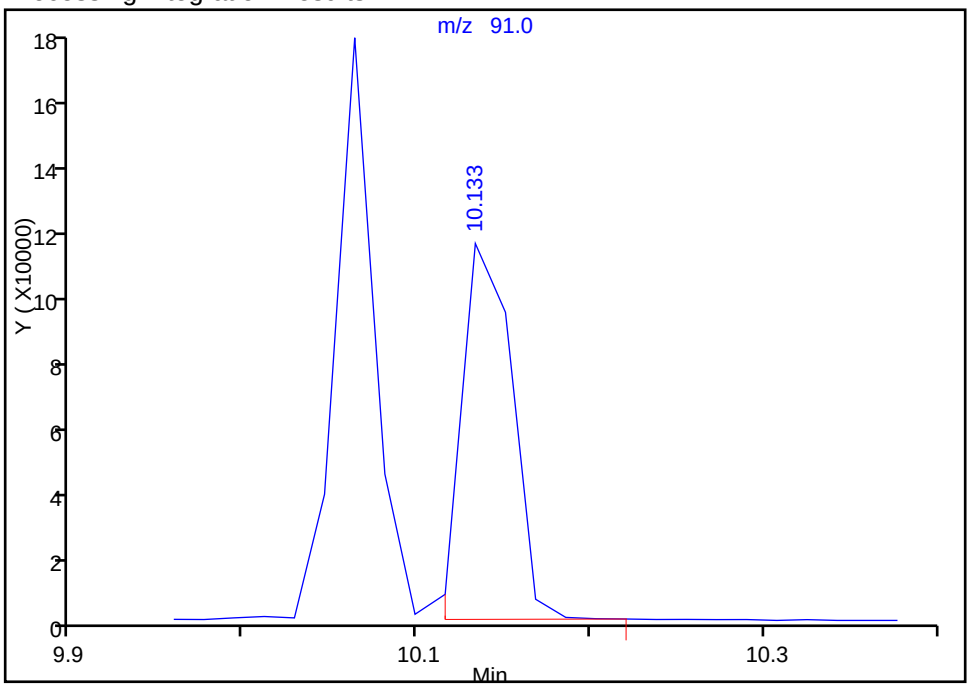
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6814.D				
Injection Date:	18-May-2015 18:50:30	Instrument ID:	VMS_J		
Lims ID:	STD010				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	15	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

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

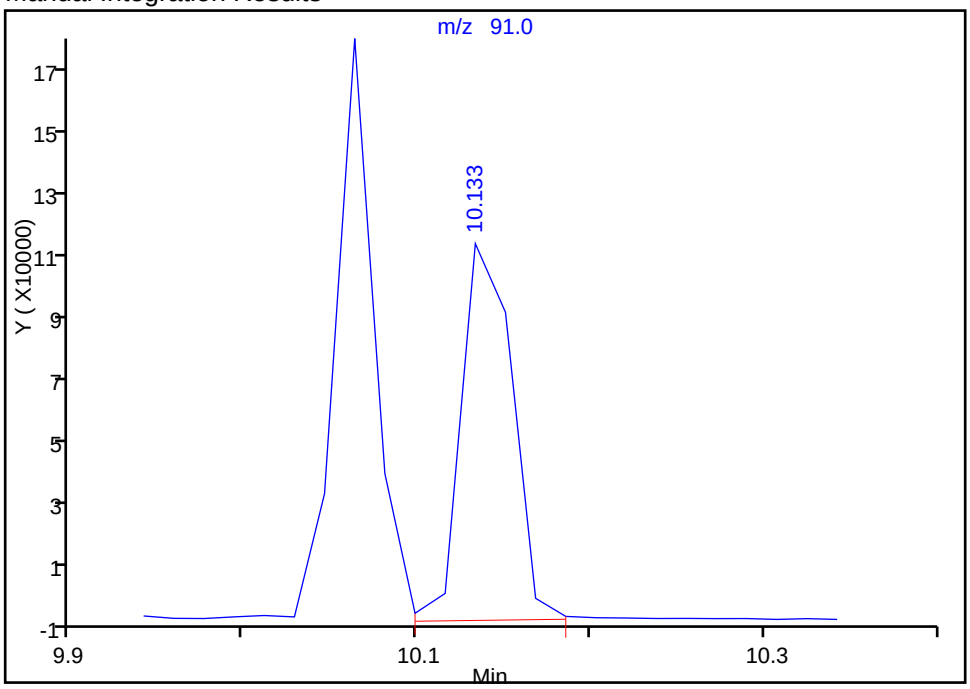
Processing Integration Results

RT: 10.13
Area: 229459
Amount: 9.460064
Amount Units: ug/l



Manual Integration Results

RT: 10.13
Area: 234564
Amount: 9.582070
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:43:33
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6815.D
Lims ID: STD020
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-May-2015 19:10:30 ALS Bottle#: 16 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: PRIMER
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:40 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 20:43:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.732	5.732	0.000	100	563161	1000.0	1000.0	
* 1 Fluorobenzene	96	7.716	7.716	0.000	98	1048581	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.014	10.014	0.000	87	298192	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.877	11.877	0.000	95	458815	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.177	7.177	0.000	92	150344	20.0	19.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.455	7.455	0.000	97	157361	20.0	19.9	
$ 7 Toluene-d8 (Surr)	98	8.917	8.917	0.000	93	441471	20.0	20.1	
$ 8 4-Bromofluorobenzene (Surr	95	10.884	10.884	0.000	89	186242	20.0	19.9	
25 Dichlorodifluoromethane	85	3.991	3.991	0.000	99	107550	20.0	14.5	
27 Chloromethane	50	4.200	4.200	0.000	99	107160	20.0	17.2	
28 Vinyl chloride	62	4.357	4.357	0.000	98	96663	20.0	17.5	
31 Bromomethane	94	4.722	4.722	0.000	94	90072	20.0	18.4	
32 Chloroethane	64	4.792	4.792	0.000	96	58687	20.0	15.8	
33 Dichlorofluoromethane	67	4.949	4.949	0.000	97	200340	20.0	17.7	
34 Trichlorofluoromethane	101	5.070	5.070	0.000	100	182604	20.0	16.7	
37 Ethyl ether	59	5.210	5.210	0.000	96	73748	20.0	19.8	
40 Acrolein	56	5.349	5.349	0.000	99	112488	200.0	215.9	
41 Acetone	43	5.453	5.453	0.000	97	132463	80.0	70.2	
42 1,1,2-Trichloro-1,2,2-trif	151	5.471	5.471	0.000	97	94517	20.0	18.5	
45 1,1-Dichloroethene	96	5.506	5.506	0.000	96	113458	20.0	18.2	
46 Iodomethane	142	5.680	5.680	0.000	97	246855	20.0	18.6	
48 Methyl acetate	43	5.697	5.697	0.000	99	381436	100.0	91.8	
49 3-Chloro-1-propene	41	5.749	5.749	0.000	78	224979	20.0	18.5	
51 Carbon disulfide	76	5.802	5.802	0.000	100	444261	20.0	17.9	
50 2-Methyl-2-propanol	59	5.802	5.802	0.000	47	116154	200.0	190.7	
52 Methylene Chloride	84	5.854	5.854	0.000	95	138566	20.0	18.2	
53 Acrylonitrile	53	5.993	5.993	0.000	96	332210	200.0	189.5	
54 Methyl tert-butyl ether	73	6.028	6.028	0.000	97	294026	20.0	18.7	
55 trans-1,2-Dichloroethene	96	6.063	6.063	0.000	96	120938	20.0	18.5	
56 Hexane	57	6.237	6.237	0.000	92	167741	20.0	18.3	
57 Vinyl acetate	43	6.324	6.324	0.000	97	393179	40.0	37.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.393	6.393	0.000	96	215153	20.0	18.9	
63 2-Butanone (MEK)	43	6.776	6.776	0.000	99	235481	80.0	71.8	
64 sec-Butyl Alcohol	45	6.811	6.811	0.000	96	270558	600.0	578.7	
65 cis-1,2-Dichloroethene	96	6.829	6.829	0.000	83	127318	20.0	18.4	
67 2,2-Dichloropropane	77	6.863	6.863	0.000	88	186380	20.0	18.3	
69 Chlorobromomethane	128	7.037	7.037	0.000	96	68676	20.0	19.2	
70 Chloroform	83	7.037	7.037	0.000	93	227812	20.0	19.0	
71 Tetrahydrofuran	42	7.055	7.055	0.000	87	57678	40.0	37.4	
72 Isobutyl alcohol	41	7.229	7.229	0.000	45	82536	500.0	457.4	
73 1,1,1-Trichloroethane	97	7.264	7.264	0.000	98	189263	20.0	18.9	
74 Cyclohexane	56	7.333	7.333	0.000	95	203024	20.0	18.0	
75 1,1-Dichloropropene	75	7.368	7.368	0.000	96	162699	20.0	19.0	
76 Carbon tetrachloride	117	7.403	7.403	0.000	97	178962	20.0	19.2	
77 1,2-Dichloroethane	62	7.525	7.525	0.000	91	175594	20.0	18.9	
79 Benzene	78	7.542	7.542	0.000	98	427386	20.0	18.8	
14 n-Heptane	43	7.612	7.612	0.000	94	195038	20.0	18.7	
81 Trichloroethene	130	8.012	8.012	0.000	97	131372	20.0	18.3	
82 2-Pentanone	43	8.047	8.047	0.000	98	560055	80.0	78.6	
84 1,2-Dichloropropane	63	8.186	8.186	0.000	73	114208	20.0	18.4	
85 Methylcyclohexane	55	8.204	8.204	0.000	90	177093	20.0	19.1	
86 1,4-Dioxane	88	8.239	8.239	0.000	94	20331	400.0	378.8	
87 Dibromomethane	93	8.291	8.291	0.000	93	83028	20.0	19.0	
88 Dichlorobromomethane	83	8.360	8.360	0.000	98	173156	20.0	18.8	
89 2-Chloroethyl vinyl ether	63	8.500	8.500	0.000	95	35168	20.0	18.1	
91 cis-1,3-Dichloropropene	75	8.691	8.691	0.000	94	190575	20.0	18.5	
92 4-Methyl-2-pentanone (MIBK	43	8.726	8.726	0.000	99	409333	80.0	73.6	
93 Toluene	91	8.970	8.970	0.000	98	453421	20.0	18.6	
94 Ethyl methacrylate	69	9.039	9.039	0.000	90	132503	20.0	19.0	
95 trans-1,3-Dichloropropene	75	9.057	9.057	0.000	99	163853	20.0	17.8	
96 1,1,2-Trichloroethane	97	9.213	9.213	0.000	94	97674	20.0	18.9	
97 2-Hexanone	43	9.335	9.335	0.000	95	306480	80.0	73.3	
98 1,3-Dichloropropane	76	9.353	9.353	0.000	95	167452	20.0	19.0	
99 Tetrachloroethene	164	9.387	9.387	0.000	98	112869	20.0	19.0	
100 Chlorodibromomethane	129	9.561	9.561	0.000	88	139811	20.0	19.3	
102 Ethylene Dibromide	107	9.683	9.683	0.000	98	117600	20.0	18.8	
103 1-Chlorohexane	91	9.910	9.910	0.000	96	186984	20.0	19.2	
104 Chlorobenzene	112	10.031	10.031	0.000	98	318033	20.0	18.6	
105 Ethylbenzene	106	10.066	10.066	0.000	98	157872	20.0	18.3	
106 1,1,1,2-Tetrachloroethane	131	10.066	10.066	0.000	47	125970	20.0	19.1	
107 m-Xylene & p-Xylene	91	10.136	10.136	0.000	98	442782	20.0	18.7	
108 Styrene	104	10.467	10.467	0.000	86	319225	20.0	18.9	
109 o-Xylene	106	10.467	10.467	0.000	88	187191	20.0	17.8	
110 Bromoform	173	10.676	10.676	0.000	97	85578	20.0	16.2	
111 Isopropylbenzene	105	10.728	10.728	0.000	97	521845	20.0	19.2	
113 Cyclohexanone	55	10.867	10.867	0.000	94	125426	800.0	691.6	
114 1,1,2,2-Tetrachloroethane	83	10.937	10.937	0.000	93	132918	20.0	18.9	
115 trans-1,4-Dichloro-2-buten	53	10.971	10.971	0.000	94	33313	20.0	18.4	
116 1,2,3-Trichloropropane	110	11.024	11.024	0.000	83	36814	20.0	19.1	
117 N-Propylbenzene	120	11.058	11.058	0.000	98	135847	20.0	19.5	
118 Bromobenzene	156	11.058	11.058	0.000	87	146302	20.0	19.6	
119 1,3,5-Trimethylbenzene	105	11.163	11.163	0.000	95	427046	20.0	19.1	
120 2-Chlorotoluene	126	11.180	11.180	0.000	96	122978	20.0	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.267	11.267	0.000	98	125648	20.0	18.5	
122 tert-Butylbenzene	119	11.476	11.476	0.000	93	426161	20.0	19.1	
123 1,2,4-Trimethylbenzene	105	11.511	11.511	0.000	96	437028	20.0	18.7	
124 sec-Butylbenzene	134	11.650	11.650	0.000	96	107389	20.0	19.4	
125 4-Isopropyltoluene	119	11.755	11.755	0.000	97	470299	20.0	19.0	
126 1,3-Dichlorobenzene	146	11.824	11.824	0.000	97	252746	20.0	19.0	
128 1,4-Dichlorobenzene	146	11.894	11.894	0.000	95	253206	20.0	18.8	
129 n-Butylbenzene	91	12.120	12.120	0.000	98	449372	20.0	19.1	
130 1,2-Dichlorobenzene	146	12.277	12.277	0.000	98	233159	20.0	19.1	
131 1,2-Dibromo-3-Chloropropan	157	13.025	13.025	0.000	94	25816	20.0	17.6	
132 1,2,4-Trichlorobenzene	180	14.000	14.000	0.000	94	164203	20.0	18.6	
133 Hexachlorobutadiene	225	14.157	14.157	0.000	97	96994	20.0	18.4	
134 Naphthalene	128	14.383	14.383	0.000	98	317096	20.0	18.2	
135 1,2,3-Trichlorobenzene	180	14.714	14.714	0.000	96	146105	20.0	18.7	
S 142 1,2-Dichloroethene, Total	96				0		40.0	37.0	
S 137 Xylenes, Total (URS)	1				0		40.0	36.5	
S 138 Total BTEX	1				0			92.2	
S 136 Trihalomethanes, Total	1				0		80.0	73.3	
S 139 1,3-Dichloropropene, Total	1				0		40.0	36.3	
S 140 1,2-Dichloroethene, Total	1				0		40.0	37.0	
S 141 Xylenes, Total	106				0		40.0	36.5	

Reagents:

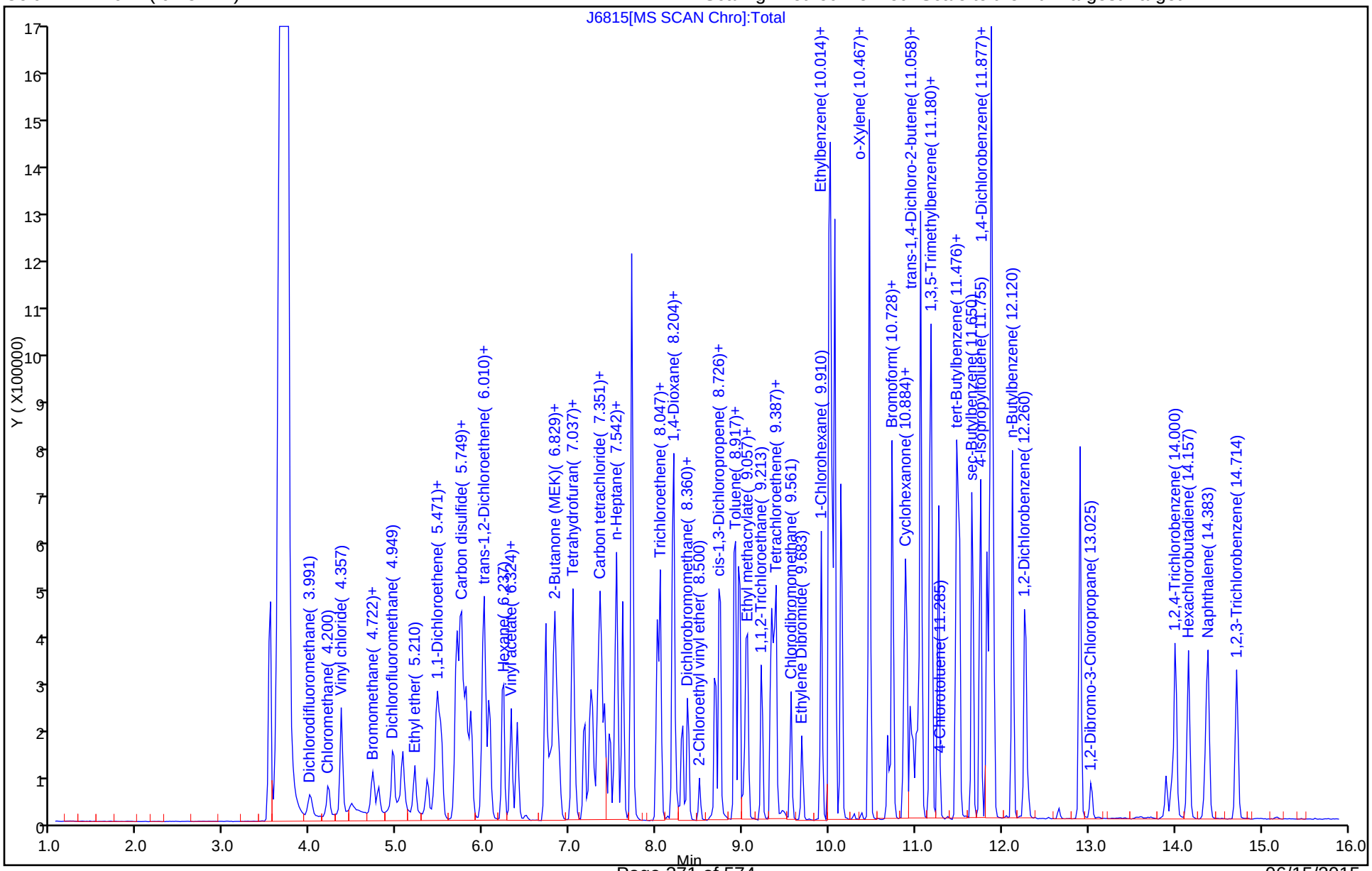
MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-2cleve+AVA_00009	Amount Added:	2.50	Units: uL
MV-Gas/Ket A_00033	Amount Added:	2.50	Units: uL
MV-Main A_00022	Amount Added:	2.50	Units: uL
MV-ARCH SS A_00045	Amount Added:	0.40	Units: uL

Report Date: 19-May-2015 18:48:41 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6815.D				
Injection Date:	18-May-2015 19:10:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	STD020			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6816.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 18-May-2015 19:30:30 ALS Bottle#: 17 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:41 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 19-May-2015 18:42:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.727	5.727	0.000	99	587047	1000.0	1000.0	
* 1 Fluorobenzene	96	7.711	7.711	0.000	98	1028160	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.009	0.000	85	301969	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.872	11.872	0.000	97	461435	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	93	392674	50.0	52.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.468	7.468	0.000	98	404225	50.0	52.1	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	93	1106070	50.0	49.7	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	96	494758	50.0	52.7	
25 Dichlorodifluoromethane	85	3.986	3.986	0.000	99	422003	50.0	53.6	
27 Chloromethane	50	4.212	4.212	0.000	99	370391	50.0	53.4	
28 Vinyl chloride	62	4.352	4.352	0.000	97	333701	50.0	54.8	
31 Bromomethane	94	4.735	4.735	0.000	94	292316	50.0	58.2	
32 Chloroethane	64	4.787	4.787	0.000	98	194902	50.0	59.4	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	97	682623	50.0	56.2	
34 Trichlorofluoromethane	101	5.065	5.065	0.000	99	603142	50.0	53.0	
37 Ethyl ether	59	5.205	5.205	0.000	96	215649	50.0	59.0	
40 Acrolein	56	5.344	5.344	0.000	99	272719	499.9	533.8	
41 Acetone	43	5.448	5.448	0.000	98	420822	200.0	227.3	
42 1,1,2-Trichloro-1,2,2-trif	151	5.466	5.466	0.000	97	291578	50.0	58.4	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	96	343427	50.0	56.3	
46 Iodomethane	142	5.692	5.692	0.000	66	739472	50.0	56.8	
48 Methyl acetate	43	5.692	5.692	0.000	99	1115011	250.0	273.7	
49 3-Chloro-1-propene	41	5.744	5.744	0.000	82	650072	50.0	54.5	
51 Carbon disulfide	76	5.797	5.797	0.000	100	1340610	50.0	55.1	
50 2-Methyl-2-propanol	59	5.797	5.797	0.000	49	348140	500.0	548.4	
52 Methylene Chloride	84	5.849	5.849	0.000	95	371871	50.0	55.4	
53 Acrylonitrile	53	5.988	5.988	0.000	96	959941	500.0	558.4	
54 Methyl tert-butyl ether	73	6.023	6.023	0.000	97	857265	50.0	55.6	
55 trans-1,2-Dichloroethene	96	6.075	6.075	0.000	96	346483	50.0	54.2	
56 Hexane	57	6.232	6.232	0.000	90	481089	50.0	51.7	
57 Vinyl acetate	43	6.319	6.319	0.000	97	1161371	100.0	112.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.388	6.388	0.000	97	620142	50.0	55.7	
63 2-Butanone (MEK)	43	6.771	6.771	0.000	99	707000	200.0	219.9	
64 sec-Butyl Alcohol	45	6.806	6.806	0.000	96	801269	1500.0	1644.2	
65 cis-1,2-Dichloroethene	96	6.824	6.824	0.000	89	368959	50.0	54.5	
67 2,2-Dichloropropane	77	6.858	6.858	0.000	90	521811	50.0	52.1	
69 Chlorobromomethane	128	7.032	7.032	0.000	96	196859	50.0	56.1	
70 Chloroform	83	7.032	7.032	0.000	93	662573	50.0	56.4	
71 Tetrahydrofuran	42	7.050	7.050	0.000	85	163625	100.0	109.8	
72 Isobutyl alcohol	41	7.224	7.224	0.000	35	258006	1250.0	1371.7	
73 1,1,1-Trichloroethane	97	7.259	7.259	0.000	98	555451	50.0	56.7	
74 Cyclohexane	56	7.328	7.328	0.000	95	578044	50.0	52.2	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	95	465018	50.0	55.3	
76 Carbon tetrachloride	117	7.398	7.398	0.000	97	532753	50.0	58.3	
77 1,2-Dichloroethane	62	7.520	7.520	0.000	92	512587	50.0	56.3	
79 Benzene	78	7.537	7.537	0.000	98	1225406	50.0	54.9	
14 n-Heptane	43	7.607	7.607	0.000	94	571659	50.0	55.8	
81 Trichloroethene	130	8.007	8.007	0.000	98	382855	50.0	54.4	
82 2-Pentanone	43	8.042	8.042	0.000	98	1509704	200.0	216.0	
84 1,2-Dichloropropane	63	8.199	8.199	0.000	73	327788	50.0	53.8	
85 Methylcyclohexane	55	8.199	8.199	0.000	87	501324	50.0	56.2	
86 1,4-Dioxane	88	8.251	8.251	0.000	89	59505	1000.0	1130.8	
87 Dibromomethane	93	8.303	8.303	0.000	93	242927	50.0	56.6	
88 Dichlorobromomethane	83	8.373	8.373	0.000	99	519159	50.0	57.4	
89 2-Chloroethyl vinyl ether	63	8.495	8.495	0.000	94	100998	50.0	50.5	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	95	552805	50.0	52.9	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	98	1291491	200.0	236.8	
93 Toluene	91	8.965	8.965	0.000	98	1294037	50.0	54.2	
94 Ethyl methacrylate	69	9.034	9.034	0.000	91	380916	50.0	54.0	
95 trans-1,3-Dichloropropene	75	9.052	9.052	0.000	99	471407	50.0	51.8	
96 1,1,2-Trichloroethane	97	9.226	9.226	0.000	93	284888	50.0	56.3	
97 2-Hexanone	43	9.330	9.330	0.000	97	948489	200.0	223.9	
98 1,3-Dichloropropane	76	9.365	9.365	0.000	94	473082	50.0	52.9	
99 Tetrachloroethene	164	9.382	9.382	0.000	96	317500	50.0	52.6	
100 Chlorodibromomethane	129	9.556	9.556	0.000	89	413557	50.0	56.4	
102 Ethylene Dibromide	107	9.678	9.678	0.000	98	342653	50.0	54.2	
103 1-Chlorohexane	91	9.905	9.905	0.000	97	521676	50.0	52.8	
104 Chlorobenzene	112	10.026	10.026	0.000	96	910295	50.0	52.5	
105 Ethylbenzene	106	10.061	10.061	0.000	97	435611	50.0	49.7	M
106 1,1,1,2-Tetrachloroethane	131	10.061	10.061	0.000	73	358340	50.0	53.7	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	99	1222792	50.0	53.0	M
108 Styrene	104	10.462	10.462	0.000	85	920657	50.0	54.0	
109 o-Xylene	106	10.462	10.462	0.000	87	528365	50.0	49.5	
110 Bromoform	173	10.688	10.688	0.000	95	267723	50.0	48.4	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	1472411	50.0	53.8	
113 Cyclohexanone	55	10.862	10.862	0.000	95	413701	2000.0	2252.7	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	93	388898	50.0	55.0	
115 trans-1,4-Dichloro-2-buten	53	10.966	10.966	0.000	88	103484	50.0	56.9	
116 1,2,3-Trichloropropane	110	11.019	11.019	0.000	84	108718	50.0	56.1	
117 N-Propylbenzene	120	11.053	11.053	0.000	98	385661	50.0	55.1	
118 Bromobenzene	156	11.071	11.071	0.000	89	413644	50.0	55.1	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	95	1228180	50.0	54.7	
120 2-Chlorotoluene	126	11.193	11.193	0.000	98	353715	50.0	54.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.262	11.262	0.000	99	388034	50.0	56.8	
122 tert-Butylbenzene	119	11.471	11.471	0.000	92	1213777	50.0	54.2	
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	95	1257376	50.0	53.5	
124 sec-Butylbenzene	134	11.663	11.663	0.000	95	307577	50.0	55.3	
125 4-Isopropyltoluene	119	11.750	11.750	0.000	97	1375279	50.0	55.1	
126 1,3-Dichlorobenzene	146	11.837	11.837	0.000	98	740956	50.0	55.3	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	96	721556	50.0	53.3	
129 n-Butylbenzene	91	12.115	12.115	0.000	98	1269129	50.0	53.6	
130 1,2-Dichlorobenzene	146	12.272	12.272	0.000	98	672384	50.0	54.7	
131 1,2-Dibromo-3-Chloropropan	157	13.038	13.038	0.000	88	81259	50.0	50.9	
132 1,2,4-Trichlorobenzene	180	14.013	14.013	0.000	94	497056	50.0	55.9	
133 Hexachlorobutadiene	225	14.152	14.152	0.000	98	301840	50.0	56.9	
134 Naphthalene	128	14.378	14.378	0.000	98	997801	50.0	57.0	
135 1,2,3-Trichlorobenzene	180	14.709	14.709	0.000	95	444089	50.0	56.6	
S 142 1,2-Dichloroethene, Total	96				0		100.0	108.7	
S 137 Xylenes, Total (URS)	1				0		100.0	102.5	
S 136 Trihalomethanes, Total	1				0		200.0	218.7	
S 139 1,3-Dichloropropene, Total	1				0		100.0	104.7	
S 140 1,2-Dichloroethene, Total	1				0		100.0	108.7	
S 141 Xylenes, Total	106				0		100.0	102.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-2cleve+AVA_00009	Amount Added:	6.25	Units: uL
MV-Gas/Ket A_00033	Amount Added:	6.25	Units: uL
MV-Main A_00022	Amount Added:	6.25	Units: uL
MV-ARCH SS A_00045	Amount Added:	1.00	Units: uL

Report Date: 19-May-2015 18:48:42 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6816.D

Injection Date: 18-May-2015 19:30:30 Instrument ID: VMS_J Operator ID: DUKESA

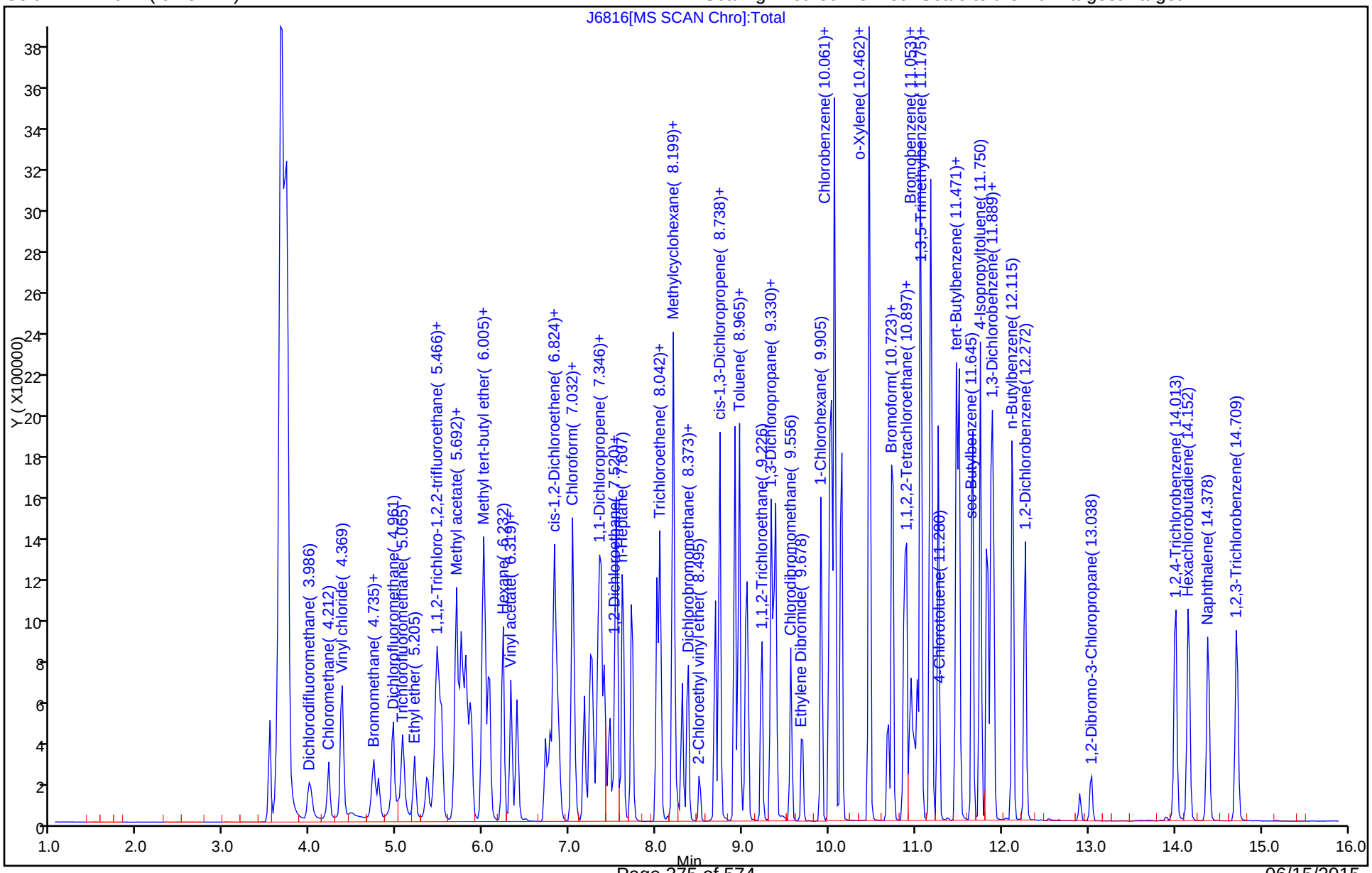
Lims ID: ICIS Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

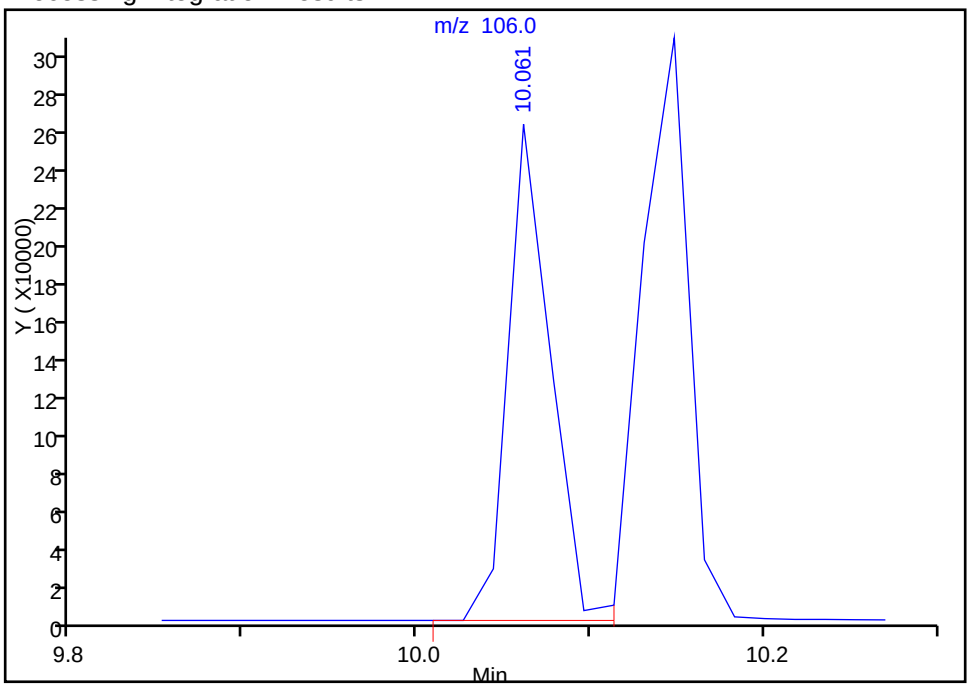
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6816.D				
Injection Date:	18-May-2015 19:30:30	Instrument ID:	VMS_J		
Lims ID:	ICIS				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	17	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4

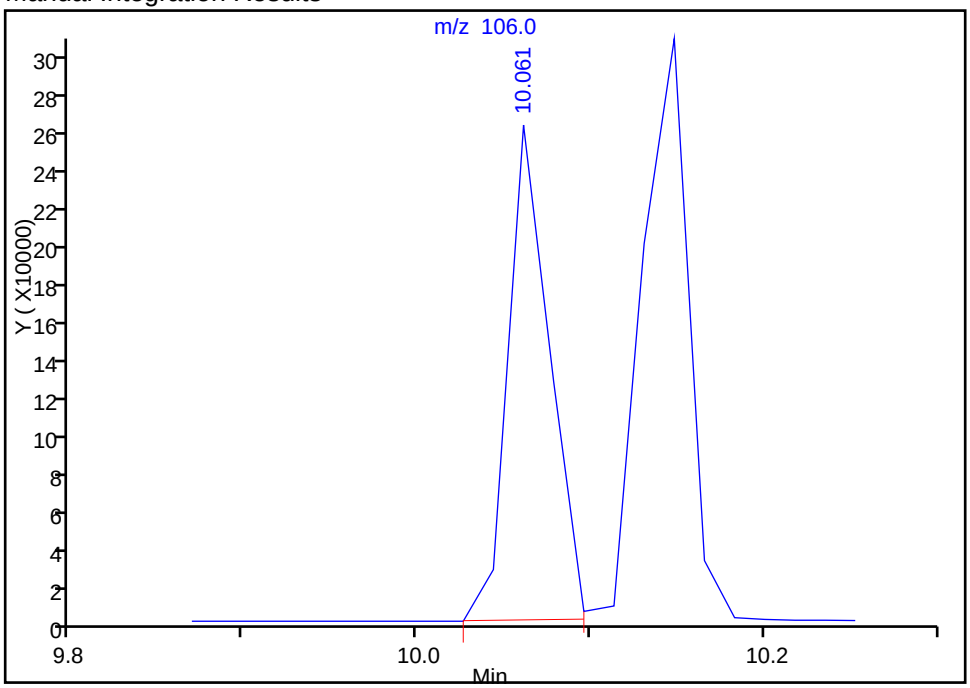
Processing Integration Results

RT: 10.06
Area: 447659
Amount: 50.139622
Amount Units: ug/l



Manual Integration Results

RT: 10.06
Area: 435611
Amount: 49.743229
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:41:25
Audit Action: Manually Integrated
Audit Reason: Other

Manual Integration/User Assign Peak Report

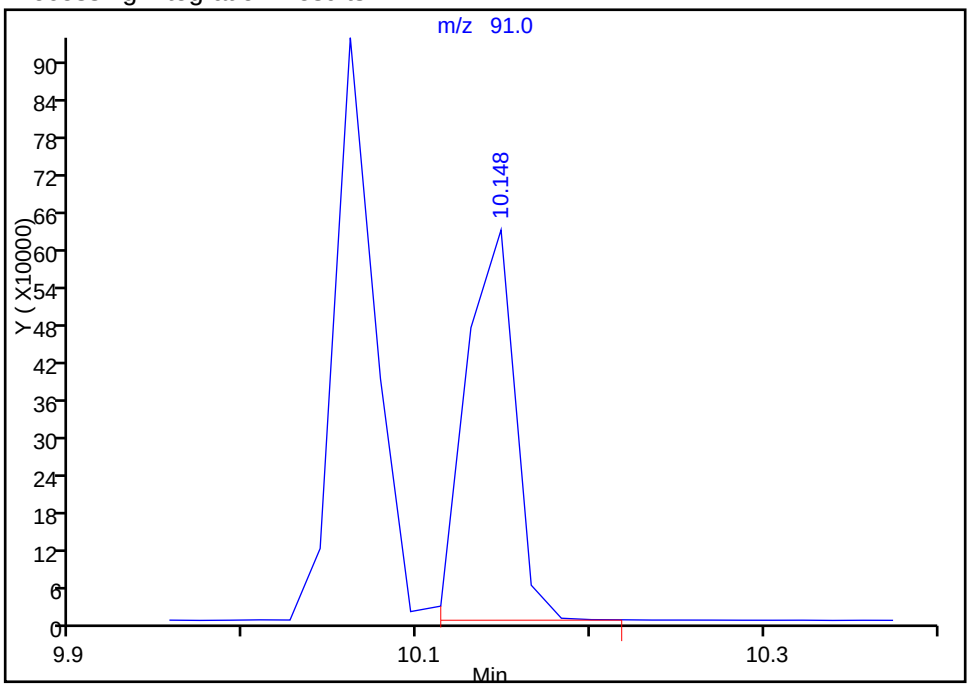
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6816.D				
Injection Date:	18-May-2015 19:30:30	Instrument ID:	VMS_J		
Lims ID:	ICIS				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	17	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

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

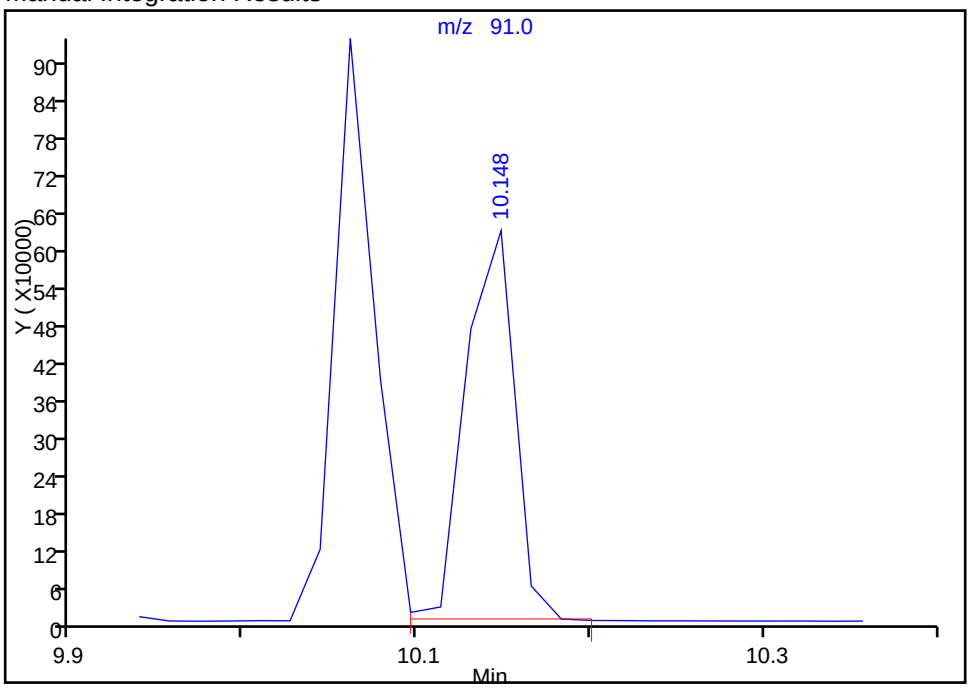
Processing Integration Results

RT: 10.15
Area: 1233561
Amount: 53.884972
Amount Units: ug/l



Manual Integration Results

RT: 10.15
Area: 1222792
Amount: 52.956201
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:41:25
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6817.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-May-2015 19:51:30 ALS Bottle#: 18 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD050
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:42 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 20:34:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.733	5.733	0.000	99	549547	1000.0	1000.0	
* 1 Fluorobenzene	96	7.717	7.717	0.000	98	1051875	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.015	0.000	88	290807	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.878	11.878	0.000	95	458526	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.160	7.160	0.000	93	777435	100.0	101.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.456	7.456	0.000	97	816864	100.0	102.9	
$ 7 Toluene-d8 (Surr)	98	8.901	8.901	0.000	93	2163276	100.0	100.9	
$ 8 4-Bromofluorobenzene (Surr	95	10.885	10.885	0.000	87	905650	100.0	97.0	
25 Dichlorodifluoromethane	85	3.992	3.992	0.000	99	811703	100.0	99.4	
27 Chloromethane	50	4.218	4.218	0.000	99	707494	100.0	97.2	
28 Vinyl chloride	62	4.358	4.358	0.000	98	631380	100.0	99.1	
31 Bromomethane	94	4.741	4.741	0.000	94	529871	100.0	102.2	
32 Chloroethane	64	4.793	4.793	0.000	97	355232	100.0	107.9	
33 Dichlorofluoromethane	67	4.950	4.950	0.000	97	1286565	100.0	101.7	
34 Trichlorofluoromethane	101	5.071	5.071	0.000	98	1180360	100.0	100.1	
37 Ethyl ether	59	5.211	5.211	0.000	96	419236	100.0	112.1	
40 Acrolein	56	5.350	5.350	0.000	99	616755	999.8	1180.0	
41 Acetone	43	5.454	5.454	0.000	97	776193	400.0	409.8	
42 1,1,2-Trichloro-1,2,2-trif	151	5.472	5.472	0.000	96	560671	100.0	109.7	
45 1,1-Dichloroethene	96	5.524	5.524	0.000	96	660361	100.0	105.7	
46 Iodomethane	142	5.681	5.681	0.000	69	1432888	100.0	107.6	
48 Methyl acetate	43	5.681	5.681	0.000	99	2165165	500.0	519.5	
49 3-Chloro-1-propene	41	5.750	5.750	0.000	89	1228827	100.0	100.7	
51 Carbon disulfide	76	5.803	5.803	0.000	100	2562943	100.0	103.0	
50 2-Methyl-2-propanol	59	5.803	5.803	0.000	48	640541	1000.0	1077.8	
52 Methylene Chloride	84	5.855	5.855	0.000	95	701374	100.0	104.7	
53 Acrylonitrile	53	5.994	5.994	0.000	97	1845638	1000.0	1049.4	
54 Methyl tert-butyl ether	73	6.011	6.011	0.000	97	1682718	100.0	106.7	
55 trans-1,2-Dichloroethene	96	6.064	6.064	0.000	96	667931	100.0	102.1	
56 Hexane	57	6.220	6.220	0.000	93	903759	100.0	100.9	
57 Vinyl acetate	43	6.325	6.325	0.000	97	2091467	200.0	198.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.394	6.394	0.000	97	1188771	100.0	104.4	
63 2-Butanone (MEK)	43	6.777	6.777	0.000	99	1306843	400.0	397.3	
64 sec-Butyl Alcohol	45	6.812	6.812	0.000	95	1458387	3000.0	3196.8	
65 cis-1,2-Dichloroethene	96	6.830	6.830	0.000	81	709746	100.0	102.5	
67 2,2-Dichloropropane	77	6.864	6.864	0.000	89	1008318	100.0	98.4	
69 Chlorobromomethane	128	7.021	7.021	0.000	93	385285	100.0	107.4	
70 Chloroform	83	7.038	7.038	0.000	95	1274001	100.0	106.0	
71 Tetrahydrofuran	42	7.056	7.056	0.000	85	312083	200.0	205.5	
72 Isobutyl alcohol	41	7.230	7.230	0.000	53	465860	2500.0	2645.8	
73 1,1,1-Trichloroethane	97	7.265	7.265	0.000	98	1065353	100.0	106.3	
74 Cyclohexane	56	7.334	7.334	0.000	95	1090998	100.0	96.3	
75 1,1-Dichloropropene	75	7.352	7.352	0.000	95	884452	100.0	102.9	
76 Carbon tetrachloride	117	7.404	7.404	0.000	97	1029543	100.0	110.2	
77 1,2-Dichloroethane	62	7.526	7.526	0.000	86	996598	100.0	107.0	
79 Benzene	78	7.543	7.543	0.000	98	2355365	100.0	103.2	
14 n-Heptane	43	7.613	7.613	0.000	94	1093031	100.0	104.2	
81 Trichloroethene	130	8.013	8.013	0.000	97	728556	100.0	101.1	
82 2-Pentanone	43	8.048	8.048	0.000	98	3015210	400.0	421.6	
84 1,2-Dichloropropane	63	8.187	8.187	0.000	79	633512	100.0	101.7	
85 Methylcyclohexane	55	8.205	8.205	0.000	95	940638	100.0	103.6	
86 1,4-Dioxane	88	8.240	8.240	0.000	95	110496	2000.0	2052.5	
87 Dibromomethane	93	8.292	8.292	0.000	95	483198	100.0	110.1	
88 Dichlorobromomethane	83	8.361	8.361	0.000	98	1024322	100.0	110.7	
89 2-Chloroethyl vinyl ether	63	8.501	8.501	0.000	95	204500	100.0	98.7	
91 cis-1,3-Dichloropropene	75	8.675	8.675	0.000	95	1073482	100.0	106.7	
92 4-Methyl-2-pentanone (MIBK	43	8.727	8.727	0.000	99	2416766	400.0	433.1	
93 Toluene	91	8.953	8.953	0.000	98	2454529	100.0	100.4	
94 Ethyl methacrylate	69	9.040	9.040	0.000	87	724190	100.0	106.6	
95 trans-1,3-Dichloropropene	75	9.058	9.058	0.000	97	922076	100.0	98.8	
96 1,1,2-Trichloroethane	97	9.214	9.214	0.000	94	554907	100.0	107.2	
97 2-Hexanone	43	9.336	9.336	0.000	95	1774006	400.0	434.8	
98 1,3-Dichloropropane	76	9.354	9.354	0.000	97	916252	100.0	106.4	
99 Tetrachloroethene	164	9.388	9.388	0.000	98	586126	100.0	100.9	
100 Chlorodibromomethane	129	9.562	9.562	0.000	89	822808	100.0	116.6	
102 Ethylene Dibromide	107	9.684	9.684	0.000	98	671372	100.0	110.3	
103 1-Chlorohexane	91	9.911	9.911	0.000	96	956263	100.0	100.5	
104 Chlorobenzene	112	10.032	10.032	0.000	96	1724118	100.0	103.2	
105 Ethylbenzene	106	10.067	10.067	0.000	99	822447	100.0	97.5	
106 1,1,1,2-Tetrachloroethane	131	10.067	10.067	0.000	47	689998	100.0	107.4	
107 m-Xylene & p-Xylene	91	10.137	10.137	0.000	97	2316297	100.0	105.2	M
108 Styrene	104	10.468	10.468	0.000	86	1728962	100.0	105.2	
109 o-Xylene	106	10.468	10.468	0.000	87	975682	100.0	95.0	
110 Bromoform	173	10.676	10.676	0.000	96	544963	100.0	101.5	
111 Isopropylbenzene	105	10.729	10.729	0.000	97	2750814	100.0	101.2	
113 Cyclohexanone	55	10.868	10.868	0.000	94	754755	4000.0	4267.5	
114 1,1,2,2-Tetrachloroethane	83	10.938	10.938	0.000	95	753777	100.0	107.3	
115 trans-1,4-Dichloro-2-buten	53	10.972	10.972	0.000	95	204225	100.0	113.1	
116 1,2,3-Trichloropropane	110	11.025	11.025	0.000	90	208973	100.0	108.6	
117 N-Propylbenzene	120	11.059	11.059	0.000	97	670723	100.0	96.4	
118 Bromobenzene	156	11.059	11.059	0.000	87	768915	100.0	103.0	
119 1,3,5-Trimethylbenzene	105	11.164	11.164	0.000	93	2239271	100.0	100.4	
120 2-Chlorotoluene	126	11.181	11.181	0.000	94	656982	100.0	101.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.268	11.268	0.000	98	663367	100.0	97.7	
122 tert-Butylbenzene	119	11.477	11.477	0.000	93	2226685	100.0	100.1	
123 1,2,4-Trimethylbenzene	105	11.512	11.512	0.000	97	2282296	100.0	97.7	
124 sec-Butylbenzene	134	11.651	11.651	0.000	96	542334	100.0	98.1	
125 4-Isopropyltoluene	119	11.756	11.756	0.000	97	2433108	100.0	98.1	
126 1,3-Dichlorobenzene	146	11.825	11.825	0.000	96	1318528	100.0	99.1	
128 1,4-Dichlorobenzene	146	11.895	11.895	0.000	94	1352551	100.0	100.6	
129 n-Butylbenzene	91	12.121	12.121	0.000	98	2242433	100.0	95.4	
130 1,2-Dichlorobenzene	146	12.278	12.278	0.000	98	1259915	100.0	103.2	
131 1,2-Dibromo-3-Chloropropan	157	13.026	13.026	0.000	85	164287	100.0	101.5	
132 1,2,4-Trichlorobenzene	180	14.001	14.001	0.000	95	897768	100.0	101.5	
133 Hexachlorobutadiene	225	14.158	14.158	0.000	97	502525	100.0	95.3	
134 Naphthalene	128	14.384	14.384	0.000	98	1853136	100.0	106.5	
135 1,2,3-Trichlorobenzene	180	14.715	14.715	0.000	96	825167	100.0	105.8	
S 142 1,2-Dichloroethene, Total	96				0		200.0	204.6	
S 137 Xylenes, Total (URS)	1				0		200.0	200.2	
S 138 Total BTEX	1				0			501.3	
S 136 Trihalomethanes, Total	1				0		400.0	434.8	
S 139 1,3-Dichloropropene, Total	1				0		200.0	205.4	
S 140 1,2-Dichloroethene, Total	1				0		200.0	204.6	
S 141 Xylenes, Total	106				0		200.0	200.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

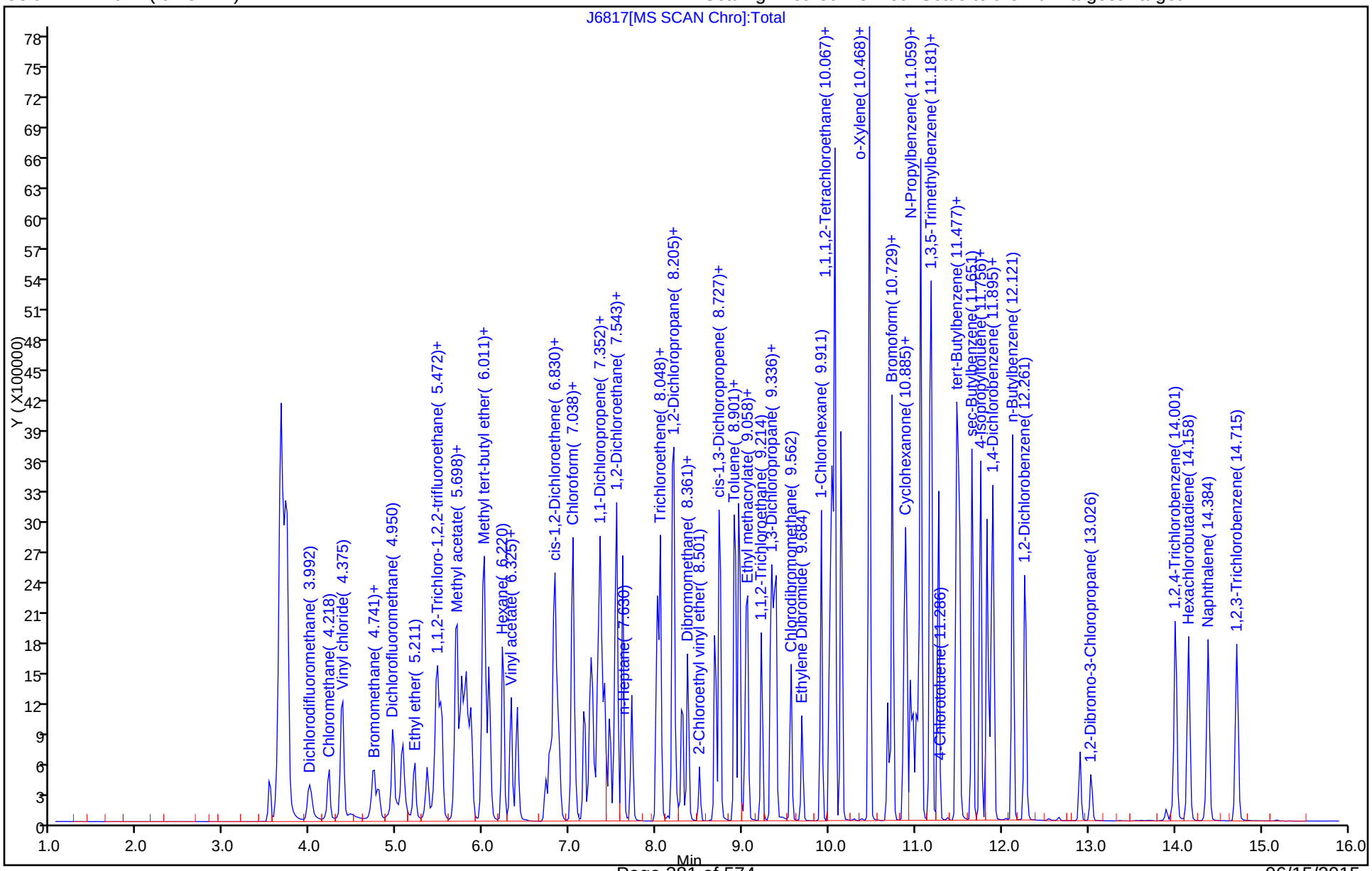
MV-568718-D_00003	Amount Added: 1.00	Units: uL
MV-2cleve+AVA_00009	Amount Added: 12.50	Units: uL
MV-Gas/Ket A_00032	Amount Added: 12.50	Units: uL
MV-Main A_00022	Amount Added: 12.50	Units: uL
MV-ARCH SS A_00045	Amount Added: 2.00	Units: uL

Report Date: 19-May-2015 18:48:43 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6817.D				
Injection Date:	18-May-2015 19:51:30	Instrument ID:	VMS_J	Operator ID:	DUKESA
Lims ID:	STD100			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

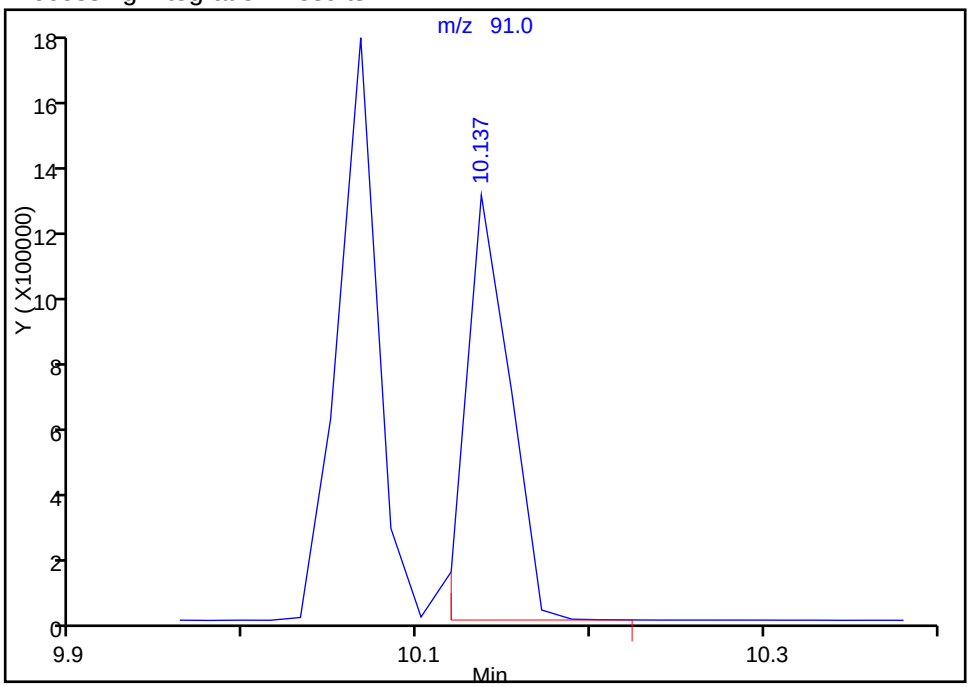
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6817.D				
Injection Date:	18-May-2015 19:51:30	Instrument ID:	VMS_J		
Lims ID:	STD100				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	18	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

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

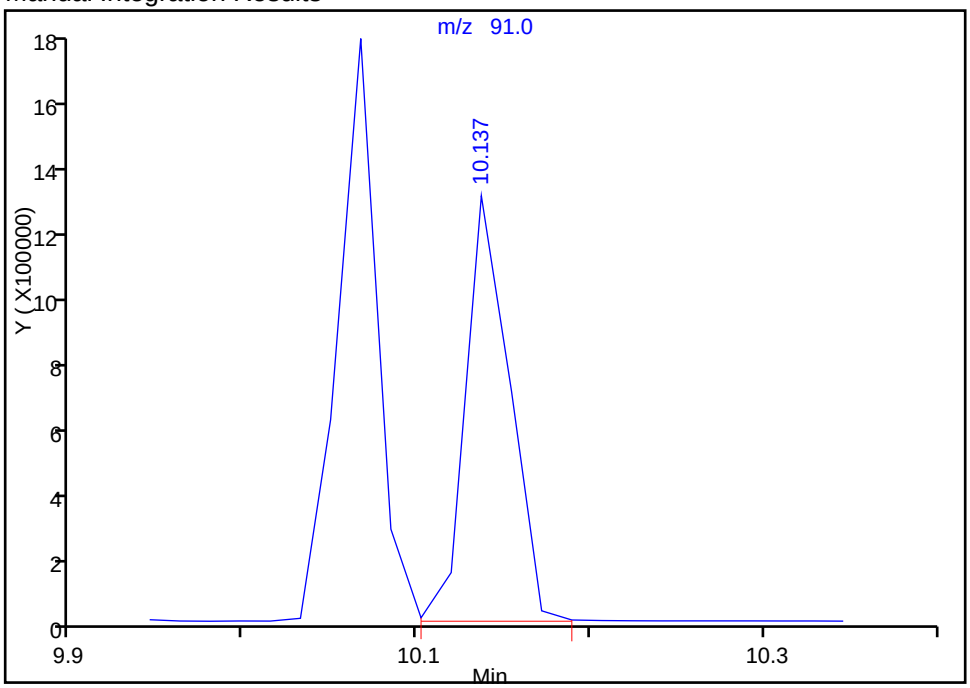
Processing Integration Results

RT: 10.14
Area: 2299506
Amount: 105.3771
Amount Units: ug/l



Manual Integration Results

RT: 10.14
Area: 2316297
Amount: 105.1865
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:44:07
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 18-May-2015 20:11:30 ALS Bottle#: 19 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:43 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 18-May-2015 20:44:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.744	5.744	0.000	98	577509	1000.0	1000.0	
* 1 Fluorobenzene	96	7.711	7.711	0.000	98	1062200	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.009	0.000	67	295084	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.871	11.871	0.000	97	461465	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.171	7.171	0.000	93	1565418	200.0	203.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.467	0.000	97	1646014	200.0	205.3	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	93	4299229	200.0	197.6	
$ 8 4-Bromofluorobenzene (Surr	95	10.896	10.896	0.000	95	1893631	200.0	201.6	
25 Dichlorodifluoromethane	85	3.986	3.986	0.000	99	1692329	200.0	203.7	
27 Chloromethane	50	4.212	4.212	0.000	99	1510182	200.0	202.2	
28 Vinyl chloride	62	4.351	4.351	0.000	98	1295610	200.0	198.7	
31 Bromomethane	94	4.717	4.717	0.000	94	1009282	200.0	191.8	
32 Chloroethane	64	4.786	4.786	0.000	97	639970	200.0	194.4	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	97	2540197	200.0	196.8	
34 Trichlorofluoromethane	101	5.065	5.065	0.000	98	2416508	200.0	201.5	
37 Ethyl ether	59	5.204	5.204	0.000	95	835506	200.0	221.3	
40 Acrolein	56	5.343	5.343	0.000	98	1077369	1999.7	2041.3	
41 Acetone	43	5.448	5.448	0.000	97	1605357	800.0	839.4	
42 1,1,2-Trichloro-1,2,2-trif	151	5.465	5.465	0.000	96	1115433	200.0	216.1	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	96	1301049	200.0	206.3	
46 Iodomethane	142	5.692	5.692	0.000	68	2864609	200.0	213.0	
48 Methyl acetate	43	5.692	5.692	0.000	99	4262646	1000.0	1012.9	
49 3-Chloro-1-propene	41	5.744	5.744	0.000	79	2465257	200.0	200.1	
51 Carbon disulfide	76	5.796	5.796	0.000	100	5185744	200.0	206.3	
50 2-Methyl-2-propanol	59	5.796	5.796	0.000	94	1343794	2000.0	2151.7	
52 Methylene Chloride	84	5.866	5.866	0.000	95	1389547	200.0	208.5	
53 Acrylonitrile	53	6.005	6.005	0.000	97	3649340	2000.0	2054.8	
54 Methyl tert-butyl ether	73	6.022	6.022	0.000	97	3392133	200.0	213.0	
55 trans-1,2-Dichloroethene	96	6.057	6.057	0.000	96	1336436	200.0	202.2	
56 Hexane	57	6.231	6.231	0.000	92	1782774	200.0	196.1	
57 Vinyl acetate	43	6.318	6.318	0.000	97	4125546	400.0	387.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.388	6.388	0.000	96	2409509	200.0	209.5	
63 2-Butanone (MEK)	43	6.771	6.771	0.000	99	2667528	800.0	803.0	
64 sec-Butyl Alcohol	45	6.806	6.806	0.000	96	3038242	6000.0	6337.4	
65 cis-1,2-Dichloroethene	96	6.823	6.823	0.000	86	1391082	200.0	199.0	
67 2,2-Dichloropropane	77	6.858	6.858	0.000	92	2030256	200.0	196.3	
69 Chlorobromomethane	128	7.032	7.032	0.000	95	769872	200.0	212.5	
70 Chloroform	83	7.032	7.032	0.000	95	2590447	200.0	213.4	
71 Tetrahydrofuran	42	7.067	7.067	0.000	85	633611	400.0	414.0	
72 Isobutyl alcohol	41	7.241	7.241	0.000	74	975806	5000.0	5273.7	
73 1,1,1-Trichloroethane	97	7.258	7.258	0.000	98	2195214	200.0	216.9	
74 Cyclohexane	56	7.328	7.328	0.000	94	2180721	200.0	190.5	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	94	1777990	200.0	204.8	
76 Carbon tetrachloride	117	7.398	7.398	0.000	95	2115356	200.0	224.2	
77 1,2-Dichloroethane	62	7.519	7.519	0.000	92	2040158	200.0	216.9	
79 Benzene	78	7.537	7.537	0.000	99	4669680	200.0	202.6	
14 n-Heptane	43	7.606	7.606	0.000	94	2169957	200.0	204.9	
81 Trichloroethene	130	8.007	8.007	0.000	98	1466625	200.0	201.5	
82 2-Pentanone	43	8.042	8.042	0.000	98	5970860	800.0	826.8	
84 1,2-Dichloropropane	63	8.198	8.198	0.000	77	1232950	200.0	196.0	
85 Methylcyclohexane	55	8.198	8.198	0.000	96	1871067	200.0	204.5	
86 1,4-Dioxane	88	8.250	8.250	0.000	93	239234	4000.0	4400.7	
87 Dibromomethane	93	8.303	8.303	0.000	92	966167	200.0	218.1	
88 Dichlorobromomethane	83	8.372	8.372	0.000	98	2088145	200.0	223.4	
89 2-Chloroethyl vinyl ether	63	8.494	8.494	0.000	95	429787	200.0	204.1	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	94	2192419	200.0	214.7	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	98	4897751	800.0	869.2	
93 Toluene	91	8.964	8.964	0.000	98	4918470	200.0	199.3	
94 Ethyl methacrylate	69	9.034	9.034	0.000	91	1469660	200.0	213.1	
95 trans-1,3-Dichloropropene	75	9.051	9.051	0.000	99	1914811	200.0	202.8	
96 1,1,2-Trichloroethane	97	9.225	9.225	0.000	93	1125811	200.0	215.4	
97 2-Hexanone	43	9.330	9.330	0.000	98	3584959	800.0	866.0	
98 1,3-Dichloropropane	76	9.364	9.364	0.000	91	1821897	200.0	208.5	
99 Tetrachloroethene	164	9.382	9.382	0.000	96	1200050	200.0	203.6	
100 Chlorodibromomethane	129	9.556	9.556	0.000	89	1706772	200.0	238.4	
102 Ethylene Dibromide	107	9.695	9.695	0.000	99	1373047	200.0	222.4	
103 1-Chlorohexane	91	9.904	9.904	0.000	96	1965635	200.0	203.5	
104 Chlorobenzene	112	10.026	10.026	0.000	93	3479105	200.0	205.3	
105 Ethylbenzene	106	10.061	10.061	0.000	98	1645868	200.0	192.3	M
106 1,1,1,2-Tetrachloroethane	131	10.061	10.061	0.000	47	1397917	200.0	214.4	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	99	4844444	200.0	217.9	M
108 Styrene	104	10.461	10.461	0.000	83	3451650	200.0	207.0	
109 o-Xylene	106	10.461	10.461	0.000	86	1933128	200.0	185.5	
110 Bromoform	173	10.687	10.687	0.000	97	1125875	200.0	205.9	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	5618205	200.0	205.3	
113 Cyclohexanone	55	10.861	10.861	0.000	93	1584649	8000.0	8830.0	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	96	1542852	200.0	218.3	
115 trans-1,4-Dichloro-2-buten	53	10.983	10.983	0.000	96	414072	200.0	227.8	
116 1,2,3-Trichloropropane	110	11.018	11.018	0.000	84	427529	200.0	220.8	
117 N-Propylbenzene	120	11.053	11.053	0.000	98	1406752	200.0	200.8	
118 Bromobenzene	156	11.070	11.070	0.000	90	1584918	200.0	210.9	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	94	4633972	200.0	206.4	
120 2-Chlorotoluene	126	11.192	11.192	0.000	97	1323351	200.0	202.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.262	11.262	0.000	100	1388356	200.0	203.2	
122 tert-Butylbenzene	119	11.471	11.471	0.000	92	4517283	200.0	201.7	
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	96	4729672	200.0	201.2	
124 sec-Butylbenzene	134	11.662	11.662	0.000	95	1124440	200.0	202.1	
125 4-Isopropyltoluene	119	11.749	11.749	0.000	97	5048117	200.0	202.3	
126 1,3-Dichlorobenzene	146	11.836	11.836	0.000	98	2805303	200.0	209.4	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	96	2751806	200.0	203.4	
129 n-Butylbenzene	91	12.115	12.115	0.000	98	4710289	200.0	199.1	
130 1,2-Dichlorobenzene	146	12.271	12.271	0.000	98	2569588	200.0	209.0	
131 1,2-Dibromo-3-Chloropropan	157	13.037	13.037	0.000	88	328782	200.0	199.8	
132 1,2,4-Trichlorobenzene	180	14.012	14.012	0.000	94	1842411	200.0	207.0	
133 Hexachlorobutadiene	225	14.169	14.169	0.000	97	1084053	200.0	204.2	
134 Naphthalene	128	14.395	14.395	0.000	98	3590093	200.0	205.0	
135 1,2,3-Trichlorobenzene	180	14.726	14.726	0.000	95	1642589	200.0	209.3	
S 142 1,2-Dichloroethene, Total	96				0		400.0	401.2	
S 137 Xylenes, Total (URS)	1				0		400.0	403.4	
S 138 Total BTEX	1				0			997.7	
S 136 Trihalomethanes, Total	1				0		800.0	881.1	
S 139 1,3-Dichloropropene, Total	1				0		400.0	417.5	
S 140 1,2-Dichloroethene, Total	1				0		400.0	401.2	
S 141 Xylenes, Total	106				0		400.0	403.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MV-568718-D_00003	Amount Added: 1.00	Units: uL
MV-2cleve+AVA_00009	Amount Added: 25.00	Units: uL
MV-Gas/Ket A_00033	Amount Added: 25.00	Units: uL
MV-Main A_00022	Amount Added: 25.00	Units: uL
MV-ARCH SS A_00045	Amount Added: 4.00	Units: uL

Report Date: 19-May-2015 18:48:44 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Injection Date: 18-May-2015 20:11:30 Instrument ID: VMS_J Operator ID: DUKESA

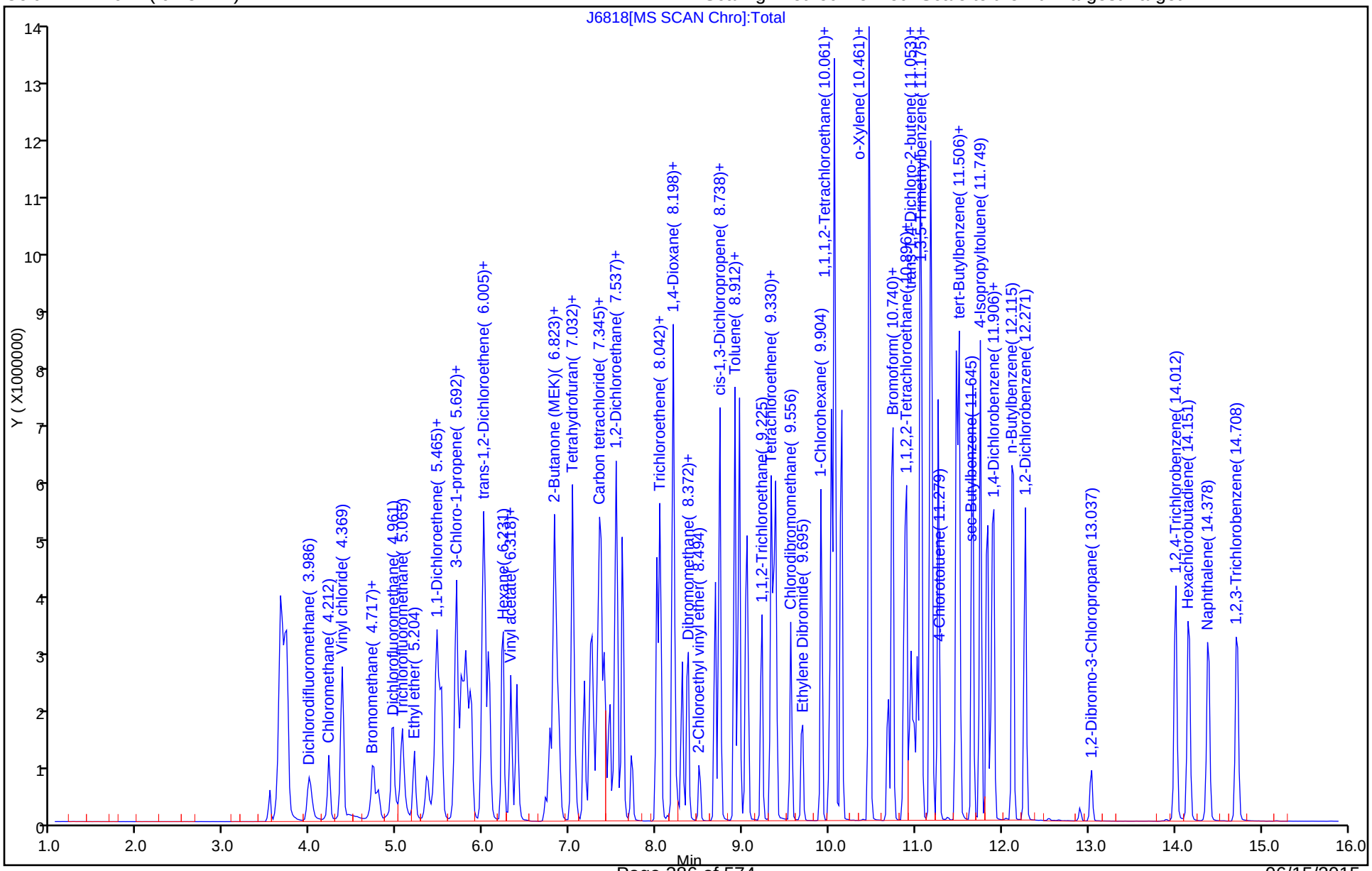
Lims ID: STD200 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

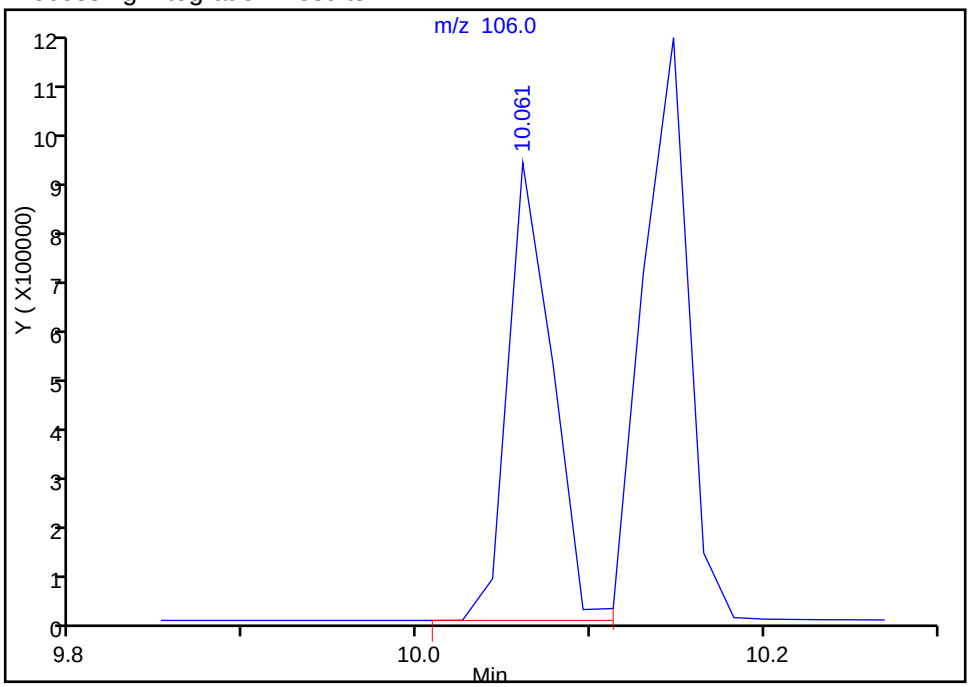
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D				
Injection Date:	18-May-2015 20:11:30	Instrument ID:	VMS_J		
Lims ID:	STD200				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	19	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

105 Ethylbenzene, CAS: 100-41-4

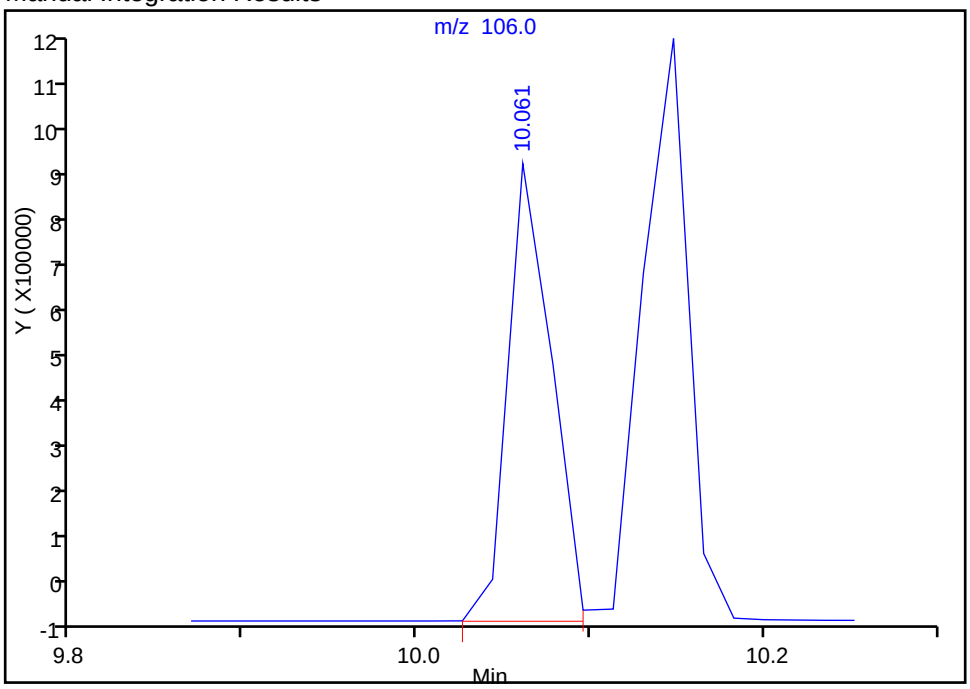
Processing Integration Results

RT: 10.06
Area: 1668773
Amount: 194.6808
Amount Units: ug/l



Manual Integration Results

RT: 10.06
Area: 1645868
Amount: 192.3299
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:44:38
Audit Action: Manually Integrated
Audit Reason: Other

Manual Integration/User Assign Peak Report

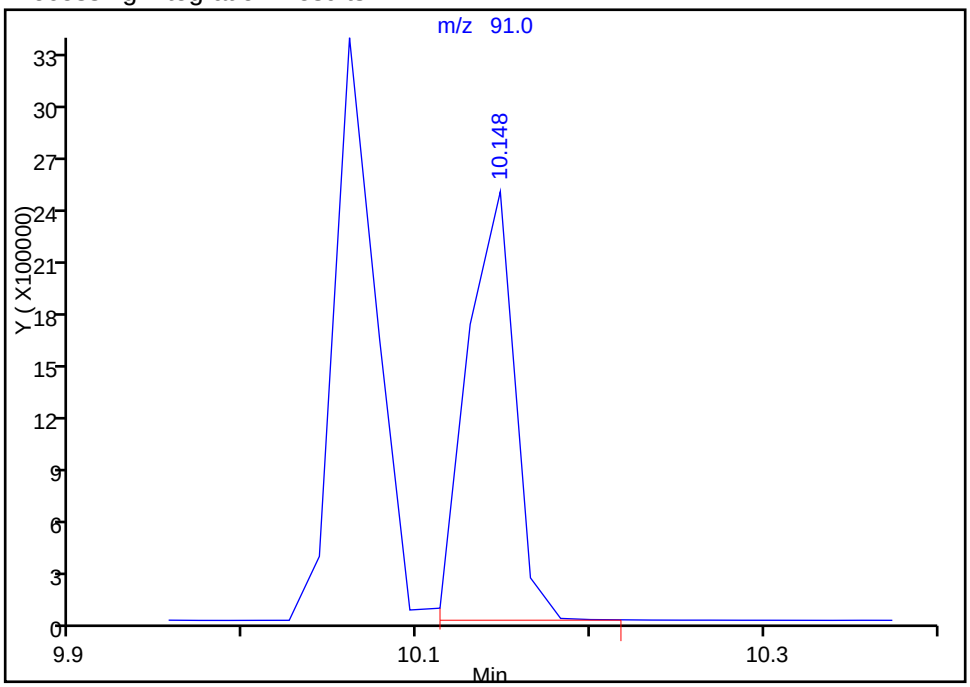
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D				
Injection Date:	18-May-2015 20:11:30	Instrument ID:	VMS_J		
Lims ID:	STD200				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	19	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

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

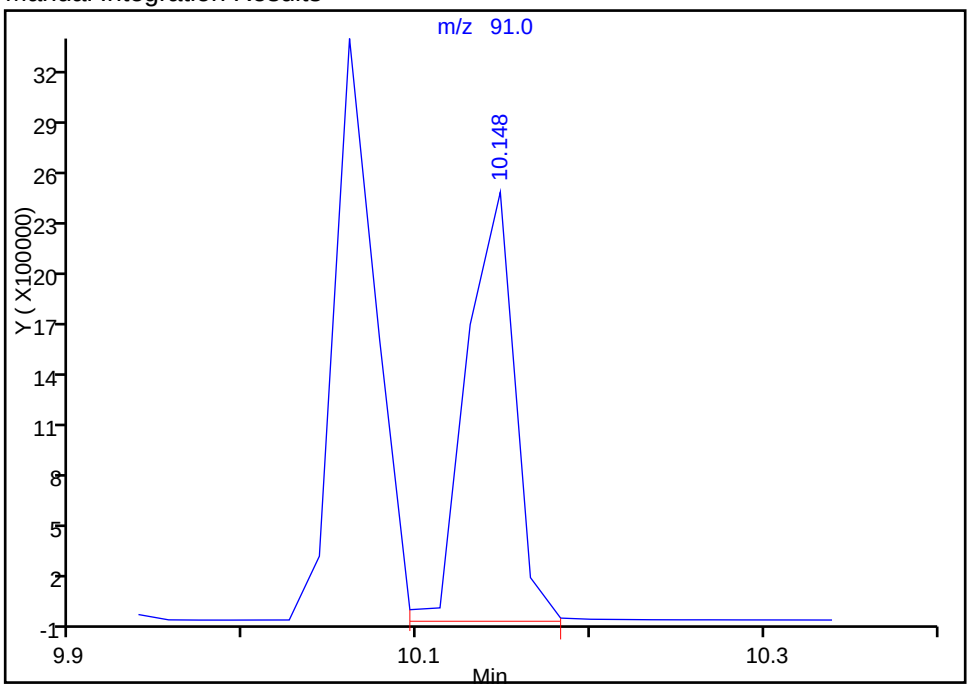
Processing Integration Results

RT: 10.15
Area: 4739424
Amount: 214.8414
Amount Units: ug/l



Manual Integration Results

RT: 10.15
Area: 4844444
Amount: 217.9274
Amount Units: ug/l



Reviewer: dukesa, 18-May-2015 20:44:38
Audit Action: Manually Integrated
Audit Reason: Other

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: ICV 280-279265/23 Calibration Date: 05/28/2015 05:32

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H2963.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
Ethanol	Lin2		0.0007		494	500	-1.2	20.0
Isopropyl alcohol	Lin1		0.0055		88.7	100	-11.3	20.0
Acetonitrile	Lin1		0.0068		87.6	100	-12.4	20.0
Isopropyl ether	Ave	0.2894	0.2975		10.3	10.0	2.8	20.0
2-Chloro-1,3-butadiene	Ave	0.6594	0.6104		9.26	10.0	-7.4	20.0
Tert-butyl ethyl ether	Ave	1.173	1.143		9.74	10.0	-2.6	20.0
Ethyl acetate	Ave	0.1586	0.0758		9.55	20.0	-52.2*	20.0
Propionitrile	Ave	0.0113	0.0105		92.9	100	-7.1	20.0
Methacrylonitrile	Ave	0.0991	0.0961		97.0	100	-3.0	20.0
Tert-amyl methyl ether	Ave	0.9234	0.9401		10.2	10.0	1.8	20.0
n-Butanol	Ave	0.0033	0.0030		227	250	-9.4	20.0
Methyl methacrylate	Ave	0.0554	0.0515		18.6	20.0	-7.1	20.0
2-Nitropropane	Ave	0.0409	0.0376		18.4	20.0	-8.2	20.0
cis-1,4-Dichloro-2-butene	Ave	0.2201	0.2023		9.19	10.0	-8.1	20.0
1,2,3-Trimethylbenzene	Ave	3.344	3.256		9.74	10.0	-2.6	20.0
Dibromofluoromethane (Surr)	Ave	0.6313	0.6147		9.74	10.0	-2.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3497	0.3415		9.76	10.0	-2.4	20.0
Toluene-d8 (Surr)	Ave	6.098	5.438		8.92	10.0	-10.8	20.0
4-Bromofluorobenzene (Surr)	Ave	2.139	2.033		9.50	10.0	-5.0	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2963.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 28-May-2015 05:32:30 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: icv
Operator ID: BERGERB Instrument ID: VMS_H
Sublist:

Method: \\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 28-May-2015 07:24:23 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: wickhamt Date: 28-May-2015 06:59:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.972	3.974	-0.002	99	204860	250.0	250.0	
* 2 Fluorobenzene	96	6.758	6.759	-0.001	98	1164628	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.110	11.094	0.016	93	280885	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.122	14.106	0.016	98	430424	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.922	5.924	-0.002	93	572757	10.0	9.74	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.340	6.342	-0.002	83	318128	10.0	9.76	
$ 10 Toluene-d8 (Surr)	98	8.882	8.883	-0.001	95	1222071	10.0	8.92	
$ 11 4-Bromofluorobenzene (Surr	95	12.764	12.766	-0.002	81	700042	10.0	9.50	
34 Ethylene oxide	43	2.632	2.633	-0.001	99	932781	2000.0	1631.5	
39 Ethanol	45	3.189	3.156	0.033	97	34023	500.0	493.9	
43 Propene oxide	58	3.293	3.295	-0.002	96	951459	500.0	435.8	
49 Isopropyl alcohol	45	3.641	3.626	0.015	91	50985	100.0	88.7	
51 Acetonitrile	41	3.816	3.817	-0.001	43	63540	100.0	87.6	
62 Isopropyl ether	87	4.738	4.757	-0.019	99	277193	10.0	10.3	
63 2-Chloro-1,3-butadiene	53	4.791	4.792	-0.002	92	568751	10.0	9.26	
64 Tert-butyl ethyl ether	59	5.156	5.175	-0.019	99	1065234	10.0	9.74	
69 Ethyl acetate	43	5.417	5.419	-0.002	99	141175	20.0	9.55	
70 Propionitrile	54	5.452	5.454	-0.002	97	97746	100.0	92.9	
72 Methacrylonitrile	41	5.609	5.610	-0.001	96	895777	100.0	97.0	
83 Tert-amyl methyl ether	73	6.549	6.551	-0.001	96	875908	10.0	10.2	
85 n-Butanol	56	7.158	7.160	-0.002	92	69671	250.0	226.5	
87 Ethyl acrylate	55	7.350	7.351	-0.001	0	243316	NC	NC	
91 Methyl methacrylate	100	7.663	7.665	-0.002	95	95933	20.0	18.6	
95 2-Nitropropane	41	8.203	8.187	0.016	96	69966	20.0	18.4	
107 Tetrahydrothiophene	60	10.118	10.119	-0.001	67	94629	10.0	7.82	
119 cis-1,4-Dichloro-2-butene	53	12.660	12.661	-0.001	93	69653	10.0	9.19	
135 1,2,3-Trimethylbenzene	105	14.192	14.193	-0.001	99	1121122	10.0	9.74	
140 1,3,5-Trichlorobenzene	180	15.515	15.516	-0.001	95	569390	10.0	10.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

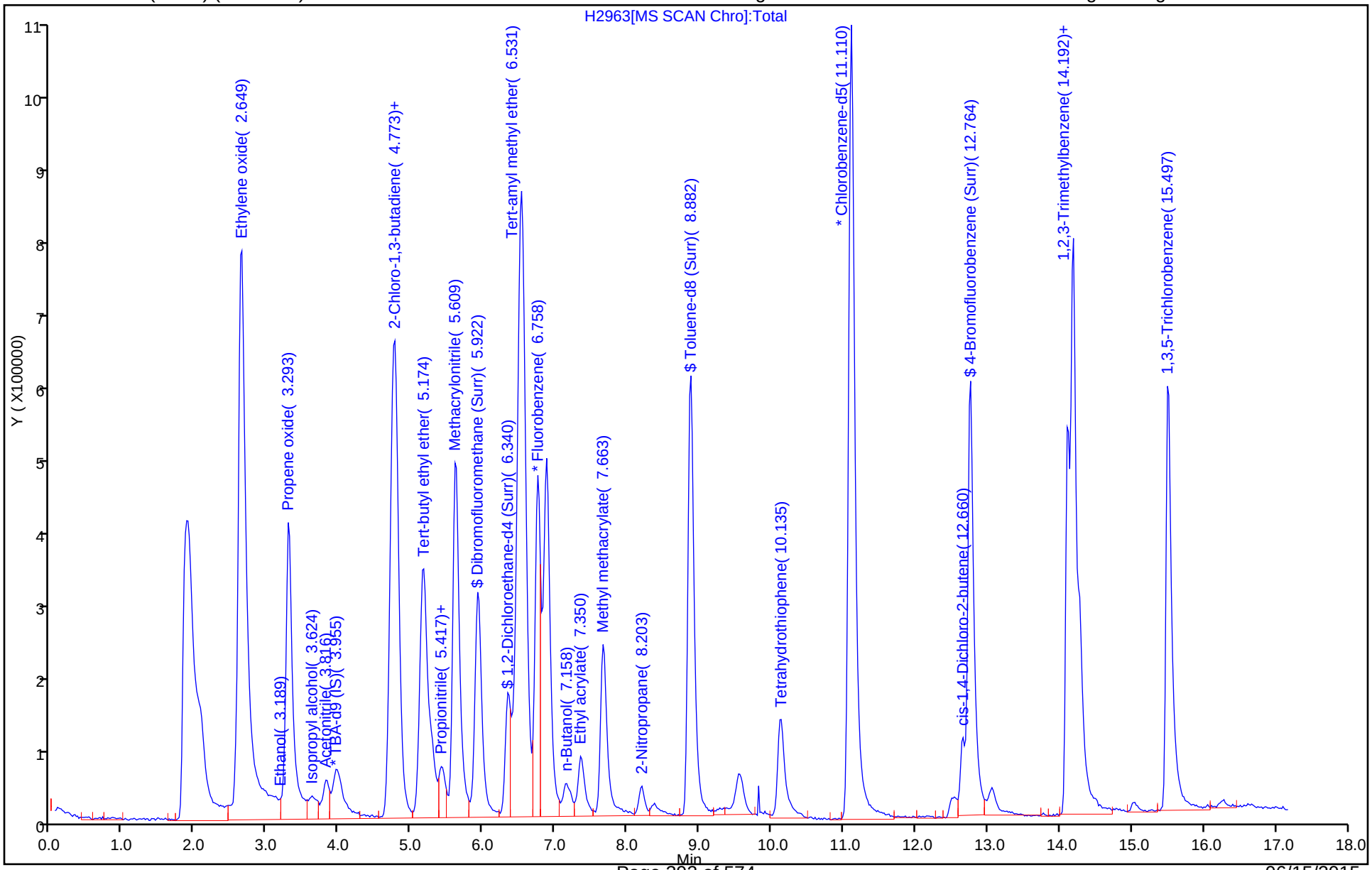
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Supp B_00005	Amount Added:	5.00	Units: uL
MV-ARCH SS A_00042	Amount Added:	0.80	Units: uL

Report Date: 28-May-2015 07:24:25 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2963.D				
Injection Date:	28-May-2015 05:32:30	Instrument ID:	VMS_H	Operator ID:	BERGERB
Lims ID:	icv			Worklist Smp#:	23
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-279635/2 Calibration Date: 05/29/2015 21:00

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3062.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	Lin1		0.5585		9.28	10.0	-7.2	20.0
Chloromethane	Ave	0.3892	0.3859	0.1000	9.91	10.0	-0.9	20.0
Vinyl chloride	Ave	0.3807	0.3832		10.1	10.0	0.7	20.0
Bromomethane	Ave	0.3159	0.3204		10.1	10.0	1.4	20.0
Chloroethane	Ave	0.2314	0.2454		10.6	10.0	6.1	20.0
Dichlorofluoromethane	Ave	0.8394	0.9138		10.9	10.0	8.9	20.0
Trichlorofluoromethane	Ave	0.7509	0.7922		10.6	10.0	5.5	20.0
Ethyl ether	Ave	0.1983	0.1985		10.0	10.0	0.0	20.0
Acrolein	Ave	0.0137	0.0094		68.9	100	-31.1*	20.0
1,1-Dichloroethene	Ave	0.3733	0.3832		10.3	10.0	2.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.5088	0.5274		10.4	10.0	3.7	20.0
Acetone	Ave	0.0389	0.0372		38.3	40.0	-4.3	20.0
Iodomethane	Ave	0.8401	0.8223		9.79	10.0	-2.1	20.0
Carbon disulfide	Ave	1.439	1.411		9.81	10.0	-1.9	20.0
3-Chloro-1-propene	Ave	0.8666	0.8475		9.78	10.0	-2.2	20.0
Methyl acetate	Ave	0.1259	0.1245		49.4	50.0	-1.1	20.0
Methylene Chloride	Lin2		0.3328		10.1	10.0	0.6	20.0
tert-Butyl alcohol	Lin1		1.213		99.8	100	-0.2	20.0
Acrylonitrile	Ave	0.0326	0.0322		98.9	100	-1.1	20.0
Methyl tert-butyl ether	Ave	0.7116	0.6910		9.71	10.0	-2.9	20.0
trans-1,2-Dichloroethene	Ave	0.4200	0.4206		10.0	10.0	0.2	20.0
Hexane	Ave	3.353	3.517		10.5	10.0	4.9	20.0
1,1-Dichloroethane	Ave	0.8867	0.8555	0.1000	9.65	10.0	-3.5	20.0
Vinyl acetate	Ave	0.5491	0.5500		20.0	20.0	0.2	20.0
2-Butanone (MEK)	Ave	0.0717	0.0763		42.5	40.0	6.3	20.0
cis-1,2-Dichloroethene	Ave	0.4232	0.4200		9.92	10.0	-0.8	20.0
2,2-Dichloropropane	Lin2		0.8125		10.3	10.0	3.4	20.0
sec-Butyl Alcohol	Ave	1.790	1.577		264	300	-11.9	20.0
Bromochloromethane	Ave	0.1857	0.1846		9.94	10.0	-0.6	20.0
Tetrahydrofuran	Ave	0.0516	0.0495		19.2	20.0	-4.2	20.0
Chloroform	Ave	0.8281	0.8070		9.75	10.0	-2.5	20.0
1,1,1-Trichloroethane	Ave	0.7908	0.7917		10.0	10.0	0.1	20.0
Cyclohexane	Ave	0.8724	0.8721		10.0	10.0	-0.0	20.0
1,1-Dichloropropene	Ave	0.7089	0.6819		9.62	10.0	-3.8	20.0
Carbon tetrachloride	Ave	0.7352	0.7448		10.1	10.0	1.3	20.0
Isobutyl alcohol	Ave	0.6270	0.6322		252	250	0.8	20.0
Benzene	Ave	1.309	1.336		10.2	10.0	2.0	20.0
1,2-Dichloroethane	Ave	0.3956	0.3764		9.51	10.0	-4.9	20.0
Trichloroethene	Ave	0.5325	0.5412		10.2	10.0	1.6	20.0
2-Pentanone	Ave	0.1989	0.1880		37.8	40.0	-5.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-279635/2 Calibration Date: 05/29/2015 21:00

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3062.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.7772	0.8016		10.3	10.0	3.1	20.0
1,2-Dichloropropane	Ave	0.5231	0.5004		9.57	10.0	-4.3	20.0
Dibromomethane	Ave	0.2607	0.2412		9.25	10.0	-7.5	20.0
1,4-Dioxane	Lin2		0.0015		201	200	0.3	20.0
Bromodichloromethane	Ave	0.7613	0.7459		9.80	10.0	-2.0	20.0
2-Chloroethyl vinyl ether	Ave	0.0935	0.0843		9.02	10.0	-9.8	20.0
cis-1,3-Dichloropropene	Ave	2.945	2.951		10.0	10.0	0.2	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.2834		42.6	40.0	6.6	20.0
Toluene	Ave	1.501	1.486		9.90	10.0	-1.0	20.0
trans-1,3-Dichloropropene	Ave	0.4794	0.4674		9.75	10.0	-2.5	20.0
Ethyl methacrylate	Ave	1.808	1.830		10.1	10.0	1.2	20.0
1,1,2-Trichloroethane	Ave	0.3008	0.2805		9.33	10.0	-6.7	20.0
Tetrachloroethene	Ave	2.034	2.141		10.5	10.0	5.3	20.0
1,3-Dichloropropane	Ave	2.292	2.217		9.67	10.0	-3.3	20.0
2-Hexanone	Lin1		0.8398		40.5	40.0	1.2	20.0
Chlorodibromomethane	Ave	2.231	2.286		10.2	10.0	2.4	20.0
1,2-Dibromoethane	Ave	1.573	1.561		9.93	10.0	-0.7	20.0
1-Chlorohexane	Ave	3.436	3.505		10.2	10.0	2.0	20.0
Chlorobenzene	Ave	4.483	4.519	0.3000	10.1	10.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	2.164	2.232		10.3	10.0	3.1	20.0
Ethylbenzene	Ave	2.285	2.353		10.3	10.0	2.9	20.0
m-Xylene & p-Xylene	Ave	3.107	3.169		10.2	10.0	2.0	20.0
o-Xylene	Ave	2.726	2.850		10.5	10.0	4.5	20.0
Styrene	Ave	4.408	4.572		10.4	10.0	3.7	20.0
Bromoform	Ave	1.204	1.241	0.1000	10.3	10.0	3.1	20.0
Isopropylbenzene	Ave	5.356	5.268		9.84	10.0	-1.6	20.0
Cyclohexanone	Lin1		0.0276		399	400	-0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.115	1.037	0.3000	9.30	10.0	-7.0	20.0
Bromobenzene	Ave	1.235	1.206		9.77	10.0	-2.3	20.0
1,2,3-Trichloropropane	Ave	0.2607	0.2393		9.18	10.0	-8.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2926	0.2554		8.73	10.0	-12.7	20.0
N-Propylbenzene	Ave	1.311	1.278		9.75	10.0	-2.5	20.0
2-Chlorotoluene	Ave	1.016	0.9879		9.72	10.0	-2.8	20.0
1,3,5-Trimethylbenzene	Ave	4.052	3.921		9.68	10.0	-3.2	20.0
4-Chlorotoluene	Ave	1.313	1.297		9.88	10.0	-1.2	20.0
tert-Butylbenzene	Ave	4.395	4.264		9.70	10.0	-3.0	20.0
1,2,4-Trimethylbenzene	Ave	3.849	3.710		9.64	10.0	-3.6	20.0
sec-Butylbenzene	Ave	1.160	1.136		9.80	10.0	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.876	1.774		9.46	10.0	-5.4	20.0
p-Isopropyltoluene	Ave	4.989	4.982		9.99	10.0	-0.1	20.0
1,4-Dichlorobenzene	Ave	2.898	2.861		9.87	10.0	-1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-279635/2 Calibration Date: 05/29/2015 21:00

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3062.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
n-Butylbenzene	Ave	5.241	5.026		9.59	10.0	-4.1	20.0
1,2-Dichlorobenzene	Ave	1.969	1.940		9.85	10.0	-1.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1839	0.1773		9.64	10.0	-3.6	20.0
1,2,4-Trichlorobenzene	Ave	1.323	1.326		10.0	10.0	0.2	20.0
Hexachlorobutadiene	Ave	1.379	1.362		9.87	10.0	-1.3	20.0
Naphthalene	Ave	1.505	1.475		9.80	10.0	-2.0	20.0
1,2,3-Trichlorobenzene	Ave	1.042	1.000		9.60	10.0	-4.0	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3062.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-May-2015 21:00:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: CCV M
Operator ID: bergerb Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub52

Method: \\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 16:41:20 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: bergerb Date: 02-Jun-2015 16:41:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.973	3.973	0.000	98	231649	250.0	250.0	
* 2 Fluorobenzene	96	6.759	6.759	0.000	98	1232049	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.111	11.111	0.000	91	269505	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.123	14.123	0.000	97	462458	12.5	12.5	
28 Dichlorodifluoromethane	85	2.162	2.162	0.000	100	550511	10.0	9.28	
30 Chloromethane	50	2.267	2.267	0.000	99	380367	10.0	9.91	
31 Butadiene	54	2.371	2.371	0.000	0	297039	NC	NC	
32 Vinyl chloride	62	2.389	2.389	0.000	98	377733	10.0	10.1	
35 Bromomethane	94	2.685	2.685	0.000	90	315827	10.0	10.1	
36 Chloroethane	64	2.754	2.754	0.000	100	241881	10.0	10.6	
37 Dichlorofluoromethane	67	2.928	2.928	0.000	98	900701	10.0	10.9	
38 Trichlorofluoromethane	101	2.998	2.998	0.000	100	780828	10.0	10.6	
40 Ethyl ether	59	3.207	3.207	0.000	94	195630	10.0	10.0	
44 Acrolein	56	3.364	3.364	0.000	97	92816	100.0	68.9	
45 1,1-Dichloroethene	96	3.468	3.468	0.000	95	377703	10.0	10.3	
46 1,1,2-Trichloro-1,2,2-trif	151	3.503	3.503	0.000	98	519859	10.0	10.4	
47 Acetone	43	3.503	3.503	0.000	98	146796	40.0	38.3	
48 Iodomethane	142	3.642	3.642	0.000	99	810520	10.0	9.79	
50 Carbon disulfide	76	3.729	3.729	0.000	100	1391161	10.0	9.81	
53 Methyl acetate	43	3.816	3.816	0.000	72	613525	50.0	49.4	
52 3-Chloro-1-propene	41	3.816	3.816	0.000	93	835322	10.0	9.78	
54 Methylene Chloride	84	3.956	3.956	0.000	98	328043	10.0	10.1	
55 2-Methyl-2-propanol	59	4.077	4.077	0.000	95	112415	100.0	99.8	
57 Acrylonitrile	53	4.199	4.199	0.000	99	317476	100.0	98.9	
56 Methyl tert-butyl ether	73	4.234	4.234	0.000	97	681104	10.0	9.71	
58 trans-1,2-Dichloroethene	96	4.234	4.234	0.000	95	414596	10.0	10.0	
59 Hexane	57	4.513	4.513	0.000	96	758329	10.0	10.5	
60 1,1-Dichloroethane	63	4.687	4.687	0.000	96	843190	10.0	9.65	
61 Vinyl acetate	43	4.722	4.722	0.000	96	1084121	20.0	20.0	
65 cis-1,2-Dichloroethene	96	5.366	5.366	0.000	88	413931	10.0	9.92	
67 2-Butanone (MEK)	43	5.366	5.366	0.000	68	300655	40.0	42.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
66 2,2-Dichloropropane	77	5.383	5.383	0.000	90	800785	10.0	10.3	
71 sec-Butyl Alcohol	45	5.575	5.575	0.000	96	438267	300.0	264.3	
73 Chlorobromomethane	128	5.644	5.644	0.000	90	181936	10.0	9.94	
74 Tetrahydrofuran	42	5.714	5.714	0.000	97	97470	20.0	19.2	
75 Chloroform	83	5.731	5.731	0.000	98	795393	10.0	9.75	
76 1,1,1-Trichloroethane	97	5.975	5.975	0.000	97	780362	10.0	10.0	
77 Cyclohexane	56	6.062	6.062	0.000	96	859612	10.0	10.0	
78 1,1-Dichloropropene	75	6.167	6.167	0.000	96	672106	10.0	9.62	
79 Carbon tetrachloride	117	6.184	6.184	0.000	98	734082	10.0	10.1	
80 Isobutyl alcohol	41	6.288	6.288	0.000	93	146438	250.0	252.1	
81 Benzene	78	6.428	6.428	0.000	98	1317087	10.0	10.2	
82 1,2-Dichloroethane	62	6.445	6.445	0.000	96	370973	10.0	9.51	
84 n-Heptane	43	6.724	6.724	0.000	97	1148422	10.0	10.0	
86 Trichloroethene	95	7.229	7.229	0.000	97	533399	10.0	10.2	
88 2-Pentanone	43	7.472	7.472	0.000	97	741244	40.0	37.8	
89 Methylcyclohexane	55	7.507	7.507	0.000	91	790122	10.0	10.3	
90 1,2-Dichloropropane	63	7.525	7.525	0.000	97	493179	10.0	9.57	
92 Dibromomethane	93	7.699	7.699	0.000	93	237716	10.0	9.25	
93 1,4-Dioxane	88	7.716	7.716	0.000	30	29185	200.0	200.7	
94 Dichlorobromomethane	83	7.890	7.890	0.000	98	735166	10.0	9.80	
96 2-Chloroethyl vinyl ether	63	8.291	8.291	0.000	88	83091	10.0	9.02	
97 cis-1,3-Dichloropropene	75	8.499	8.499	0.000	91	636268	10.0	10.0	
98 4-Methyl-2-pentanone (MIBK	43	8.726	8.726	0.000	97	1117330	40.0	42.6	
99 Toluene	91	8.970	8.970	0.000	98	1464643	10.0	9.90	
100 trans-1,3-Dichloropropene	75	9.283	9.283	0.000	97	460654	10.0	9.75	
101 Ethyl methacrylate	69	9.422	9.422	0.000	97	394548	10.0	10.1	
102 1,1,2-Trichloroethane	97	9.544	9.544	0.000	94	276508	10.0	9.33	
103 Tetrachloroethene	164	9.770	9.770	0.000	97	461551	10.0	10.5	
104 1,3-Dichloropropane	76	9.788	9.788	0.000	98	477944	10.0	9.67	
105 2-Hexanone	43	9.927	9.927	0.000	99	724274	40.0	40.5	
108 Chlorodibromomethane	129	10.153	10.153	0.000	91	492800	10.0	10.2	
109 Ethylene Dibromide	107	10.345	10.345	0.000	98	336581	10.0	9.93	
110 1-Chlorohexane	91	11.111	11.111	0.000	91	755585	10.0	10.2	
111 Chlorobenzene	112	11.146	11.146	0.000	90	974293	10.0	10.1	
112 1,1,1,2-Tetrachloroethane	131	11.285	11.285	0.000	96	481163	10.0	10.3	
113 Ethylbenzene	106	11.320	11.320	0.000	99	507214	10.0	10.3	
114 m-Xylene & p-Xylene	106	11.511	11.511	0.000	98	683279	10.0	10.2	
115 o-Xylene	106	12.068	12.068	0.000	99	614413	10.0	10.5	
116 Styrene	104	12.086	12.086	0.000	94	985776	10.0	10.4	
117 Bromoform	173	12.347	12.347	0.000	95	267598	10.0	10.3	
118 Isopropylbenzene	105	12.573	12.573	0.000	97	1949028	10.0	9.84	
120 Cyclohexanone	55	12.695	12.695	0.000	98	238048	400.0	399.1	
122 Bromobenzene	156	12.956	12.956	0.000	94	446266	10.0	9.77	
121 1,1,2,2-Tetrachloroethane	83	12.956	12.956	0.000	95	383552	10.0	9.30	
123 1,2,3-Trichloropropane	110	13.009	13.009	0.000	81	88530	10.0	9.18	
124 trans-1,4-Dichloro-2-buten	53	13.026	13.026	0.000	66	94486	10.0	8.73	
125 N-Propylbenzene	120	13.078	13.078	0.000	99	472760	10.0	9.75	
126 2-Chlorotoluene	126	13.183	13.183	0.000	96	365485	10.0	9.72	
127 1,3,5-Trimethylbenzene	105	13.305	13.305	0.000	95	1450599	10.0	9.68	
128 4-Chlorotoluene	126	13.322	13.322	0.000	98	479790	10.0	9.88	
129 tert-Butylbenzene	119	13.670	13.670	0.000	95	1577641	10.0	9.70	
130 1,2,4-Trimethylbenzene	105	13.740	13.740	0.000	95	1372643	10.0	9.64	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
131 sec-Butylbenzene	134	13.931	13.931	0.000	95	420416	10.0	9.80	
132 1,3-Dichlorobenzene	146	14.053	14.053	0.000	96	656394	10.0	9.46	
133 4-Isopropyltoluene	119	14.088	14.088	0.000	98	1843314	10.0	9.99	
134 1,4-Dichlorobenzene	146	14.140	14.140	0.000	94	1058386	10.0	9.87	
137 n-Butylbenzene	91	14.506	14.506	0.000	98	1859445	10.0	9.59	
138 1,2-Dichlorobenzene	146	14.541	14.541	0.000	96	717769	10.0	9.85	
139 1,2-Dibromo-3-Chloropropan	157	15.324	15.324	0.000	80	65591	10.0	9.64	
141 1,2,4-Trichlorobenzene	180	16.090	16.090	0.000	95	490474	10.0	10.0	a
142 Hexachlorobutadiene	225	16.229	16.229	0.000	97	503731	10.0	9.87	
143 Naphthalene	128	16.299	16.299	0.000	97	545701	10.0	9.80	
144 1,2,3-Trichlorobenzene	180	16.525	16.525	0.000	94	369899	10.0	9.60	a
S 151 1,2-Dichloroethene, Total	96				0		20.0	19.9	
S 149 1,2-Dichloroethene, Total	1				0		20.0	19.9	
S 150 Xylenes, Total	106				0		20.0	20.7	
S 148 1,3-Dichloropropene, Total	1				0		20.0	19.8	
S 145 Trihalomethanes, Total	1				0		40.0	40.1	
S 146 Xylenes, Total (URS)	1				0		20.0	20.7	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

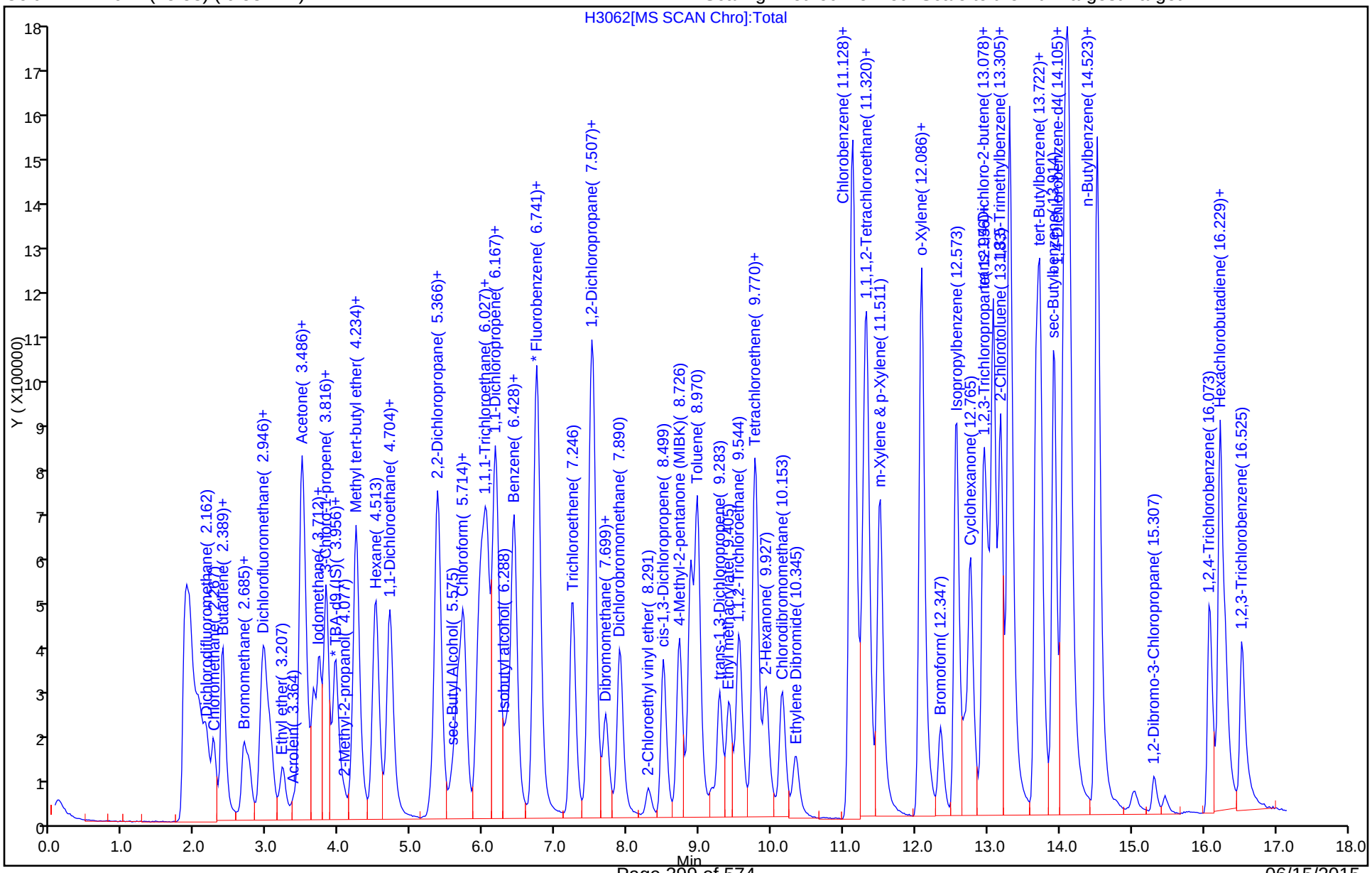
MV-568718-D_00002	Amount Added:	1.00	Units: uL
MV-Main A_00022	Amount Added:	5.00	Units: uL
MV-Gas/Ket A_00033	Amount Added:	5.00	Units: uL
MV-2cleve+AVA_00009	Amount Added:	5.00	Units: uL

Report Date: 02-Jun-2015 16:41:21 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3062.D				
Injection Date:	29-May-2015 21:00:30	Instrument ID:	VMS_H	Operator ID:	bergerb
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

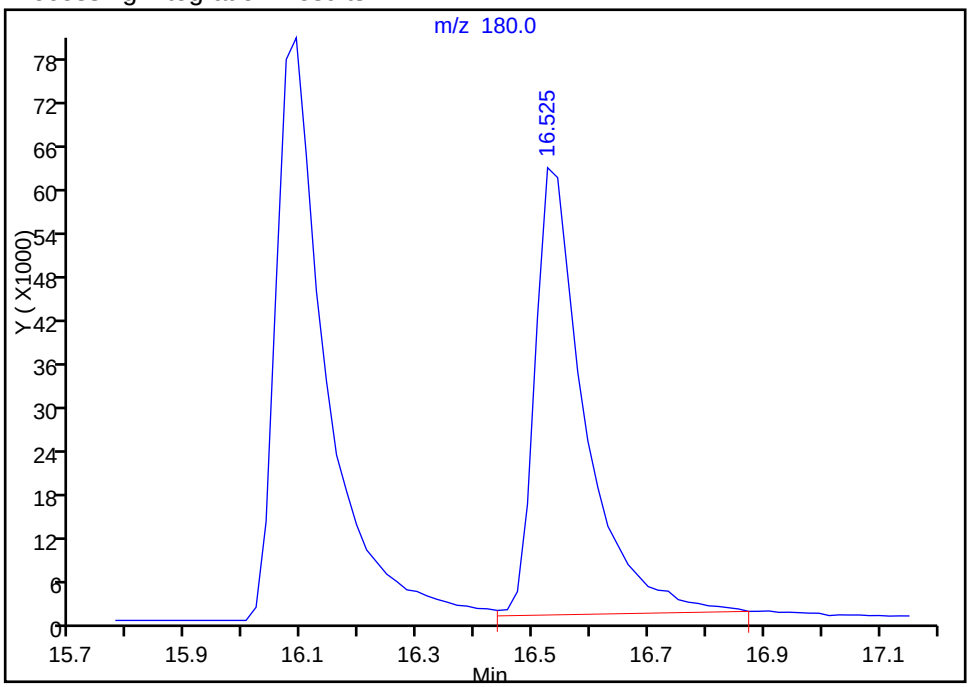
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3062.D				
Injection Date:	29-May-2015 21:00:30	Instrument ID:	VMS_H		
Lims ID:	CCV				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

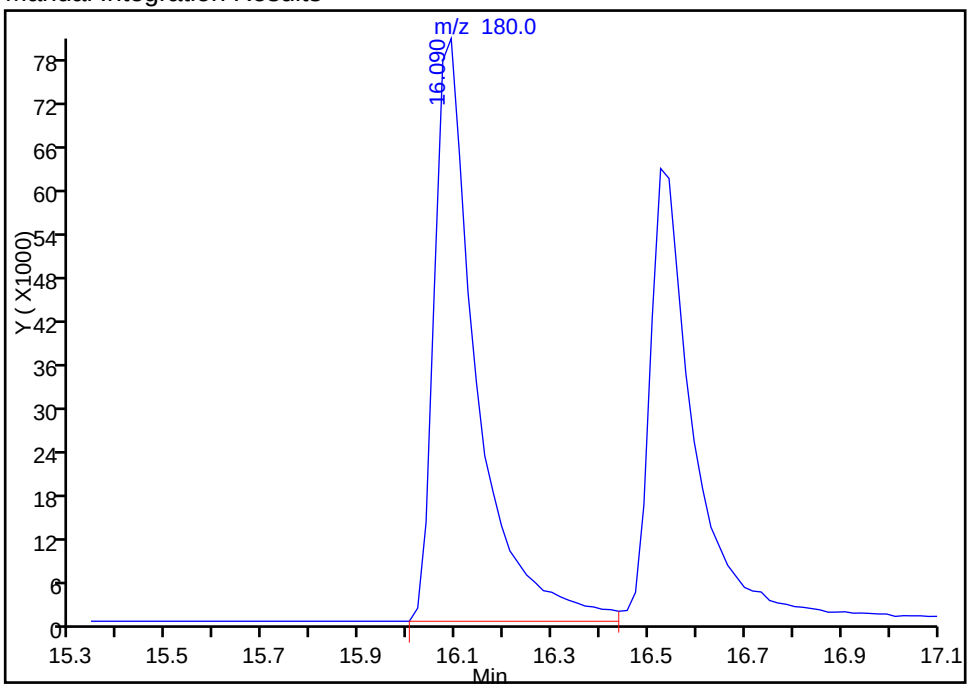
Processing Integration Results

RT: 16.53
Area: 369899
Amount: 7.558247
Amount Units: ug/l



Manual Integration Results

RT: 16.09
Area: 490474
Amount: 10.021989
Amount Units: ug/l



Reviewer: bergerb, 02-Jun-2015 16:41:20
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

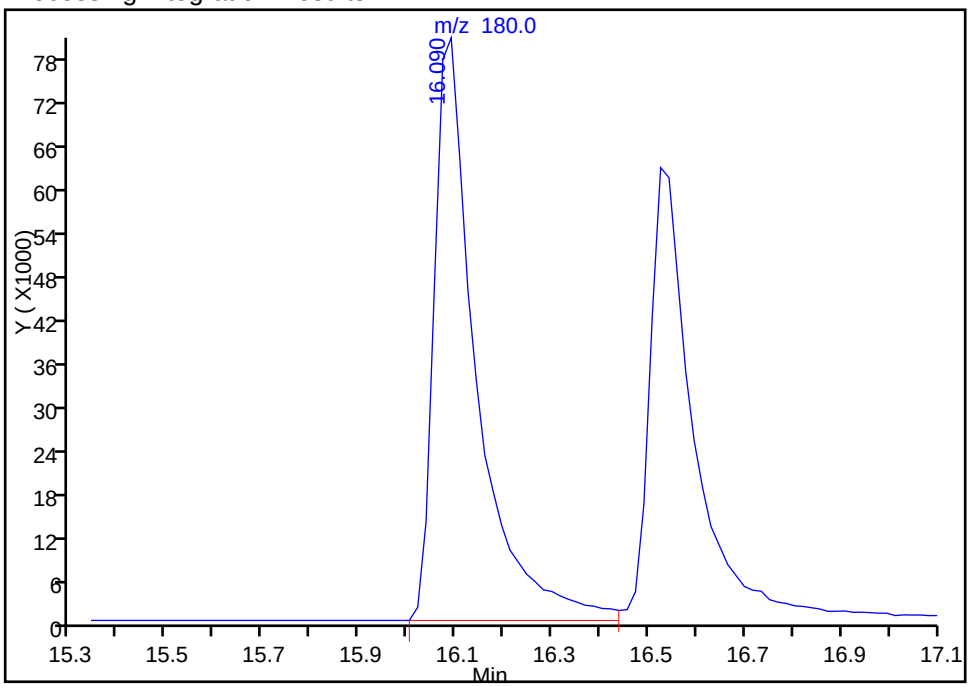
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3062.D				
Injection Date:	29-May-2015 21:00:30	Instrument ID:	VMS_H		
Lims ID:	CCV				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	1	Worklist Smp#:	2
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

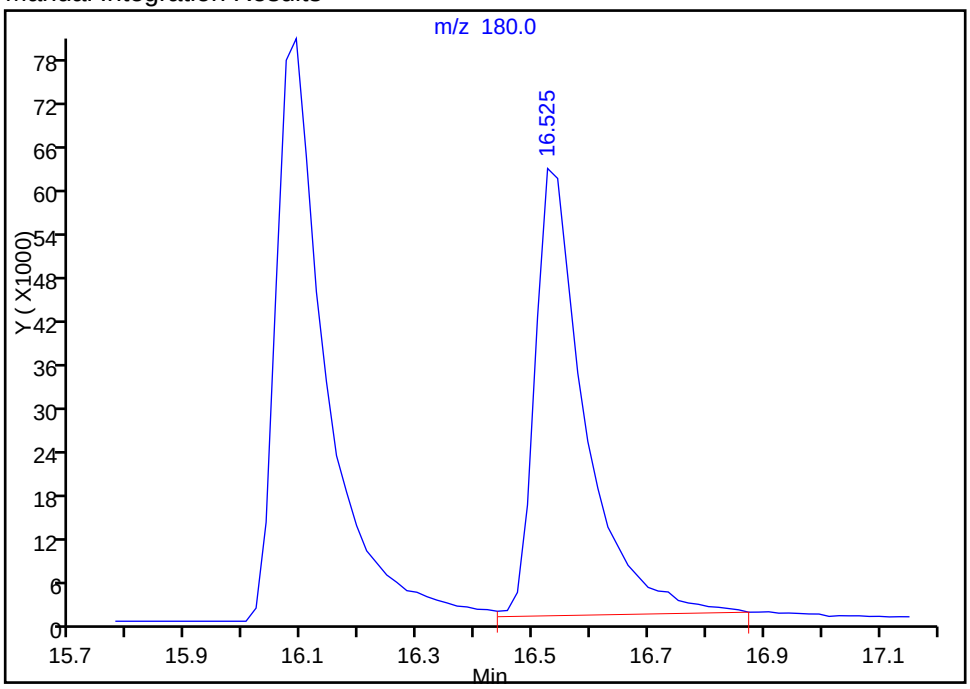
Processing Integration Results

RT: 16.09
Area: 490474
Amount: 12.724517
Amount Units: ug/l



Manual Integration Results

RT: 16.53
Area: 369899
Amount: 9.596403
Amount Units: ug/l



Reviewer: bergerb, 02-Jun-2015 16:41:20
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-279635/3 Calibration Date: 05/29/2015 21:22

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3063.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
Ethanol	Lin2		0.0007		472	500	-5.6	20.0
Isopropyl alcohol	Lin1		0.0059		96.7	100	-3.3	20.0
Acetonitrile	Lin1		0.0066		108	125	-13.8	20.0
Isopropyl ether	Ave	0.2894	0.2845		12.3	12.5	-1.7	20.0
2-Chloro-1,3-butadiene	Ave	0.6594	0.6279		9.52	10.0	-4.8	20.0
Tert-butyl ethyl ether	Ave	1.173	1.124		12.0	12.5	-4.2	20.0
Ethyl acetate	Ave	0.1586	0.1554		19.6	20.0	-2.0	20.0
Propionitrile	Ave	0.0113	0.0106		117	125	-6.1	20.0
Methacrylonitrile	Ave	0.0991	0.0971		98.0	100	-2.0	20.0
Tert-amyl methyl ether	Ave	0.9234	0.9178		12.4	12.5	-0.6	20.0
n-Butanol	Ave	0.0033	0.0030		229	250	-8.4	20.0
Methyl methacrylate	Ave	0.0554	0.0523		18.9	20.0	-5.7	20.0
2-Nitropropane	Ave	0.0409	0.0432		21.1	20.0	5.6	20.0
cis-1,4-Dichloro-2-butene	Ave	0.2201	0.2108		9.57	10.0	-4.3	20.0
1,2,3-Trimethylbenzene	Ave	3.344	3.198		9.56	10.0	-4.4	20.0
Dibromofluoromethane (Surr)	Ave	0.6313	0.6018		8.10	8.50	-4.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3497	0.3174		7.71	8.50	-9.3	20.0
Toluene-d8 (Surr)	Ave	6.098	5.879		8.19	8.50	-3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	2.139	2.030		8.07	8.50	-5.1	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3063.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-May-2015 21:22:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: bergerb Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub86

Method: \\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jun-2015 17:38:18 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: bergerb Date: 01-Jun-2015 17:38:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.988	3.988	0.000	98	235914	250.0	250.0	
* 2 Fluorobenzene	96	6.757	6.757	0.000	98	1312983	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.109	11.109	0.000	93	301651	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.121	14.121	0.000	98	480881	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.921	5.921	0.000	93	537278	8.50	8.10	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.339	6.339	0.000	83	283357	8.50	7.71	
$ 10 Toluene-d8 (Surr)	98	8.881	8.881	0.000	95	1205971	8.50	8.19	
$ 11 4-Bromofluorobenzene (Surr	95	12.763	12.763	0.000	81	663918	8.50	8.07	
34 Ethylene oxide	43	2.648	2.648	0.000	99	1344642	2000.0	2086.1	
39 Ethanol	45	3.188	3.188	0.000	91	36805	500.0	472.1	
43 Propene oxide	58	3.292	3.292	0.000	96	1259759	500.0	511.8	
49 Isopropyl alcohol	45	3.623	3.623	0.000	97	62235	100.0	96.7	
51 Acetonitrile	41	3.797	3.797	0.000	98	86262	125.0	107.8	
62 Isopropyl ether	87	4.754	4.754	0.000	98	373587	12.5	12.3	
63 2-Chloro-1,3-butadiene	53	4.789	4.789	0.000	92	659584	10.0	9.52	
64 Tert-butyl ethyl ether	59	5.172	5.172	0.000	99	1476058	12.5	12.0	
69 Ethyl acetate	43	5.416	5.416	0.000	99	326499	20.0	19.6	
70 Propionitrile	54	5.451	5.451	0.000	97	139237	125.0	117.3	
72 Methacrylonitrile	41	5.625	5.625	0.000	97	1019710	100.0	98.0	
83 Tert-amyl methyl ether	73	6.565	6.565	0.000	96	1205037	12.5	12.4	
85 n-Butanol	56	7.157	7.157	0.000	93	79422	250.0	229.1	
87 Ethyl acrylate	55	7.348	7.348	0.000	0	267128	NC	NC	
91 Methyl methacrylate	100	7.662	7.662	0.000	96	109757	20.0	18.9	
95 2-Nitropropane	41	8.202	8.202	0.000	98	90803	20.0	21.1	
107 Tetrahydrothiophene	60	10.134	10.134	0.000	59	123678	10.0	9.52	
119 cis-1,4-Dichloro-2-butene	53	12.658	12.658	0.000	95	81081	10.0	9.57	
135 1,2,3-Trimethylbenzene	105	14.190	14.190	0.000	99	1230201	10.0	9.56	
140 1,3,5-Trichlorobenzene	180	15.514	15.514	0.000	95	606450	10.0	9.57	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

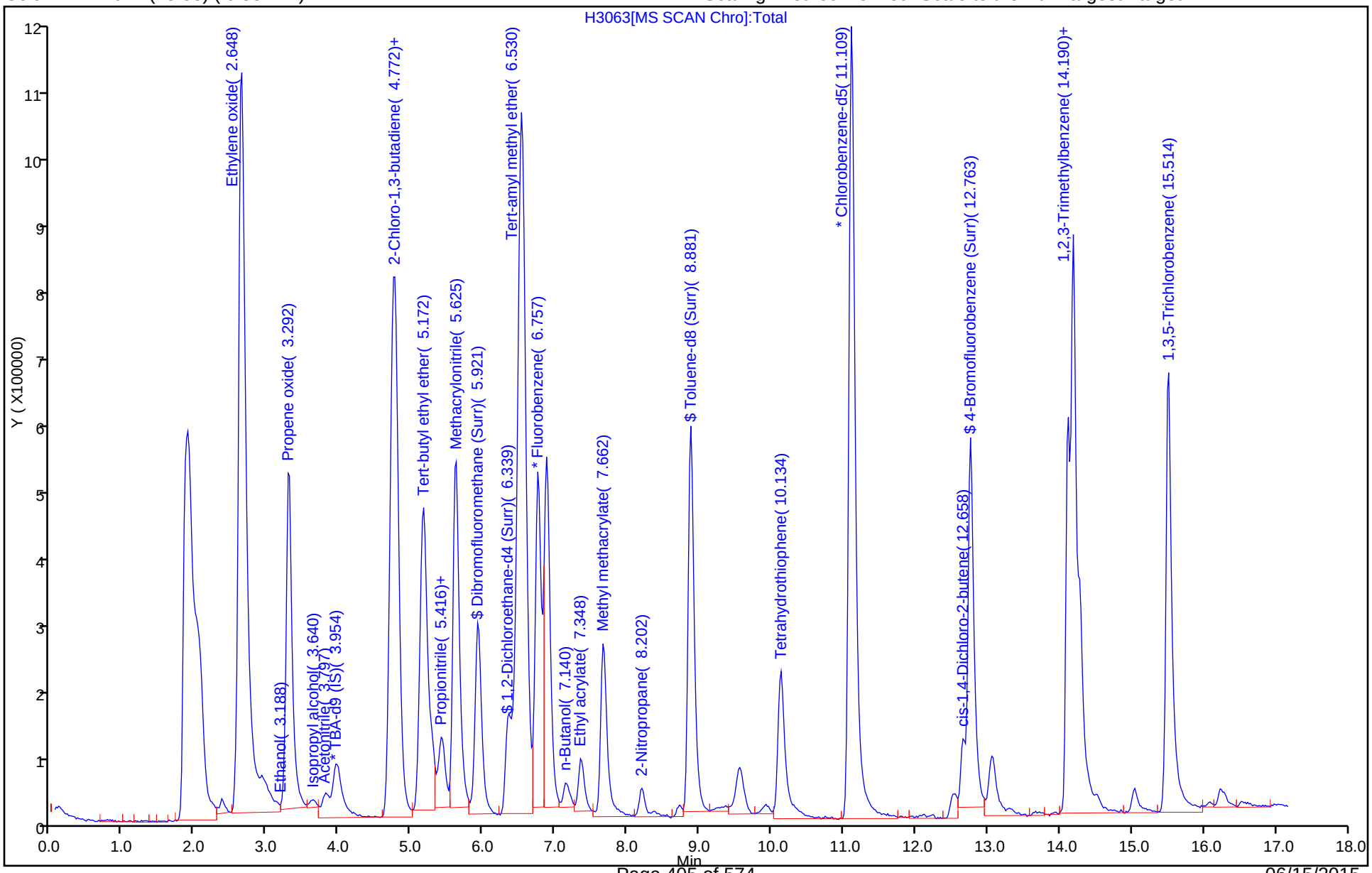
MV-Supp A_00011	Amount Added:	5.00	Units: uL	
MV-568718-D_00002	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00042	Amount Added:	0.68	Units: uL	Run Reagent

Report Date: 01-Jun-2015 17:38:18 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3063.D				
Injection Date:	29-May-2015 21:22:30	Instrument ID:	VMS_H	Operator ID:	bergerb
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-279635/56 Calibration Date: 05/30/2015 07:07

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3089.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	Lin1		0.4936		8.21	10.0	-17.9	50.0
Chloromethane	Ave	0.3892	0.3623	0.1000	9.31	10.0	-6.9	50.0
Vinyl chloride	Ave	0.3807	0.3438		9.03	10.0	-9.7	50.0
Bromomethane	Ave	0.3159	0.3055		9.67	10.0	-3.3	50.0
Chloroethane	Ave	0.2314	0.2194		9.48	10.0	-5.2	50.0
Dichlorofluoromethane	Ave	0.8394	0.8407		10.0	10.0	0.2	50.0
Trichlorofluoromethane	Ave	0.7509	0.6961		9.27	10.0	-7.3	50.0
Ethyl ether	Ave	0.1983	0.1964		9.90	10.0	-1.0	50.0
Acrolein	Ave	0.0137	0.0097		71.2	100	-28.8	50.0
1,1-Dichloroethene	Ave	0.3733	0.3683		9.87	10.0	-1.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.5088	0.5154		10.1	10.0	1.3	50.0
Acetone	Ave	0.0389	0.0370		38.1	40.0	-4.8	50.0
Iodomethane	Ave	0.8401	0.8137		9.69	10.0	-3.1	50.0
Carbon disulfide	Ave	1.439	1.394		9.68	10.0	-3.2	50.0
3-Chloro-1-propene	Ave	0.8666	0.8413		9.71	10.0	-2.9	50.0
Methyl acetate	Ave	0.1259	0.1280		50.8	50.0	1.7	50.0
Methylene Chloride	Lin2		0.3303		9.98	10.0	-0.2	50.0
tert-Butyl alcohol	Lin1		1.381		114	100	14.2	50.0
Acrylonitrile	Ave	0.0326	0.0325		99.9	100	-0.1	50.0
Methyl tert-butyl ether	Ave	0.7116	0.6750		9.49	10.0	-5.1	50.0
trans-1,2-Dichloroethene	Ave	0.4200	0.4113		9.79	10.0	-2.1	50.0
Hexane	Ave	3.353	3.464		10.3	10.0	3.3	50.0
1,1-Dichloroethane	Ave	0.8867	0.8606	0.1000	9.71	10.0	-2.9	50.0
Vinyl acetate	Ave	0.5491	0.5129		18.7	20.0	-6.6	50.0
2-Butanone (MEK)	Ave	0.0717	0.0755		42.1	40.0	5.2	50.0
cis-1,2-Dichloroethene	Ave	0.4232	0.4215		9.96	10.0	-0.4	50.0
2,2-Dichloropropane	Lin2		0.6928		8.70	10.0	-13.0	50.0
sec-Butyl Alcohol	Ave	1.790	1.614		270	300	-9.8	50.0
Bromochloromethane	Ave	0.1857	0.1840		9.91	10.0	-0.9	50.0
Chloroform	Ave	0.8281	0.8098		9.78	10.0	-2.2	50.0
Tetrahydrofuran	Ave	0.0516	0.0510		19.7	20.0	-1.3	50.0
1,1,1-Trichloroethane	Ave	0.7908	0.7790		9.85	10.0	-1.5	50.0
Cyclohexane	Ave	0.8724	0.8853		10.1	10.0	1.5	50.0
1,1-Dichloropropene	Ave	0.7089	0.6747		9.52	10.0	-4.8	50.0
Carbon tetrachloride	Ave	0.7352	0.7295		9.92	10.0	-0.8	50.0
Isobutyl alcohol	Ave	0.6270	0.6134		245	250	-2.2	50.0
Benzene	Ave	1.309	1.302		9.94	10.0	-0.6	50.0
1,2-Dichloroethane	Ave	0.3956	0.3849		9.73	10.0	-2.7	50.0
Trichloroethene	Ave	0.5325	0.5441		10.2	10.0	2.2	50.0
2-Pentanone	Ave	0.1989	0.1870		37.6	40.0	-6.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-279635/56 Calibration Date: 05/30/2015 07:07

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3089.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.7772	0.7862		10.1	10.0	1.2	50.0
1,2-Dichloropropane	Ave	0.5231	0.5033		9.62	10.0	-3.8	50.0
Dibromomethane	Ave	0.2607	0.2426		9.31	10.0	-6.9	50.0
1,4-Dioxane	Lin2		0.0014		195	200	-2.6	50.0
Bromodichloromethane	Ave	0.7613	0.7343		9.65	10.0	-3.5	50.0
2-Chloroethyl vinyl ether	Ave	0.0935	0.0803		8.59	10.0	-14.1	50.0
cis-1,3-Dichloropropene	Ave	2.945	2.861		9.72	10.0	-2.8	50.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.2763		41.6	40.0	3.9	50.0
Toluene	Ave	1.501	1.443		9.61	10.0	-3.9	50.0
trans-1,3-Dichloropropene	Ave	0.4794	0.4346		9.06	10.0	-9.4	50.0
Ethyl methacrylate	Ave	1.808	1.714		9.48	10.0	-5.2	50.0
1,1,2-Trichloroethane	Ave	0.3008	0.2693		8.95	10.0	-10.5	50.0
Tetrachloroethene	Ave	2.034	2.051		10.1	10.0	0.9	50.0
1,3-Dichloropropane	Ave	2.292	2.189		9.55	10.0	-4.5	50.0
2-Hexanone	Lin1		0.8068		38.9	40.0	-2.7	50.0
Chlorodibromomethane	Ave	2.231	2.172		9.73	10.0	-2.7	50.0
1,2-Dibromoethane	Ave	1.573	1.546		9.83	10.0	-1.7	50.0
1-Chlorohexane	Ave	3.436	3.254		9.47	10.0	-5.3	50.0
Chlorobenzene	Ave	4.483	4.365	0.3000	9.74	10.0	-2.6	50.0
1,1,1,2-Tetrachloroethane	Ave	2.164	2.137		9.88	10.0	-1.2	50.0
Ethylbenzene	Ave	2.285	2.286		10.0	10.0	0.0	50.0
m-Xylene & p-Xylene	Ave	3.107	3.039		9.78	10.0	-2.2	50.0
o-Xylene	Ave	2.726	2.704		9.92	10.0	-0.8	50.0
Styrene	Ave	4.408	4.304		9.76	10.0	-2.4	50.0
Bromoform	Ave	1.204	1.192	0.1000	9.90	10.0	-1.0	50.0
Isopropylbenzene	Ave	5.356	5.014		9.36	10.0	-6.4	50.0
Cyclohexanone	Lin1		0.0291		420	400	5.0	50.0
Bromobenzene	Ave	1.235	1.170		9.47	10.0	-5.3	50.0
1,1,2,2-Tetrachloroethane	Ave	1.115	0.9793	0.3000	8.78	10.0	-12.2	50.0
1,2,3-Trichloropropane	Ave	0.2607	0.2281		8.75	10.0	-12.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2926	0.2435		8.32	10.0	-16.8	50.0
N-Propylbenzene	Ave	1.311	1.217		9.29	10.0	-7.1	50.0
2-Chlorotoluene	Ave	1.016	0.9573		9.42	10.0	-5.8	50.0
1,3,5-Trimethylbenzene	Ave	4.052	3.786		9.34	10.0	-6.6	50.0
4-Chlorotoluene	Ave	1.313	1.235		9.41	10.0	-5.9	50.0
tert-Butylbenzene	Ave	4.395	4.044		9.20	10.0	-8.0	50.0
1,2,4-Trimethylbenzene	Ave	3.849	3.561		9.25	10.0	-7.5	50.0
sec-Butylbenzene	Ave	1.160	1.074		9.26	10.0	-7.4	50.0
1,3-Dichlorobenzene	Ave	1.876	1.743		9.29	10.0	-7.1	50.0
p-Isopropyltoluene	Ave	4.989	4.661		9.34	10.0	-6.6	50.0
1,4-Dichlorobenzene	Ave	2.898	2.599		8.97	10.0	-10.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-279635/56 Calibration Date: 05/30/2015 07:07

Instrument ID: VMS_H Calib Start Date: 05/28/2015 00:18

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/28/2015 05:10

Lab File ID: H3089.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
n-Butylbenzene	Ave	5.241	4.782		9.13	10.0	-8.7	50.0
1,2-Dichlorobenzene	Ave	1.969	1.798		9.13	10.0	-8.7	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1839	0.1720		9.35	10.0	-6.5	50.0
1,2,4-Trichlorobenzene	Ave	1.323	1.223		9.25	10.0	-7.5	50.0
Hexachlorobutadiene	Ave	1.379	1.258		9.12	10.0	-8.8	50.0
Naphthalene	Ave	1.505	1.368		9.08	10.0	-9.2	50.0
1,2,3-Trichlorobenzene	Ave	1.042	0.9905		9.51	10.0	-4.9	50.0
Dibromofluoromethane (Surr)	Ave	0.6313	0.6225		8.38	8.50	-1.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3497	0.3602		8.75	8.50	3.0	50.0
Toluene-d8 (Surr)	Ave	6.098	6.558		9.14	8.50	7.5	50.0
4-Bromofluorobenzene (Surr)	Ave	2.139	2.047		8.13	8.50	-4.3	50.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3089.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 30-May-2015 07:07:30 ALS Bottle#: 28 Worklist Smp#: 56
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: bergerb Instrument ID: VMS_H
Sublist: chrom-AQ_VMSH_8260*sub70

Method: \\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 16:41:42 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: bergerb Date: 01-Jun-2015 17:18:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.958	3.958	0.000	97	219549	250.0	250.0	
* 2 Fluorobenzene	96	6.761	6.761	0.000	97	1174019	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.113	11.113	0.000	92	257887	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.108	14.108	0.000	96	439788	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.925	5.925	0.000	93	496940	8.50	8.38	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.343	6.343	0.000	83	287522	8.50	8.75	
$ 10 Toluene-d8 (Surr)	98	8.885	8.885	0.000	94	1149950	8.50	9.14	
$ 11 4-Bromofluorobenzene (Surr	95	12.767	12.767	0.000	80	612287	8.50	8.13	
28 Dichlorodifluoromethane	85	2.165	2.165	0.000	98	463562	10.0	8.21	
30 Chloromethane	50	2.252	2.252	0.000	99	340315	10.0	9.31	
31 Butadiene	54	2.374	2.374	0.000	0	247950	NC	NC	
32 Vinyl chloride	62	2.391	2.391	0.000	98	322908	10.0	9.03	
35 Bromomethane	94	2.670	2.670	0.000	91	286971	10.0	9.67	
36 Chloroethane	64	2.739	2.739	0.000	100	206103	10.0	9.48	
37 Dichlorofluoromethane	67	2.931	2.931	0.000	99	789562	10.0	10.0	
38 Trichlorofluoromethane	101	2.983	2.983	0.000	100	653824	10.0	9.27	
40 Ethyl ether	59	3.209	3.209	0.000	95	184501	10.0	9.90	
44 Acrolein	56	3.366	3.366	0.000	98	91321	100.0	71.2	
45 1,1-Dichloroethene	96	3.470	3.470	0.000	94	345945	10.0	9.87	
46 1,1,2-Trichloro-1,2,2-trif	151	3.505	3.505	0.000	97	484064	10.0	10.1	
47 Acetone	43	3.505	3.505	0.000	46	139071	40.0	38.1	
48 Iodomethane	142	3.644	3.644	0.000	99	764270	10.0	9.69	
50 Carbon disulfide	76	3.714	3.714	0.000	100	1309203	10.0	9.68	
53 Methyl acetate	43	3.819	3.819	0.000	74	601260	50.0	50.8	
52 3-Chloro-1-propene	41	3.819	3.819	0.000	92	790137	10.0	9.71	
54 Methylene Chloride	84	3.940	3.940	0.000	99	310259	10.0	9.98	
55 2-Methyl-2-propanol	59	4.062	4.062	0.000	92	121318	100.0	114.2	
57 Acrylonitrile	53	4.202	4.202	0.000	99	305487	100.0	99.9	
56 Methyl tert-butyl ether	73	4.236	4.236	0.000	98	634001	10.0	9.49	
58 trans-1,2-Dichloroethene	96	4.236	4.236	0.000	94	386308	10.0	9.79	
59 Hexane	57	4.498	4.498	0.000	96	714647	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
60 1,1-Dichloroethane	63	4.689	4.689	0.000	96	808243	10.0	9.71	
61 Vinyl acetate	43	4.706	4.706	0.000	96	963398	20.0	18.7	
65 cis-1,2-Dichloroethene	96	5.351	5.351	0.000	88	395837	10.0	9.96	
67 2-Butanone (MEK)	43	5.351	5.351	0.000	54	283482	40.0	42.1	
66 2,2-Dichloropropane	77	5.368	5.368	0.000	91	650707	10.0	8.70	
71 sec-Butyl Alcohol	45	5.577	5.577	0.000	96	425150	300.0	270.5	
73 Chlorobromomethane	128	5.647	5.647	0.000	90	172782	10.0	9.91	
74 Tetrahydrofuran	42	5.716	5.716	0.000	42	95711	20.0	19.7	
75 Chloroform	83	5.716	5.716	0.000	95	760578	10.0	9.78	
76 1,1,1-Trichloroethane	97	5.977	5.977	0.000	96	731682	10.0	9.85	
77 Cyclohexane	56	6.047	6.047	0.000	95	831495	10.0	10.1	
78 1,1-Dichloropropene	75	6.151	6.151	0.000	91	633681	10.0	9.52	
79 Carbon tetrachloride	117	6.186	6.186	0.000	98	685129	10.0	9.92	
80 Isobutyl alcohol	41	6.291	6.291	0.000	91	134675	250.0	244.6	
81 Benzene	78	6.413	6.413	0.000	98	1222735	10.0	9.94	
82 1,2-Dichloroethane	62	6.430	6.430	0.000	96	361456	10.0	9.73	
84 n-Heptane	43	6.726	6.726	0.000	97	1097382	10.0	10.1	
86 Trichloroethene	95	7.231	7.231	0.000	96	510977	10.0	10.2	
88 2-Pentanone	43	7.457	7.457	0.000	96	702422	40.0	37.6	
89 Methylcyclohexane	55	7.492	7.492	0.000	91	738416	10.0	10.1	
90 1,2-Dichloropropane	63	7.527	7.527	0.000	96	472659	10.0	9.62	
92 Dibromomethane	93	7.701	7.701	0.000	91	227860	10.0	9.31	
93 1,4-Dioxane	88	7.718	7.718	0.000	30	26955	200.0	194.8	
94 Dichlorobromomethane	83	7.892	7.892	0.000	98	689664	10.0	9.65	
96 2-Chloroethyl vinyl ether	63	8.293	8.293	0.000	88	75411	10.0	8.59	
97 cis-1,3-Dichloropropene	75	8.502	8.502	0.000	91	590285	10.0	9.72	
98 4-Methyl-2-pentanone (MIBK	43	8.711	8.711	0.000	97	1037897	40.0	41.6	
99 Toluene	91	8.972	8.972	0.000	97	1354906	10.0	9.61	
100 trans-1,3-Dichloropropene	75	9.285	9.285	0.000	98	408136	10.0	9.06	
101 Ethyl methacrylate	69	9.407	9.407	0.000	96	353549	10.0	9.48	
102 1,1,2-Trichloroethane	97	9.546	9.546	0.000	93	252894	10.0	8.95	
103 Tetrachloroethene	164	9.773	9.773	0.000	96	423115	10.0	10.1	
104 1,3-Dichloropropane	76	9.790	9.790	0.000	95	451638	10.0	9.55	
105 2-Hexanone	43	9.929	9.929	0.000	98	665813	40.0	38.9	
108 Chlorodibromomethane	129	10.156	10.156	0.000	90	448017	10.0	9.73	
109 Ethylene Dibromide	107	10.330	10.330	0.000	98	319021	10.0	9.83	
110 1-Chlorohexane	91	11.113	11.113	0.000	90	671368	10.0	9.47	
111 Chlorobenzene	112	11.148	11.148	0.000	90	900541	10.0	9.74	
112 1,1,1,2-Tetrachloroethane	131	11.287	11.287	0.000	94	440971	10.0	9.88	
113 Ethylbenzene	106	11.322	11.322	0.000	99	471654	10.0	10.0	
114 m-Xylene & p-Xylene	106	11.496	11.496	0.000	97	627061	10.0	9.78	
115 o-Xylene	106	12.071	12.071	0.000	98	557814	10.0	9.92	
116 Styrene	104	12.088	12.088	0.000	93	887920	10.0	9.76	
117 Bromoform	173	12.349	12.349	0.000	94	245922	10.0	9.90	
118 Isopropylbenzene	105	12.558	12.558	0.000	97	1763907	10.0	9.36	
120 Cyclohexanone	55	12.697	12.697	0.000	96	239820	400.0	420.1	
122 Bromobenzene	156	12.941	12.941	0.000	94	411487	10.0	9.47	
121 1,1,2,2-Tetrachloroethane	83	12.959	12.959	0.000	94	344537	10.0	8.78	
123 1,2,3-Trichloropropane	110	12.993	12.993	0.000	80	80244	10.0	8.75	
124 trans-1,4-Dichloro-2-buten	53	13.028	13.028	0.000	66	85663	10.0	8.32	
125 N-Propylbenzene	120	13.080	13.080	0.000	99	428306	10.0	9.29	
126 2-Chlorotoluene	126	13.185	13.185	0.000	96	336815	10.0	9.42	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
127 1,3,5-Trimethylbenzene	105	13.289	13.289	0.000	94	1332041	10.0	9.34	
128 4-Chlorotoluene	126	13.307	13.307	0.000	98	434476	10.0	9.41	
129 tert-Butylbenzene	119	13.672	13.672	0.000	95	1422921	10.0	9.20	
130 1,2,4-Trimethylbenzene	105	13.725	13.725	0.000	97	1252825	10.0	9.25	
131 sec-Butylbenzene	134	13.916	13.916	0.000	95	377856	10.0	9.26	
132 1,3-Dichlorobenzene	146	14.038	14.038	0.000	96	613315	10.0	9.29	
133 4-Isopropyltoluene	119	14.073	14.073	0.000	98	1639898	10.0	9.34	
134 1,4-Dichlorobenzene	146	14.142	14.142	0.000	94	914293	10.0	8.97	
137 n-Butylbenzene	91	14.508	14.508	0.000	99	1682608	10.0	9.13	
138 1,2-Dichlorobenzene	146	14.543	14.543	0.000	96	632427	10.0	9.13	
139 1,2-Dibromo-3-Chloropropan	157	15.309	15.309	0.000	77	60498	10.0	9.35	
141 1,2,4-Trichlorobenzene	180	16.075	16.075	0.000	91	430419	10.0	9.25	a
142 Hexachlorobutadiene	225	16.232	16.232	0.000	97	442581	10.0	9.12	
143 Naphthalene	128	16.301	16.301	0.000	97	481137	10.0	9.08	
144 1,2,3-Trichlorobenzene	180	16.528	16.528	0.000	94	348499	10.0	9.51	a
S 151 1,2-Dichloroethene, Total	96				0		20.0	19.8	
S 149 1,2-Dichloroethene, Total	1				0		20.0	19.8	
S 150 Xylenes, Total	106				0		20.0	19.7	
S 148 1,3-Dichloropropene, Total	1				0		20.0	18.8	
S 145 Trihalomethanes, Total	1				0		40.0	39.1	
S 146 Xylenes, Total (URS)	1				0		20.0	19.7	
S 147 Total BTEX	1				0			49.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

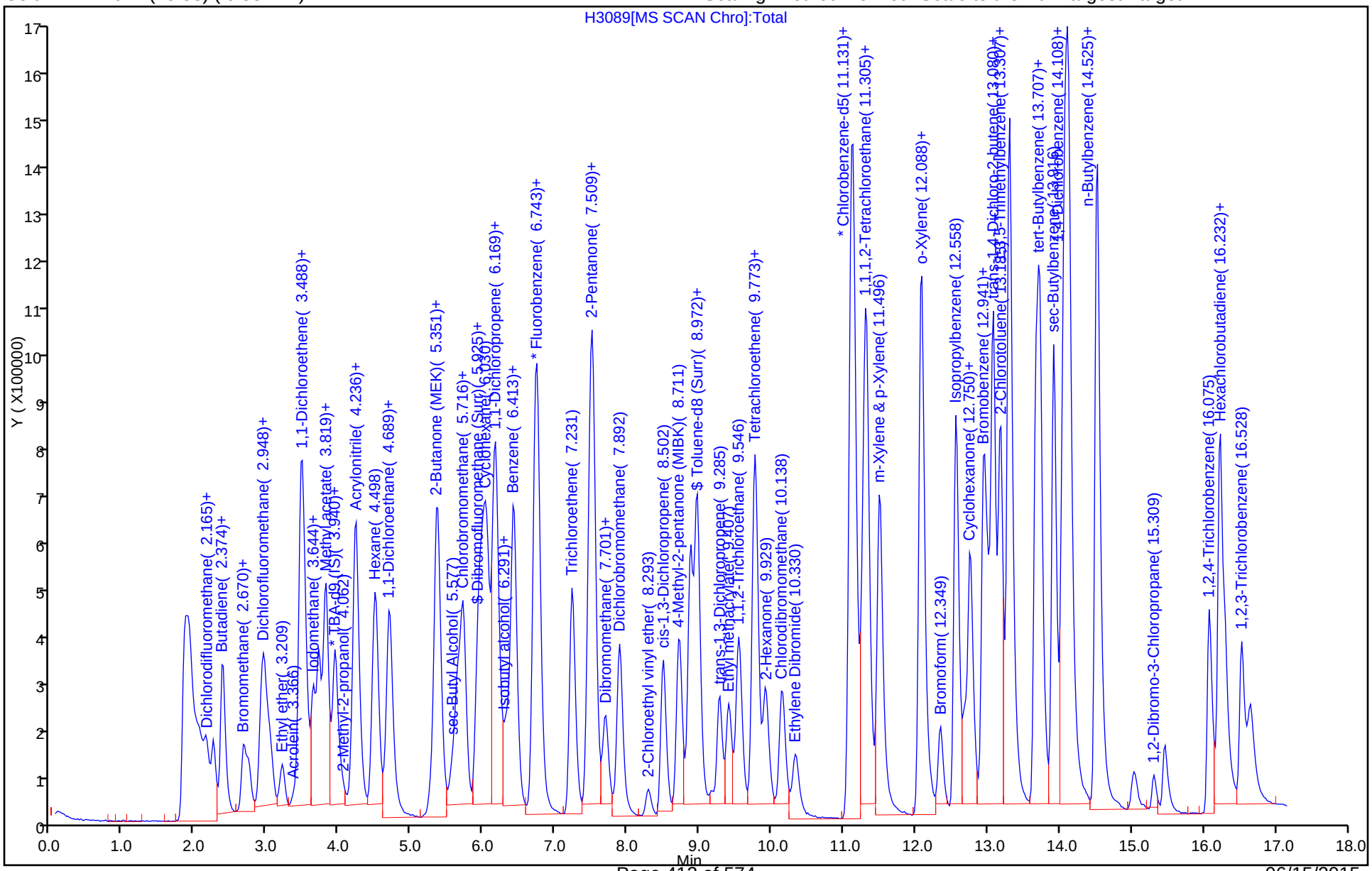
MV-Main A_00022	Amount Added:	5.00	Units: uL	
MV-Gas/Ket A_00033	Amount Added:	5.00	Units: uL	
MV-2cleve+AVA_00009	Amount Added:	5.00	Units: uL	
MV-568718-D_00002	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00042	Amount Added:	0.68	Units: uL	Run Reagent

Report Date: 02-Jun-2015 16:41:43 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3089.D				
Injection Date:	30-May-2015 07:07:30	Instrument ID:	VMS_H	Operator ID:	bergerb
Lims ID:	CCVC			Worklist Smp#:	56
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

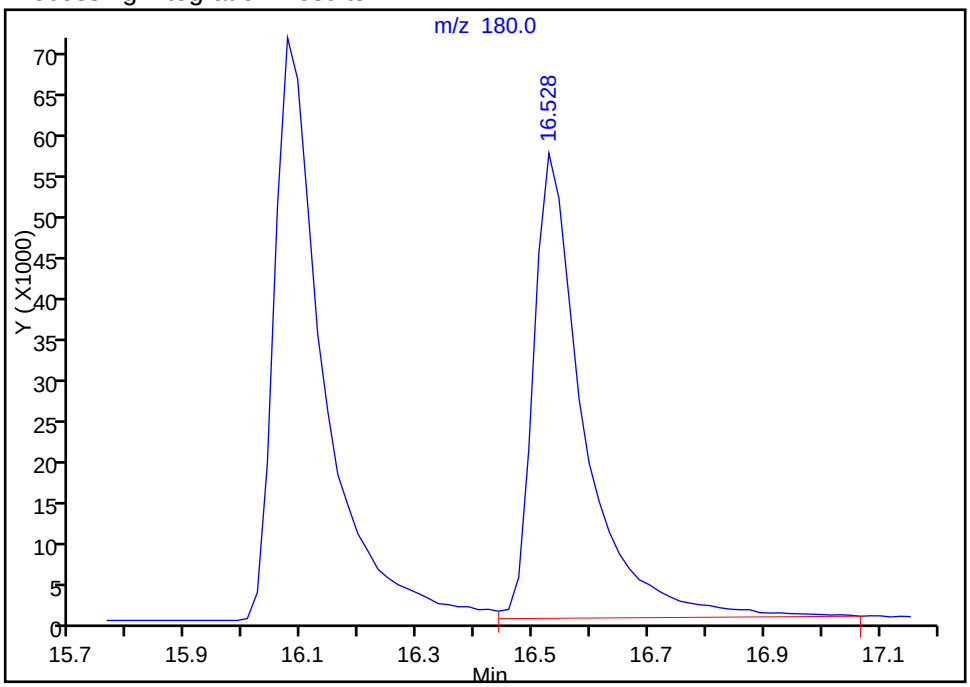
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3089.D				
Injection Date:	30-May-2015 07:07:30	Instrument ID:	VMS_H		
Lims ID:	CCVC				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	28	Worklist Smp#:	56
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

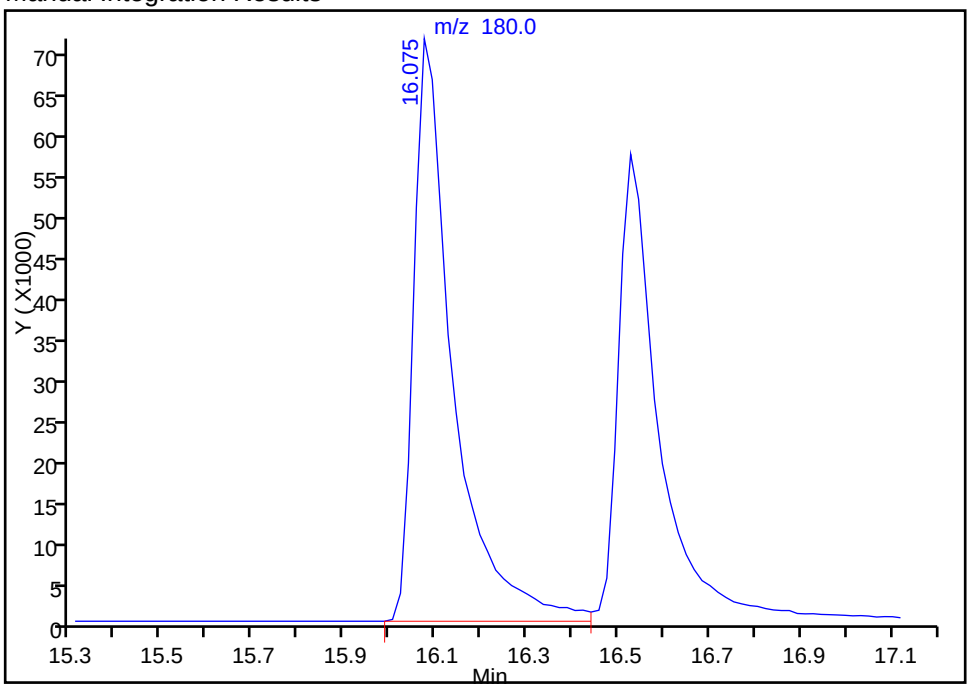
Processing Integration Results

RT: 16.53
Area: 348499
Amount: 7.488044
Amount Units: ug/l



Manual Integration Results

RT: 16.07
Area: 430419
Amount: 9.248223
Amount Units: ug/l



Reviewer: bergerb, 02-Jun-2015 16:41:42
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

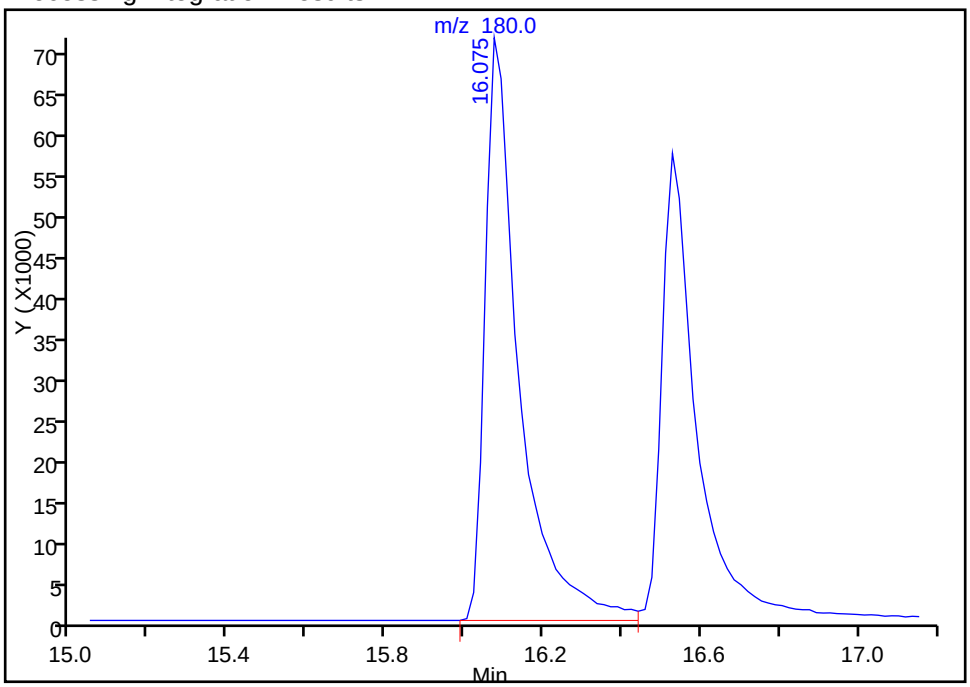
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3089.D				
Injection Date:	30-May-2015 07:07:30	Instrument ID:	VMS_H		
Lims ID:	CCVC				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	28	Worklist Smp#:	56
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

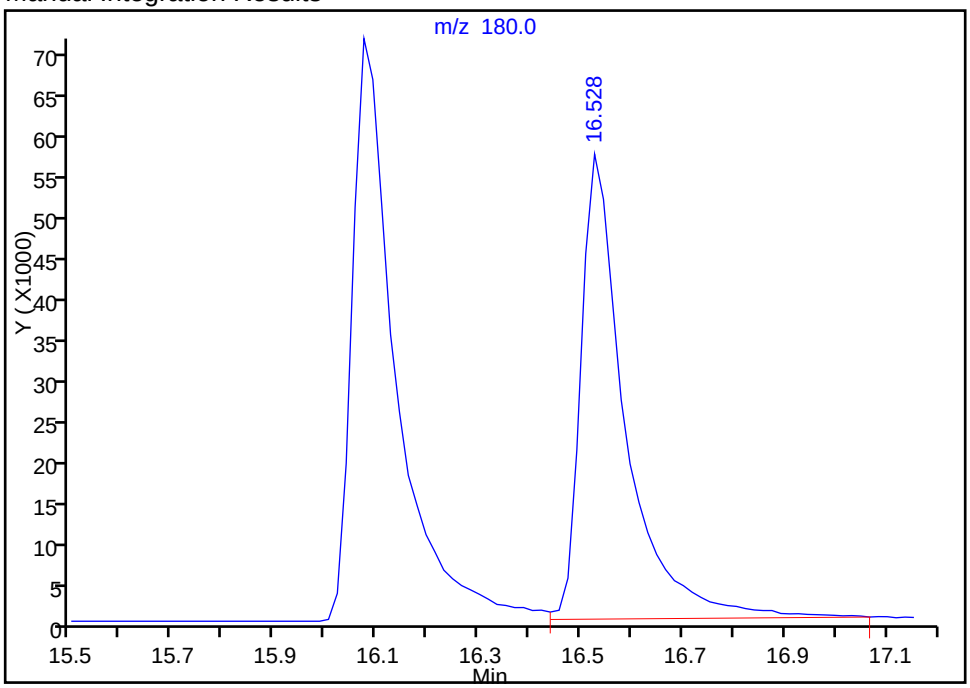
Processing Integration Results

RT: 16.07
Area: 430419
Amount: 11.742098
Amount Units: ug/l



Manual Integration Results

RT: 16.53
Area: 348499
Amount: 9.507269
Amount Units: ug/l



Reviewer: bergerb, 02-Jun-2015 16:41:42
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: ICV 280-275091/19 Calibration Date: 04/29/2015 17:41

Instrument ID: VMS_J Calib Start Date: 04/29/2015 15:01

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 04/29/2015 17:21

Lab File ID: J6313.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.0701		2460	2500	-1.5	20.0
Isopropyl alcohol	Ave	0.6604	0.6500		492	500	-1.6	20.0
Acetonitrile	Lin1		0.0343		504	500	0.9	20.0
Isopropyl ether	Ave	0.2246	0.2276		50.7	50.0	1.3	20.0
2-Chloro-1,3-butadiene	Ave	0.5378	0.5337		49.6	50.0	-0.8	20.0
Tert-butyl ethyl ether	Ave	1.039	1.000		48.1	50.0	-3.8	20.0
Ethyl acetate	Lin2		0.1248		51.4	100	-48.6*	20.0
Propionitrile	Ave	0.0384	0.0384		499	500	-0.2	20.0
Methacrylonitrile	Ave	0.1845	0.1804		489	500	-2.3	20.0
Tert-amyl methyl ether	Ave	0.8958	0.8651		48.3	50.0	-3.4	20.0
n-Butanol	Lin2		0.3202		1240	1250	-0.5	20.0
Methyl methacrylate	Ave	0.0875	0.0856		97.9	100	-2.1	20.0
2-Nitropropane	Ave	0.1099	0.1056		96.1	100	-3.9	20.0
cis-1,4-Dichloro-2-butene	Ave	0.3126	0.2903		46.4	50.0	-7.1	20.0
1,2,3-Trimethylbenzene	Ave	2.822	2.590		45.9	50.0	-8.2	20.0
Dibromofluoromethane (Surr)	Ave	0.3673	0.3939		53.6	50.0	7.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4150	0.4465		53.8	50.0	7.6	20.0
Toluene-d8 (Surr)	Ave	3.858	4.200		54.4	50.0	8.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.066	1.122		52.6	50.0	5.2	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6313.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2015 17:41:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: MEIERG Instrument ID: VMS_J
Sublist:

Method: \\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 29-Apr-2015 18:07:33 Calib Date: 29-Apr-2015 17:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: dukesa Date: 29-Apr-2015 18:06:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.746	5.750	-0.004	100	788991	1000.0	1000.0	
* 1 Fluorobenzene	96	7.730	7.735	-0.005	98	1173461	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.028	10.015	0.013	90	356396	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.891	11.895	-0.004	97	562173	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.191	7.178	0.013	92	462206	50.0	53.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.469	7.474	-0.005	99	523947	50.0	53.8	
$ 7 Toluene-d8 (Surr)	98	8.914	8.919	-0.005	94	1496884	50.0	54.4	
$ 8 4-Bromofluorobenzene (Surr	95	10.899	10.903	-0.004	92	630576	50.0	52.6	
24 Chlorotrifluoroethene	116	3.936	3.940	-0.004	97	40034	50.0	13.6	
26 1,2-Dichloro-1,1,2,2-tetra	85	4.145	4.149	-0.004	98	194813	50.0	29.9	
29 2-Chloro-1,1,1-Trifluoroet	118	4.406	4.410	-0.004	39	257892	50.0	52.0	
30 Ethylene oxide	43	4.667	4.689	-0.022	98	2483324	10000	9695.4	
35 Ethanol	45	5.067	5.072	-0.005	96	138195	2500.0	2462.7	
36 1,2-Dichloro-1,1,2-trifluo	117	5.206	5.211	-0.005	97	327844	50.0	53.4	
38 1,1,1-Trifluoro-2,2-dichlo	83	5.241	5.246	-0.005	96	592343	50.0	52.1	
39 Propene oxide	58	5.328	5.298	0.030	87	2902849	2500.0	2268.6	
44 Isopropyl alcohol	45	5.485	5.489	-0.004	98	256420	500.0	492.1	
47 Acetonitrile	41	5.711	5.716	-0.005	98	402409	500.0	504.5	
58 Isopropyl ether	87	6.355	6.342	0.013	96	267087	50.0	50.7	
60 2-Chloro-1,3-butadiene	53	6.477	6.464	0.013	95	626292	50.0	49.6	
61 Tert-butyl ethyl ether	59	6.634	6.638	-0.004	98	1173137	50.0	48.1	
62 Ethyl acetate	43	6.773	6.760	0.013	99	292857	100.0	51.4	
66 Propionitrile	54	6.843	6.847	-0.004	97	450023	500.0	499.2	
68 Methacrylonitrile	41	6.965	6.969	-0.004	96	2116609	500.0	488.7	
78 Tert-amyl methyl ether	73	7.539	7.543	-0.004	92	1015170	50.0	48.3	
80 n-Butanol	56	7.748	7.752	-0.004	86	315749	1250.0	1243.6	
83 Methyl methacrylate	100	8.148	8.153	-0.005	92	200947	100.0	97.9	
90 2-Nitropropane	41	8.514	8.518	-0.004	98	247721	100.0	96.1	
101 Tetrahydrothiophene	60	9.610	9.615	-0.005	57	277806	50.0	41.0	
112 cis-1,4-Dichloro-2-butene	53	10.777	10.764	0.013	90	163194	50.0	46.4	
127 1,2,3-Trimethylbenzene	105	11.908	11.913	-0.005	100	1456141	50.0	45.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
16 1,3,5-Trichlorobenzene	180	13.266	13.270	-0.004	95	596446	50.0	48.1	

Reagents:

MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-ARCH SS A_00044	Amount Added:	1.00	Units: uL
MV-Supp B_00005	Amount Added:	6.25	Units: uL
Freon_B_00004	Amount Added:	6.25	Units: uL

Report Date: 29-Apr-2015 18:07:34 Chrom Revision: 2.2 09-Apr-2015 10:05:40

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6313.D

Injection Date: 29-Apr-2015 17:41:30 Instrument ID: VMS_J Operator ID: MEIERG

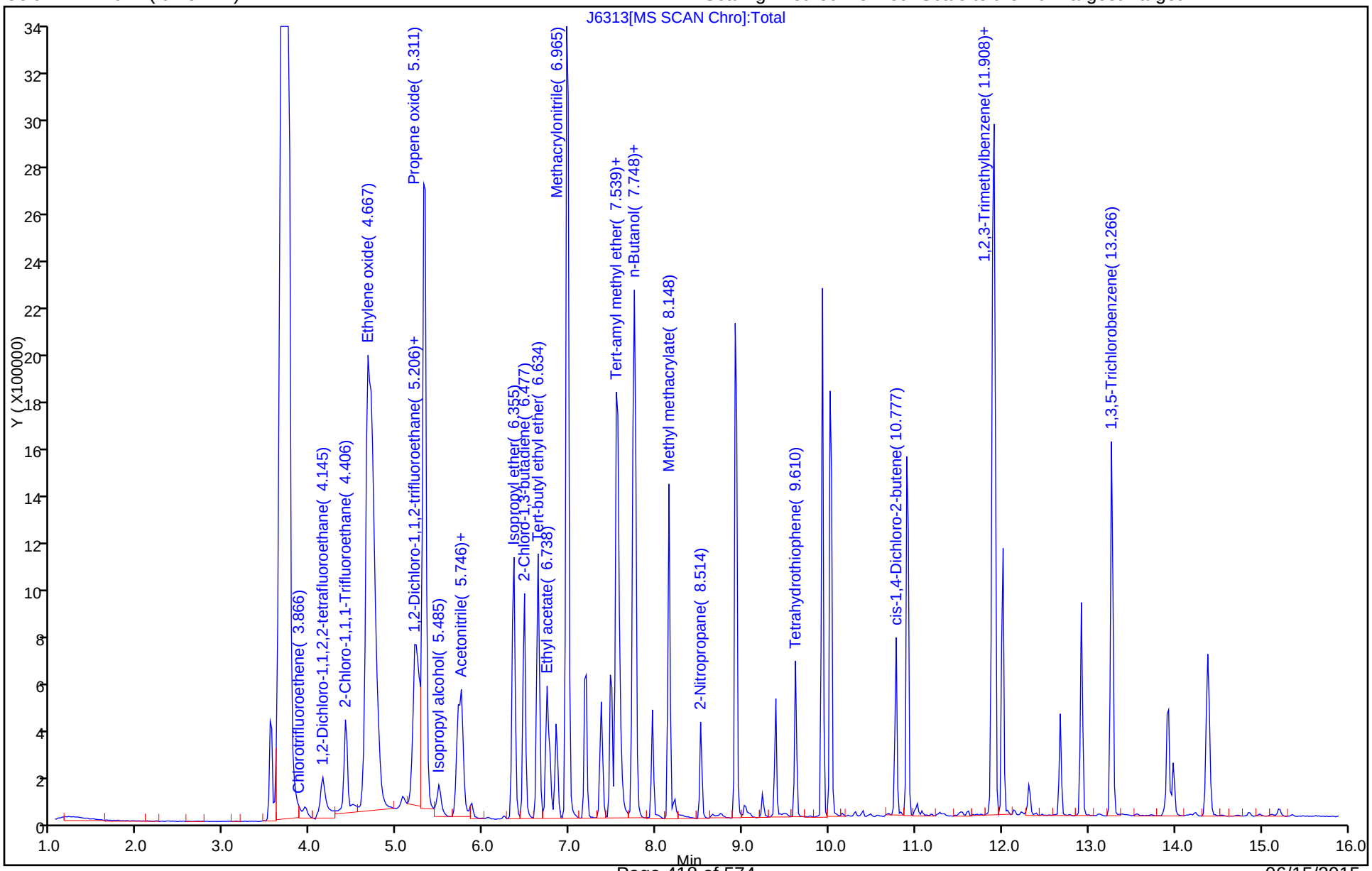
Lims ID: ICV Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: ICV 280-278046/12 Calibration Date: 05/18/2015 20:33

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6819.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3460		45.4	50.0	-9.1	20.0
Chloromethane	Lin1		0.2695	0.1000	40.7	50.0	-18.7	20.0
Vinyl chloride	Lin1		0.2503		42.9	50.0	-14.2	20.0
Bromomethane	Lin1		0.2145		44.2	50.0	-11.6	20.0
Chloroethane	Lin		0.1427		44.1	50.0	-11.8	20.0
Dichlorofluoromethane	Lin2		0.5276		45.1	50.0	-9.8	20.0
Trichlorofluoromethane	Lin1		0.4692		42.6	50.0	-14.7	20.0
Ethyl ether	Ave	0.1777	0.1920		54.0	50.0	8.0	20.0
Acrolein	Ave	0.0248	0.0352		708	500	41.7*	20.0
Acetone	Ave	0.0900	0.0837		186	200	-7.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2430	0.2326		47.9	50.0	-4.3	20.0
1,1-Dichloroethene	Ave	0.2969	0.2869		48.3	50.0	-3.4	20.0
Iodomethane	Ave	0.6329	0.6557		51.8	50.0	3.6	20.0
Methyl acetate	Ave	0.1981	0.1983		250	250	0.0	20.0
3-Chloro-1-propene	Ave	0.5800	0.5359		46.2	50.0	-7.6	20.0
Carbon disulfide	Ave	1.183	1.180		49.9	50.0	-0.3	20.0
tert-Butyl alcohol	Ave	1.081	1.070		495	500	-1.1	20.0
Methylene Chloride	Lin2		0.3233		49.2	50.0	-1.7	20.0
Acrylonitrile	Ave	0.0836	0.0892		533	500	6.7	20.0
Methyl tert-butyl ether	Ave	0.7497	0.7730		51.6	50.0	3.1	20.0
trans-1,2-Dichloroethene	Ave	0.3111	0.3127		50.3	50.0	0.5	20.0
Hexane	Ave	1.541	1.476		47.9	50.0	-4.2	20.0
Vinyl acetate	Ave	0.5016	0.5982		119	100	19.3	20.0
1,1-Dichloroethane	Ave	0.5414	0.5551	0.1000	51.3	50.0	2.5	20.0
2-Butanone (MEK)	Ave	0.1564	0.1513		194	200	-3.2	20.0
sec-Butyl Alcohol	Ave	0.8301	0.8241		1490	1500	-0.7	20.0
cis-1,2-Dichloroethene	Ave	0.3291	0.3214		48.8	50.0	-2.3	20.0
2,2-Dichloropropane	Ave	0.4868	0.4608		47.3	50.0	-5.3	20.0
Bromochloromethane	Ave	0.1705	0.1737		50.9	50.0	1.9	20.0
Chloroform	Ave	0.5713	0.5774		50.5	50.0	1.1	20.0
Tetrahydrofuran	Lin2		0.0756		104	100	4.2	20.0
Isobutyl alcohol	Ave	0.3204	0.3146		1230	1250	-1.8	20.0
1,1,1-Trichloroethane	Ave	0.4765	0.4864		51.0	50.0	2.1	20.0
Cyclohexane	Ave	0.5387	0.4755		44.1	50.0	-11.7	20.0
1,1-Dichloropropene	Ave	0.4087	0.4318		52.8	50.0	5.6	20.0
Carbon tetrachloride	Ave	0.4442	0.4696		52.9	50.0	5.7	20.0
1,2-Dichloroethane	Ave	0.4428	0.4503		50.8	50.0	1.7	20.0
Benzene	Ave	1.085	1.083		49.9	50.0	-0.2	20.0
Trichloroethene	Ave	0.3425	0.3396		49.6	50.0	-0.8	20.0
2-Pentanone	Ave	0.3399	0.2251		132	200	-33.8*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: ICV 280-278046/12 Calibration Date: 05/18/2015 20:33

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6819.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2961	0.2858		48.3	50.0	-3.5	20.0
Methylcyclohexane	Lin2		0.4290		49.4	50.0	-1.2	20.0
1,4-Dioxane	Ave	0.0026	0.0029		1120	1000	11.7	20.0
Dibromomethane	Ave	0.2085	0.2151		51.6	50.0	3.1	20.0
Bromodichloromethane	Ave	0.4400	0.4442		50.5	50.0	1.0	20.0
2-Chloroethyl vinyl ether	Lin1		0.1037		53.3	50.0	6.5	20.0
cis-1,3-Dichloropropene	Ave	1.731	1.730		50.0	50.0	-0.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2652	0.2715		205	200	2.3	20.0
Toluene	Ave	1.162	1.146		49.3	50.0	-1.3	20.0
Ethyl methacrylate	Ave	1.168	1.184		50.7	50.0	1.3	20.0
trans-1,3-Dichloropropene	Lin1		0.4621		52.2	50.0	4.3	20.0
1,1,2-Trichloroethane	Ave	0.2460	0.2542		51.7	50.0	3.3	20.0
2-Hexanone	Ave	0.7015	0.7007		200	200	-0.1	20.0
1,3-Dichloropropane	Ave	1.481	1.437		48.5	50.0	-2.9	20.0
Tetrachloroethene	Ave	0.999	0.9609		48.1	50.0	-3.8	20.0
Chlorodibromomethane	Ave	1.213	1.271		52.4	50.0	4.8	20.0
1,2-Dibromoethane	Ave	1.046	1.051		50.2	50.0	0.5	20.0
1-Chlorohexane	Ave	1.636	1.609		49.2	50.0	-1.7	20.0
Chlorobenzene	Ave	2.871	2.750	0.3000	47.9	50.0	-4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	1.105	1.073		48.6	50.0	-2.9	20.0
Ethylbenzene	Ave	1.450	1.376		47.5	50.0	-5.1	20.0
m-Xylene & p-Xylene	Lin2		3.719		48.5	50.0	-2.9	20.0
o-Xylene	Ave	1.766	1.590		45.0	50.0	-10.0	20.0
Styrene	Ave	2.825	2.711		48.0	50.0	-4.0	20.0
Bromoform	Lin1		0.8260	0.1000	45.2	50.0	-9.6	20.0
Isopropylbenzene	Ave	2.965	3.009		50.7	50.0	1.5	20.0
Cyclohexanone	Ave	0.0304	0.0313		2060	2000	3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7657	0.8093	0.3000	52.8	50.0	5.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1970	0.2219		56.3	50.0	12.7	20.0
1,2,3-Trichloropropane	Ave	0.2098	0.2298		54.8	50.0	9.5	20.0
N-Propylbenzene	Ave	0.7590	0.7703		50.7	50.0	1.5	20.0
Bromobenzene	Ave	0.8142	0.8570		52.6	50.0	5.3	20.0
1,3,5-Trimethylbenzene	Ave	2.433	2.520		51.8	50.0	3.6	20.0
2-Chlorotoluene	Ave	0.7069	0.7155		50.6	50.0	1.2	20.0
4-Chlorotoluene	Ave	0.7403	0.8172		55.2	50.0	10.4	20.0
tert-Butylbenzene	Ave	2.427	2.440		50.3	50.0	0.5	20.0
1,2,4-Trimethylbenzene	Ave	2.547	2.520		49.5	50.0	-1.1	20.0
sec-Butylbenzene	Ave	0.6029	0.6265		52.0	50.0	3.9	20.0
4-Isopropyltoluene	Ave	2.703	2.785		51.5	50.0	3.0	20.0
1,3-Dichlorobenzene	Ave	1.451	1.513		52.1	50.0	4.2	20.0
1,4-Dichlorobenzene	Ave	1.466	1.510		51.5	50.0	3.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: ICV 280-278046/12 Calibration Date: 05/18/2015 20:33

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6819.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.563	2.643		51.6	50.0	3.1	20.0
1,2-Dichlorobenzene	Ave	1.332	1.386		52.0	50.0	4.1	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1792		51.7	50.0	3.5	20.0
1,2,4-Trichlorobenzene	Ave	0.9644	1.024		53.1	50.0	6.2	20.0
Hexachlorobutadiene	Ave	0.5752	0.5858		50.9	50.0	1.8	20.0
Naphthalene	Ave	1.898	2.009		52.9	50.0	5.9	20.0
1,2,3-Trichlorobenzene	Ave	0.8502	0.8993		52.9	50.0	5.8	20.0
Dibromofluoromethane (Surr)	Ave	0.3629	0.3510		48.4	50.0	-3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3773	0.3563		47.2	50.0	-5.6	20.0
Toluene-d8 (Surr)	Ave	3.687	3.419		46.4	50.0	-7.3	20.0
4-Bromofluorobenzene (Surr)	Ave	1.018	1.000		49.1	50.0	-1.7	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6819.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-May-2015 20:33:30 ALS Bottle#: 20 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: DUKESA Instrument ID: VMS_J
Sublist:

Method: \\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 19-May-2015 18:48:43 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: dukesa Date: 19-May-2015 18:39:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.727	5.744	-0.017	100	684313	1000.0	1000.0	
* 1 Fluorobenzene	96	7.711	7.711	0.000	97	1099701	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.009	0.000	85	322150	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.872	11.871	0.001	97	476922	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.171	0.001	92	385963	50.0	48.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.468	7.467	0.001	98	391804	50.0	47.2	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	93	1101450	50.0	46.4	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.896	0.001	95	477085	50.0	49.1	
25 Dichlorodifluoromethane	85	3.986	3.986	0.000	99	380464	50.0	45.4	
27 Chloromethane	50	4.213	4.212	0.001	98	296323	50.0	40.7	
28 Vinyl chloride	62	4.352	4.351	0.001	97	275203	50.0	42.9	
31 Bromomethane	94	4.735	4.717	0.018	94	235831	50.0	44.2	
32 Chloroethane	64	4.787	4.786	0.001	98	156867	50.0	44.1	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	97	580148	50.0	45.1	
34 Trichlorofluoromethane	101	5.066	5.065	0.001	98	515951	50.0	42.6	
37 Ethyl ether	59	5.205	5.204	0.001	95	211151	50.0	54.0	
40 Acrolein	56	5.344	5.343	0.001	99	387100	499.9	708.4	
41 Acetone	43	5.449	5.448	0.000	98	368181	200.0	185.9	
42 1,1,2-Trichloro-1,2,2-trif	151	5.466	5.465	0.001	97	255786	50.0	47.9	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	96	315474	50.0	48.3	
46 Iodomethane	142	5.692	5.692	0.000	98	721107	50.0	51.8	
48 Methyl acetate	43	5.692	5.692	0.000	99	1090232	250.0	250.2	
49 3-Chloro-1-propene	41	5.744	5.744	0.000	81	589359	50.0	46.2	
50 2-Methyl-2-propanol	59	5.797	5.796	0.001	51	365955	500.0	494.5	
51 Carbon disulfide	76	5.797	5.796	0.001	100	1297681	50.0	49.9	
52 Methylene Chloride	84	5.849	5.866	-0.017	95	355540	50.0	49.2	
53 Acrylonitrile	53	5.988	6.005	-0.017	97	980681	500.0	533.4	
54 Methyl tert-butyl ether	73	6.023	6.022	0.001	97	850023	50.0	51.6	
55 trans-1,2-Dichloroethene	96	6.075	6.057	0.018	98	343906	50.0	50.3	
56 Hexane	57	6.232	6.231	0.001	93	475631	50.0	47.9	
57 Vinyl acetate	43	6.319	6.318	0.001	97	1315602	100.0	119.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.388	6.388	0.000	98	610430	50.0	51.3	
63 2-Butanone (MEK)	43	6.771	6.771	0.000	99	665718	200.0	193.6	
64 sec-Butyl Alcohol	45	6.806	6.806	0.000	96	845919	1500.0	1489.1	
65 cis-1,2-Dichloroethene	96	6.824	6.823	0.001	83	353403	50.0	48.8	
67 2,2-Dichloropropane	77	6.858	6.858	0.000	87	506739	50.0	47.3	
69 Chlorobromomethane	128	7.033	7.032	0.001	96	191026	50.0	50.9	
70 Chloroform	83	7.033	7.032	0.001	93	634952	50.0	50.5	
71 Tetrahydrofuran	42	7.050	7.067	-0.017	86	166161	100.0	104.2	
72 Isobutyl alcohol	41	7.224	7.241	-0.017	35	269133	1250.0	1227.5	
73 1,1,1-Trichloroethane	97	7.259	7.258	0.001	98	534870	50.0	51.0	
74 Cyclohexane	56	7.328	7.328	0.000	94	522887	50.0	44.1	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	95	474802	50.0	52.8	
76 Carbon tetrachloride	117	7.398	7.398	0.000	95	516360	50.0	52.9	
77 1,2-Dichloroethane	62	7.520	7.519	0.001	90	495235	50.0	50.8	
79 Benzene	78	7.537	7.537	0.000	99	1190434	50.0	49.9	
14 n-Heptane	43	7.607	7.606	0.001	93	552179	50.0	50.4	
81 Trichloroethene	130	8.007	8.007	0.000	98	373507	50.0	49.6	
82 2-Pentanone	43	8.042	8.042	0.000	98	990068	200.0	132.4	
84 1,2-Dichloropropane	63	8.199	8.198	0.001	73	314324	50.0	48.3	
85 Methylcyclohexane	55	8.199	8.198	0.001	87	471811	50.0	49.4	
86 1,4-Dioxane	88	8.251	8.250	0.001	86	62844	1000.0	1116.6	
87 Dibromomethane	93	8.303	8.303	0.000	92	236532	50.0	51.6	
88 Dichlorobromomethane	83	8.373	8.372	0.001	98	488455	50.0	50.5	
89 2-Chloroethyl vinyl ether	63	8.495	8.494	0.001	95	114004	50.0	53.3	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	95	557265	50.0	50.0	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	97	1194061	200.0	204.7	
93 Toluene	91	8.965	8.964	0.001	98	1260583	50.0	49.3	
94 Ethyl methacrylate	69	9.034	9.034	0.000	91	381508	50.0	50.7	
95 trans-1,3-Dichloropropene	75	9.052	9.051	0.001	100	508178	50.0	52.2	
96 1,1,2-Trichloroethane	97	9.226	9.225	0.001	93	279577	50.0	51.7	
97 2-Hexanone	43	9.330	9.330	0.000	97	902966	200.0	199.8	
98 1,3-Dichloropropane	76	9.365	9.364	0.001	94	463057	50.0	48.5	
99 Tetrachloroethene	164	9.382	9.382	0.000	97	309568	50.0	48.1	
100 Chlorodibromomethane	129	9.557	9.556	0.001	89	409433	50.0	52.4	
102 Ethylene Dibromide	107	9.678	9.695	-0.017	99	338722	50.0	50.2	
103 1-Chlorohexane	91	9.905	9.904	0.001	97	518289	50.0	49.2	
104 Chlorobenzene	112	10.027	10.026	0.001	95	886009	50.0	47.9	
105 Ethylbenzene	106	10.061	10.061	0.000	97	443355	50.0	47.5	
106 1,1,1,2-Tetrachloroethane	131	10.061	10.061	0.000	73	345690	50.0	48.6	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	99	1198025	50.0	48.5	
108 Styrene	104	10.462	10.461	0.001	84	873476	50.0	48.0	
109 o-Xylene	106	10.462	10.461	0.001	87	512219	50.0	45.0	
110 Bromoform	173	10.688	10.687	0.001	95	266107	50.0	45.2	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	1434891	50.0	50.7	
113 Cyclohexanone	55	10.862	10.861	0.001	94	403681	2000.0	2060.4	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	93	385982	50.0	52.8	
115 trans-1,4-Dichloro-2-buten	53	10.967	10.983	-0.016	77	105837	50.0	56.3	
116 1,2,3-Trichloropropane	110	11.019	11.018	0.001	83	109612	50.0	54.8	
117 N-Propylbenzene	120	11.054	11.053	0.001	98	367380	50.0	50.7	
118 Bromobenzene	156	11.071	11.070	0.001	89	408727	50.0	52.6	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	94	1201672	50.0	51.8	
120 2-Chlorotoluene	126	11.193	11.192	0.001	97	341214	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.262	11.262	0.000	99	389726	50.0	55.2	
122 tert-Butylbenzene	119	11.471	11.471	0.000	92	1163725	50.0	50.3	
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	96	1201921	50.0	49.5	
124 sec-Butylbenzene	134	11.663	11.662	0.001	95	298773	50.0	52.0	
125 4-Isopropyltoluene	119	11.750	11.749	0.001	97	1328271	50.0	51.5	
126 1,3-Dichlorobenzene	146	11.837	11.836	0.001	98	721453	50.0	52.1	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	96	720192	50.0	51.5	
129 n-Butylbenzene	91	12.115	12.115	0.000	98	1260476	50.0	51.6	
130 1,2-Dichlorobenzene	146	12.272	12.271	0.001	98	661081	50.0	52.0	
131 1,2-Dibromo-3-Chloropropan	157	13.038	13.037	0.001	86	85460	50.0	51.7	
132 1,2,4-Trichlorobenzene	180	14.013	14.012	0.001	95	488423	50.0	53.1	
133 Hexachlorobutadiene	225	14.169	14.169	0.000	98	279361	50.0	50.9	
134 Naphthalene	128	14.378	14.395	-0.017	98	958365	50.0	52.9	
135 1,2,3-Trichlorobenzene	180	14.726	14.726	0.000	95	428907	50.0	52.9	
S 142 1,2-Dichloroethene, Total	96				0		100.0	99.1	
S 137 Xylenes, Total (URS)	1				0		100.0	93.6	
S 136 Trihalomethanes, Total	1				0		200.0	198.6	
S 139 1,3-Dichloropropene, Total	1				0		100.0	102.1	
S 140 1,2-Dichloroethene, Total	1				0		100.0	99.1	
S 141 Xylenes, Total	106				0		100.0	93.6	

Reagents:

MV-568718-D_00003	Amount Added:	1.00	Units: uL
MV-Gas/Ket B_00019	Amount Added:	6.25	Units: uL
MV-Main B_00010	Amount Added:	6.25	Units: uL
MV-SS 2-Cleve_00020	Amount Added:	6.25	Units: uL
MV-ARCH SS A_00045	Amount Added:	1.00	Units: uL

Report Date: 19-May-2015 18:48:44 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6819.D

Injection Date: 18-May-2015 20:33:30 Instrument ID: VMS_J Operator ID: DUKESA

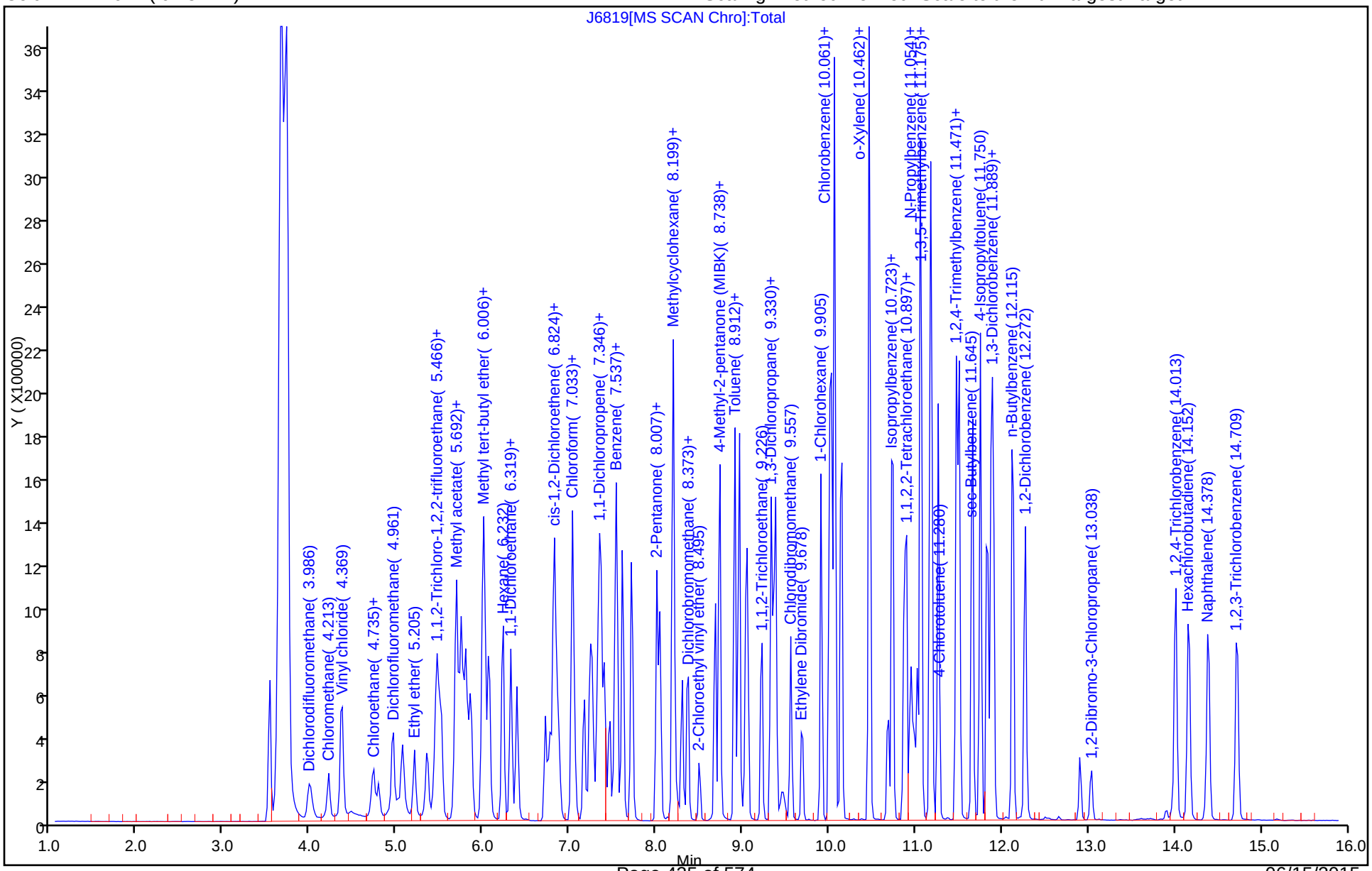
Lims ID: ICV Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-278246/2 Calibration Date: 05/19/2015 17:30

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6847.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3439		45.2	50.0	-9.7	20.0
Chloromethane	Lin1		0.3126	0.1000	46.7	50.0	-6.6	20.0
Vinyl chloride	Lin1		0.2808		47.8	50.0	-4.4	20.0
Bromomethane	Lin1		0.2369		48.7	50.0	-2.6	20.0
Chloroethane	Lin		0.1676		52.3	50.0	4.6	20.0
Dichlorofluoromethane	Lin2		0.5546		47.3	50.0	-5.4	20.0
Trichlorofluoromethane	Lin1		0.4814		43.7	50.0	-12.6	20.0
Ethyl ether	Ave	0.1777	0.2076		58.4	50.0	16.8	20.0
Acrolein	Ave	0.0248	0.0286		576	500	15.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2430	0.2357		48.5	50.0	-3.0	20.0
Acetone	Ave	0.0900	0.0923		205	200	2.5	20.0
1,1-Dichloroethene	Ave	0.2969	0.3240		54.6	50.0	9.1	20.0
Iodomethane	Ave	0.6329	0.6692		52.9	50.0	5.7	20.0
Methyl acetate	Ave	0.1981	0.2288		289	250	15.5	20.0
3-Chloro-1-propene	Ave	0.5800	0.6307		54.4	50.0	8.8	20.0
Carbon disulfide	Ave	1.183	1.289		54.5	50.0	8.9	20.0
tert-Butyl alcohol	Ave	1.081	1.108		512	500	2.4	20.0
Methylene Chloride	Lin2		0.3548		54.3	50.0	8.5	20.0
Acrylonitrile	Ave	0.0836	0.0983		588	500	17.6	20.0
Methyl tert-butyl ether	Ave	0.7497	0.8460		56.4	50.0	12.8	20.0
trans-1,2-Dichloroethene	Ave	0.3111	0.3327		53.5	50.0	7.0	20.0
Hexane	Ave	1.541	1.656		53.7	50.0	7.5	20.0
Vinyl acetate	Ave	0.5016	0.6228		124	100	24.2*	20.0
1,1-Dichloroethane	Ave	0.5414	0.5936	0.1000	54.8	50.0	9.6	20.0
2-Butanone (MEK)	Ave	0.1564	0.1688		216	200	7.9	20.0
sec-Butyl Alcohol	Ave	0.8301	0.8438		1520	1500	1.6	20.0
cis-1,2-Dichloroethene	Ave	0.3291	0.3526		53.6	50.0	7.2	20.0
2,2-Dichloropropane	Ave	0.4868	0.4947		50.8	50.0	1.6	20.0
Bromochloromethane	Ave	0.1705	0.1848		54.2	50.0	8.4	20.0
Chloroform	Ave	0.5713	0.6210		54.4	50.0	8.7	20.0
Tetrahydrofuran	Lin2		0.0841		116	100	16.1	20.0
Isobutyl alcohol	Ave	0.3204	0.3247		1270	1250	1.3	20.0
1,1,1-Trichloroethane	Ave	0.4765	0.5204		54.6	50.0	9.2	20.0
Cyclohexane	Ave	0.5387	0.5406		50.2	50.0	0.3	20.0
1,1-Dichloropropene	Ave	0.4087	0.4393		53.7	50.0	7.5	20.0
Carbon tetrachloride	Ave	0.4442	0.4839		54.5	50.0	9.0	20.0
1,2-Dichloroethane	Ave	0.4428	0.4730		53.4	50.0	6.8	20.0
Benzene	Ave	1.085	1.168		53.8	50.0	7.7	20.0
Trichloroethene	Ave	0.3425	0.3494		51.0	50.0	2.0	20.0
2-Pentanone	Ave	0.3399	0.4284		252	200	26.0*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-278246/2 Calibration Date: 05/19/2015 17:30

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6847.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2961	0.3074		51.9	50.0	3.8	20.0
Methylcyclohexane	Lin2		0.4795		55.3	50.0	10.5	20.0
1,4-Dioxane	Ave	0.0026	0.0028		1090	1000	9.1	20.0
Dibromomethane	Ave	0.2085	0.2481		59.5	50.0	19.0	20.0
Bromodichloromethane	Ave	0.4400	0.4930		56.0	50.0	12.0	20.0
2-Chloroethyl vinyl ether	Lin1		0.1052		54.0	50.0	8.1	20.0
cis-1,3-Dichloropropene	Ave	1.731	1.895		54.8	50.0	9.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2652	0.2930		221	200	10.5	20.0
Toluene	Ave	1.162	1.215		52.3	50.0	4.6	20.0
Ethyl methacrylate	Ave	1.168	1.355		58.0	50.0	15.9	20.0
trans-1,3-Dichloropropene	Lin1		0.4727		53.4	50.0	6.7	20.0
1,1,2-Trichloroethane	Ave	0.2460	0.2848		57.9	50.0	15.8	20.0
2-Hexanone	Ave	0.7015	0.7953		227	200	13.4	20.0
1,3-Dichloropropane	Ave	1.481	1.684		56.9	50.0	13.8	20.0
Tetrachloroethene	Ave	0.999	1.038		52.0	50.0	3.9	20.0
Chlorodibromomethane	Ave	1.213	1.412		58.2	50.0	16.3	20.0
1,2-Dibromoethane	Ave	1.046	1.206		57.7	50.0	15.3	20.0
1-Chlorohexane	Ave	1.636	1.810		55.3	50.0	10.6	20.0
Chlorobenzene	Ave	2.871	3.062	0.3000	53.3	50.0	6.6	20.0
1,1,1,2-Tetrachloroethane	Ave	1.105	1.203		54.4	50.0	8.9	20.0
Ethylbenzene	Ave	1.450	1.521		52.4	50.0	4.9	20.0
m-Xylene & p-Xylene	Lin2		4.190		54.8	50.0	9.7	20.0
o-Xylene	Ave	1.766	1.781		50.4	50.0	0.8	20.0
Styrene	Ave	2.825	3.141		55.6	50.0	11.2	20.0
Bromoform	Lin1		0.9169	0.1000	50.1	50.0	0.1	20.0
Isopropylbenzene	Ave	2.965	3.140		52.9	50.0	5.9	20.0
Cyclohexanone	Ave	0.0304	0.0349		2300	2000	14.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7657	0.9025	0.3000	58.9	50.0	17.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1970	0.2438		61.9	50.0	23.8*	20.0
1,2,3-Trichloropropane	Ave	0.2098	0.2445		58.3	50.0	16.5	20.0
Bromobenzene	Ave	0.8142	0.8603		52.8	50.0	5.7	20.0
N-Propylbenzene	Ave	0.7590	0.8202		54.0	50.0	8.1	20.0
1,3,5-Trimethylbenzene	Ave	2.433	2.628		54.0	50.0	8.0	20.0
2-Chlorotoluene	Ave	0.7069	0.7480		52.9	50.0	5.8	20.0
4-Chlorotoluene	Ave	0.7403	0.7743		52.3	50.0	4.6	20.0
tert-Butylbenzene	Ave	2.427	2.563		52.8	50.0	5.6	20.0
1,2,4-Trimethylbenzene	Ave	2.547	2.659		52.2	50.0	4.4	20.0
sec-Butylbenzene	Ave	0.6029	0.6397		53.1	50.0	6.1	20.0
4-Isopropyltoluene	Ave	2.703	2.911		53.8	50.0	7.7	20.0
1,3-Dichlorobenzene	Ave	1.451	1.544		53.2	50.0	6.4	20.0
1,4-Dichlorobenzene	Ave	1.466	1.546		52.7	50.0	5.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-278246/2 Calibration Date: 05/19/2015 17:30

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6847.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.563	2.743		53.5	50.0	7.0	20.0
1,2-Dichlorobenzene	Ave	1.332	1.416		53.2	50.0	6.3	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1883		54.3	50.0	8.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9644	1.034		53.6	50.0	7.2	20.0
Hexachlorobutadiene	Ave	0.5752	0.5718		49.7	50.0	-0.6	20.0
Naphthalene	Ave	1.898	2.126		56.0	50.0	12.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8502	0.9240		54.3	50.0	8.7	20.0
Dibromofluoromethane (Surr)	Ave	0.3629	0.3471		47.8	50.0	-4.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3773	0.3511		46.5	50.0	-6.9	20.0
Toluene-d8 (Surr)	Ave	3.687	3.564		48.3	50.0	-3.3	20.0
4-Bromofluorobenzene (Surr)	Ave	1.018	0.9632		47.3	50.0	-5.4	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6847.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2015 17:30:30 ALS Bottle#: 10 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:36 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 18:06:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.744	5.744	0.000	99	779391	1000.0	1000.0	
* 1 Fluorobenzene	96	7.729	7.729	0.000	98	1159880	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.009	0.000	87	325531	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.889	0.000	94	507857	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	92	402587	50.0	47.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.468	7.468	0.000	98	407244	50.0	46.5	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	93	1160350	50.0	48.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	86	489168	50.0	47.3	
25 Dichlorodifluoromethane	85	4.004	4.004	0.000	99	398857	50.0	45.2	
27 Chloromethane	50	4.212	4.212	0.000	99	362589	50.0	46.7	
28 Vinyl chloride	62	4.369	4.369	0.000	97	325688	50.0	47.8	
31 Bromomethane	94	4.735	4.735	0.000	93	274720	50.0	48.7	
32 Chloroethane	64	4.787	4.787	0.000	98	194435	50.0	52.3	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	98	643260	50.0	47.3	
34 Trichlorofluoromethane	101	5.065	5.065	0.000	99	558324	50.0	43.7	
37 Ethyl ether	59	5.205	5.205	0.000	95	240802	50.0	58.4	
40 Acrolein	56	5.361	5.361	0.000	99	332129	499.9	576.3	
41 Acetone	43	5.466	5.466	0.000	96	428103	200.0	205.0	
42 1,1,2-Trichloro-1,2,2-trif	151	5.466	5.466	0.000	96	273415	50.0	48.5	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	96	375784	50.0	54.6	
48 Methyl acetate	43	5.692	5.692	0.000	99	1326622	250.0	288.7	
46 Iodomethane	142	5.692	5.692	0.000	62	776238	50.0	52.9	
49 3-Chloro-1-propene	41	5.744	5.744	0.000	85	731581	50.0	54.4	
51 Carbon disulfide	76	5.796	5.796	0.000	100	1494838	50.0	54.5	
50 2-Methyl-2-propanol	59	5.796	5.796	0.000	52	431645	500.0	512.1	
52 Methylene Chloride	84	5.866	5.866	0.000	94	411540	50.0	54.3	
53 Acrylonitrile	53	6.005	6.005	0.000	97	1140085	500.0	587.9	
54 Methyl tert-butyl ether	73	6.023	6.023	0.000	97	981224	50.0	56.4	
55 trans-1,2-Dichloroethene	96	6.075	6.075	0.000	98	385887	50.0	53.5	
56 Hexane	57	6.232	6.232	0.000	92	539057	50.0	53.7	
57 Vinyl acetate	43	6.319	6.319	0.000	97	1444753	100.0	124.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.388	6.388	0.000	96	688447	50.0	54.8	
63 2-Butanone (MEK)	43	6.771	6.771	0.000	99	783138	200.0	215.9	
64 sec-Butyl Alcohol	45	6.806	6.806	0.000	95	986471	1500.0	1524.7	
65 cis-1,2-Dichloroethene	96	6.841	6.841	0.000	84	408998	50.0	53.6	
67 2,2-Dichloropropane	77	6.858	6.858	0.000	88	573775	50.0	50.8	
69 Chlorobromomethane	128	7.032	7.032	0.000	95	214396	50.0	54.2	
70 Chloroform	83	7.032	7.032	0.000	93	720320	50.0	54.4	
71 Tetrahydrofuran	42	7.067	7.067	0.000	87	195169	100.0	116.1	
72 Isobutyl alcohol	41	7.241	7.241	0.000	46	316291	1250.0	1266.6	
73 1,1,1-Trichloroethane	97	7.259	7.259	0.000	98	603650	50.0	54.6	
74 Cyclohexane	56	7.328	7.328	0.000	93	626970	50.0	50.2	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	94	509494	50.0	53.7	
76 Carbon tetrachloride	117	7.398	7.398	0.000	98	561282	50.0	54.5	
77 1,2-Dichloroethane	62	7.520	7.520	0.000	84	548644	50.0	53.4	
79 Benzene	78	7.555	7.555	0.000	98	1354839	50.0	53.8	
14 n-Heptane	43	7.624	7.624	0.000	94	631929	50.0	54.7	
81 Trichloroethene	130	8.007	8.007	0.000	98	405300	50.0	51.0	
82 2-Pentanone	43	8.042	8.042	0.000	98	1987692	200.0	252.1	
85 Methylcyclohexane	55	8.199	8.199	0.000	85	556195	50.0	55.3	
84 1,2-Dichloropropane	63	8.199	8.199	0.000	77	356576	50.0	51.9	
86 1,4-Dioxane	88	8.251	8.251	0.000	93	64735	1000.0	1090.5	
87 Dibromomethane	93	8.303	8.303	0.000	95	287818	50.0	59.5	
88 Dichlorobromomethane	83	8.373	8.373	0.000	99	571773	50.0	56.0	
89 2-Chloroethyl vinyl ether	63	8.512	8.512	0.000	95	122033	50.0	54.0	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	93	616976	50.0	54.8	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	98	1359435	200.0	220.9	
93 Toluene	91	8.965	8.965	0.000	98	1409617	50.0	52.3	
94 Ethyl methacrylate	69	9.034	9.034	0.000	92	440978	50.0	58.0	
95 trans-1,3-Dichloropropene	75	9.069	9.069	0.000	97	548246	50.0	53.4	
96 1,1,2-Trichloroethane	97	9.226	9.226	0.000	92	330320	50.0	57.9	
97 2-Hexanone	43	9.330	9.330	0.000	98	1035625	200.0	226.8	
98 1,3-Dichloropropane	76	9.365	9.365	0.000	92	548353	50.0	56.9	
99 Tetrachloroethene	164	9.382	9.382	0.000	93	337862	50.0	52.0	
100 Chlorodibromomethane	129	9.556	9.556	0.000	90	459497	50.0	58.2	
102 Ethylene Dibromide	107	9.696	9.696	0.000	99	392742	50.0	57.7	
103 1-Chlorohexane	91	9.922	9.922	0.000	94	589108	50.0	55.3	
104 Chlorobenzene	112	10.044	10.044	0.000	97	996649	50.0	53.3	
105 Ethylbenzene	106	10.079	10.079	0.000	97	495072	50.0	52.4	
106 1,1,1,2-Tetrachloroethane	131	10.079	10.079	0.000	51	391677	50.0	54.4	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	98	1364055	50.0	54.8	
108 Styrene	104	10.479	10.479	0.000	88	1022363	50.0	55.6	
109 o-Xylene	106	10.479	10.479	0.000	87	579726	50.0	50.4	
110 Bromoform	173	10.688	10.688	0.000	96	298471	50.0	50.1	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	1594442	50.0	52.9	
113 Cyclohexanone	55	10.879	10.879	0.000	93	454976	2000.0	2298.1	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	94	458350	50.0	58.9	
115 trans-1,4-Dichloro-2-buten	53	10.984	10.984	0.000	97	123795	50.0	61.9	
116 1,2,3-Trichloropropane	110	11.019	11.019	0.000	67	124159	50.0	58.3	a
117 N-Propylbenzene	120	11.071	11.071	0.000	96	416550	50.0	54.0	
118 Bromobenzene	156	11.071	11.071	0.000	61	436897	50.0	52.8	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	94	1334867	50.0	54.0	
120 2-Chlorotoluene	126	11.193	11.193	0.000	95	379858	50.0	52.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.280	11.280	0.000	98	393235	50.0	52.3	
122 tert-Butylbenzene	119	11.489	11.489	0.000	93	1301477	50.0	52.8	
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	97	1350492	50.0	52.2	
124 sec-Butylbenzene	134	11.663	11.663	0.000	96	324870	50.0	53.1	
125 4-Isopropyltoluene	119	11.767	11.767	0.000	97	1478500	50.0	53.8	
126 1,3-Dichlorobenzene	146	11.837	11.837	0.000	97	783976	50.0	53.2	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	93	785271	50.0	52.7	
129 n-Butylbenzene	91	12.133	12.133	0.000	97	1393140	50.0	53.5	
130 1,2-Dichlorobenzene	146	12.272	12.272	0.000	95	719135	50.0	53.2	
131 1,2-Dibromo-3-Chloropropan	157	13.038	13.038	0.000	86	95632	50.0	54.3	
132 1,2,4-Trichlorobenzene	180	14.030	14.030	0.000	94	525079	50.0	53.6	
133 Hexachlorobutadiene	225	14.169	14.169	0.000	98	290376	50.0	49.7	
134 Naphthalene	128	14.395	14.395	0.000	98	1079598	50.0	56.0	
135 1,2,3-Trichlorobenzene	180	14.726	14.726	0.000	96	469272	50.0	54.3	
S 142 1,2-Dichloroethene, Total	96				0		100.0	107.1	
S 137 Xylenes, Total (URS)	1				0		100.0	105.3	
S 136 Trihalomethanes, Total	1				0		200.0	218.6	
S 139 1,3-Dichloropropene, Total	1				0		100.0	108.1	
S 140 1,2-Dichloroethene, Total	1				0		100.0	107.1	
S 141 Xylenes, Total	106				0		100.0	105.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MV-Main A_00022	Amount Added:	6.25	Units: uL	
MV-2cleve+AVA_00009	Amount Added:	6.25	Units: uL	
MV-Gas/Ket A_00033	Amount Added:	6.25	Units: uL	
MV-568718-D_00003	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:37 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6847.D

Injection Date: 19-May-2015 17:30:30 Instrument ID: VMS_J Operator ID: DUKESA

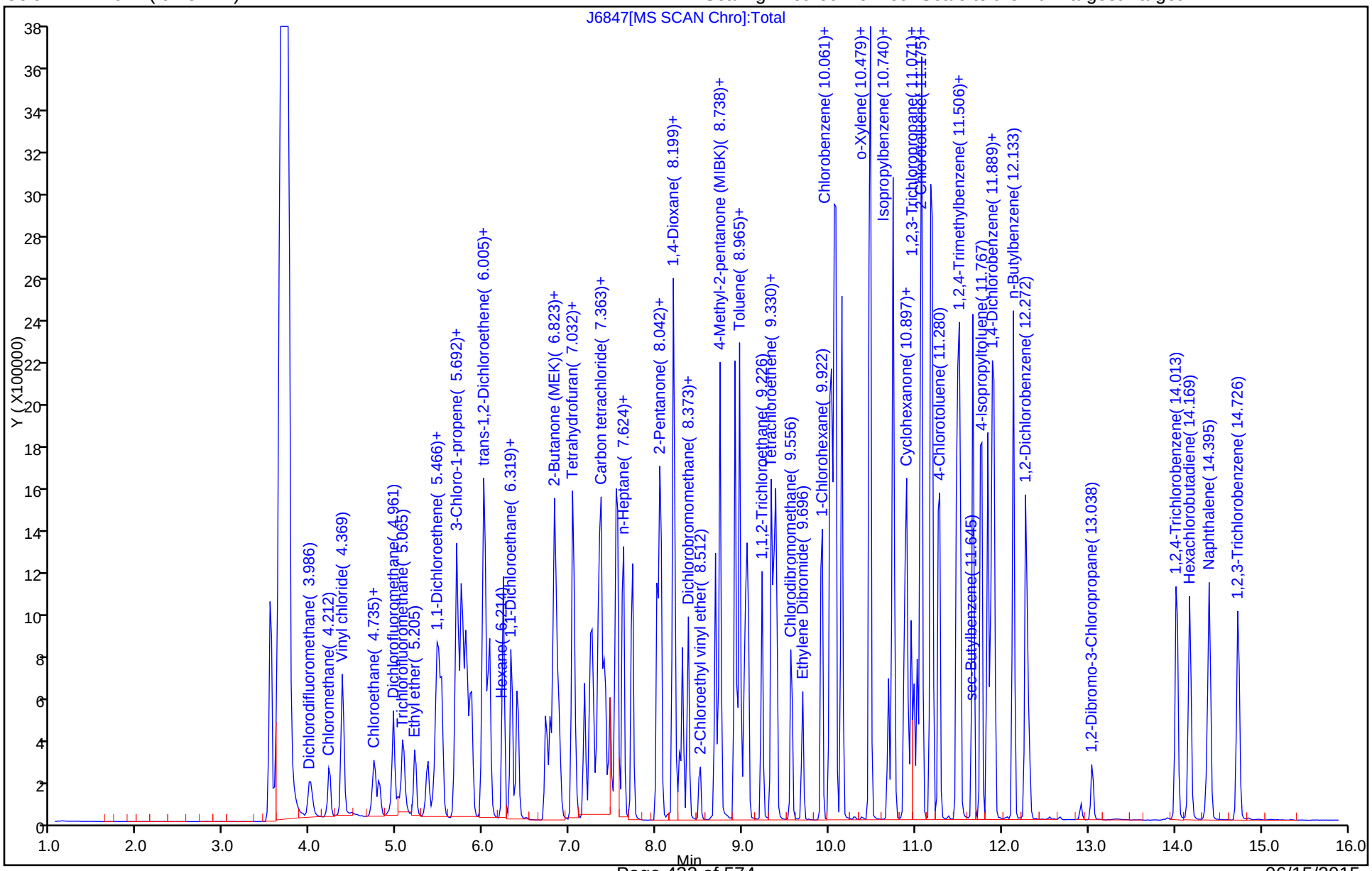
Lims ID: CCV Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

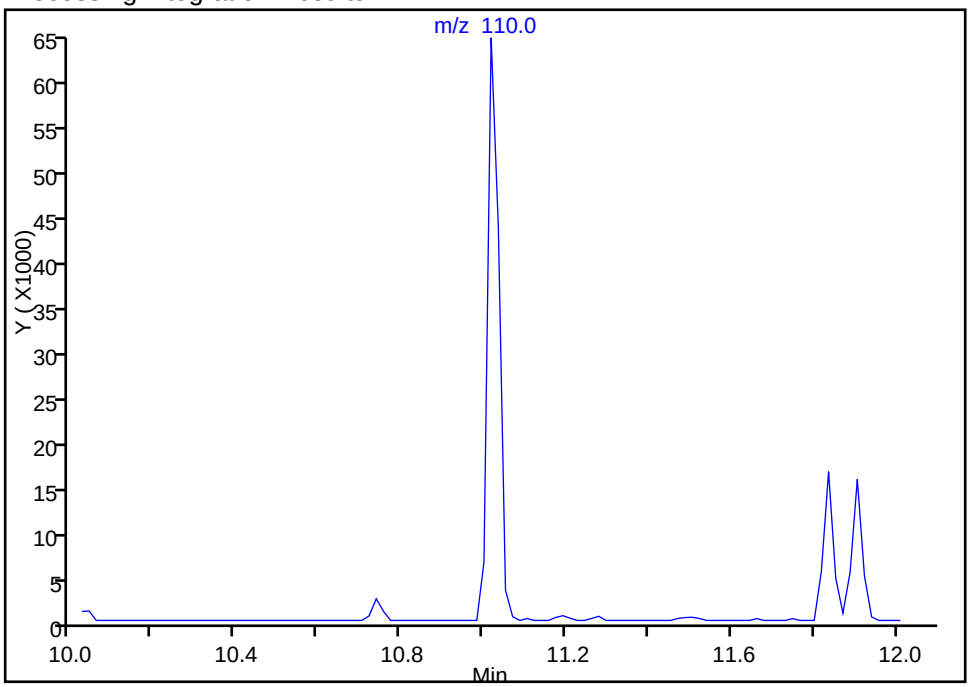
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6847.D				
Injection Date:	19-May-2015 17:30:30	Instrument ID:	VMS_J		
Lims ID:	CCV				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	10	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (0.25 mm)	Detector	MS SCAN		

116 1,2,3-Trichloropropane, CAS: 96-18-4

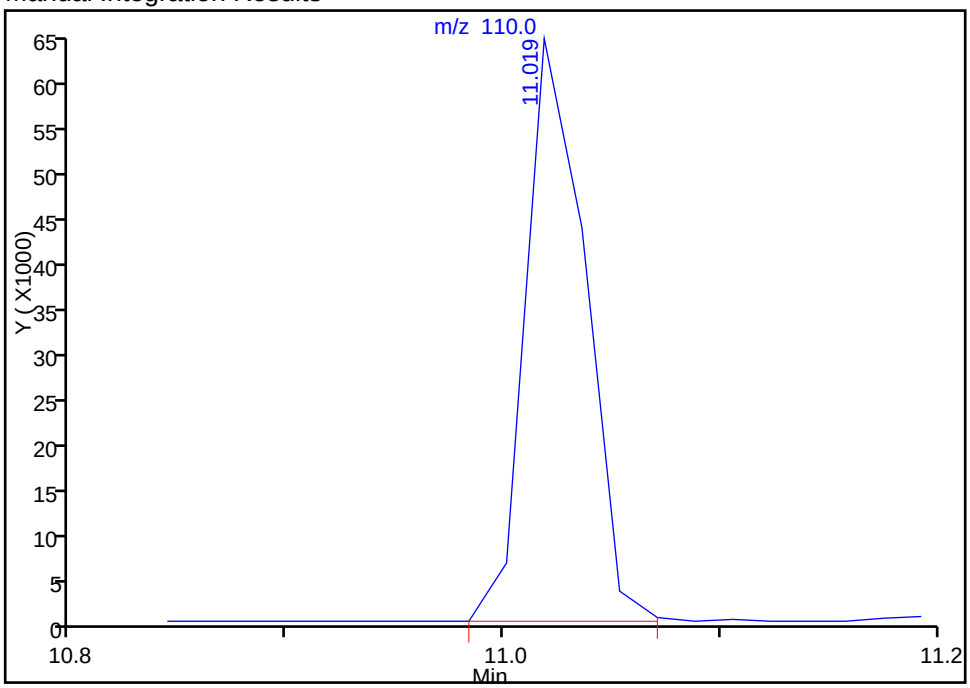
Not Detected
Expected RT: 11.02

Processing Integration Results



RT: 11.02
Area: 124159
Amount: 58.252469
Amount Units: ug/l

Manual Integration Results



Reviewer: dukesa, 19-May-2015 18:06:19
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-278246/25 Calibration Date: 05/19/2015 23:32

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6865.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.4168		54.4	50.0	8.8	50.0
Chloromethane	Lin1		0.3343	0.1000	49.7	50.0	-0.5	50.0
Vinyl chloride	Lin1		0.3075		52.1	50.0	4.2	50.0
Bromomethane	Lin1		0.2734		56.0	50.0	12.0	50.0
Chloroethane	Lin		0.1809		56.6	50.0	13.2	50.0
Dichlorofluoromethane	Lin2		0.6362		54.0	50.0	7.9	50.0
Trichlorofluoromethane	Lin1		0.5968		53.9	50.0	7.7	50.0
Ethyl ether	Ave	0.1777	0.1958		55.1	50.0	10.2	50.0
Acrolein	Ave	0.0248	0.0340		683	500	36.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2430	0.2703		55.6	50.0	11.2	50.0
Acetone	Ave	0.0900	0.0909		202	200	1.0	50.0
1,1-Dichloroethene	Ave	0.2969	0.3287		55.4	50.0	10.7	50.0
Iodomethane	Ave	0.6329	0.6987		55.2	50.0	10.4	50.0
Methyl acetate	Ave	0.1981	0.2064		260	250	4.2	50.0
3-Chloro-1-propene	Ave	0.5800	0.6178		53.3	50.0	6.5	50.0
Carbon disulfide	Ave	1.183	1.281		54.1	50.0	8.3	50.0
tert-Butyl alcohol	Ave	1.081	1.188		549	500	9.8	50.0
Methylene Chloride	Lin2		0.3577		54.7	50.0	9.4	50.0
Acrylonitrile	Ave	0.0836	0.0898		537	500	7.4	50.0
Methyl tert-butyl ether	Ave	0.7497	0.8154		54.4	50.0	8.8	50.0
trans-1,2-Dichloroethene	Ave	0.3111	0.3404		54.7	50.0	9.4	50.0
Hexane	Ave	1.541	1.663		54.0	50.0	7.9	50.0
Vinyl acetate	Ave	0.5016	0.5922		118	100	18.1	50.0
1,1-Dichloroethane	Ave	0.5414	0.6085	0.1000	56.2	50.0	12.4	50.0
2-Butanone (MEK)	Ave	0.1564	0.1620		207	200	3.6	50.0
sec-Butyl Alcohol	Ave	0.8301	0.9389		1700	1500	13.1	50.0
cis-1,2-Dichloroethene	Ave	0.3291	0.3556		54.0	50.0	8.1	50.0
2,2-Dichloropropane	Ave	0.4868	0.5082		52.2	50.0	4.4	50.0
Bromochloromethane	Ave	0.1705	0.1894		55.5	50.0	11.1	50.0
Chloroform	Ave	0.5713	0.6383		55.9	50.0	11.7	50.0
Tetrahydrofuran	Lin2		0.0737		102	100	1.7	50.0
Isobutyl alcohol	Ave	0.3204	0.3762		1470	1250	17.4	50.0
1,1,1-Trichloroethane	Ave	0.4765	0.5404		56.7	50.0	13.4	50.0
Cyclohexane	Ave	0.5387	0.5648		52.4	50.0	4.8	50.0
1,1-Dichloropropene	Ave	0.4087	0.4491		54.9	50.0	9.9	50.0
Carbon tetrachloride	Ave	0.4442	0.5210		58.7	50.0	17.3	50.0
1,2-Dichloroethane	Ave	0.4428	0.4852		54.8	50.0	9.6	50.0
Benzene	Ave	1.085	1.208		55.7	50.0	11.3	50.0
Trichloroethene	Ave	0.3425	0.3653		53.3	50.0	6.6	50.0
2-Pentanone	Ave	0.3399	0.3490		205	200	2.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-278246/25 Calibration Date: 05/19/2015 23:32

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6865.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2961	0.3199		54.0	50.0	8.1	50.0
Methylcyclohexane	Lin2		0.4786		55.2	50.0	10.3	50.0
1,4-Dioxane	Ave	0.0026	0.0030		1150	1000	15.1	50.0
Dibromomethane	Ave	0.2085	0.2402		57.6	50.0	15.2	50.0
Bromodichloromethane	Ave	0.4400	0.5121		58.2	50.0	16.4	50.0
2-Chloroethyl vinyl ether	Lin1		0.0843		43.6	50.0	-12.9	50.0
cis-1,3-Dichloropropene	Ave	1.731	1.876		54.2	50.0	8.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2652	0.2998		226	200	13.0	50.0
Toluene	Ave	1.162	1.281		55.2	50.0	10.3	50.0
Ethyl methacrylate	Ave	1.168	1.284		54.9	50.0	9.9	50.0
trans-1,3-Dichloropropene	Lin1		0.4622		52.2	50.0	4.3	50.0
1,1,2-Trichloroethane	Ave	0.2460	0.2804		57.0	50.0	14.0	50.0
2-Hexanone	Ave	0.7015	0.7733		220	200	10.2	50.0
1,3-Dichloropropane	Ave	1.481	1.658		56.0	50.0	11.9	50.0
Tetrachloroethene	Ave	0.999	1.079		54.0	50.0	8.1	50.0
Chlorodibromomethane	Ave	1.213	1.419		58.5	50.0	16.9	50.0
1,2-Dibromoethane	Ave	1.046	1.182		56.5	50.0	13.0	50.0
1-Chlorohexane	Ave	1.636	1.817		55.5	50.0	11.0	50.0
Chlorobenzene	Ave	2.871	3.162	0.3000	55.1	50.0	10.1	50.0
Ethylbenzene	Ave	1.450	1.559		53.8	50.0	7.5	50.0
1,1,1,2-Tetrachloroethane	Ave	1.105	1.220		55.2	50.0	10.4	50.0
m-Xylene & p-Xylene	Lin2		4.402		57.7	50.0	15.3	50.0
o-Xylene	Ave	1.766	1.864		52.8	50.0	5.6	50.0
Styrene	Ave	2.825	3.217		56.9	50.0	13.9	50.0
Bromoform	Lin1		0.8932	0.1000	48.8	50.0	-2.4	50.0
Isopropylbenzene	Ave	2.965	3.346		56.4	50.0	12.9	50.0
Cyclohexanone	Ave	0.0304	0.0358		2360	2000	17.8	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7657	0.8525	0.3000	55.7	50.0	11.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1970	0.2232		56.7	50.0	13.3	50.0
1,2,3-Trichloropropane	Ave	0.2098	0.2302		54.9	50.0	9.7	50.0
Bromobenzene	Ave	0.8142	0.9174		56.3	50.0	12.7	50.0
N-Propylbenzene	Ave	0.7590	0.8534		56.2	50.0	12.4	50.0
1,3,5-Trimethylbenzene	Ave	2.433	2.781		57.2	50.0	14.3	50.0
2-Chlorotoluene	Ave	0.7069	0.8266		58.5	50.0	16.9	50.0
4-Chlorotoluene	Ave	0.7403	0.8272		55.9	50.0	11.7	50.0
tert-Butylbenzene	Ave	2.427	2.691		55.5	50.0	10.9	50.0
1,2,4-Trimethylbenzene	Ave	2.547	2.813		55.2	50.0	10.4	50.0
sec-Butylbenzene	Ave	0.6029	0.6795		56.4	50.0	12.7	50.0
4-Isopropyltoluene	Ave	2.703	3.043		56.3	50.0	12.6	50.0
1,3-Dichlorobenzene	Ave	1.451	1.641		56.5	50.0	13.0	50.0
1,4-Dichlorobenzene	Ave	1.466	1.630		55.6	50.0	11.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-278246/25 Calibration Date: 05/19/2015 23:32

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6865.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.563	2.942		57.4	50.0	14.8	50.0
1,2-Dichlorobenzene	Ave	1.332	1.485		55.8	50.0	11.5	50.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1750		50.6	50.0	1.2	50.0
1,2,4-Trichlorobenzene	Ave	0.9644	1.109		57.5	50.0	15.0	50.0
Hexachlorobutadiene	Ave	0.5752	0.6451		56.1	50.0	12.1	50.0
Naphthalene	Ave	1.898	2.131		56.1	50.0	12.3	50.0
1,2,3-Trichlorobenzene	Ave	0.8502	0.9937		58.4	50.0	16.9	50.0
Dibromofluoromethane (Surr)	Ave	0.3629	0.3535		48.7	50.0	-2.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3773	0.3428		45.4	50.0	-9.1	50.0
Toluene-d8 (Surr)	Ave	3.687	3.527		47.8	50.0	-4.3	50.0
4-Bromofluorobenzene (Surr)	Ave	1.018	1.001		49.2	50.0	-1.7	50.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6865.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 19-May-2015 23:32:30 ALS Bottle#: 28 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:53 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.744	5.744	0.000	98	576133	1000.0	1000.0	
* 1 Fluorobenzene	96	7.728	7.728	0.000	98	1117659	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.009	0.000	86	319980	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.888	11.888	0.000	96	491194	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.171	7.171	0.000	92	395130	50.0	48.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.467	0.000	98	383168	50.0	45.4	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	94	1128561	50.0	47.8	
$ 8 4-Bromofluorobenzene (Surr	95	10.896	10.896	0.000	90	491467	50.0	49.2	
25 Dichlorodifluoromethane	85	4.003	4.003	0.000	99	465812	50.0	54.4	
27 Chloromethane	50	4.212	4.212	0.000	99	373586	50.0	49.7	
28 Vinyl chloride	62	4.369	4.369	0.000	98	343691	50.0	52.1	
31 Bromomethane	94	4.734	4.734	0.000	95	305529	50.0	56.0	
32 Chloroethane	64	4.786	4.786	0.000	98	202126	50.0	56.6	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	97	711100	50.0	54.0	
34 Trichlorofluoromethane	101	5.065	5.065	0.000	99	667048	50.0	53.9	
37 Ethyl ether	59	5.204	5.204	0.000	95	218826	50.0	55.1	
40 Acrolein	56	5.361	5.361	0.000	99	379516	499.9	683.4	
41 Acetone	43	5.465	5.465	0.000	98	406445	200.0	202.0	
42 1,1,2-Trichloro-1,2,2-trif	151	5.465	5.465	0.000	96	302137	50.0	55.6	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	96	367375	50.0	55.4	
48 Methyl acetate	43	5.692	5.692	0.000	99	1153161	250.0	260.4	
46 Iodomethane	142	5.692	5.692	0.000	96	780897	50.0	55.2	
49 3-Chloro-1-propene	41	5.761	5.761	0.000	87	690490	50.0	53.3	
51 Carbon disulfide	76	5.796	5.796	0.000	100	1432099	50.0	54.1	
50 2-Methyl-2-propanol	59	5.796	5.796	0.000	49	342113	500.0	549.1	
52 Methylene Chloride	84	5.866	5.866	0.000	95	399732	50.0	54.7	
53 Acrylonitrile	53	6.005	6.005	0.000	98	1003684	500.0	537.1	
54 Methyl tert-butyl ether	73	6.022	6.022	0.000	97	911316	50.0	54.4	
55 trans-1,2-Dichloroethene	96	6.075	6.075	0.000	97	380447	50.0	54.7	
56 Hexane	57	6.231	6.231	0.000	93	532089	50.0	54.0	
57 Vinyl acetate	43	6.318	6.318	0.000	97	1323830	100.0	118.1	
59 1,1-Dichloroethane	63	6.388	6.388	0.000	96	680135	50.0	56.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
63 2-Butanone (MEK)	43	6.771	6.771	0.000	99	724105	200.0	207.2	
64 sec-Butyl Alcohol	45	6.823	6.823	0.000	95	811363	1500.0	1696.4	
65 cis-1,2-Dichloroethene	96	6.840	6.840	0.000	86	397470	50.0	54.0	
67 2,2-Dichloropropane	77	6.858	6.858	0.000	91	567943	50.0	52.2	
69 Chlorobromomethane	128	7.032	7.032	0.000	96	211722	50.0	55.5	
70 Chloroform	83	7.049	7.049	0.000	95	713395	50.0	55.9	
71 Tetrahydrofuran	42	7.067	7.067	0.000	84	164821	100.0	101.7	
72 Isobutyl alcohol	41	7.241	7.241	0.000	79	270909	1250.0	1467.6	
73 1,1,1-Trichloroethane	97	7.258	7.258	0.000	98	603925	50.0	56.7	
74 Cyclohexane	56	7.328	7.328	0.000	94	631297	50.0	52.4	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	94	501973	50.0	54.9	
76 Carbon tetrachloride	117	7.397	7.397	0.000	97	582304	50.0	58.7	
77 1,2-Dichloroethane	62	7.519	7.519	0.000	89	542326	50.0	54.8	
79 Benzene	78	7.554	7.554	0.000	98	1349759	50.0	55.7	
14 n-Heptane	43	7.624	7.624	0.000	94	635980	50.0	57.1	
81 Trichloroethene	130	8.024	8.024	0.000	97	408249	50.0	53.3	
82 2-Pentanone	43	8.042	8.042	0.000	98	1560080	200.0	205.3	
85 Methylcyclohexane	55	8.198	8.198	0.000	94	534936	50.0	55.2	
84 1,2-Dichloropropane	63	8.198	8.198	0.000	90	357580	50.0	54.0	
86 1,4-Dioxane	88	8.250	8.250	0.000	93	65838	1000.0	1151.0	
87 Dibromomethane	93	8.303	8.303	0.000	95	268464	50.0	57.6	
88 Dichlorobromomethane	83	8.372	8.372	0.000	99	572377	50.0	58.2	
89 2-Chloroethyl vinyl ether	63	8.512	8.512	0.000	95	94227	50.0	43.6	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	94	600387	50.0	54.2	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	98	1340358	200.0	226.1	
93 Toluene	91	8.964	8.964	0.000	98	1432135	50.0	55.2	
94 Ethyl methacrylate	69	9.034	9.034	0.000	93	410850	50.0	54.9	
95 trans-1,3-Dichloropropene	75	9.069	9.069	0.000	98	516579	50.0	52.2	
96 1,1,2-Trichloroethane	97	9.225	9.225	0.000	93	313404	50.0	57.0	
97 2-Hexanone	43	9.330	9.330	0.000	98	989732	200.0	220.5	
98 1,3-Dichloropropane	76	9.364	9.364	0.000	91	530413	50.0	56.0	
99 Tetrachloroethene	164	9.382	9.382	0.000	93	345370	50.0	54.0	
100 Chlorodibromomethane	129	9.556	9.556	0.000	89	453913	50.0	58.5	
102 Ethylene Dibromide	107	9.695	9.695	0.000	98	378259	50.0	56.5	
103 1-Chlorohexane	91	9.922	9.922	0.000	95	581378	50.0	55.5	
104 Chlorobenzene	112	10.043	10.043	0.000	96	1011638	50.0	55.1	
105 Ethylbenzene	106	10.061	10.061	0.000	98	498850	50.0	53.8	
106 1,1,1,2-Tetrachloroethane	131	10.078	10.078	0.000	50	390501	50.0	55.2	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	99	1408415	50.0	57.7	
108 Styrene	104	10.479	10.479	0.000	88	1029230	50.0	56.9	
109 o-Xylene	106	10.479	10.479	0.000	87	596582	50.0	52.8	
110 Bromoform	173	10.687	10.687	0.000	97	285794	50.0	48.8	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	1643596	50.0	56.4	
113 Cyclohexanone	55	10.879	10.879	0.000	94	458292	2000.0	2355.0	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	95	418716	50.0	55.7	
115 trans-1,4-Dichloro-2-buten	53	10.983	10.983	0.000	90	109618	50.0	56.7	
116 1,2,3-Trichloropropane	110	11.018	11.018	0.000	87	113094	50.0	54.9	
117 N-Propylbenzene	120	11.070	11.070	0.000	98	419184	50.0	56.2	
118 Bromobenzene	156	11.070	11.070	0.000	86	450643	50.0	56.3	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	94	1366039	50.0	57.2	
120 2-Chlorotoluene	126	11.192	11.192	0.000	96	406020	50.0	58.5	
121 4-Chlorotoluene	126	11.262	11.262	0.000	99	406329	50.0	55.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 tert-Butylbenzene	119	11.471	11.471	0.000	93	1321996	50.0	55.5	
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	97	1381635	50.0	55.2	
124 sec-Butylbenzene	134	11.662	11.662	0.000	95	333778	50.0	56.4	
125 4-Isopropyltoluene	119	11.749	11.749	0.000	97	1494722	50.0	56.3	
126 1,3-Dichlorobenzene	146	11.836	11.836	0.000	98	805852	50.0	56.5	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	95	800468	50.0	55.6	
129 n-Butylbenzene	91	12.132	12.132	0.000	98	1445331	50.0	57.4	
130 1,2-Dichlorobenzene	146	12.271	12.271	0.000	96	729484	50.0	55.8	
131 1,2-Dibromo-3-Chloropropan	157	13.037	13.037	0.000	87	85973	50.0	50.6	
132 1,2,4-Trichlorobenzene	180	14.012	14.012	0.000	94	544796	50.0	57.5	
133 Hexachlorobutadiene	225	14.169	14.169	0.000	97	316846	50.0	56.1	
134 Naphthalene	128	14.395	14.395	0.000	98	1046487	50.0	56.1	
135 1,2,3-Trichlorobenzene	180	14.726	14.726	0.000	95	488118	50.0	58.4	
S 142 1,2-Dichloroethene, Total	96				0		100.0	108.8	
S 137 Xylenes, Total (URS)	1				0		100.0	110.4	
S 136 Trihalomethanes, Total	1				0		200.0	221.3	
S 139 1,3-Dichloropropene, Total	1				0		100.0	106.4	
S 140 1,2-Dichloroethene, Total	1				0		100.0	108.8	
S 141 Xylenes, Total	106				0		100.0	110.4	

Reagents:

MV-Main A_00022	Amount Added: 6.25	Units: uL	
MV-2cleve+AVA_00009	Amount Added: 6.25	Units: uL	
MV-Gas/Ket A_00033	Amount Added: 6.25	Units: uL	
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:53 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6865.D

Injection Date: 19-May-2015 23:32:30 Instrument ID: VMS_J Operator ID: DUKESA

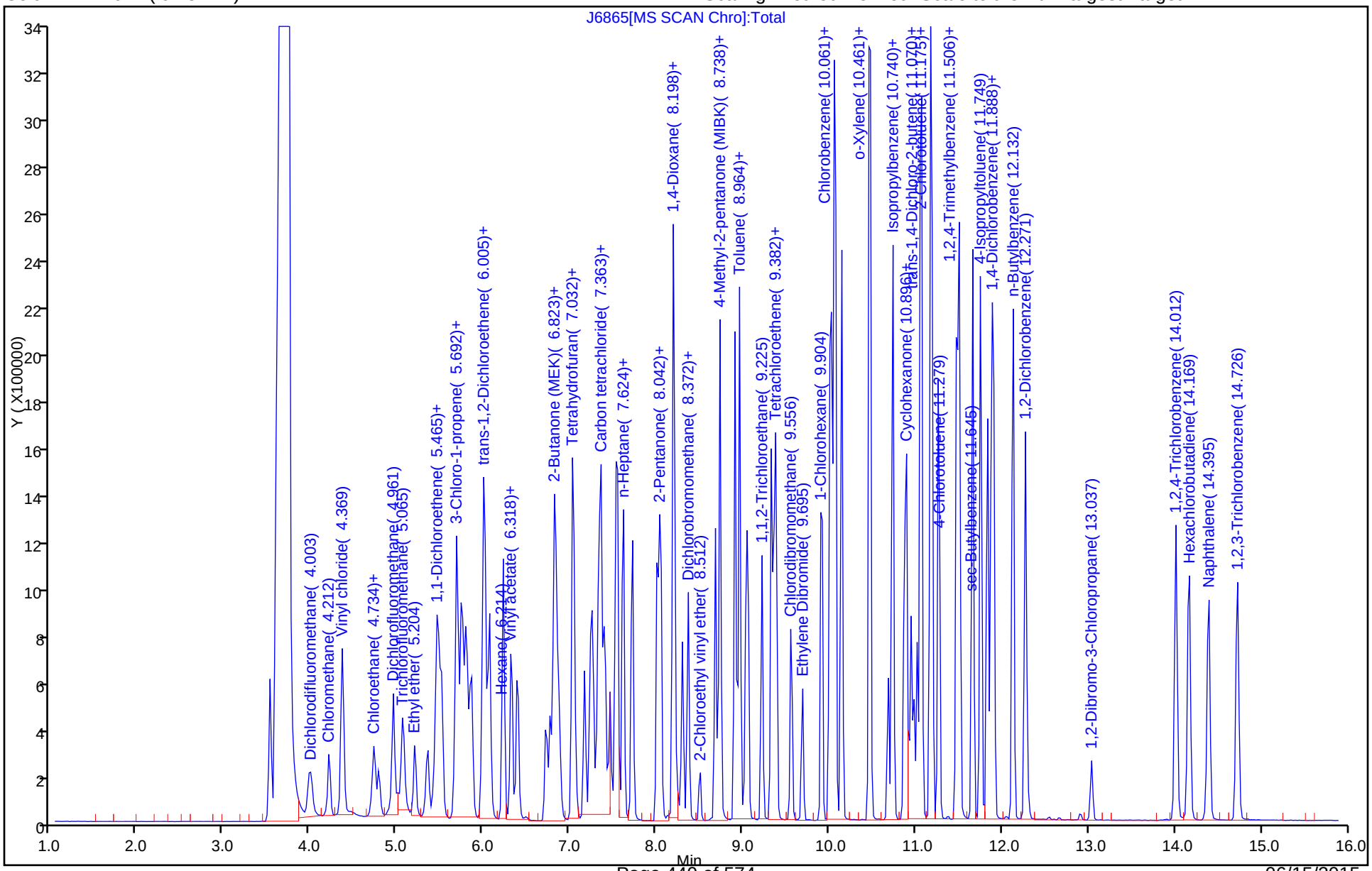
Lims ID: CCVC Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 28

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-278648/2 Calibration Date: 05/21/2015 17:01

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6913.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3651		47.9	50.0	-4.3	20.0
Chloromethane	Lin1		0.3133	0.1000	46.8	50.0	-6.4	20.0
Vinyl chloride	Lin1		0.2833		48.2	50.0	-3.6	20.0
Bromomethane	Lin1		0.2493		51.2	50.0	2.3	20.0
Chloroethane	Lin		0.1636		51.0	50.0	1.9	20.0
Dichlorofluoromethane	Lin2		0.5900		50.2	50.0	0.4	20.0
Trichlorofluoromethane	Lin1		0.5354		48.5	50.0	-3.1	20.0
Ethyl ether	Ave	0.1777	0.1977		55.6	50.0	11.2	20.0
Acrolein	Ave	0.0248	0.0294		591	500	18.2	20.0
Acetone	Ave	0.0900	0.0919		204	200	2.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2430	0.2495		51.3	50.0	2.7	20.0
1,1-Dichloroethene	Ave	0.2969	0.3221		54.2	50.0	8.5	20.0
Iodomethane	Ave	0.6329	0.6761		53.4	50.0	6.8	20.0
Methyl acetate	Ave	0.1981	0.2175		274	250	9.8	20.0
3-Chloro-1-propene	Ave	0.5800	0.6330		54.6	50.0	9.1	20.0
Carbon disulfide	Ave	1.183	1.274		53.8	50.0	7.6	20.0
tert-Butyl alcohol	Ave	1.081	1.056		488	500	-2.3	20.0
Methylene Chloride	Lin2		0.3402		51.9	50.0	3.8	20.0
Acrylonitrile	Ave	0.0836	0.0935		559	500	11.8	20.0
Methyl tert-butyl ether	Ave	0.7497	0.7948		53.0	50.0	6.0	20.0
trans-1,2-Dichloroethene	Ave	0.3111	0.3277		52.7	50.0	5.3	20.0
Hexane	Ave	1.541	1.676		54.4	50.0	8.8	20.0
Vinyl acetate	Ave	0.5016	0.6251		125	100	24.6*	20.0
1,1-Dichloroethane	Ave	0.5414	0.5747	0.1000	53.1	50.0	6.1	20.0
2-Butanone (MEK)	Ave	0.1564	0.1651		211	200	5.6	20.0
sec-Butyl Alcohol	Ave	0.8301	0.8013		1450	1500	-3.5	20.0
cis-1,2-Dichloroethene	Ave	0.3291	0.3460		52.6	50.0	5.2	20.0
2,2-Dichloropropane	Ave	0.4868	0.5010		51.5	50.0	2.9	20.0
Bromochloromethane	Ave	0.1705	0.1790		52.5	50.0	5.0	20.0
Chloroform	Ave	0.5713	0.6084		53.2	50.0	6.5	20.0
Tetrahydrofuran	Lin2		0.0806		111	100	11.2	20.0
Isobutyl alcohol	Ave	0.3204	0.2949		1150	1250	-8.0	20.0
1,1,1-Trichloroethane	Ave	0.4765	0.5235		54.9	50.0	9.9	20.0
Cyclohexane	Ave	0.5387	0.5305		49.2	50.0	-1.5	20.0
1,1-Dichloropropene	Ave	0.4087	0.4349		53.2	50.0	6.4	20.0
Carbon tetrachloride	Ave	0.4442	0.4995		56.2	50.0	12.5	20.0
1,2-Dichloroethane	Ave	0.4428	0.4553		51.4	50.0	2.8	20.0
Benzene	Ave	1.085	1.126		51.9	50.0	3.8	20.0
Trichloroethene	Ave	0.3425	0.3506		51.2	50.0	2.3	20.0
2-Pentanone	Ave	0.3399	0.4057		239	200	19.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-278648/2 Calibration Date: 05/21/2015 17:01

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6913.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2961	0.2948		49.8	50.0	-0.4	20.0
Methylcyclohexane	Lin2		0.4595		52.9	50.0	5.8	20.0
1,4-Dioxane	Ave	0.0026	0.0028		1110	1000	10.7	20.0
Dibromomethane	Ave	0.2085	0.2248		53.9	50.0	7.8	20.0
Bromodichloromethane	Ave	0.4400	0.4820		54.8	50.0	9.6	20.0
2-Chloroethyl vinyl ether	Lin1		0.0871		45.0	50.0	-10.0	20.0
cis-1,3-Dichloropropene	Ave	1.731	1.839		53.1	50.0	6.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2652	0.2883		217	200	8.7	20.0
Toluene	Ave	1.162	1.190		51.2	50.0	2.4	20.0
Ethyl methacrylate	Ave	1.168	1.285		55.0	50.0	10.0	20.0
trans-1,3-Dichloropropene	Lin1		0.4440		50.1	50.0	0.3	20.0
1,1,2-Trichloroethane	Ave	0.2460	0.2579		52.4	50.0	4.8	20.0
2-Hexanone	Ave	0.7015	0.7822		223	200	11.5	20.0
1,3-Dichloropropane	Ave	1.481	1.579		53.3	50.0	6.6	20.0
Tetrachloroethene	Ave	0.999	1.074		53.8	50.0	7.6	20.0
Chlorodibromomethane	Ave	1.213	1.361		56.1	50.0	12.2	20.0
1,2-Dibromoethane	Ave	1.046	1.144		54.7	50.0	9.3	20.0
1-Chlorohexane	Ave	1.636	1.762		53.8	50.0	7.7	20.0
Chlorobenzene	Ave	2.871	3.011	0.3000	52.4	50.0	4.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.105	1.170		53.0	50.0	5.9	20.0
Ethylbenzene	Ave	1.450	1.506		51.9	50.0	3.8	20.0
m-Xylene & p-Xylene	Lin2		4.142		54.2	50.0	8.4	20.0
o-Xylene	Ave	1.766	1.736		49.1	50.0	-1.7	20.0
Styrene	Ave	2.825	2.991		52.9	50.0	5.9	20.0
Bromoform	Lin1		0.8822	0.1000	48.2	50.0	-3.6	20.0
Isopropylbenzene	Ave	2.965	3.107		52.4	50.0	4.8	20.0
Cyclohexanone	Ave	0.0304	0.0334		2200	2000	9.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7657	0.8179	0.3000	53.4	50.0	6.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1970	0.2210		56.1	50.0	12.2	20.0
1,2,3-Trichloropropane	Ave	0.2098	0.2358		56.2	50.0	12.3	20.0
N-Propylbenzene	Ave	0.7590	0.7995		52.7	50.0	5.3	20.0
Bromobenzene	Ave	0.8142	0.8384		51.5	50.0	3.0	20.0
1,3,5-Trimethylbenzene	Ave	2.433	2.555		52.5	50.0	5.0	20.0
2-Chlorotoluene	Ave	0.7069	0.7265		51.4	50.0	2.8	20.0
4-Chlorotoluene	Ave	0.7403	0.7265		49.1	50.0	-1.9	20.0
tert-Butylbenzene	Ave	2.427	2.499		51.5	50.0	3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.547	2.587		50.8	50.0	1.6	20.0
sec-Butylbenzene	Ave	0.6029	0.6241		51.8	50.0	3.5	20.0
4-Isopropyltoluene	Ave	2.703	2.826		52.3	50.0	4.5	20.0
1,3-Dichlorobenzene	Ave	1.451	1.502		51.7	50.0	3.5	20.0
1,4-Dichlorobenzene	Ave	1.466	1.472		50.2	50.0	0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCV 280-278648/2 Calibration Date: 05/21/2015 17:01

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6913.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.563	2.628		51.3	50.0	2.5	20.0
1,2-Dichlorobenzene	Ave	1.332	1.370		51.4	50.0	2.9	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1711		49.5	50.0	-1.0	20.0
1,2,4-Trichlorobenzene	Ave	0.9644	0.9690		50.2	50.0	0.5	20.0
Hexachlorobutadiene	Ave	0.5752	0.5624		48.9	50.0	-2.2	20.0
Naphthalene	Ave	1.898	1.912		50.4	50.0	0.8	20.0
1,2,3-Trichlorobenzene	Ave	0.8502	0.8427		49.6	50.0	-0.9	20.0
Dibromofluoromethane (Surr)	Ave	0.3629	0.3599		49.6	50.0	-0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3773	0.3623		48.0	50.0	-4.0	20.0
Toluene-d8 (Surr)	Ave	3.687	3.654		49.5	50.0	-0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.018	0.9570		47.0	50.0	-6.0	20.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6913.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-May-2015 17:01:30 ALS Bottle#: 10 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150521-35307.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 21-May-2015 23:29:17 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 21-May-2015 17:48:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.733	5.733	0.000	99	672682	1000.0	1000.0	
* 1 Fluorobenzene	96	7.717	7.717	0.000	98	1040255	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.015	0.000	78	286459	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.878	11.878	0.000	97	452030	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.160	7.160	0.000	93	374335	50.0	49.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.456	7.456	0.000	98	376922	50.0	48.0	
$ 7 Toluene-d8 (Surr)	98	8.919	8.919	0.000	93	1046692	50.0	49.5	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.903	0.000	96	432605	50.0	47.0	
25 Dichlorodifluoromethane	85	3.992	3.992	0.000	99	379804	50.0	47.9	
27 Chloromethane	50	4.219	4.219	0.000	99	325858	50.0	46.8	
28 Vinyl chloride	62	4.358	4.358	0.000	98	294709	50.0	48.2	
31 Bromomethane	94	4.741	4.741	0.000	94	259330	50.0	51.2	
32 Chloroethane	64	4.793	4.793	0.000	98	170191	50.0	51.0	
33 Dichlorofluoromethane	67	4.967	4.967	0.000	97	613777	50.0	50.2	
34 Trichlorofluoromethane	101	5.072	5.072	0.000	99	556902	50.0	48.5	
37 Ethyl ether	59	5.211	5.211	0.000	96	205635	50.0	55.6	
40 Acrolein	56	5.350	5.350	0.000	98	305433	499.9	590.9	
41 Acetone	43	5.455	5.455	0.000	96	382445	200.0	204.2	
42 1,1,2-Trichloro-1,2,2-trif	151	5.472	5.472	0.000	96	259509	50.0	51.3	
45 1,1-Dichloroethene	96	5.507	5.507	0.000	95	335041	50.0	54.2	
46 Iodomethane	142	5.681	5.681	0.000	97	703315	50.0	53.4	
48 Methyl acetate	43	5.698	5.698	0.000	99	1131127	250.0	274.5	
49 3-Chloro-1-propene	41	5.750	5.750	0.000	89	658478	50.0	54.6	
51 Carbon disulfide	76	5.803	5.803	0.000	100	1324807	50.0	53.8	
50 2-Methyl-2-propanol	59	5.803	5.803	0.000	51	355328	500.0	488.5	
52 Methylene Chloride	84	5.855	5.855	0.000	95	353844	50.0	51.9	
53 Acrylonitrile	53	5.994	5.994	0.000	97	972452	500.0	559.1	
54 Methyl tert-butyl ether	73	6.029	6.029	0.000	97	826834	50.0	53.0	
55 trans-1,2-Dichloroethene	96	6.064	6.064	0.000	97	340895	50.0	52.7	
56 Hexane	57	6.220	6.220	0.000	93	480176	50.0	54.4	
57 Vinyl acetate	43	6.325	6.325	0.000	97	1300492	100.0	124.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,1-Dichloroethane	63	6.395	6.395	0.000	96	597860	50.0	53.1	
63 2-Butanone (MEK)	43	6.777	6.777	0.000	99	686857	200.0	211.1	
64 sec-Butyl Alcohol	45	6.812	6.812	0.000	95	808508	1500.0	1447.8	
65 cis-1,2-Dichloroethene	96	6.830	6.830	0.000	81	359934	50.0	52.6	
67 2,2-Dichloropropane	77	6.865	6.865	0.000	90	521166	50.0	51.5	
69 Chlorobromomethane	128	7.039	7.039	0.000	95	186212	50.0	52.5	
70 Chloroform	83	7.039	7.039	0.000	93	632881	50.0	53.2	
71 Tetrahydrofuran	42	7.056	7.056	0.000	86	167591	100.0	111.2	
72 Isobutyl alcohol	41	7.230	7.230	0.000	40	247933	1250.0	1150.4	
73 1,1,1-Trichloroethane	97	7.265	7.265	0.000	98	544521	50.0	54.9	
74 Cyclohexane	56	7.334	7.334	0.000	95	551808	50.0	49.2	
75 1,1-Dichloropropene	75	7.352	7.352	0.000	95	452439	50.0	53.2	
76 Carbon tetrachloride	117	7.404	7.404	0.000	97	519578	50.0	56.2	
77 1,2-Dichloroethane	62	7.526	7.526	0.000	92	473613	50.0	51.4	
79 Benzene	78	7.543	7.543	0.000	98	1170963	50.0	51.9	
14 n-Heptane	43	7.613	7.613	0.000	94	552073	50.0	53.2	
81 Trichloroethene	130	8.013	8.013	0.000	97	364666	50.0	51.2	
82 2-Pentanone	43	8.048	8.048	0.000	98	1687937	200.0	238.7	
84 1,2-Dichloropropane	63	8.187	8.187	0.000	78	306703	50.0	49.8	
85 Methylcyclohexane	55	8.205	8.205	0.000	94	477973	50.0	52.9	
86 1,4-Dioxane	88	8.240	8.240	0.000	90	58957	1000.0	1107.4	
87 Dibromomethane	93	8.292	8.292	0.000	93	233829	50.0	53.9	
88 Dichlorobromomethane	83	8.362	8.362	0.000	99	501409	50.0	54.8	
89 2-Chloroethyl vinyl ether	63	8.501	8.501	0.000	95	90646	50.0	45.0	
91 cis-1,3-Dichloropropene	75	8.675	8.675	0.000	95	526708	50.0	53.1	
92 4-Methyl-2-pentanone (MIBK	43	8.727	8.727	0.000	99	1199603	200.0	217.4	
93 Toluene	91	8.971	8.971	0.000	98	1237422	50.0	51.2	
94 Ethyl methacrylate	69	9.040	9.040	0.000	90	368051	50.0	55.0	
95 trans-1,3-Dichloropropene	75	9.058	9.058	0.000	99	461911	50.0	50.1	
96 1,1,2-Trichloroethane	97	9.214	9.214	0.000	93	268317	50.0	52.4	
97 2-Hexanone	43	9.336	9.336	0.000	97	896268	200.0	223.0	
98 1,3-Dichloropropane	76	9.354	9.354	0.000	96	452257	50.0	53.3	
99 Tetrachloroethene	164	9.389	9.389	0.000	99	307737	50.0	53.8	
100 Chlorodibromomethane	129	9.563	9.563	0.000	89	389827	50.0	56.1	
102 Ethylene Dibromide	107	9.684	9.684	0.000	98	327652	50.0	54.7	
103 1-Chlorohexane	91	9.911	9.911	0.000	97	504830	50.0	53.8	
104 Chlorobenzene	112	10.033	10.033	0.000	95	862441	50.0	52.4	
105 Ethylbenzene	106	10.067	10.067	0.000	99	431279	50.0	51.9	
106 1,1,1,2-Tetrachloroethane	131	10.067	10.067	0.000	46	335237	50.0	53.0	
107 m-Xylene & p-Xylene	91	10.137	10.137	0.000	98	1186558	50.0	54.2	
108 Styrene	104	10.468	10.468	0.000	85	856802	50.0	52.9	
109 o-Xylene	106	10.468	10.468	0.000	87	497183	50.0	49.1	
110 Bromoform	173	10.694	10.694	0.000	95	252725	50.0	48.2	
111 Isopropylbenzene	105	10.729	10.729	0.000	98	1404229	50.0	52.4	
113 Cyclohexanone	55	10.868	10.868	0.000	95	382703	2000.0	2196.7	
114 1,1,2,2-Tetrachloroethane	83	10.955	10.955	0.000	93	369707	50.0	53.4	
115 trans-1,4-Dichloro-2-buten	53	10.973	10.973	0.000	80	99917	50.0	56.1	
116 1,2,3-Trichloropropane	110	11.025	11.025	0.000	84	106565	50.0	56.2	
117 N-Propylbenzene	120	11.060	11.060	0.000	98	361376	50.0	52.7	
118 Bromobenzene	156	11.077	11.077	0.000	89	378987	50.0	51.5	
119 1,3,5-Trimethylbenzene	105	11.181	11.181	0.000	94	1155029	50.0	52.5	
120 2-Chlorotoluene	126	11.199	11.199	0.000	98	328376	50.0	51.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 4-Chlorotoluene	126	11.199	11.199	0.000	98	328376	50.0	49.1	
122 tert-Butylbenzene	119	11.477	11.477	0.000	93	1129528	50.0	51.5	
123 1,2,4-Trimethylbenzene	105	11.512	11.512	0.000	95	1169339	50.0	50.8	
124 sec-Butylbenzene	134	11.669	11.669	0.000	95	282104	50.0	51.8	
125 4-Isopropyltoluene	119	11.756	11.756	0.000	97	1277322	50.0	52.3	
126 1,3-Dichlorobenzene	146	11.843	11.843	0.000	98	678902	50.0	51.7	
128 1,4-Dichlorobenzene	146	11.913	11.913	0.000	96	665442	50.0	50.2	
129 n-Butylbenzene	91	12.139	12.139	0.000	97	1188048	50.0	51.3	
130 1,2-Dichlorobenzene	146	12.278	12.278	0.000	98	619402	50.0	51.4	
131 1,2-Dibromo-3-Chloropropan	157	13.044	13.044	0.000	88	77355	50.0	49.5	
132 1,2,4-Trichlorobenzene	180	14.019	14.019	0.000	94	438015	50.0	50.2	
133 Hexachlorobutadiene	225	14.175	14.175	0.000	98	254198	50.0	48.9	
134 Naphthalene	128	14.402	14.402	0.000	98	864253	50.0	50.4	
135 1,2,3-Trichlorobenzene	180	14.732	14.732	0.000	95	380923	50.0	49.6	
S 142 1,2-Dichloroethene, Total	96				0		100.0	105.2	
S 137 Xylenes, Total (URS)	1				0		100.0	103.3	
S 136 Trihalomethanes, Total	1				0		200.0	212.3	
S 139 1,3-Dichloropropene, Total	1				0		100.0	103.3	
S 140 1,2-Dichloroethene, Total	1				0		100.0	105.2	
S 141 Xylenes, Total	106				0		100.0	103.3	

Reagents:

MV-Main A_00022	Amount Added:	6.25	Units: uL	
MV-2cleve+AVA_00009	Amount Added:	6.25	Units: uL	
MV-Gas/Ket A_00033	Amount Added:	6.25	Units: uL	
MV-568718-D_00003	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-May-2015 23:29:17 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6913.D

Injection Date: 21-May-2015 17:01:30 Instrument ID: VMS_J Operator ID: DUKESA

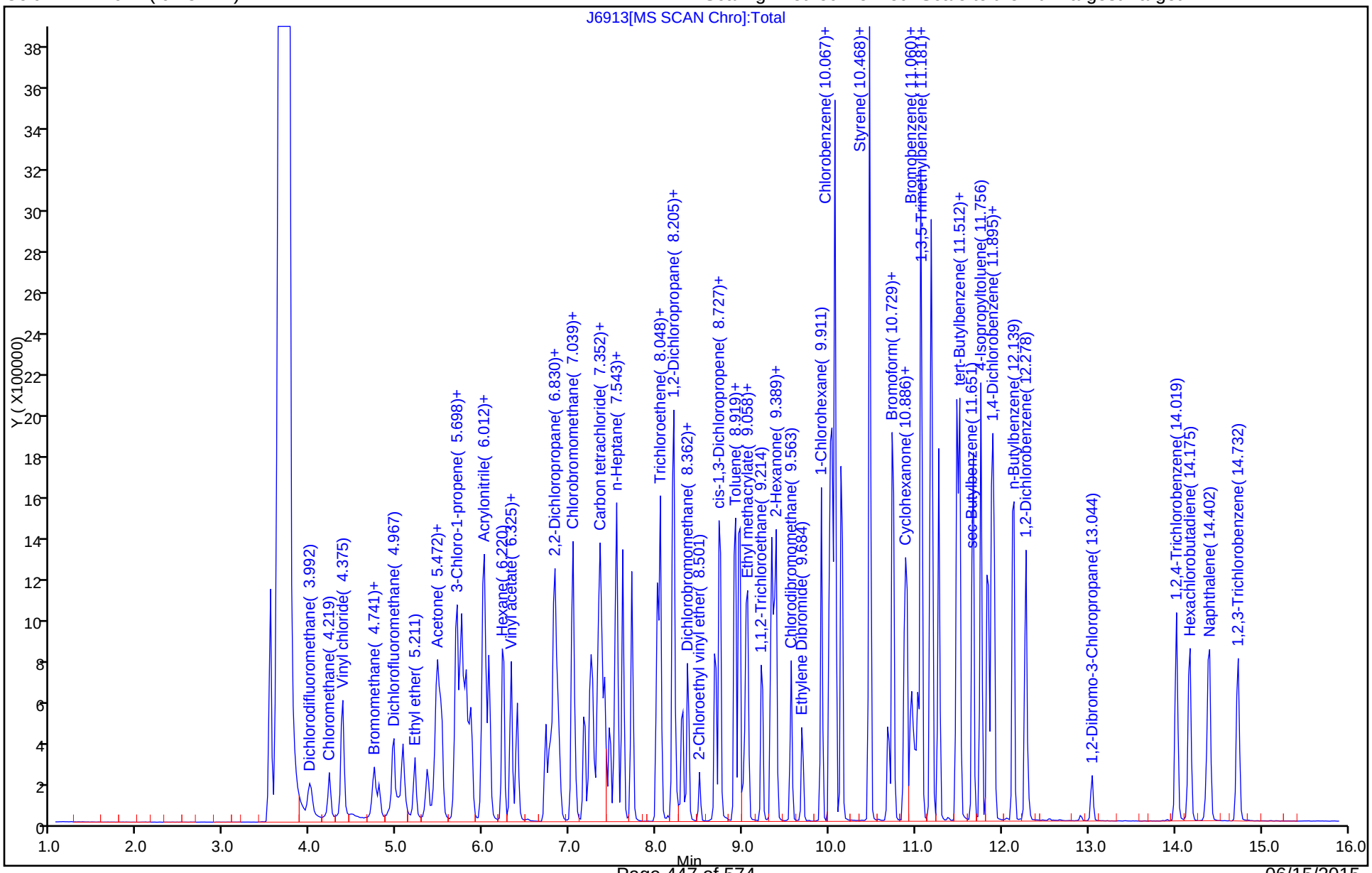
Lims ID: CCV Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-278648/11 Calibration Date: 05/21/2015 19:21

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6918.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3638		47.7	50.0	-4.6	50.0
Chloromethane	Lin1		0.3021	0.1000	45.2	50.0	-9.5	50.0
Vinyl chloride	Lin1		0.2753		46.9	50.0	-6.2	50.0
Bromomethane	Lin1		0.2400		49.3	50.0	-1.4	50.0
Chloroethane	Lin		0.1634		50.9	50.0	1.8	50.0
Dichlorofluoromethane	Lin2		0.5869		49.9	50.0	-0.1	50.0
Trichlorofluoromethane	Lin1		0.5427		49.1	50.0	-1.8	50.0
Ethyl ether	Ave	0.1777	0.2083		58.6	50.0	17.2	50.0
Acrolein	Ave	0.0248	0.0251		505	500	1.0	50.0
Acetone	Ave	0.0900	0.0931		207	200	3.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2430	0.2892		59.5	50.0	19.0	50.0
1,1-Dichloroethene	Ave	0.2969	0.3559		59.9	50.0	19.9	50.0
Iodomethane	Ave	0.6329	0.7366		58.2	50.0	16.4	50.0
Methyl acetate	Ave	0.1981	0.2171		274	250	9.6	50.0
3-Chloro-1-propene	Ave	0.5800	0.6685		57.6	50.0	15.3	50.0
Carbon disulfide	Ave	1.183	1.344		56.8	50.0	13.6	50.0
tert-Butyl alcohol	Ave	1.081	1.153		533	500	6.7	50.0
Methylene Chloride	Lin2		0.3663		56.1	50.0	12.2	50.0
Acrylonitrile	Ave	0.0836	0.0927		555	500	10.9	50.0
Methyl tert-butyl ether	Ave	0.7497	0.8264		55.1	50.0	10.2	50.0
trans-1,2-Dichloroethene	Ave	0.3111	0.3452		55.5	50.0	11.0	50.0
Hexane	Ave	1.541	1.723		55.9	50.0	11.8	50.0
Vinyl acetate	Ave	0.5016	0.5782		115	100	15.3	50.0
1,1-Dichloroethane	Ave	0.5414	0.6206	0.1000	57.3	50.0	14.6	50.0
2-Butanone (MEK)	Ave	0.1564	0.1543		197	200	-1.3	50.0
sec-Butyl Alcohol	Ave	0.8301	0.8890		1610	1500	7.1	50.0
cis-1,2-Dichloroethene	Ave	0.3291	0.3649		55.4	50.0	10.9	50.0
2,2-Dichloropropane	Ave	0.4868	0.5501		56.5	50.0	13.0	50.0
Bromochloromethane	Ave	0.1705	0.1933		56.7	50.0	13.4	50.0
Chloroform	Ave	0.5713	0.6581		57.6	50.0	15.2	50.0
Tetrahydrofuran	Lin2		0.0781		108	100	7.7	50.0
Isobutyl alcohol	Ave	0.3204	0.3444		1340	1250	7.5	50.0
1,1,1-Trichloroethane	Ave	0.4765	0.5779		60.6	50.0	21.3	50.0
Cyclohexane	Ave	0.5387	0.5753		53.4	50.0	6.8	50.0
1,1-Dichloropropene	Ave	0.4087	0.4704		57.5	50.0	15.1	50.0
Carbon tetrachloride	Ave	0.4442	0.5510		62.0	50.0	24.1	50.0
1,2-Dichloroethane	Ave	0.4428	0.4945		55.8	50.0	11.7	50.0
Benzene	Ave	1.085	1.207		55.6	50.0	11.3	50.0
Trichloroethene	Ave	0.3425	0.3768		55.0	50.0	10.0	50.0
2-Pentanone	Ave	0.3399	0.4154		244	200	22.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-278648/11 Calibration Date: 05/21/2015 19:21

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6918.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2961	0.3194		53.9	50.0	7.9	50.0
Methylcyclohexane	Lin2		0.4953		57.1	50.0	14.2	50.0
1,4-Dioxane	Ave	0.0026	0.0029		1140	1000	13.8	50.0
Dibromomethane	Ave	0.2085	0.2466		59.1	50.0	18.3	50.0
Bromodichloromethane	Ave	0.4400	0.5207		59.2	50.0	18.4	50.0
2-Chloroethyl vinyl ether	Lin1		0.0892		46.0	50.0	-7.9	50.0
cis-1,3-Dichloropropene	Ave	1.731	1.944		56.2	50.0	12.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2652	0.2798		211	200	5.5	50.0
Toluene	Ave	1.162	1.275		54.9	50.0	9.8	50.0
Ethyl methacrylate	Ave	1.168	1.267		54.2	50.0	8.5	50.0
trans-1,3-Dichloropropene	Lin1		0.4643		52.4	50.0	4.8	50.0
1,1,2-Trichloroethane	Ave	0.2460	0.2779		56.5	50.0	13.0	50.0
2-Hexanone	Ave	0.7015	0.7405		211	200	5.6	50.0
1,3-Dichloropropane	Ave	1.481	1.634		55.2	50.0	10.4	50.0
Tetrachloroethene	Ave	0.999	1.131		56.6	50.0	13.2	50.0
Chlorodibromomethane	Ave	1.213	1.463		60.3	50.0	20.6	50.0
1,2-Dibromoethane	Ave	1.046	1.183		56.5	50.0	13.0	50.0
1-Chlorohexane	Ave	1.636	1.875		57.3	50.0	14.6	50.0
Chlorobenzene	Ave	2.871	3.227	0.3000	56.2	50.0	12.4	50.0
1,1,1,2-Tetrachloroethane	Ave	1.105	1.267		57.3	50.0	14.7	50.0
Ethylbenzene	Ave	1.450	1.582		54.5	50.0	9.1	50.0
m-Xylene & p-Xylene	Lin2		4.400		57.6	50.0	15.3	50.0
o-Xylene	Ave	1.766	1.879		53.2	50.0	6.4	50.0
Styrene	Ave	2.825	3.204		56.7	50.0	13.4	50.0
Bromoform	Lin1		0.9398	0.1000	51.3	50.0	2.6	50.0
Isopropylbenzene	Ave	2.965	3.361		56.7	50.0	13.4	50.0
Cyclohexanone	Ave	0.0304	0.0318		2090	2000	4.6	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7657	0.8539	0.3000	55.8	50.0	11.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1970	0.2262		57.4	50.0	14.9	50.0
1,2,3-Trichloropropane	Ave	0.2098	0.2377		56.6	50.0	13.2	50.0
Bromobenzene	Ave	0.8142	0.9276		57.0	50.0	13.9	50.0
N-Propylbenzene	Ave	0.7590	0.8596		56.6	50.0	13.3	50.0
1,3,5-Trimethylbenzene	Ave	2.433	2.791		57.4	50.0	14.7	50.0
2-Chlorotoluene	Ave	0.7069	0.8094		57.2	50.0	14.5	50.0
4-Chlorotoluene	Ave	0.7403	0.8095		54.7	50.0	9.3	50.0
tert-Butylbenzene	Ave	2.427	2.714		55.9	50.0	11.8	50.0
1,2,4-Trimethylbenzene	Ave	2.547	2.831		55.6	50.0	11.1	50.0
sec-Butylbenzene	Ave	0.6029	0.6714		55.7	50.0	11.4	50.0
4-Isopropyltoluene	Ave	2.703	3.101		57.4	50.0	14.7	50.0
1,3-Dichlorobenzene	Ave	1.451	1.631		56.2	50.0	12.4	50.0
1,4-Dichlorobenzene	Ave	1.466	1.617		55.2	50.0	10.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Lab Sample ID: CCVC 280-278648/11 Calibration Date: 05/21/2015 19:21

Instrument ID: VMS_J Calib Start Date: 05/18/2015 17:50

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 05/18/2015 20:11

Lab File ID: J6918.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.563	2.876		56.1	50.0	12.2	50.0
1,2-Dichlorobenzene	Ave	1.332	1.493		56.0	50.0	12.1	50.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1737		50.2	50.0	0.5	50.0
1,2,4-Trichlorobenzene	Ave	0.9644	1.094		56.7	50.0	13.5	50.0
Hexachlorobutadiene	Ave	0.5752	0.6484		56.4	50.0	12.7	50.0
Naphthalene	Ave	1.898	2.073		54.6	50.0	9.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8502	0.9465		55.7	50.0	11.3	50.0
Dibromofluoromethane (Surr)	Ave	0.3629	0.3546		48.8	50.0	-2.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3773	0.3685		48.8	50.0	-2.3	50.0
Toluene-d8 (Surr)	Ave	3.687	3.638		49.3	50.0	-1.3	50.0
4-Bromofluorobenzene (Surr)	Ave	1.018	0.9917		48.7	50.0	-2.6	50.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6918.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 21-May-2015 19:21:30 ALS Bottle#: 15 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: DUKESA Instrument ID: VMS_J
Sublist: chrom-SO_VMSJ_8260*sub70

Method: \\Denchrom\ChromData\VMS_J\20150521-35307.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 21-May-2015 23:29:23 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.744	5.744	0.000	96	579678	1000.0	1000.0	
* 1 Fluorobenzene	96	7.729	7.729	0.000	97	1017832	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.009	0.000	73	287174	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.889	0.000	91	451450	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	52	360892	50.0	48.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.467	0.000	73	375066	50.0	48.8	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	85	1044813	50.0	49.3	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	79	447697	50.0	48.7	
25 Dichlorodifluoromethane	85	4.003	4.003	0.000	88	370280	50.0	47.7	
27 Chloromethane	50	4.212	4.212	0.000	99	307470	50.0	45.2	
28 Vinyl chloride	62	4.369	4.369	0.000	97	280174	50.0	46.9	
31 Bromomethane	94	4.735	4.735	0.000	94	244277	50.0	49.3	
32 Chloroethane	64	4.804	4.804	0.000	97	166280	50.0	50.9	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	94	597395	50.0	49.9	
34 Trichlorofluoromethane	101	5.065	5.065	0.000	83	552348	50.0	49.1	
37 Ethyl ether	59	5.205	5.205	0.000	94	212000	50.0	58.6	
40 Acrolein	56	5.361	5.361	0.000	89	255415	499.9	505.0	
41 Acetone	43	5.466	5.466	0.000	97	379188	200.0	206.9	
42 1,1,2-Trichloro-1,2,2-trif	151	5.483	5.483	0.000	96	294344	50.0	59.5	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	89	362198	50.0	59.9	
46 Iodomethane	142	5.692	5.692	0.000	70	749772	50.0	58.2	
48 Methyl acetate	43	5.692	5.692	0.000	78	1104808	250.0	274.0	
49 3-Chloro-1-propene	41	5.762	5.762	0.000	72	680415	50.0	57.6	
51 Carbon disulfide	76	5.796	5.796	0.000	99	1368134	50.0	56.8	
50 2-Methyl-2-propanol	59	5.796	5.796	0.000	2	334304	500.0	533.3	
52 Methylene Chloride	84	5.866	5.866	0.000	77	372846	50.0	56.1	
53 Acrylonitrile	53	6.005	6.005	0.000	97	943882	500.0	554.6	
54 Methyl tert-butyl ether	73	6.023	6.023	0.000	91	841118	50.0	55.1	
55 trans-1,2-Dichloroethene	96	6.075	6.075	0.000	95	351336	50.0	55.5	
56 Hexane	57	6.232	6.232	0.000	70	494777	50.0	55.9	
57 Vinyl acetate	43	6.319	6.319	0.000	97	1177033	100.0	115.3	
59 1,1-Dichloroethane	63	6.388	6.388	0.000	86	631628	50.0	57.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
63 2-Butanone (MEK)	43	6.771	6.771	0.000	97	628358	200.0	197.4	
64 sec-Butyl Alcohol	45	6.823	6.823	0.000	92	773014	1500.0	1606.4	
65 cis-1,2-Dichloroethene	96	6.841	6.841	0.000	68	371391	50.0	55.4	
67 2,2-Dichloropropane	77	6.858	6.858	0.000	86	559929	50.0	56.5	
69 Chlorobromomethane	128	7.032	7.032	0.000	74	196772	50.0	56.7	
70 Chloroform	83	7.050	7.050	0.000	95	669787	50.0	57.6	
71 Tetrahydrofuran	42	7.067	7.067	0.000	84	158937	100.0	107.7	
72 Isobutyl alcohol	41	7.241	7.241	0.000	43	249551	1250.0	1343.6	
73 1,1,1-Trichloroethane	97	7.259	7.259	0.000	82	588248	50.0	60.6	
74 Cyclohexane	56	7.346	7.346	0.000	78	585584	50.0	53.4	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	88	478754	50.0	57.5	
76 Carbon tetrachloride	117	7.415	7.415	0.000	67	560855	50.0	62.0	
77 1,2-Dichloroethane	62	7.537	7.537	0.000	68	503263	50.0	55.8	
79 Benzene	78	7.555	7.555	0.000	96	1228532	50.0	55.6	
14 n-Heptane	43	7.624	7.624	0.000	92	588330	50.0	58.0	
81 Trichloroethene	130	8.024	8.024	0.000	90	383509	50.0	55.0	
82 2-Pentanone	43	8.059	8.059	0.000	98	1691328	200.0	244.4	
84 1,2-Dichloropropane	63	8.199	8.199	0.000	72	325052	50.0	53.9	
85 Methylcyclohexane	55	8.199	8.199	0.000	85	504077	50.0	57.1	
86 1,4-Dioxane	88	8.251	8.251	0.000	94	59292	1000.0	1138.2	
87 Dibromomethane	93	8.303	8.303	0.000	82	251021	50.0	59.1	
88 Dichlorobromomethane	83	8.373	8.373	0.000	85	530006	50.0	59.2	
89 2-Chloroethyl vinyl ether	63	8.512	8.512	0.000	93	90832	50.0	46.0	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	86	558247	50.0	56.2	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	98	1139164	200.0	211.0	
93 Toluene	91	8.964	8.964	0.000	90	1298013	50.0	54.9	
94 Ethyl methacrylate	69	9.034	9.034	0.000	92	363966	50.0	54.2	
95 trans-1,3-Dichloropropene	75	9.069	9.069	0.000	92	472541	50.0	52.4	
96 1,1,2-Trichloroethane	97	9.226	9.226	0.000	88	282874	50.0	56.5	
97 2-Hexanone	43	9.330	9.330	0.000	90	850654	200.0	211.1	
98 1,3-Dichloropropane	76	9.365	9.365	0.000	92	469281	50.0	55.2	
99 Tetrachloroethene	164	9.382	9.382	0.000	88	324769	50.0	56.6	
100 Chlorodibromomethane	129	9.556	9.556	0.000	87	420097	50.0	60.3	
102 Ethylene Dibromide	107	9.696	9.696	0.000	98	339613	50.0	56.5	
103 1-Chlorohexane	91	9.922	9.922	0.000	91	538338	50.0	57.3	
104 Chlorobenzene	112	10.044	10.044	0.000	97	926776	50.0	56.2	
105 Ethylbenzene	106	10.079	10.079	0.000	92	454263	50.0	54.5	
106 1,1,1,2-Tetrachloroethane	131	10.079	10.079	0.000	32	363927	50.0	57.3	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	98	1263556	50.0	57.6	
108 Styrene	104	10.479	10.479	0.000	88	920112	50.0	56.7	
109 o-Xylene	106	10.479	10.479	0.000	87	539731	50.0	53.2	
110 Bromoform	173	10.688	10.688	0.000	94	269888	50.0	51.3	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	1517517	50.0	56.7	
113 Cyclohexanone	55	10.879	10.879	0.000	85	365247	2000.0	2091.3	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	44	385494	50.0	55.8	
115 trans-1,4-Dichloro-2-buten	53	10.984	10.984	0.000	71	102124	50.0	57.4	
116 1,2,3-Trichloropropane	110	11.019	11.019	0.000	69	107285	50.0	56.6	
117 N-Propylbenzene	120	11.071	11.071	0.000	93	388081	50.0	56.6	
118 Bromobenzene	156	11.071	11.071	0.000	62	418743	50.0	57.0	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	90	1259847	50.0	57.4	
120 2-Chlorotoluene	126	11.193	11.193	0.000	94	365410	50.0	57.2	
121 4-Chlorotoluene	126	11.280	11.280	0.000	96	365436	50.0	54.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 tert-Butylbenzene	119	11.488	11.488	0.000	91	1225054	50.0	55.9	
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	92	1277878	50.0	55.6	
124 sec-Butylbenzene	134	11.663	11.663	0.000	94	303101	50.0	55.7	
125 4-Isopropyltoluene	119	11.750	11.750	0.000	88	1400155	50.0	57.4	
126 1,3-Dichlorobenzene	146	11.837	11.837	0.000	82	736499	50.0	56.2	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	92	730207	50.0	55.2	
129 n-Butylbenzene	91	12.133	12.133	0.000	94	1298281	50.0	56.1	
130 1,2-Dichlorobenzene	146	12.272	12.272	0.000	95	673787	50.0	56.0	
131 1,2-Dibromo-3-Chloropropan	157	13.038	13.038	0.000	80	78437	50.0	50.2	
132 1,2,4-Trichlorobenzene	180	14.013	14.013	0.000	94	493958	50.0	56.7	
133 Hexachlorobutadiene	225	14.169	14.169	0.000	95	292722	50.0	56.4	
134 Naphthalene	128	14.395	14.395	0.000	98	935679	50.0	54.6	
135 1,2,3-Trichlorobenzene	180	14.726	14.726	0.000	94	427287	50.0	55.7	
S 142 1,2-Dichloroethene, Total	96				0		100.0	110.9	
S 137 Xylenes, Total (URS)	1				0		100.0	110.8	
S 136 Trihalomethanes, Total	1				0		200.0	228.4	
S 139 1,3-Dichloropropene, Total	1				0		100.0	108.6	
S 140 1,2-Dichloroethene, Total	1				0		100.0	110.9	
S 141 Xylenes, Total	106				0		100.0	110.8	

Reagents:

MV-2cleve+AVA_00009	Amount Added:	6.25	Units: uL	
MV-Gas/Ket A_00033	Amount Added:	6.25	Units: uL	
MV-Main A_00022	Amount Added:	6.25	Units: uL	
MV-568718-D_00003	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-May-2015 23:29:23 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6918.D

Injection Date: 21-May-2015 19:21:30 Instrument ID: VMS_J Operator ID: DUKESA

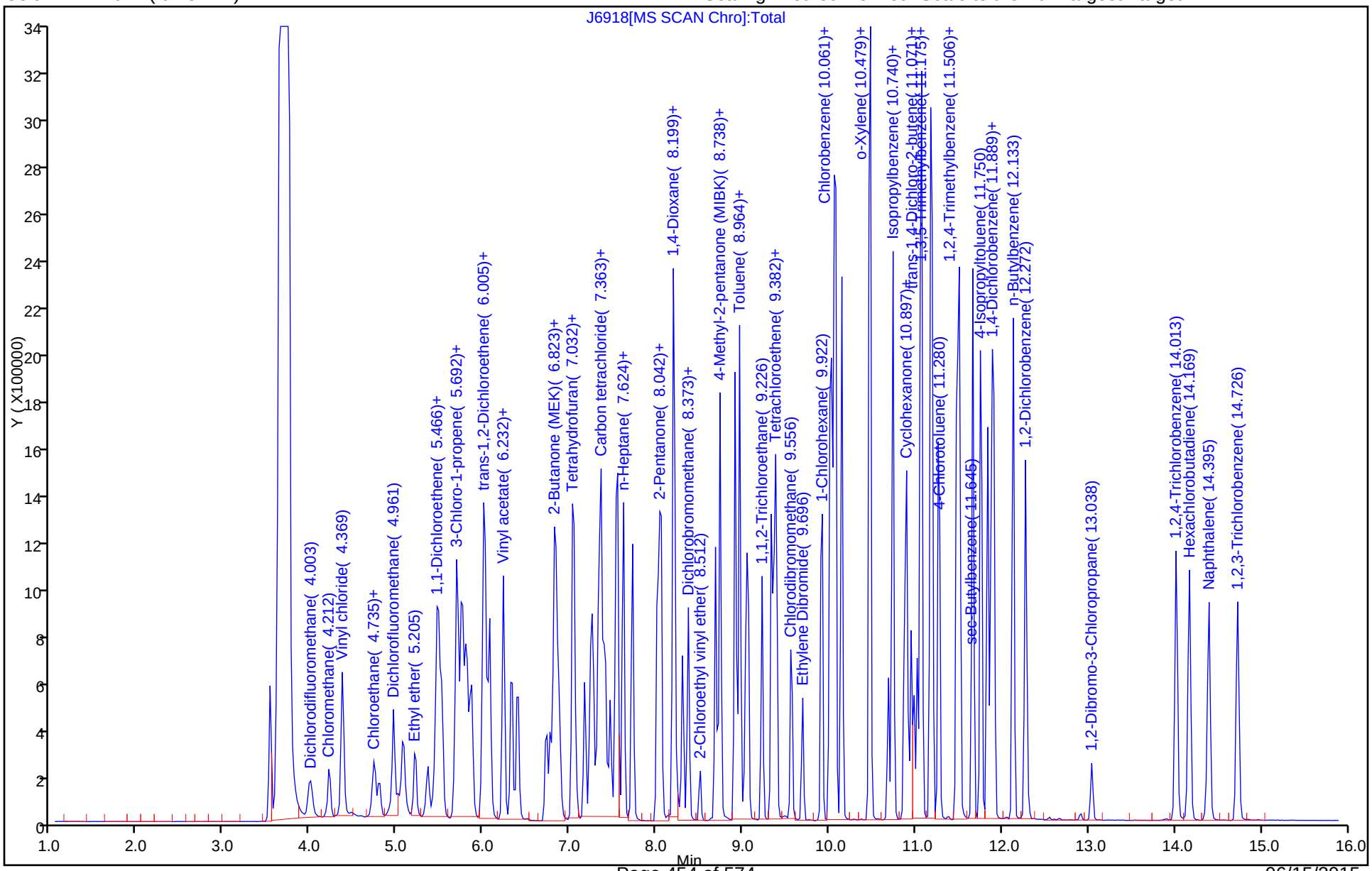
Lims ID: CCVC Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2946.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-May-2015 23:12:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	bfb				
Operator ID:	BERGERB	Instrument ID:	VMS_H		
Method:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\AQ_VMSH_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	28-May-2015 07:24:25	Calib Date:	28-May-2015 05:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D				
Column 1 :	DB-624 (75.53) (0.53 mm)		Det: MS SCAN		
Process Host:	XAWRK018				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 7 BFB	95	2.473	2.473	0.000	80	242466	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

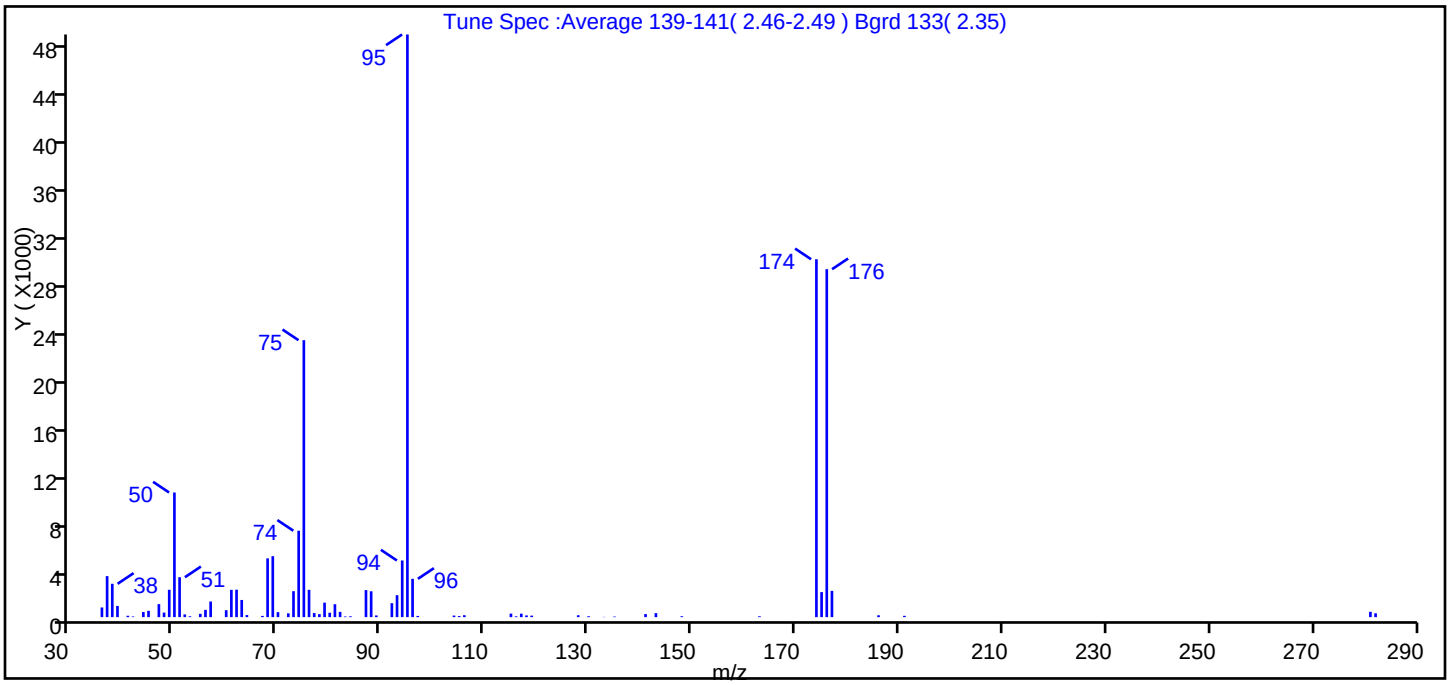
MV-BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2946.D				
Injection Date:	27-May-2015 23:12:30	Instrument ID:	VMS_H		
Lims ID:	BFB				
Client ID:					
Operator ID:	BERGERB	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Tune Method:	BFB Method 8260				

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	61.4
175	5 to 9% of m/z 174	4.3 (7.0)
176	Greater than 95% but less than 101% of m/z 174	59.7 (97.2)
177	5 to 9% of m/z 176	4.5 (7.5)

Data File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2946.D\AQ_VMSH_8260.rslt\spectra.d
Injection Date: 27-May-2015 23:12:30
Spectrum: Tune Spec :Average 139-141(2.46-2.49) Bgrd 133(2.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	809	61.00	2285	83.00	52	128.00	159
37.00	3436	62.00	2299	84.00	69	130.00	74
38.00	2792	63.00	1438	87.00	2266	133.00	20
39.00	939	64.00	173	88.00	2165	135.00	48
41.00	117	67.00	104	89.00	142	141.00	257
42.00	54	68.00	4921	92.00	1170	143.00	334
44.00	430	69.00	5103	93.00	1837	148.00	76
45.00	530	70.00	417	94.00	4743	163.00	72
47.00	1090	72.00	320	95.00	48776	170.00	1
48.00	381	73.00	2173	96.00	3207	174.00	29960
49.00	2291	74.00	7234	97.00	103	175.00	2097
50.00	10434	75.00	23184	104.00	132	176.00	29128
51.00	3342	76.00	2287	105.00	89	177.00	2198
52.00	227	77.00	342	106.00	160	186.00	156
53.00	70	78.00	250	115.00	296	191.00	111
55.00	277	79.00	1215	116.00	67	281.00	446
56.00	610	80.00	368	117.00	292	282.00	322
57.00	1309	81.00	1081	118.00	144		
60.00	584	82.00	442	119.00	128		

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3061.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	29-May-2015 20:39:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	bergerb	Instrument ID:	VMS_H		
Method:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jun-2015 17:38:27	Calib Date:	28-May-2015 05:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D				
Column 1 :	DB-624 (75.53) (0.53 mm)		Det: MS SCAN		
Process Host:	XAWRK021				

First Level Reviewer: bergerb Date: 01-Jun-2015 17:38:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 7 BFB	95	2.474	2.474	0.000	79	274789	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

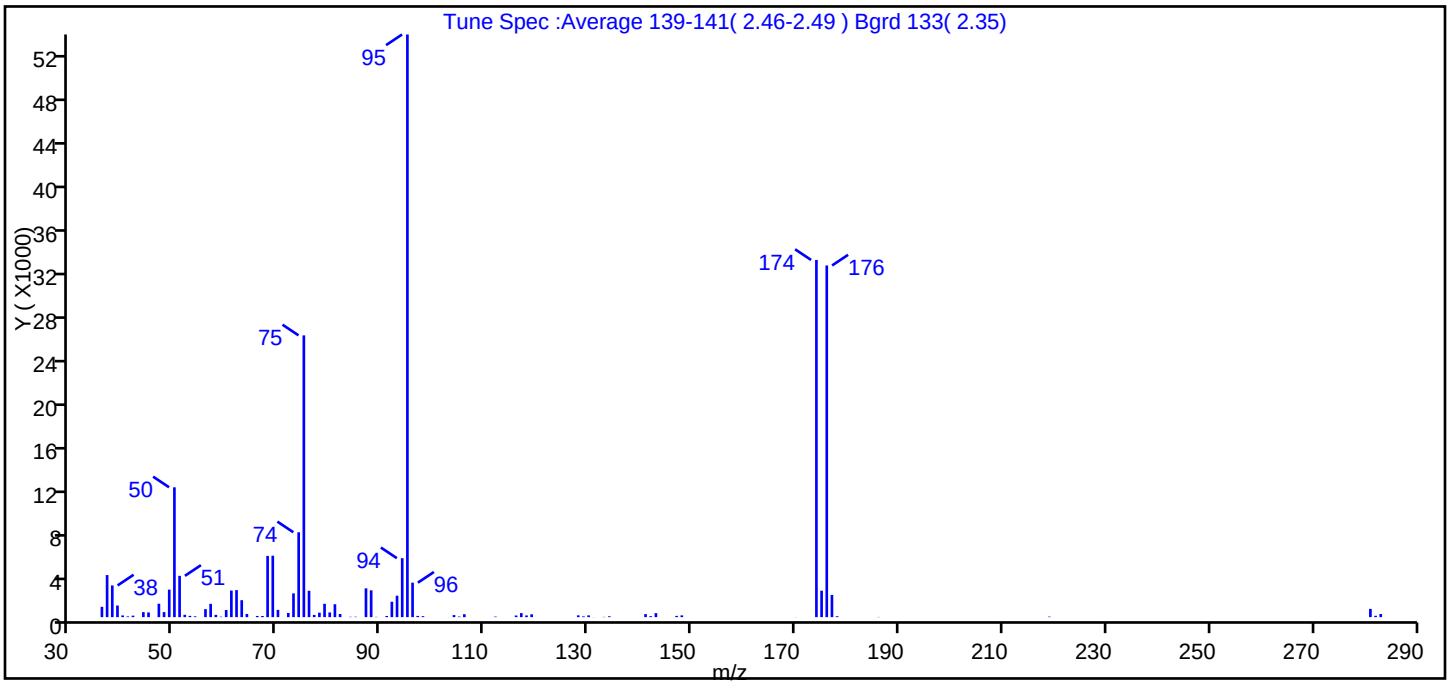
MV-BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3061.D				
Injection Date:	29-May-2015 20:39:30	Instrument ID:	VMS_H		
Lims ID:	BFB				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Tune Method:	BFB Method 8260				

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.3
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	5.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	61.3
175	5 to 9% of m/z 174	4.5 (7.4)
176	Greater than 95% but less than 101% of m/z 174	60.4 (98.5)
177	5 to 9% of m/z 176	3.8 (6.3)

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3061.D\AQ_VMSH_8260.rslt\spectra.d
Injection Date: 29-May-2015 20:39:30
Spectrum: Tune Spec :Average 139-141(2.46-2.49) Bgrd 133(2.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	957	61.00	2461	87.00	2669	130.00	165
37.00	3897	62.00	2504	88.00	2484	131.00	9
38.00	2938	63.00	1570	89.00	25	133.00	23
39.00	1077	64.00	295	91.00	106	134.00	79
40.00	159	66.00	110	92.00	1426	141.00	280
41.00	67	67.00	105	93.00	1985	142.00	89
42.00	139	68.00	5669	94.00	5459	143.00	369
44.00	464	69.00	5691	95.00	53960	147.00	116
45.00	434	70.00	674	96.00	3193	148.00	164
47.00	1243	72.00	387	97.00	115	170.00	8
48.00	468	73.00	2201	98.00	89	174.00	33080
49.00	2546	74.00	7861	103.00	7	175.00	2452
50.00	12025	75.00	26096	104.00	191	176.00	32568
51.00	3826	76.00	2443	105.00	54	177.00	2057
52.00	217	77.00	203	106.00	269	178.00	84
53.00	117	78.00	413	112.00	49	186.00	19
54.00	75	79.00	1240	116.00	152	219.00	48
56.00	742	80.00	434	117.00	374	281.00	765
57.00	1232	81.00	1195	118.00	157	282.00	125
58.00	212	82.00	291	119.00	263	283.00	290
59.00	43	84.00	31	128.00	167		
60.00	662	85.00	38	129.00	71		

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6294.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	29-Apr-2015 10:33:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	MEIERG	Instrument ID:	VMS_J		
Method:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\SO_VMSJ_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	30-Apr-2015 17:13:09	Calib Date:	29-Apr-2015 17:21:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6312.D				
Column 1 :	DB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

First Level Reviewer: meierg Date: 29-Apr-2015 11:19:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 4 BFB	95	4.964	4.964	0.000	0	60326	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

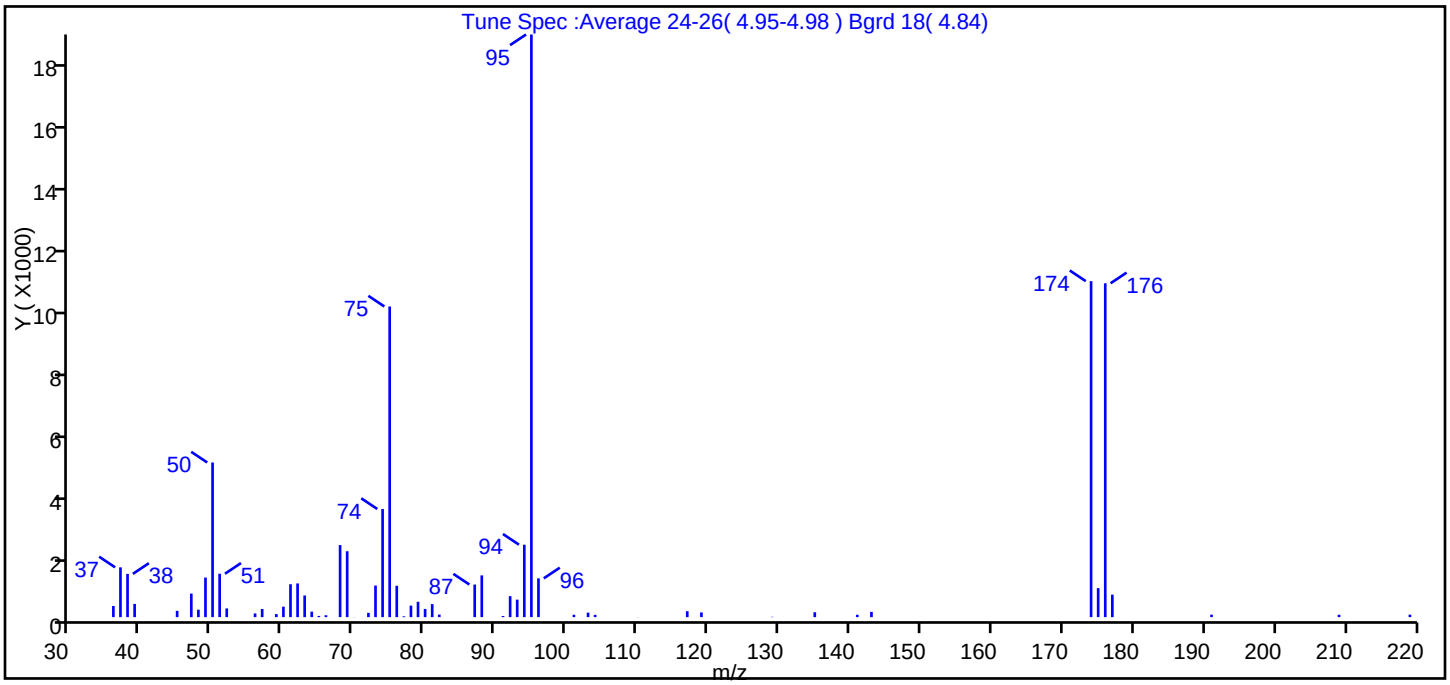
MV-BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150429-34468.b\J6294.D				
Injection Date:	29-Apr-2015 10:33:30	Instrument ID:	VMS_J		
Lims ID:	BFB				
Client ID:					
Operator ID:	MEIERG	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Tune Method:	BFB Method 8260				

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.5
75	30 to 60% of m/z 95	53.3
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	57.7
175	5 to 9% of m/z 174	5.0 (8.6)
176	Greater than 95% but less than 101% of m/z 174	57.3 (99.4)
177	5 to 9% of m/z 176	3.9 (6.8)

Data File: \\Denchrom\ChromData\VMS_J\20150429-34468.b\J6294.D\SO_VMSJ_8260.rslt\spectra.d
Injection Date: 29-Apr-2015 10:33:30
Spectrum: Tune Spec :Average 24-26(4.95-4.98) Bgrd 18(4.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	345	61.00	1018	78.00	357	104.00	71
37.00	1540	62.00	1043	79.00	475	110.00	4
38.00	1338	63.00	670	80.00	254	117.00	184
39.00	409	64.00	171	81.00	403	119.00	146
45.00	194	65.00	38	82.00	79	129.00	10
47.00	728	66.00	59	87.00	1008	135.00	151
48.00	231	68.00	2229	88.00	1291	141.00	74
49.00	1224	69.00	2038	91.00	35	143.00	163
50.00	4782	70.00	4	92.00	649	174.00	10389
51.00	1342	72.00	133	93.00	541	175.00	897
52.00	269	73.00	977	94.00	2240	176.00	10323
56.00	115	74.00	3344	95.00	18016	177.00	697
57.00	252	75.00	9605	96.00	1200	191.00	78
59.00	95	76.00	970	101.00	74	209.00	74
60.00	324	77.00	26	103.00	139	219.00	77

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6808.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	18-May-2015 16:31:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	DUKESA	Instrument ID:	VMS_J		
Method:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\SO_VMSJ_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	19-May-2015 18:48:33	Calib Date:	18-May-2015 20:11:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D				
Column 1 :	DB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK002				

First Level Reviewer: dukesa Date: 18-May-2015 16:49:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 4 BFB	95	4.962	4.962	0.000	0	40357	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

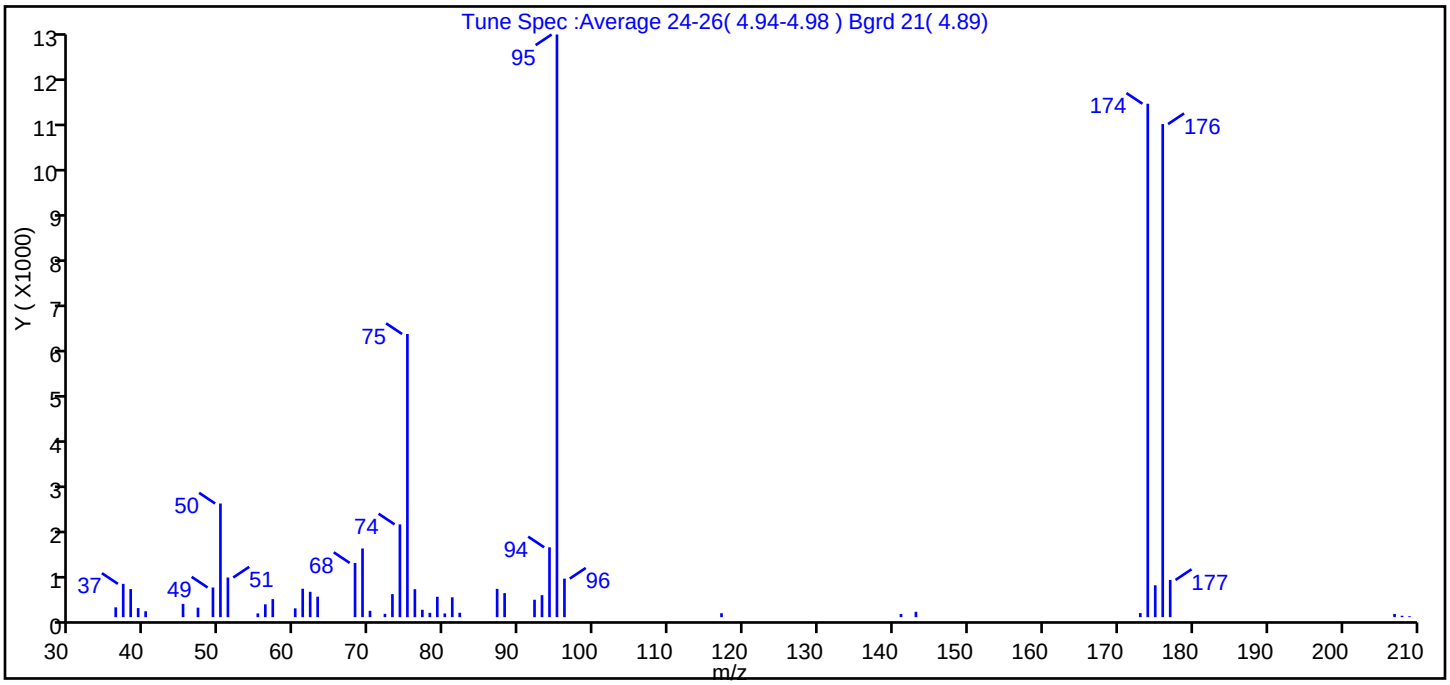
MV-BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6808.D				
Injection Date:	18-May-2015 16:31:30	Instrument ID:	VMS_J		
Lims ID:	BFB				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Tune Method:	BFB Method 8260				

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.5
75	30 to 60% of m/z 95	48.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	88.1
175	5 to 9% of m/z 174	5.5 (6.2)
176	Greater than 95% but less than 101% of m/z 174	84.6 (96.0)
177	5 to 9% of m/z 176	6.4 (7.5)

Data File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6808.D\SO_VMSJ_8260.rslt\spectra.d
Injection Date: 18-May-2015 16:31:30
Spectrum: Tune Spec :Average 24-26(4.94-4.98) Bgrd 21(4.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	212	60.00	190	78.00	93	141.00	68
37.00	719	61.00	613	79.00	440	143.00	116
38.00	606	62.00	547	80.00	80	173.00	88
39.00	196	63.00	442	81.00	428	174.00	11087
40.00	127	68.00	1170	82.00	95	175.00	688
45.00	286	69.00	1483	87.00	610	176.00	10648
47.00	205	70.00	137	88.00	519	177.00	803
49.00	640	72.00	72	92.00	376	207.00	70
50.00	2454	73.00	497	93.00	475	208.00	30
51.00	856	74.00	2003	94.00	1508	209.00	19
55.00	81	75.00	6115	95.00	12583		
56.00	277	76.00	604	96.00	832		
57.00	389	77.00	159	117.00	85		

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6846.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	19-May-2015 17:03:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	DUKESA	Instrument ID:	VMS_J		
Method:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	20-May-2015 17:58:35	Calib Date:	18-May-2015 20:11:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D				
Column 1 :	DB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK020				

First Level Reviewer: dukesa Date: 19-May-2015 17:15:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 4 BFB	95	4.963	4.963	0.000	0	85536	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

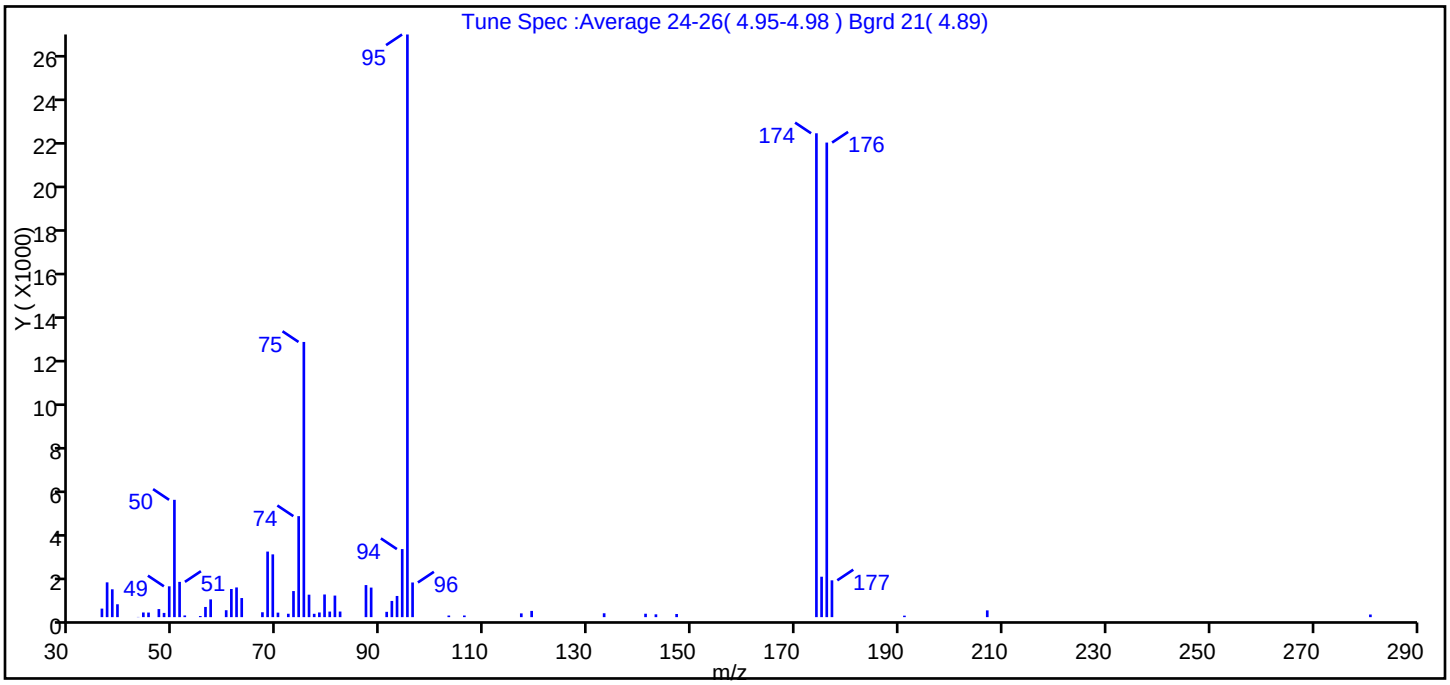
MV-BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150519-35203.b\J6846.D				
Injection Date:	19-May-2015 17:03:30	Instrument ID:	VMS_J		
Lims ID:	BFB				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Tune Method:	BFB Method 8260				

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	5.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	83.0
175	5 to 9% of m/z 174	6.9 (8.4)
176	Greater than 95% but less than 101% of m/z 174	81.4 (98.1)
177	5 to 9% of m/z 176	6.3 (7.8)

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6846.D\SO_VMSJ_8260.rslt\spectra.d
Injection Date: 19-May-2015 17:03:30
Spectrum: Tune Spec :Average 24-26(4.95-4.98) Bgrd 21(4.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	390	57.00	811	78.00	213	117.00	172
37.00	1589	60.00	316	79.00	1035	119.00	285
38.00	1272	61.00	1285	80.00	255	133.00	177
39.00	588	62.00	1356	81.00	985	141.00	156
43.00	9	63.00	872	82.00	256	143.00	129
44.00	213	67.00	223	87.00	1464	147.00	144
45.00	209	68.00	2994	88.00	1350	174.00	22096
47.00	368	69.00	2867	91.00	243	175.00	1846
48.00	193	70.00	206	92.00	740	176.00	21672
49.00	1408	72.00	155	93.00	967	177.00	1681
50.00	5358	73.00	1191	94.00	3108	191.00	68
51.00	1611	74.00	4612	95.00	26608	207.00	309
52.00	77	75.00	12567	96.00	1583	281.00	120
55.00	51	76.00	1026	103.00	73		
56.00	465	77.00	153	106.00	75		

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_J\20150521-35307.b\J6912.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	21-May-2015 16:32:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	DUKESA	Instrument ID:	VMS_J		
Method:	\\Denchrom\ChromData\VMS_J\20150521-35307.b\SO_VMSJ_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	21-May-2015 23:29:16	Calib Date:	18-May-2015 20:11:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D				
Column 1 :	DB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK020				

First Level Reviewer: dukesa Date: 21-May-2015 17:15:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 4 BFB	95	4.966	4.966	0.000	0	45698	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

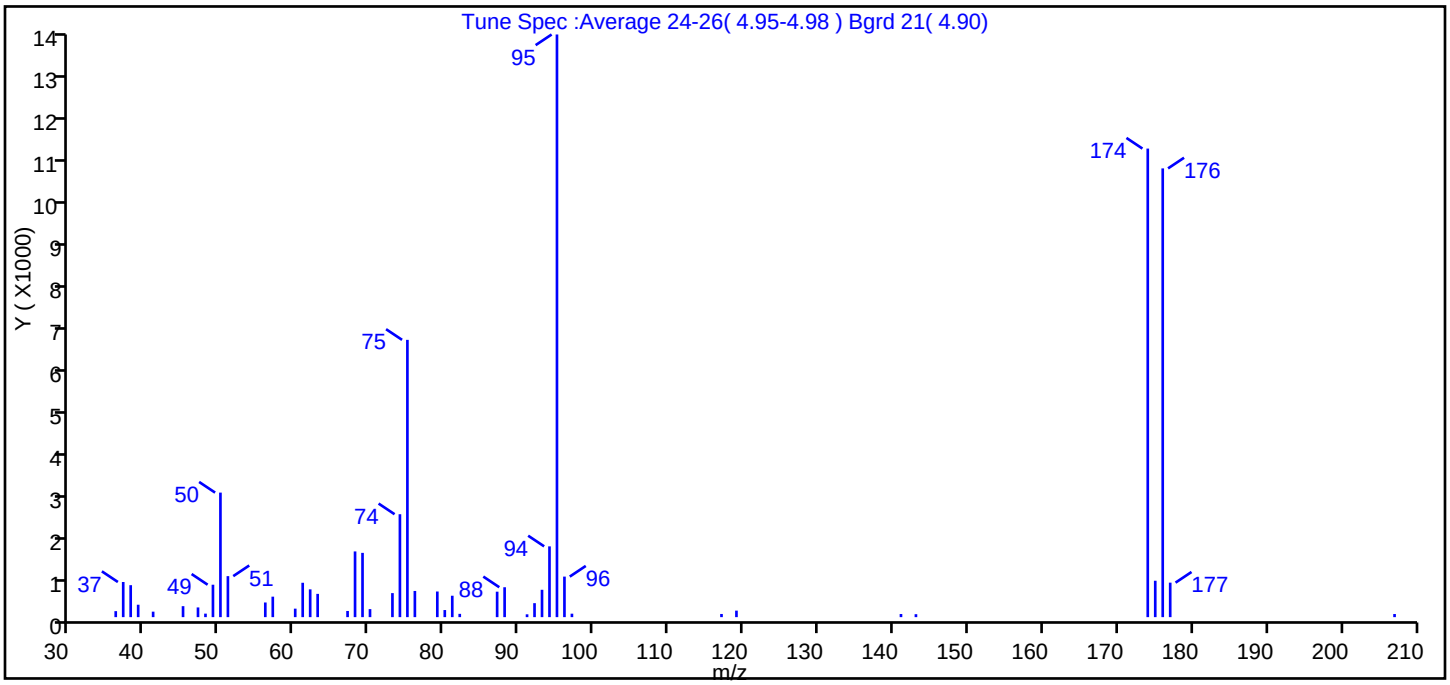
MV-BFB_00018 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_J\20150521-35307.b\J6912.D				
Injection Date:	21-May-2015 16:32:30	Instrument ID:	VMS_J		
Lims ID:	BFB				
Client ID:					
Operator ID:	DUKESA	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	SO_VMSJ_8260	Limit Group:	MSV - 8260B Water and Solid		
Tune Method:	BFB Method 8260				

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	47.6
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.4
175	5 to 9% of m/z 174	6.2 (7.8)
176	Greater than 95% but less than 101% of m/z 174	77.0 (95.8)
177	5 to 9% of m/z 176	5.9 (7.7)

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6912.D\SO_VMSJ_8260.rslt\spectra.d
Injection Date: 21-May-2015 16:32:30
Spectrum: Tune Spec :Average 24-26(4.95-4.98) Bgrd 21(4.90)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	142	57.00	485	76.00	620	96.00	960
37.00	832	60.00	201	79.00	607	97.00	82
38.00	757	61.00	814	80.00	168	117.00	75
39.00	294	62.00	658	81.00	507	119.00	154
41.00	130	63.00	551	82.00	78	141.00	74
45.00	260	67.00	146	87.00	603	143.00	70
47.00	230	68.00	1556	88.00	708	174.00	11095
48.00	83	69.00	1522	91.00	67	175.00	862
49.00	768	70.00	190	92.00	331	176.00	10626
50.00	2949	73.00	569	93.00	648	177.00	817
51.00	971	74.00	2437	94.00	1676	207.00	74
56.00	347	75.00	6566	95.00	13797		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 280-278302/1-A
Matrix: Solid | Lab File ID: J6849.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/19/2015 18:11
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.6	U	5.0	1.6	0.56
71-55-6	1,1,1-Trichloroethane	1.6	U	5.0	1.6	0.52
79-34-5	1,1,2,2-Tetrachloroethane	1.6	U	5.0	1.6	0.61
79-00-5	1,1,2-Trichloroethane	3.2	U	5.0	3.2	0.88
75-34-3	1,1-Dichloroethane	0.80	U	5.0	0.80	0.21
75-35-4	1,1-Dichloroethene	1.6	U	5.0	1.6	0.59
563-58-6	1,1-Dichloropropene	1.6	U	5.0	1.6	0.54
87-61-6	1,2,3-Trichlorobenzene	1.6	U	5.0	1.6	0.75
96-18-4	1,2,3-Trichloropropane	3.2	U	5.0	3.2	0.81
120-82-1	1,2,4-Trichlorobenzene	1.6	U	5.0	1.6	0.73
95-63-6	1,2,4-Trimethylbenzene	1.6	U	5.0	1.6	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	10	1.6	0.60
95-50-1	1,2-Dichlorobenzene	1.6	U	5.0	1.6	0.45
107-06-2	1,2-Dichloroethane	1.6	U	5.0	1.6	0.70
78-87-5	1,2-Dichloropropane	1.6	U	5.0	1.6	0.55
108-67-8	1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	0.57
541-73-1	1,3-Dichlorobenzene	1.6	U	5.0	1.6	0.48
142-28-9	1,3-Dichloropropane	1.6	U	5.0	1.6	0.51
106-46-7	1,4-Dichlorobenzene	1.6	U	5.0	1.6	0.78
594-20-7	2,2-Dichloropropane	1.6	U	5.0	1.6	0.44
78-93-3	2-Butanone (MEK)	6.4	U	20	6.4	1.8
95-49-8	2-Chlorotoluene	1.6	U	5.0	1.6	0.51
591-78-6	2-Hexanone	13	U	20	13	4.9
106-43-4	4-Chlorotoluene	1.6	U	5.0	1.6	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	20	13	4.4
67-64-1	Acetone	13	U	20	13	5.4
71-43-2	Benzene	1.6	U	5.0	1.6	0.47
108-86-1	Bromobenzene	1.6	U	5.0	1.6	0.49
74-97-5	Bromochloromethane	0.80	U	5.0	0.80	0.30
75-27-4	Bromodichloromethane	0.80	U	5.0	0.80	0.22
75-25-2	Bromoform	0.80	U	5.0	0.80	0.23
74-83-9	Bromomethane	1.6	U	10	1.6	0.50
75-15-0	Carbon disulfide	1.6	U	5.0	1.6	0.42
56-23-5	Carbon tetrachloride	1.6	U	5.0	1.6	0.63
108-90-7	Chlorobenzene	1.6	U	5.0	1.6	0.54
75-00-3	Chloroethane	3.2	U	10	3.2	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 280-278302/1-A
Matrix: Solid | Lab File ID: J6849.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/19/2015 18:11
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-66-3	Chloroform	0.80	U	10	0.80	0.29
74-87-3	Chloromethane	1.6	U	10	1.6	0.77
156-59-2	cis-1,2-Dichloroethene	1.6	U	5.0	1.6	0.56
124-48-1	Chlorodibromomethane	1.6	U	5.0	1.6	0.57
10061-01-5	cis-1,3-Dichloropropene	3.2	U	5.0	3.2	1.3
74-95-3	Dibromomethane	3.2	U	5.0	3.2	0.84
75-71-8	Dichlorodifluoromethane	1.6	U	10	1.6	0.52
100-41-4	Ethylbenzene	1.6	U	5.0	1.6	0.67
106-93-4	1,2-Dibromoethane	1.6	U	5.0	1.6	0.52
87-68-3	Hexachlorobutadiene	1.6	U	5.0	1.6	0.55
98-82-8	Isopropylbenzene	1.6	U	5.0	1.6	0.59
1634-04-4	Methyl tert-butyl ether	0.80	U	20	0.80	0.34
75-09-2	Methylene Chloride	3.2	U	5.0	3.2	1.6
179601-23-1	m-Xylene & p-Xylene	3.2	U	3.2	3.2	1.0
91-20-3	Naphthalene	1.6	U	5.0	1.6	0.63
104-51-8	n-Butylbenzene	1.6	U	5.0	1.6	0.56
103-65-1	N-Propylbenzene	1.6	U	5.0	1.6	0.58
95-47-6	o-Xylene	1.6	U	5.0	1.6	0.61
99-87-6	p-Isopropyltoluene	1.6	U	5.0	1.6	0.49
135-98-8	sec-Butylbenzene	1.6	U	5.0	1.6	0.77
100-42-5	Styrene	1.6	U	5.0	1.6	0.63
75-65-0	tert-Butyl alcohol	32	U	200	32	13
98-06-6	tert-Butylbenzene	1.6	U	5.0	1.6	0.50
127-18-4	Tetrachloroethene	1.6	U	5.0	1.6	0.59
108-88-3	Toluene	1.6	U	5.0	1.6	0.69
156-60-5	trans-1,2-Dichloroethene	0.80	U	5.0	0.80	0.39
10061-02-6	trans-1,3-Dichloropropene	1.6	U	5.0	1.6	0.67
79-01-6	Trichloroethene	0.80	U	5.0	0.80	0.23
75-69-4	Trichlorofluoromethane	3.2	U	10	3.2	1.0
75-01-4	Vinyl chloride	3.2	U	5.0	3.2	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-278302/1-A

Matrix: Solid | Lab File ID: J6849.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/19/2015 18:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

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

Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		71-136
460-00-4	4-Bromofluorobenzene (Surr)	94		79-119
1868-53-7	Dibromofluoromethane (Surr)	98		78-119
2037-26-5	Toluene-d8 (Surr)	99		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6849.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 19-May-2015 18:11:30 ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 19-May-2015 18:59:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051					ND	
* 150 TBA-d9 (IS)	65	5.732	5.732	0.000	100	673570	1000.0	1000.0	
* 1 Fluorobenzene	96	7.734	7.734	0.000	98	1125120	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.014	10.014	0.000	86	320930	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.877	11.877	0.000	97	512136	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.177	7.172	0.005	92	402070	50.0	49.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.473	7.468	0.005	98	408422	50.0	48.1	
$ 7 Toluene-d8 (Surr)	98	8.918	8.912	0.006	93	1177226	50.0	49.7	
$ 8 4-Bromofluorobenzene (Surr	95	10.902	10.897	0.005	93	490735	50.0	47.1	
$ 152 Trifluorotoluene (Surr)	1		0.000					ND	
$ 4 BFB	95		4.997					ND	
24 Chlorotrifluoroethene	116		3.940					ND	
25 Dichlorodifluoromethane	85		4.004					ND	
26 1,2-Dichloro-1,1,2,2-tetra	85		4.149					ND	
27 Chloromethane	50		4.212					ND	
28 Vinyl chloride	62		4.369					ND	
29 2-Chloro-1,1,1-Trifluoroet	118		4.410					ND	
30 Ethylene oxide	43		4.671					ND	
31 Bromomethane	94		4.735					ND	
32 Chloroethane	64		4.787					ND	
33 Dichlorofluoromethane	67		4.961					ND	
35 Ethanol	45		5.054					ND	
34 Trichlorofluoromethane	101		5.065					ND	
37 Ethyl ether	59		5.205					ND	
36 1,2-Dichloro-1,1,2-trifluo	117		5.211					ND	
38 1,1,1-Trifluoro-2,2-dichlo	83		5.246					ND	
39 Propene oxide	58		5.315					ND	
40 Acrolein	56		5.361					ND	
41 Acetone	43		5.466					ND	
42 1,1,2-Trichloro-1,2,2-trif	151		5.466					ND	
44 Isopropyl alcohol	45		5.471					ND	
45 1,1-Dichloroethene	96		5.518					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Methyl acetate	43		5.692					ND	
46 Iodomethane	142		5.692					ND	
47 Acetonitrile	41		5.698					ND	
49 3-Chloro-1-propene	41		5.744					ND	
51 Carbon disulfide	76		5.796					ND	
50 2-Methyl-2-propanol	59		5.796					ND	
52 Methylene Chloride	84		5.866					ND	
53 Acrylonitrile	53		6.005					ND	
54 Methyl tert-butyl ether	73		6.023					ND	
55 trans-1,2-Dichloroethene	96		6.075					ND	
56 Hexane	57		6.232					ND	
57 Vinyl acetate	43		6.319					ND	
58 Isopropyl ether	87		6.342					ND	
59 1,1-Dichloroethane	63		6.388					ND	
60 2-Chloro-1,3-butadiene	53		6.463					ND	
61 Tert-butyl ethyl ether	59		6.620					ND	
62 Ethyl acetate	43		6.759					ND	
63 2-Butanone (MEK)	43		6.771					ND	
64 sec-Butyl Alcohol	45		6.806					ND	
65 cis-1,2-Dichloroethene	96		6.841					ND	
66 Propionitrile	54		6.846					ND	
67 2,2-Dichloropropane	77		6.858					ND	
68 Methacrylonitrile	41		6.968					ND	
69 Chlorobromomethane	128		7.032					ND	
70 Chloroform	83		7.032					ND	
71 Tetrahydrofuran	42		7.067					ND	
72 Isobutyl alcohol	41		7.241					ND	
73 1,1,1-Trichloroethane	97		7.259					ND	
74 Cyclohexane	56		7.328					ND	
75 1,1-Dichloropropene	75		7.363					ND	
76 Carbon tetrachloride	117		7.398					ND	
77 1,2-Dichloroethane	62		7.520					ND	
78 Tert-amyl methyl ether	73		7.543					ND	
79 Benzene	78		7.555					ND	
14 n-Heptane	43		7.624					ND	
80 n-Butanol	56		7.752					ND	
81 Trichloroethene	130		8.007					ND	
82 2-Pentanone	43		8.042					ND	
83 Methyl methacrylate	100		8.152					ND	
85 Methylcyclohexane	55		8.199					ND	
84 1,2-Dichloropropane	63		8.199					ND	
86 1,4-Dioxane	88		8.251					ND	
87 Dibromomethane	93		8.303					ND	
88 Dichlorobromomethane	83		8.373					ND	
89 2-Chloroethyl vinyl ether	63		8.512					ND	
90 2-Nitropropane	41		8.517					ND	
91 cis-1,3-Dichloropropene	75		8.686					ND	
92 4-Methyl-2-pentanone (MIBK	43		8.738					ND	
93 Toluene	91		8.965					ND	
94 Ethyl methacrylate	69		9.034					ND	
95 trans-1,3-Dichloropropene	75		9.069					ND	
96 1,1,2-Trichloroethane	97		9.226					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
97 2-Hexanone	43		9.330					ND	
98 1,3-Dichloropropane	76		9.365					ND	
99 Tetrachloroethene	164		9.382					ND	
100 Chlorodibromomethane	129		9.556					ND	
101 Tetrahydrothiophene	60		9.614					ND	
102 Ethylene Dibromide	107		9.696					ND	
103 1-Chlorohexane	91		9.922					ND	
104 Chlorobenzene	112		10.044					ND	
105 Ethylbenzene	106		10.079					ND	
106 1,1,1,2-Tetrachloroethane	131		10.079					ND	
107 m-Xylene & p-Xylene	91		10.148					ND	
108 Styrene	104		10.479					ND	
109 o-Xylene	106		10.479					ND	
110 Bromoform	173		10.688					ND	
111 Isopropylbenzene	105		10.740					ND	
112 cis-1,4-Dichloro-2-butene	53		10.763					ND	
113 Cyclohexanone	55		10.879					ND	
114 1,1,2,2-Tetrachloroethane	83		10.949					ND	
115 trans-1,4-Dichloro-2-buten	53		10.984					ND	
116 1,2,3-Trichloropropane	110		11.019					ND	
117 N-Propylbenzene	120		11.071					ND	
118 Bromobenzene	156		11.071					ND	
119 1,3,5-Trimethylbenzene	105		11.175					ND	
120 2-Chlorotoluene	126		11.193					ND	
121 4-Chlorotoluene	126		11.280					ND	
122 tert-Butylbenzene	119		11.489					ND	
123 1,2,4-Trimethylbenzene	105		11.506					ND	
124 sec-Butylbenzene	134		11.663					ND	
125 4-Isopropyltoluene	119		11.767					ND	
126 1,3-Dichlorobenzene	146		11.837					ND	
128 1,4-Dichlorobenzene	146		11.906					ND	
127 1,2,3-Trimethylbenzene	105		11.912					ND	
129 n-Butylbenzene	91		12.133					ND	
130 1,2-Dichlorobenzene	146		12.272					ND	
143 Pentachloroethane	167		12.490					ND	
131 1,2-Dibromo-3-Chloropropan	157		13.038					ND	
16 1,3,5-Trichlorobenzene	180		13.270					ND	
132 1,2,4-Trichlorobenzene	180		14.030					ND	
133 Hexachlorobutadiene	225		14.169					ND	
134 Naphthalene	128		14.395					ND	
135 1,2,3-Trichlorobenzene	180		14.726					ND	
18 3,3-Dimethylpentane	1		0.000					ND	
9 2,4-Dimethylpentane	1		0.000					ND	
13 2,2-Dimethylpentane	1		0.000					ND	
12 2,2,3-Trimethylbutane	1		0.000					ND	
10 n-Nonyl Aldehyde	1		0.000					ND	
11 2,3-Dimethylpentane	1		0.000					ND	
19 3-Methylhexane	1		0.000					ND	
17 3-Ethylpentane	1		0.000					ND	
20 2-Methylhexane	1		0.000					ND	
15 Dimethyl disulfide	1		0.000					ND	
21 2-Butoxyethanol TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 2,3-dichloro-1-propene TIC	75		1.000					ND	
23 Dichloroacetonitrile TIC	74		1.000					ND	
43 Propene oxide TIC	58		5.526					ND	
S 142 1,2-Dichloroethene, Total	96		2.000					ND	
S 137 Xylenes, Total (URS)	1		0.000					ND	
S 138 Total BTEX	1		0.000					ND	
S 153 TAH	1				0			0	
S 136 Trihalomethanes, Total	1		0.000					ND	
S 139 1,3-Dichloropropene, Total	1		0.000					ND	
S 140 1,2-Dichloroethene, Total	1		0.000					ND	
S 141 Xylenes, Total	106		0.000					ND	
T 158 n-Nonane TIC	1		10.026					ND	
T 156 4-Ethyltoluene TIC	1		0.000					ND	
T 157 1,3-Butadiene TIC	1		0.000					ND	
T 154 Propene TIC	1		0.000					ND	
T 155 Dicyclopentadiene TIC	1		0.000					ND	

Reagents:

MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:41 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6849.D

Injection Date: 19-May-2015 18:11:30 Instrument ID: VMS_J Operator ID: DUKESA

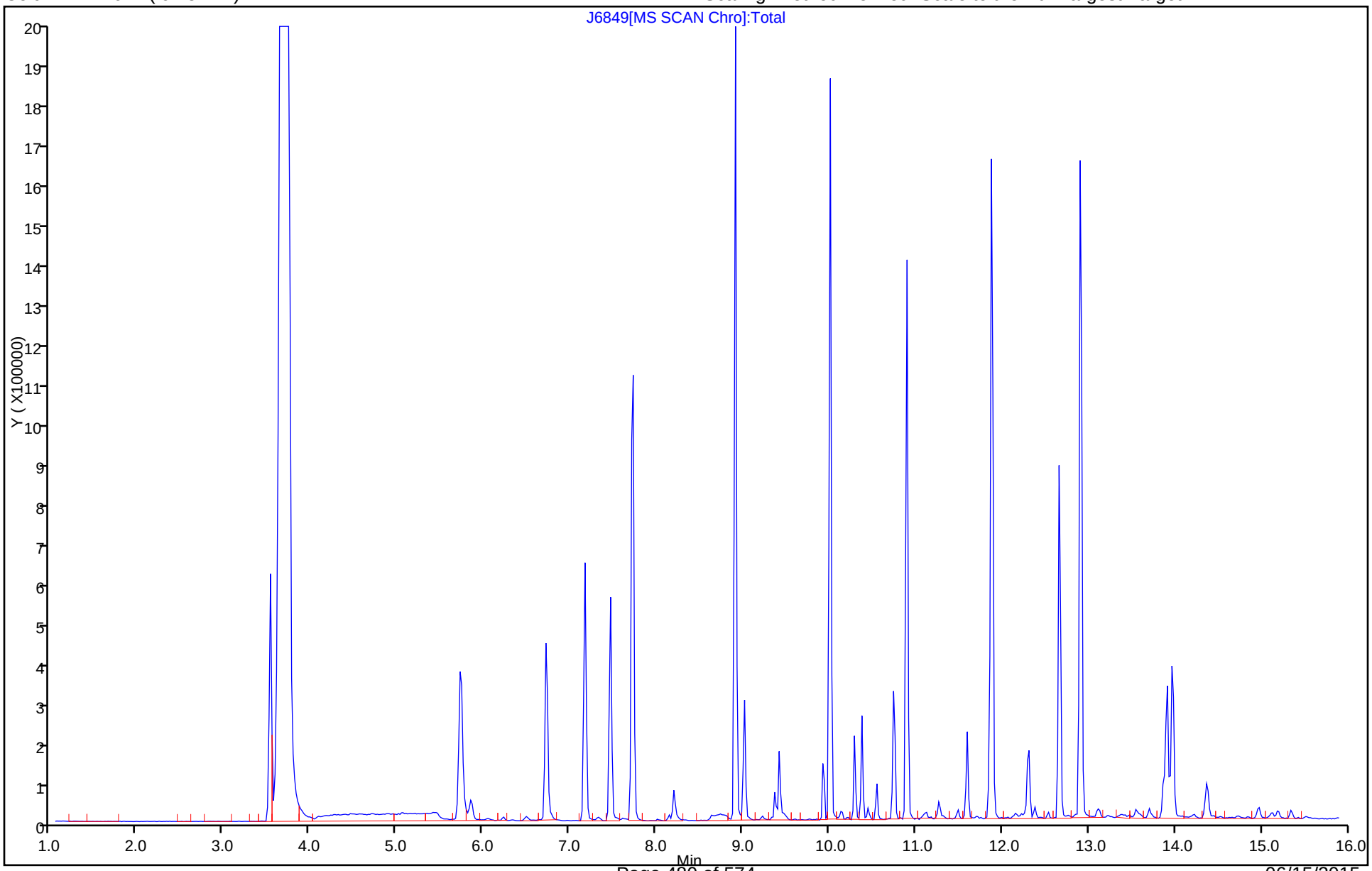
Lims ID: MB Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 280-278666/1-A
Matrix: Solid | Lab File ID: J6916.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/21/2015 18:20
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	1.6	U	5.0	1.6	0.56
71-55-6	1,1,1-Trichloroethane	1.6	U	5.0	1.6	0.52
79-34-5	1,1,2,2-Tetrachloroethane	1.6	U	5.0	1.6	0.61
79-00-5	1,1,2-Trichloroethane	3.2	U	5.0	3.2	0.88
75-34-3	1,1-Dichloroethane	0.80	U	5.0	0.80	0.21
75-35-4	1,1-Dichloroethene	1.6	U	5.0	1.6	0.59
563-58-6	1,1-Dichloropropene	1.6	U	5.0	1.6	0.54
87-61-6	1,2,3-Trichlorobenzene	1.6	U	5.0	1.6	0.75
96-18-4	1,2,3-Trichloropropane	3.2	U	5.0	3.2	0.81
120-82-1	1,2,4-Trichlorobenzene	1.6	U	5.0	1.6	0.73
95-63-6	1,2,4-Trimethylbenzene	1.6	U	5.0	1.6	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	10	1.6	0.60
95-50-1	1,2-Dichlorobenzene	1.6	U	5.0	1.6	0.45
107-06-2	1,2-Dichloroethane	1.6	U	5.0	1.6	0.70
78-87-5	1,2-Dichloropropane	1.6	U	5.0	1.6	0.55
108-67-8	1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	0.57
541-73-1	1,3-Dichlorobenzene	1.6	U	5.0	1.6	0.48
142-28-9	1,3-Dichloropropane	1.6	U	5.0	1.6	0.51
106-46-7	1,4-Dichlorobenzene	1.6	U	5.0	1.6	0.78
594-20-7	2,2-Dichloropropane	1.6	U	5.0	1.6	0.44
78-93-3	2-Butanone (MEK)	6.4	U	20	6.4	1.8
95-49-8	2-Chlorotoluene	1.6	U	5.0	1.6	0.51
591-78-6	2-Hexanone	13	U	20	13	4.9
106-43-4	4-Chlorotoluene	1.6	U	5.0	1.6	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	20	13	4.4
67-64-1	Acetone	13	U	20	13	5.4
71-43-2	Benzene	1.6	U	5.0	1.6	0.47
108-86-1	Bromobenzene	1.6	U	5.0	1.6	0.49
74-97-5	Bromochloromethane	0.80	U	5.0	0.80	0.30
75-27-4	Bromodichloromethane	0.80	U	5.0	0.80	0.22
75-25-2	Bromoform	0.80	U	5.0	0.80	0.23
74-83-9	Bromomethane	1.6	U	10	1.6	0.50
75-15-0	Carbon disulfide	1.6	U	5.0	1.6	0.42
56-23-5	Carbon tetrachloride	1.6	U	5.0	1.6	0.63
108-90-7	Chlorobenzene	1.6	U	5.0	1.6	0.54
75-00-3	Chloroethane	3.2	U	10	3.2	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 280-278666/1-A
Matrix: Solid | Lab File ID: J6916.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/21/2015 18:20
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-66-3	Chloroform	0.80	U	10	0.80	0.29
74-87-3	Chloromethane	1.6	U	10	1.6	0.77
156-59-2	cis-1,2-Dichloroethene	1.6	U	5.0	1.6	0.56
10061-01-5	cis-1,3-Dichloropropene	3.2	U	5.0	3.2	1.3
124-48-1	Dibromochloromethane	1.6	U	5.0	1.6	0.57
74-95-3	Dibromomethane	3.2	U	5.0	3.2	0.84
75-71-8	Dichlorodifluoromethane	1.6	U	10	1.6	0.52
100-41-4	Ethylbenzene	1.6	U	5.0	1.6	0.67
106-93-4	Ethylene Dibromide	1.6	U	5.0	1.6	0.52
87-68-3	Hexachlorobutadiene	1.6	U	5.0	1.6	0.55
98-82-8	Isopropylbenzene	1.6	U	5.0	1.6	0.59
1634-04-4	Methyl tert-butyl ether	0.80	U	20	0.80	0.34
75-09-2	Methylene Chloride	3.2	U	5.0	3.2	1.6
179601-23-1	m-Xylene & p-Xylene	3.2	U	3.2	3.2	1.0
91-20-3	Naphthalene	1.6	U	5.0	1.6	0.63
104-51-8	n-Butylbenzene	1.6	U	5.0	1.6	0.56
103-65-1	N-Propylbenzene	1.6	U	5.0	1.6	0.58
99-87-6	4-Isopropyltoluene	1.6	U	5.0	1.6	0.49
95-47-6	o-Xylene	1.6	U	5.0	1.6	0.61
135-98-8	sec-Butylbenzene	1.6	U	5.0	1.6	0.77
100-42-5	Styrene	1.6	U	5.0	1.6	0.63
75-65-0	tert-Butyl alcohol	32	U	200	32	13
98-06-6	tert-Butylbenzene	1.6	U	5.0	1.6	0.50
127-18-4	Tetrachloroethene	1.6	U	5.0	1.6	0.59
108-88-3	Toluene	1.6	U	5.0	1.6	0.69
156-60-5	trans-1,2-Dichloroethene	0.80	U	5.0	0.80	0.39
10061-02-6	trans-1,3-Dichloropropene	1.6	U	5.0	1.6	0.67
79-01-6	Trichloroethene	0.80	U	5.0	0.80	0.23
75-69-4	Trichlorofluoromethane	3.2	U	10	3.2	1.0
75-01-4	Vinyl chloride	3.2	U	5.0	3.2	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-278666/1-A

Matrix: Solid | Lab File ID: J6916.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/21/2015 18:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

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

Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		71-136
460-00-4	4-Bromofluorobenzene (Surr)	96		79-119
1868-53-7	Dibromofluoromethane (Surr)	102		78-119
2037-26-5	Toluene-d8 (Surr)	102		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6916.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 21-May-2015 18:20:30 ALS Bottle#: 13 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150521-35307.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 21-May-2015 23:29:18 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 21-May-2015 19:03:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 149 1,4-Dioxane-d8	96		1.051					ND	
* 150 TBA-d9 (IS)	65	5.733	5.732	0.001	100	641337	1000.0	1000.0	
* 1 Fluorobenzene	96	7.735	7.716	0.019	98	1031116	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.014	0.001	86	290213	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.878	11.876	0.002	97	461577	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.178	7.160	0.018	92	382465	50.0	51.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.474	7.456	0.018	98	386134	50.0	49.6	
$ 7 Toluene-d8 (Surr)	98	8.919	8.919	0.000	93	1096206	50.0	51.2	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.903	0.000	96	448896	50.0	47.8	
$ 152 Trifluorotoluene (Surr)	1		0.000					ND	
$ 4 BFB	95		4.966					ND	
24 Chlorotrifluoroethene	116		3.940					ND	
25 Dichlorodifluoromethane	85		3.992					ND	
26 1,2-Dichloro-1,1,2,2-tetra	85		4.149					ND	
27 Chloromethane	50		4.219					ND	
28 Vinyl chloride	62		4.358					ND	
29 2-Chloro-1,1,1-Trifluoroet	118		4.410					ND	
30 Ethylene oxide	43		4.670					ND	
31 Bromomethane	94		4.741					ND	
32 Chloroethane	64		4.793					ND	
33 Dichlorofluoromethane	67		4.967					ND	
35 Ethanol	45		5.053					ND	
34 Trichlorofluoromethane	101		5.072					ND	
37 Ethyl ether	59		5.211					ND	
36 1,2-Dichloro-1,1,2-trifluo	117		5.211					ND	
38 1,1,1-Trifluoro-2,2-dichlo	83		5.246					ND	
39 Propene oxide	58		5.314					ND	
40 Acrolein	56		5.350					ND	
41 Acetone	43		5.455					ND	
44 Isopropyl alcohol	45		5.471					ND	
42 1,1,2-Trichloro-1,2,2-trif	151		5.472					ND	
45 1,1-Dichloroethene	96		5.507					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Iodomethane	142		5.681					ND	
47 Acetonitrile	41		5.697					ND	
48 Methyl acetate	43		5.698					ND	
49 3-Chloro-1-propene	41		5.750					ND	
51 Carbon disulfide	76		5.803					ND	
50 2-Methyl-2-propanol	59		5.803					ND	
52 Methylene Chloride	84		5.855					ND	
53 Acrylonitrile	53		5.994					ND	
54 Methyl tert-butyl ether	73		6.029					ND	
55 trans-1,2-Dichloroethene	96		6.064					ND	
56 Hexane	57		6.220					ND	
57 Vinyl acetate	43		6.325					ND	
58 Isopropyl ether	87		6.341					ND	
59 1,1-Dichloroethane	63		6.395					ND	
60 2-Chloro-1,3-butadiene	53		6.463					ND	
61 Tert-butyl ethyl ether	59		6.619					ND	
62 Ethyl acetate	43		6.759					ND	
63 2-Butanone (MEK)	43		6.777					ND	
64 sec-Butyl Alcohol	45		6.812					ND	
66 Propionitrile	54		6.828					ND	
65 cis-1,2-Dichloroethene	96		6.830					ND	
67 2,2-Dichloropropane	77		6.865					ND	
68 Methacrylonitrile	41		6.950					ND	
69 Chlorobromomethane	128		7.039					ND	
70 Chloroform	83		7.039					ND	
71 Tetrahydrofuran	42		7.056					ND	
72 Isobutyl alcohol	41		7.230					ND	
73 1,1,1-Trichloroethane	97		7.265					ND	
74 Cyclohexane	56		7.334					ND	
75 1,1-Dichloropropene	75		7.352					ND	
76 Carbon tetrachloride	117		7.404					ND	
78 Tert-amyl methyl ether	73		7.525					ND	
77 1,2-Dichloroethane	62		7.526					ND	
79 Benzene	78		7.543					ND	
14 n-Heptane	43		7.613					ND	
80 n-Butanol	56		7.734					ND	
81 Trichloroethene	130		8.013					ND	
82 2-Pentanone	43		8.048					ND	
83 Methyl methacrylate	100		8.134					ND	
84 1,2-Dichloropropane	63		8.187					ND	
85 Methylcyclohexane	55		8.205					ND	
86 1,4-Dioxane	88		8.240					ND	
87 Dibromomethane	93		8.292					ND	
88 Dichlorobromomethane	83		8.362					ND	
90 2-Nitropropane	41		8.499					ND	
89 2-Chloroethyl vinyl ether	63		8.501					ND	
91 cis-1,3-Dichloropropene	75		8.675					ND	
92 4-Methyl-2-pentanone (MIBK	43		8.727					ND	
93 Toluene	91	8.971	8.971	0.000	99	15639		0.6528	
94 Ethyl methacrylate	69		9.040					ND	
95 trans-1,3-Dichloropropene	75		9.058					ND	
96 1,1,2-Trichloroethane	97		9.214					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
97 2-Hexanone	43		9.336					ND	
98 1,3-Dichloropropane	76		9.354					ND	
99 Tetrachloroethene	164		9.389					ND	
100 Chlorodibromomethane	129		9.563					ND	
101 Tetrahydrothiophene	60		9.596					ND	
102 Ethylene Dibromide	107		9.684					ND	
103 1-Chlorohexane	91		9.911					ND	
104 Chlorobenzene	112		10.033					ND	
105 Ethylbenzene	106		10.067					ND	
106 1,1,1,2-Tetrachloroethane	131		10.067					ND	
107 m-Xylene & p-Xylene	91		10.137					ND	
108 Styrene	104		10.468					ND	
109 o-Xylene	106		10.468					ND	
110 Bromoform	173		10.694					ND	
111 Isopropylbenzene	105		10.729					ND	
112 cis-1,4-Dichloro-2-butene	53		10.762					ND	
113 Cyclohexanone	55		10.868					ND	
114 1,1,2,2-Tetrachloroethane	83		10.955					ND	
115 trans-1,4-Dichloro-2-buten	53		10.973					ND	
116 1,2,3-Trichloropropane	110		11.025					ND	
117 N-Propylbenzene	120		11.060					ND	
118 Bromobenzene	156		11.077					ND	
119 1,3,5-Trimethylbenzene	105		11.181					ND	
120 2-Chlorotoluene	126		11.199					ND	
121 4-Chlorotoluene	126		11.199					ND	
122 tert-Butylbenzene	119		11.477					ND	
123 1,2,4-Trimethylbenzene	105		11.512					ND	
124 sec-Butylbenzene	134		11.669					ND	
125 4-Isopropyltoluene	119		11.756					ND	
126 1,3-Dichlorobenzene	146		11.843					ND	
127 1,2,3-Trimethylbenzene	105		11.911					ND	
128 1,4-Dichlorobenzene	146		11.913					ND	
129 n-Butylbenzene	91		12.139					ND	
130 1,2-Dichlorobenzene	146		12.278					ND	
143 Pentachloroethane	167		12.490					ND	
131 1,2-Dibromo-3-Chloropropan	157		13.044					ND	
16 1,3,5-Trichlorobenzene	180		13.269					ND	
132 1,2,4-Trichlorobenzene	180		14.019					ND	
133 Hexachlorobutadiene	225		14.175					ND	
134 Naphthalene	128		14.402					ND	
135 1,2,3-Trichlorobenzene	180		14.732					ND	
18 3,3-Dimethylpentane	1		0.000					ND	
9 2,4-Dimethylpentane	1		0.000					ND	
13 2,2-Dimethylpentane	1		0.000					ND	
12 2,2,3-Trimethylbutane	1		0.000					ND	
10 n-Nonyl Aldehyde	1		0.000					ND	
11 2,3-Dimethylpentane	1		0.000					ND	
19 3-Methylhexane	1		0.000					ND	
17 3-Ethylpentane	1		0.000					ND	
20 2-Methylhexane	1		0.000					ND	
15 Dimethyl disulfide	1		0.000					ND	
21 2-Butoxyethanol TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
22 2,3-dichloro-1-propene TIC	75		1.000					ND	
23 Dichloroacetonitrile TIC	74		1.000					ND	
43 Propene oxide TIC	58		5.526					ND	
S 142 1,2-Dichloroethene, Total	96		2.000					ND	
S 137 Xylenes, Total (URS)	1		0.000					ND	
S 138 Total BTEX	1				0			0.6528	
S 153 TAH	1				0			0	
S 136 Trihalomethanes, Total	1		0.000					ND	
S 139 1,3-Dichloropropene, Total	1		0.000					ND	
S 140 1,2-Dichloroethene, Total	1		0.000					ND	
S 141 Xylenes, Total	106		0.000					ND	
T 158 n-Nonane TIC	1		10.026					ND	
T 156 4-Ethyltoluene TIC	1		0.000					ND	
T 157 1,3-Butadiene TIC	1		0.000					ND	
T 154 Propene TIC	1		0.000					ND	
T 155 Dicyclopentadiene TIC	1		0.000					ND	

Reagents:

MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 21-May-2015 23:29:21 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6916.D

Injection Date: 21-May-2015 18:20:30 Instrument ID: VMS_J Operator ID: DUKESA

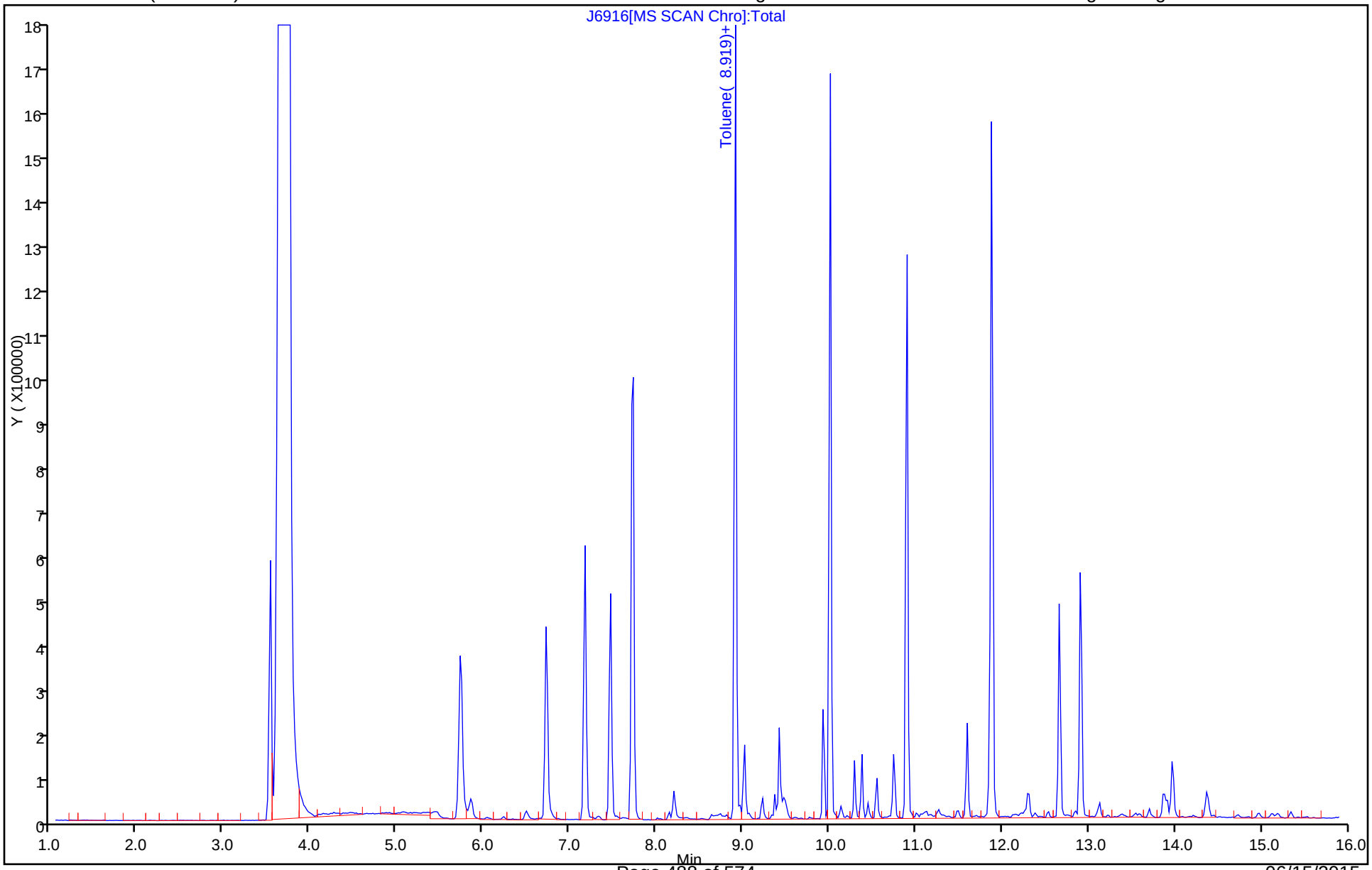
Lims ID: MB Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 280-279635/6
Matrix: Water | Lab File ID: H3066.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 20(mL) | Date Analyzed: 05/29/2015 22:30
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 279635 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.80	U	1.0	0.80	0.17
71-55-6	1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.20
79-00-5	1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.32
75-34-3	1,1-Dichloroethane	0.80	U	1.0	0.80	0.16
75-35-4	1,1-Dichloroethene	0.80	U	1.0	0.80	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.40	U	1.0	0.40	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.13
107-06-2	1,2-Dichloroethane	0.40	U	1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	0.40	U	1.0	0.40	0.13
108-67-8	1,3,5-Trimethylbenzene	0.40	U	1.0	0.40	0.14
541-73-1	1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.16
142-28-9	1,3-Dichloropropane	0.80	U	1.0	0.80	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	4.0	U	6.0	4.0	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	4.0	U	5.0	4.0	1.4
106-43-4	4-Chlorotoluene	0.80	U	1.0	0.80	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.40	U	1.0	0.40	0.16
108-86-1	Bromobenzene	0.40	U	1.0	0.40	0.17
74-97-5	Bromochloromethane	0.20	U	1.0	0.20	0.10
75-27-4	Bromodichloromethane	0.40	U	1.0	0.40	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.80	U	2.0	0.80	0.21
75-15-0	Carbon disulfide	1.6	U	2.0	1.6	0.45
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-279635/6
Matrix: Water
Lab File ID: H3066.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 20(mL)
Date Analyzed: 05/29/2015 22:30
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 279635
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-66-3	Chloroform	0.40	U	1.0	0.40	0.16
74-87-3	Chloromethane	0.80	U	2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
10061-01-5	cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.40	U	1.0	0.40	0.16
106-93-4	1,2-Dibromoethane	0.40	U	1.0	0.40	0.18
87-68-3	Hexachlorobutadiene	0.80	U	1.0	0.80	0.36
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
1634-04-4	Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25
75-09-2	Methylene Chloride	0.80	U	5.0	0.80	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.80	U	1.0	0.80	0.32
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
99-87-6	p-Isopropyltoluene	0.40	U	1.0	0.40	0.17
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
75-65-0	tert-Butyl alcohol	32	U	50	32	11
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.40	U	1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.20	U	1.5	0.20	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-279635/6

Matrix: Water | Lab File ID: H3066.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 05/29/2015 22:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

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

Analysis Batch No.: 279635 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		81-118
460-00-4	4-Bromofluorobenzene (Surr)	103		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3066.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-May-2015 22:30:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: MB AF
Operator ID: bergerb Instrument ID: VMS_H

Method: \\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 16:42:37 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: bergerb Date: 01-Jun-2015 17:47:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.972	3.958	0.014	98	227962	250.0	250.0	
* 2 Fluorobenzene	96	6.758	6.761	-0.003	97	1202873	12.5	12.5	
* 3 1,4-Dioxane-d8	96		8.670					ND	
* 4 Chlorobenzene-d5	119	11.110	11.113	-0.003	92	277929	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.122	14.108	0.014	97	425381	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.922	5.925	-0.003	93	507069	8.50	8.35	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.340	6.343	-0.003	83	264664	8.50	7.86	
$ 10 Toluene-d8 (Surr)	98	8.882	8.885	-0.003	95	1143448	8.50	8.43	
$ 11 4-Bromofluorobenzene (Surr	95	12.764	12.767	-0.003	81	635510	8.50	8.73	
$ 152 Trifluorotoluene (Surr)	1		0.000					ND	
$ 7 BFB	95		2.473					ND	
28 Dichlorodifluoromethane	85		2.165					ND	
27 Chlorotrifluoroethene	116		2.173					ND	
30 Chloromethane	50		2.252					ND	
29 1,2-Dichloro-1,1,2,2-tetra	85		2.329					ND	
31 Butadiene	54		2.374					ND	
32 Vinyl chloride	62		2.391					ND	
33 2-Chloro-1,1,1-Trifluoroet	118		2.521					ND	
34 Ethylene oxide	43		2.633					ND	
35 Bromomethane	94		2.670					ND	
36 Chloroethane	64		2.739					ND	
37 Dichlorofluoromethane	67		2.931					ND	
38 Trichlorofluoromethane	101		2.983					ND	
39 Ethanol	45		3.156					ND	
40 Ethyl ether	59		3.209					ND	
43 Propene oxide	58		3.295					ND	
41 1,2-Dichloro-1,1,2-trifluo	117		3.322					ND	
44 Acrolein	56		3.366					ND	
42 1,1,1-Trifluoro-2,2-dichlo	83		3.374					ND	
45 1,1-Dichloroethene	96		3.470					ND	
46 1,1,2-Trichloro-1,2,2-trif	151		3.505					ND	
47 Acetone	43		3.505					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
49 Isopropyl alcohol	45		3.626					ND	
48 Iodomethane	142		3.644					ND	
50 Carbon disulfide	76		3.714					ND	
51 Acetonitrile	41		3.817					ND	
53 Methyl acetate	43		3.819					ND	
52 3-Chloro-1-propene	41		3.819					ND	
54 Methylene Chloride	84	3.955	3.940	0.015	98	19702		0.1755	
55 2-Methyl-2-propanol	59		4.062					ND	
57 Acrylonitrile	53		4.202					ND	
56 Methyl tert-butyl ether	73		4.236					ND	
58 trans-1,2-Dichloroethene	96		4.236					ND	
59 Hexane	57		4.498					ND	
60 1,1-Dichloroethane	63		4.689					ND	
61 Vinyl acetate	43		4.706					ND	
62 Isopropyl ether	87		4.757					ND	
63 2-Chloro-1,3-butadiene	53		4.792					ND	
64 Tert-butyl ethyl ether	59		5.175					ND	
65 cis-1,2-Dichloroethene	96		5.351					ND	
67 2-Butanone (MEK)	43		5.351					ND	
66 2,2-Dichloropropane	77		5.368					ND	
69 Ethyl acetate	43		5.419					ND	
70 Propionitrile	54		5.454					ND	
71 sec-Butyl Alcohol	45		5.577					ND	
72 Methacrylonitrile	41		5.610					ND	
73 Chlorobromomethane	128		5.647					ND	
74 Tetrahydrofuran	42		5.716					ND	
75 Chloroform	83		5.716					ND	
76 1,1,1-Trichloroethane	97		5.977					ND	
77 Cyclohexane	56		6.047					ND	
78 1,1-Dichloropropene	75		6.151					ND	
79 Carbon tetrachloride	117		6.186					ND	
80 Isobutyl alcohol	41		6.291					ND	
81 Benzene	78		6.413					ND	
82 1,2-Dichloroethane	62		6.430					ND	
83 Tert-amyl methyl ether	73		6.551					ND	
84 n-Heptane	43		6.726					ND	
85 n-Butanol	56		7.160					ND	
86 Trichloroethene	95		7.231					ND	
87 Ethyl acrylate	55	7.367	7.351	0.016	0	161		NC	
88 2-Pentanone	43		7.457					ND	
89 Methylcyclohexane	55		7.492					ND	
90 1,2-Dichloropropane	63		7.527					ND	
91 Methyl methacrylate	100		7.665					ND	
92 Dibromomethane	93		7.701					ND	
93 1,4-Dioxane	88		7.718					ND	
94 Dichlorobromomethane	83		7.892					ND	
95 2-Nitropropane	41		8.187					ND	
96 2-Chloroethyl vinyl ether	63		8.293					ND	
97 cis-1,3-Dichloropropene	75		8.502					ND	
98 4-Methyl-2-pentanone (MIBK	43		8.711					ND	
99 Toluene	91		8.972					ND	
100 trans-1,3-Dichloropropene	75		9.285					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Ethyl methacrylate	69		9.407					ND	
102 1,1,2-Trichloroethane	97		9.546					ND	
103 Tetrachloroethene	164		9.773					ND	
104 1,3-Dichloropropane	76		9.790					ND	
105 2-Hexanone	43		9.929					ND	
107 Tetrahydrothiophene	60		10.119					ND	
108 Chlorodibromomethane	129		10.156					ND	
106 n-Butyl acetate	43	10.239	10.226	0.013	0	1430			NC
109 Ethylene Dibromide	107		10.330					ND	
110 1-Chlorohexane	91		11.113					ND	
111 Chlorobenzene	112		11.148					ND	
112 1,1,1,2-Tetrachloroethane	131		11.287					ND	
113 Ethylbenzene	106		11.322					ND	
114 m-Xylene & p-Xylene	106		11.496					ND	
115 o-Xylene	106		12.071					ND	
116 Styrene	104		12.088					ND	
117 Bromoform	173		12.349					ND	
118 Isopropylbenzene	105		12.558					ND	
119 cis-1,4-Dichloro-2-butene	53		12.661					ND	
120 Cyclohexanone	55		12.697					ND	
122 Bromobenzene	156		12.941					ND	
121 1,1,2,2-Tetrachloroethane	83		12.959					ND	
123 1,2,3-Trichloropropane	110		12.993					ND	
124 trans-1,4-Dichloro-2-buten	53		13.028					ND	
125 N-Propylbenzene	120		13.080					ND	
126 2-Chlorotoluene	126		13.185					ND	
127 1,3,5-Trimethylbenzene	105		13.289					ND	
128 4-Chlorotoluene	126		13.307					ND	
129 tert-Butylbenzene	119		13.672					ND	
22 Pentachloroethane	167		13.721					ND	
130 1,2,4-Trimethylbenzene	105		13.725					ND	
131 sec-Butylbenzene	134		13.916					ND	
132 1,3-Dichlorobenzene	146		14.038					ND	
133 4-Isopropyltoluene	119		14.073					ND	
134 1,4-Dichlorobenzene	146		14.142					ND	
135 1,2,3-Trimethylbenzene	105		14.193					ND	
136 Benzyl chloride	126		14.352					ND	
137 n-Butylbenzene	91		14.508					ND	
138 1,2-Dichlorobenzene	146		14.543					ND	
139 1,2-Dibromo-3-Chloropropan	157		15.309					ND	
140 1,3,5-Trichlorobenzene	180		15.516					ND	
141 1,2,4-Trichlorobenzene	180		16.075					ND	
142 Hexachlorobutadiene	225		16.232					ND	
143 Naphthalene	128		16.301					ND	
144 1,2,3-Trichlorobenzene	180		16.528					ND	
20 2-Methylnaphthalene	142		0.000					ND	
18 2,2-Dimethylpentane	1		0.000					ND	
23 2-Methylhexane	1		0.000					ND	
21 2,4-Dimethylpentane	1		0.000					ND	
157 Propene	1		0.000					ND	
158 Dicyclopentadiene	1		0.000					ND	
24 3-Methylhexane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 2,3-Dimethylpentane	1		0.000					ND	
15 Dimethyl disulfide	1		0.000					ND	
159 4-Ethyltoluene	1		0.000					ND	
16 3,3-Dimethylpentane	1		0.000					ND	
17 2,2,3-Trimethylbutane	1		0.000					ND	
12 3-Ethylpentane	1		0.000					ND	
13 n-Nonyl Aldehyde	1		0.000					ND	
14 2-Butoxyethanol TIC	1		0.000					ND	
S 151 1,2-Dichloroethene, Total	96		2.000					ND	
S 149 1,2-Dichloroethene, Total	1		0.000					ND	
S 150 Xylenes, Total	106		0.000					ND	
S 160 TAH	1				0			0	
S 148 1,3-Dichloropropene, Total	1		0.000					ND	
S 145 Trihalomethanes, Total	1		0.000					ND	
S 146 Xylenes, Total (URS)	1		0.000					ND	
S 147 Total BTEX	1		0.000					ND	
T 26 2,3-dichloro-1-propene TIC	75		1.000					ND	
T 25 Dichloroacetonitrile TIC	74		1.000					ND	
T 68 Propene oxide TIC	58		5.334					ND	
T 154 Dicyclopentadiene TIC	1		0.000					ND	
T 156 1,3-Butadiene TIC	1		0.000					ND	
T 153 Propene TIC	1		0.000					ND	
T 155 4-Ethyltoluene TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

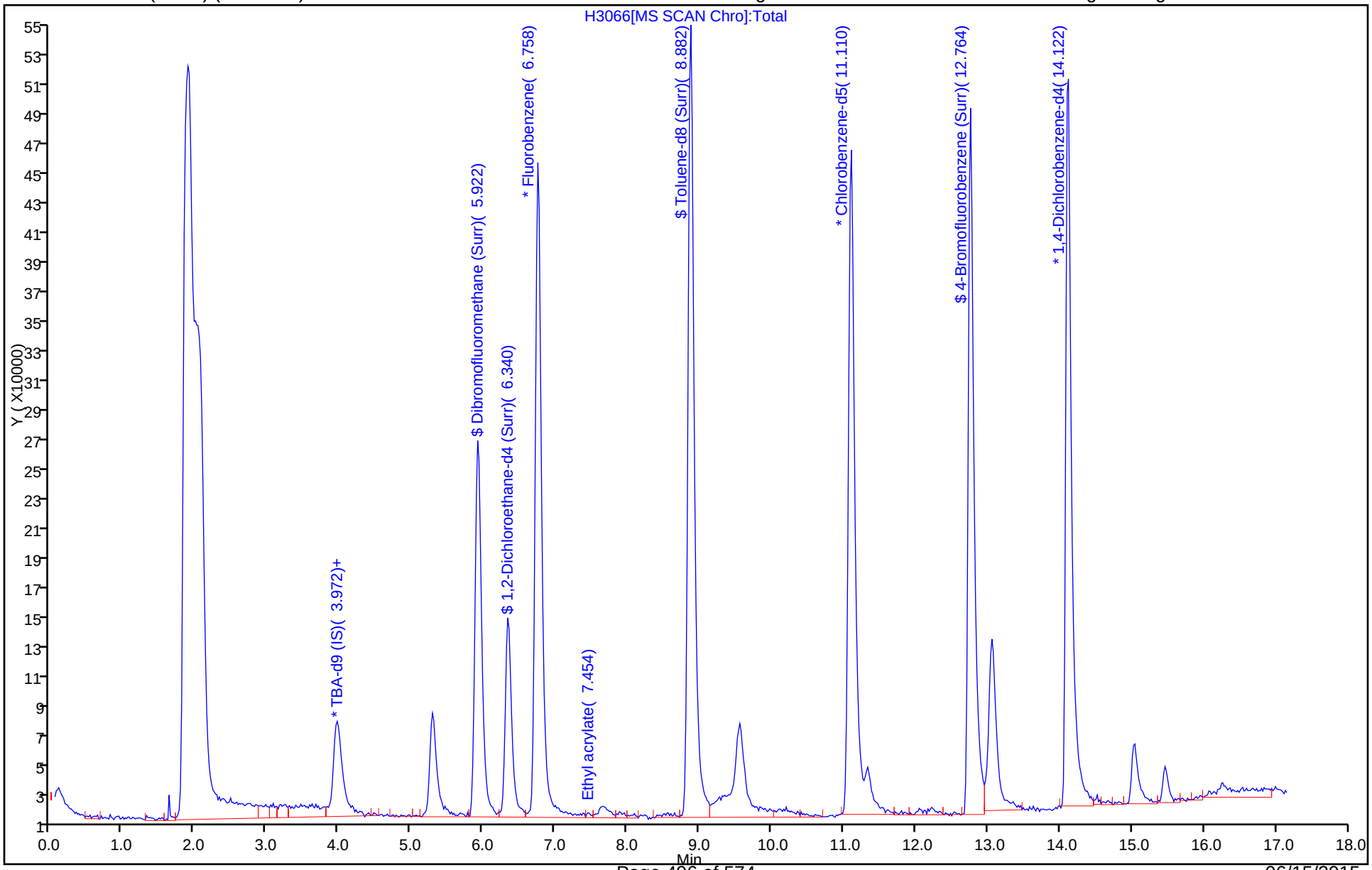
MV-568718-D_00002	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00042	Amount Added:	0.68	Units: uL	Run Reagent

Report Date: 02-Jun-2015 16:42:48 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3066.D				
Injection Date:	29-May-2015 22:30:30	Instrument ID:	VMS_H	Operator ID:	bergerb
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 280-278302/2-A
Matrix: Solid | Lab File ID: J6850.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/19/2015 18:31
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	56.3		5.0	1.6	0.56
71-55-6	1,1,1-Trichloroethane	56.4		5.0	1.6	0.52
79-34-5	1,1,2,2-Tetrachloroethane	58.1		5.0	1.6	0.61
79-00-5	1,1,2-Trichloroethane	56.9		5.0	3.2	0.88
75-34-3	1,1-Dichloroethane	55.1		5.0	0.80	0.21
75-35-4	1,1-Dichloroethene	50.6		5.0	1.6	0.59
563-58-6	1,1-Dichloropropene	57.7		5.0	1.6	0.54
87-61-6	1,2,3-Trichlorobenzene	55.8		5.0	1.6	0.75
96-18-4	1,2,3-Trichloropropane	60.5		5.0	3.2	0.81
120-82-1	1,2,4-Trichlorobenzene	56.0		5.0	1.6	0.73
95-63-6	1,2,4-Trimethylbenzene	52.6		5.0	1.6	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	55.8		10	1.6	0.60
95-50-1	1,2-Dichlorobenzene	55.3		5.0	1.6	0.45
107-06-2	1,2-Dichloroethane	55.5		5.0	1.6	0.70
78-87-5	1,2-Dichloropropane	53.6		5.0	1.6	0.55
108-67-8	1,3,5-Trimethylbenzene	55.2		5.0	1.6	0.57
541-73-1	1,3-Dichlorobenzene	54.4		5.0	1.6	0.48
142-28-9	1,3-Dichloropropane	56.4		5.0	1.6	0.51
106-46-7	1,4-Dichlorobenzene	55.3		5.0	1.6	0.78
594-20-7	2,2-Dichloropropane	50.7		5.0	1.6	0.44
78-93-3	2-Butanone (MEK)	204		20	6.4	1.8
95-49-8	2-Chlorotoluene	56.3		5.0	1.6	0.51
591-78-6	2-Hexanone	226		20	13	4.9
106-43-4	4-Chlorotoluene	55.1		5.0	1.6	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	215		20	13	4.4
67-64-1	Acetone	193		20	13	5.4
71-43-2	Benzene	54.5		5.0	1.6	0.47
108-86-1	Bromobenzene	55.6		5.0	1.6	0.49
74-97-5	Bromochloromethane	55.4		5.0	0.80	0.30
75-27-4	Bromodichloromethane	56.4		5.0	0.80	0.22
75-25-2	Bromoform	52.0		5.0	0.80	0.23
74-83-9	Bromomethane	42.4		10	1.6	0.50
75-15-0	Carbon disulfide	54.0		5.0	1.6	0.42
56-23-5	Carbon tetrachloride	57.6		5.0	1.6	0.63
108-90-7	Chlorobenzene	55.3		5.0	1.6	0.54
75-00-3	Chloroethane	42.0		10	3.2	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 280-278302/2-A
Matrix: Solid | Lab File ID: J6850.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/19/2015 18:31
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-66-3	Chloroform	55.0		10	0.80	0.29
74-87-3	Chloromethane	39.5		10	1.6	0.77
156-59-2	cis-1,2-Dichloroethene	53.9		5.0	1.6	0.56
124-48-1	Chlorodibromomethane	60.4		5.0	1.6	0.57
10061-01-5	cis-1,3-Dichloropropene	56.8		5.0	3.2	1.3
74-95-3	Dibromomethane	57.9		5.0	3.2	0.84
75-71-8	Dichlorodifluoromethane	45.1		10	1.6	0.52
100-41-4	Ethylbenzene	53.0		5.0	1.6	0.67
106-93-4	1,2-Dibromoethane	58.0		5.0	1.6	0.52
87-68-3	Hexachlorobutadiene	51.6		5.0	1.6	0.55
98-82-8	Isopropylbenzene	55.0		5.0	1.6	0.59
1634-04-4	Methyl tert-butyl ether	55.6		20	0.80	0.34
75-09-2	Methylene Chloride	53.5		5.0	3.2	1.6
179601-23-1	m-Xylene & p-Xylene	58.0		3.2	3.2	1.0
91-20-3	Naphthalene	57.8		5.0	1.6	0.63
104-51-8	n-Butylbenzene	54.3		5.0	1.6	0.56
103-65-1	N-Propylbenzene	53.9		5.0	1.6	0.58
95-47-6	o-Xylene	51.7		5.0	1.6	0.61
99-87-6	p-Isopropyltoluene	54.6		5.0	1.6	0.49
135-98-8	sec-Butylbenzene	54.8		5.0	1.6	0.77
100-42-5	Styrene	55.3		5.0	1.6	0.63
75-65-0	tert-Butyl alcohol	541		200	32	13
98-06-6	tert-Butylbenzene	53.6		5.0	1.6	0.50
127-18-4	Tetrachloroethene	53.9		5.0	1.6	0.59
108-88-3	Toluene	53.8		5.0	1.6	0.69
156-60-5	trans-1,2-Dichloroethene	54.4		5.0	0.80	0.39
10061-02-6	trans-1,3-Dichloropropene	58.4		5.0	1.6	0.67
79-01-6	Trichloroethene	54.2		5.0	0.80	0.23
75-69-4	Trichlorofluoromethane	42.8		10	3.2	1.0
75-01-4	Vinyl chloride	39.1		5.0	3.2	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-278302/2-A
Matrix: Solid
Lab File ID: J6850.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 05/19/2015 18:31
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 278246
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		71-136
460-00-4	4-Bromofluorobenzene (Surr)	91		79-119
1868-53-7	Dibromofluoromethane (Surr)	94		78-119
2037-26-5	Toluene-d8 (Surr)	95		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6850.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 19-May-2015 18:31:30 ALS Bottle#: 13 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150519-35203.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2015 17:58:38 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.744	5.732	0.012	99	698355	1000.0	1000.0	
* 1 Fluorobenzene	96	7.729	7.734	-0.005	86	1098940	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.009	10.014	-0.005	73	306272	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.889	11.877	0.012	92	481565	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.172	7.172	0.000	52	374804	50.0	47.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.467	7.468	-0.001	76	385650	50.0	46.5	
$ 7 Toluene-d8 (Surr)	98	8.912	8.912	0.000	83	1072419	50.0	47.5	
$ 8 4-Bromofluorobenzene (Surr	95	10.897	10.897	0.000	77	448386	50.0	45.7	
25 Dichlorodifluoromethane	85	4.003	4.004	-0.001	74	377067	50.0	45.1	
27 Chloromethane	50	4.230	4.212	0.018	92	286843	50.0	39.5	
28 Vinyl chloride	62	4.369	4.369	0.000	98	248969	50.0	39.1	
31 Bromomethane	94	4.752	4.735	0.017	94	225979	50.0	42.4	
32 Chloroethane	64	4.804	4.787	0.017	93	149509	50.0	42.0	
33 Dichlorofluoromethane	67	4.961	4.961	0.000	94	579451	50.0	45.1	
34 Trichlorofluoromethane	101	5.065	5.065	0.000	84	517394	50.0	42.8	
37 Ethyl ether	59	5.222	5.205	0.017	93	221912	50.0	56.8	
40 Acrolein	56	5.361	5.361	0.000	89	379021	499.9	694.1	
41 Acetone	43	5.466	5.466	0.000	96	380984	200.0	192.5	
42 1,1,2-Trichloro-1,2,2-trif	151	5.483	5.466	0.017	95	268873	50.0	50.3	
45 1,1-Dichloroethene	96	5.518	5.518	0.000	88	329934	50.0	50.6	
48 Methyl acetate	43	5.692	5.692	0.000	78	1176125	250.0	270.1	
46 Iodomethane	142	5.692	5.692	0.000	65	749405	50.0	53.9	
49 3-Chloro-1-propene	41	5.762	5.744	0.018	76	644454	50.0	50.6	
51 Carbon disulfide	76	5.814	5.796	0.018	99	1403067	50.0	54.0	
50 2-Methyl-2-propanol	59	5.814	5.796	0.018	1	408379	500.0	540.8	
52 Methylene Chloride	84	5.866	5.866	0.000	76	385043	50.0	53.5	
53 Acrylonitrile	53	6.005	6.005	0.000	97	1066560	500.0	580.5	
54 Methyl tert-butyl ether	73	6.023	6.023	0.000	91	915322	50.0	55.6	
55 trans-1,2-Dichloroethene	96	6.075	6.075	0.000	96	371694	50.0	54.4	
56 Hexane	57	6.232	6.232	0.000	70	494752	50.0	52.4	
57 Vinyl acetate	43	6.336	6.319	0.017	91	1228510	100.0	111.4	
59 1,1-Dichloroethane	63	6.406	6.388	0.018	97	655952	50.0	55.1	
63 2-Butanone (MEK)	43	6.771	6.771	0.000	97	701525	200.0	204.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
64 sec-Butyl Alcohol	45	6.823	6.806	0.017	93	950744	1500.0	1640.0	
65 cis-1,2-Dichloroethene	96	6.841	6.841	0.000	83	389903	50.0	53.9	
67 2,2-Dichloropropane	77	6.876	6.858	0.018	87	542811	50.0	50.7	
69 Chlorobromomethane	128	7.032	7.032	0.000	83	207543	50.0	55.4	
70 Chloroform	83	7.050	7.032	0.018	81	691192	50.0	55.0	
71 Tetrahydrofuran	42	7.067	7.067	0.000	85	182119	100.0	114.4	
72 Isobutyl alcohol	41	7.241	7.241	0.000	52	308160	1250.0	1377.2	
73 1,1,1-Trichloroethane	97	7.259	7.259	0.000	81	590944	50.0	56.4	
74 Cyclohexane	56	7.346	7.328	0.018	78	574975	50.0	48.6	
75 1,1-Dichloropropene	75	7.363	7.363	0.000	84	518218	50.0	57.7	
76 Carbon tetrachloride	117	7.415	7.398	0.017	67	561967	50.0	57.6	
77 1,2-Dichloroethane	62	7.537	7.520	0.017	73	539916	50.0	55.5	
79 Benzene	78	7.554	7.555	-0.001	97	1299079	50.0	54.5	
14 n-Heptane	43	7.624	7.624	0.000	90	563566	50.0	51.4	
81 Trichloroethene	130	8.024	8.007	0.017	94	407963	50.0	54.2	
82 2-Pentanone	43	8.059	8.042	0.017	98	1102788	200.0	147.6	
85 Methylcyclohexane	55	8.199	8.199	0.000	81	499301	50.0	52.3	
84 1,2-Dichloropropane	63	8.199	8.199	0.000	72	348786	50.0	53.6	
86 1,4-Dioxane	88	8.251	8.251	0.000	85	70490	1000.0	1253.3	
87 Dibromomethane	93	8.303	8.303	0.000	81	265434	50.0	57.9	
88 Dichlorobromomethane	83	8.373	8.373	0.000	96	545658	50.0	56.4	
89 2-Chloroethyl vinyl ether	63	8.512	8.512	0.000	93	120189	50.0	56.1	
91 cis-1,3-Dichloropropene	75	8.686	8.686	0.000	87	602178	50.0	56.8	
92 4-Methyl-2-pentanone (MIBK	43	8.738	8.738	0.000	98	1253513	200.0	215.0	
93 Toluene	91	8.964	8.965	-0.001	90	1373053	50.0	53.8	
94 Ethyl methacrylate	69	9.051	9.034	0.017	73	418219	50.0	58.4	
95 trans-1,3-Dichloropropene	75	9.069	9.069	0.000	81	568644	50.0	58.4	
96 1,1,2-Trichloroethane	97	9.226	9.226	0.000	83	307462	50.0	56.9	
97 2-Hexanone	43	9.330	9.330	0.000	99	972131	200.0	226.2	
98 1,3-Dichloropropane	76	9.365	9.365	0.000	93	511450	50.0	56.4	
99 Tetrachloroethene	164	9.400	9.382	0.018	94	329967	50.0	53.9	
100 Chlorodibromomethane	129	9.574	9.556	0.018	85	448991	50.0	60.4	
102 Ethylene Dibromide	107	9.696	9.696	0.000	98	371560	50.0	58.0	
103 1-Chlorohexane	91	9.922	9.922	0.000	92	569176	50.0	56.8	
104 Chlorobenzene	112	10.044	10.044	0.000	91	972525	50.0	55.3	
105 Ethylbenzene	106	10.078	10.079	-0.001	89	470911	50.0	53.0	
106 1,1,1,2-Tetrachloroethane	131	10.078	10.079	-0.001	47	381088	50.0	56.3	
107 m-Xylene & p-Xylene	91	10.148	10.148	0.000	93	1357068	50.0	58.0	
108 Styrene	104	10.479	10.479	0.000	88	956471	50.0	55.3	
109 o-Xylene	106	10.479	10.479	0.000	87	559348	50.0	51.7	
110 Bromoform	173	10.688	10.688	0.000	94	291820	50.0	52.0	
111 Isopropylbenzene	105	10.740	10.740	0.000	96	1569704	50.0	55.0	
113 Cyclohexanone	55	10.879	10.879	0.000	87	431653	2000.0	2317.4	
114 1,1,2,2-Tetrachloroethane	83	10.949	10.949	0.000	44	428290	50.0	58.1	
115 trans-1,4-Dichloro-2-buten	53	10.984	10.984	0.000	38	120579	50.0	63.6	
116 1,2,3-Trichloropropane	110	11.018	11.019	-0.001	67	122338	50.0	60.5	
117 N-Propylbenzene	120	11.071	11.071	0.000	93	394343	50.0	53.9	
118 Bromobenzene	156	11.071	11.071	0.000	61	435809	50.0	55.6	
119 1,3,5-Trimethylbenzene	105	11.175	11.175	0.000	89	1292745	50.0	55.2	
120 2-Chlorotoluene	126	11.193	11.193	0.000	92	383458	50.0	56.3	
121 4-Chlorotoluene	126	11.280	11.280	0.000	97	392671	50.0	55.1	
122 tert-Butylbenzene	119	11.488	11.489	-0.001	87	1253121	50.0	53.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 1,2,4-Trimethylbenzene	105	11.506	11.506	0.000	91	1290397	50.0	52.6	
124 sec-Butylbenzene	134	11.663	11.663	0.000	92	318122	50.0	54.8	
125 4-Isopropyltoluene	119	11.767	11.767	0.000	88	1420331	50.0	54.6	
126 1,3-Dichlorobenzene	146	11.837	11.837	0.000	82	760741	50.0	54.4	
128 1,4-Dichlorobenzene	146	11.906	11.906	0.000	91	780735	50.0	55.3	
129 n-Butylbenzene	91	12.133	12.133	-0.001	95	1340291	50.0	54.3	
130 1,2-Dichlorobenzene	146	12.272	12.272	0.000	94	709422	50.0	55.3	
131 1,2-Dibromo-3-Chloropropan	157	13.038	13.038	0.000	77	93352	50.0	55.8	
132 1,2,4-Trichlorobenzene	180	14.012	14.030	-0.018	92	520527	50.0	56.0	
133 Hexachlorobutadiene	225	14.169	14.169	0.000	94	285786	50.0	51.6	
134 Naphthalene	128	14.395	14.395	0.000	98	1057169	50.0	57.8	
135 1,2,3-Trichlorobenzene	180	14.726	14.726	0.000	94	457044	50.0	55.8	
S 142 1,2-Dichloroethene, Total	96				0		100.0	108.3	
S 137 Xylenes, Total (URS)	1				0		100.0	109.8	
S 136 Trihalomethanes, Total	1				0		200.0	223.9	
S 139 1,3-Dichloropropene, Total	1				0		100.0	115.2	
S 140 1,2-Dichloroethene, Total	1				0		100.0	108.3	
S 141 Xylenes, Total	106				0		100.0	109.8	

Reagents:

MV-Main B_00010	Amount Added: 6.25	Units: uL	
MV-SS 2-Cleve_00020	Amount Added: 6.25	Units: uL	
MV-Gas/Ket B_00019	Amount Added: 6.25	Units: uL	
MV-568718-D_00003	Amount Added: 1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 20-May-2015 17:58:40 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150519-35203.b\J6850.D

Injection Date: 19-May-2015 18:31:30 Instrument ID: VMS_J Operator ID: DUKESA

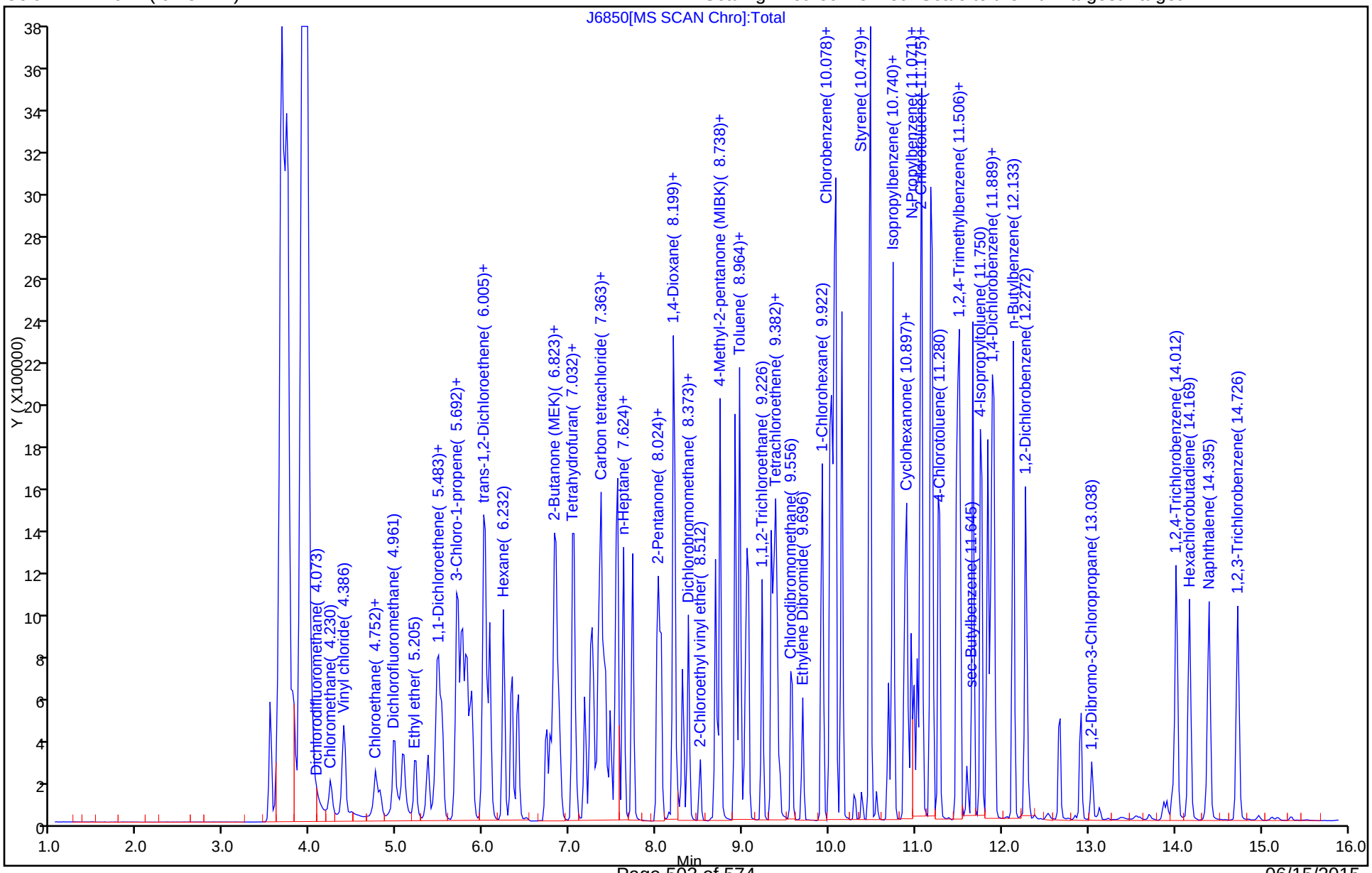
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 280-278666/2-A
Matrix: Solid | Lab File ID: J6915.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 5(g) | Date Analyzed: 05/21/2015 17:59
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 278648 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.3		5.0	1.6	0.56
71-55-6	1,1,1-Trichloroethane	52.9		5.0	1.6	0.52
79-34-5	1,1,2,2-Tetrachloroethane	50.4		5.0	1.6	0.61
79-00-5	1,1,2-Trichloroethane	50.4		5.0	3.2	0.88
75-34-3	1,1-Dichloroethane	51.1		5.0	0.80	0.21
75-35-4	1,1-Dichloroethene	48.7		5.0	1.6	0.59
563-58-6	1,1-Dichloropropene	53.6		5.0	1.6	0.54
87-61-6	1,2,3-Trichlorobenzene	49.6		5.0	1.6	0.75
96-18-4	1,2,3-Trichloropropane	51.9		5.0	3.2	0.81
120-82-1	1,2,4-Trichlorobenzene	50.3		5.0	1.6	0.73
95-63-6	1,2,4-Trimethylbenzene	48.6		5.0	1.6	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	46.4		10	1.6	0.60
95-50-1	1,2-Dichlorobenzene	49.8		5.0	1.6	0.45
107-06-2	1,2-Dichloroethane	50.4		5.0	1.6	0.70
78-87-5	1,2-Dichloropropane	48.8		5.0	1.6	0.55
108-67-8	1,3,5-Trimethylbenzene	49.8		5.0	1.6	0.57
541-73-1	1,3-Dichlorobenzene	50.6		5.0	1.6	0.48
142-28-9	1,3-Dichloropropane	46.7		5.0	1.6	0.51
106-46-7	1,4-Dichlorobenzene	49.6		5.0	1.6	0.78
594-20-7	2,2-Dichloropropane	46.9		5.0	1.6	0.44
78-93-3	2-Butanone (MEK)	202		20	6.4	1.8
95-49-8	2-Chlorotoluene	48.9		5.0	1.6	0.51
591-78-6	2-Hexanone	210		20	13	4.9
106-43-4	4-Chlorotoluene	52.5		5.0	1.6	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	212		20	13	4.4
67-64-1	Acetone	203		20	13	5.4
71-43-2	Benzene	49.1		5.0	1.6	0.47
108-86-1	Bromobenzene	50.5		5.0	1.6	0.49
74-97-5	Bromochloromethane	51.4		5.0	0.80	0.30
75-27-4	Bromodichloromethane	51.5		5.0	0.80	0.22
75-25-2	Bromoform	44.5		5.0	0.80	0.23
74-83-9	Bromomethane	51.0		10	1.6	0.50
75-15-0	Carbon disulfide	48.3		5.0	1.6	0.42
56-23-5	Carbon tetrachloride	54.5		5.0	1.6	0.63
108-90-7	Chlorobenzene	47.3		5.0	1.6	0.54
75-00-3	Chloroethane	52.7		10	3.2	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-278666/2-A
Matrix: Solid
Lab File ID: J6915.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 05/21/2015 17:59
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 278648
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-66-3	Chloroform	51.5		10	0.80	0.29
74-87-3	Chloromethane	49.7		10	1.6	0.77
156-59-2	cis-1,2-Dichloroethene	49.3		5.0	1.6	0.56
10061-01-5	cis-1,3-Dichloropropene	48.8		5.0	3.2	1.3
124-48-1	Dibromochloromethane	51.4		5.0	1.6	0.57
74-95-3	Dibromomethane	51.8		5.0	3.2	0.84
75-71-8	Dichlorodifluoromethane	56.3		10	1.6	0.52
100-41-4	Ethylbenzene	47.0		5.0	1.6	0.67
106-93-4	Ethylene Dibromide	48.5		5.0	1.6	0.52
87-68-3	Hexachlorobutadiene	49.1		5.0	1.6	0.55
98-82-8	Isopropylbenzene	49.7		5.0	1.6	0.59
1634-04-4	Methyl tert-butyl ether	50.0		20	0.80	0.34
75-09-2	Methylene Chloride	49.5		5.0	3.2	1.6
179601-23-1	m-Xylene & p-Xylene	48.3		3.2	3.2	1.0
91-20-3	Naphthalene	49.6		5.0	1.6	0.63
104-51-8	n-Butylbenzene	49.1		5.0	1.6	0.56
103-65-1	N-Propylbenzene	49.8		5.0	1.6	0.58
99-87-6	4-Isopropyltoluene	49.4		5.0	1.6	0.49
95-47-6	o-Xylene	44.5		5.0	1.6	0.61
135-98-8	sec-Butylbenzene	50.0		5.0	1.6	0.77
100-42-5	Styrene	46.9		5.0	1.6	0.63
75-65-0	tert-Butyl alcohol	535		200	32	13
98-06-6	tert-Butylbenzene	49.0		5.0	1.6	0.50
127-18-4	Tetrachloroethene	47.1		5.0	1.6	0.59
108-88-3	Toluene	50.3		5.0	1.6	0.69
156-60-5	trans-1,2-Dichloroethene	50.5		5.0	0.80	0.39
10061-02-6	trans-1,3-Dichloropropene	52.2		5.0	1.6	0.67
79-01-6	Trichloroethene	49.8		5.0	0.80	0.23
75-69-4	Trichlorofluoromethane	51.6		10	3.2	1.0
75-01-4	Vinyl chloride	51.6		5.0	3.2	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-278666/2-A
Matrix: Solid
Lab File ID: J6915.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 05/21/2015 17:59
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 278648
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		71-136
460-00-4	4-Bromofluorobenzene (Surr)	101		79-119
1868-53-7	Dibromofluoromethane (Surr)	102		78-119
2037-26-5	Toluene-d8 (Surr)	95		85-116

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6915.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-May-2015 17:59:30 ALS Bottle#: 12 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: DUKESA Instrument ID: VMS_J

Method: \\Denchrom\ChromData\VMS_J\20150521-35307.b\SO_VMSJ_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 21-May-2015 23:29:18 Calib Date: 18-May-2015 20:11:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_J\20150518-35151.b\J6818.D

Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: dukesa Date: 21-May-2015 19:00:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.733	5.732	0.001	99	553344	1000.0	1000.0	
* 1 Fluorobenzene	96	7.717	7.716	0.001	92	1036308	50.0	50.0	
* 2 Chlorobenzene-d5	119	10.015	10.014	0.001	70	307884	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.877	11.876	0.001	96	463482	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	111	7.178	7.160	0.018	52	382304	50.0	50.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.473	7.456	0.017	78	379710	50.0	48.6	
$ 7 Toluene-d8 (Surr)	98	8.918	8.919	-0.001	84	1082512	50.0	47.7	
$ 8 4-Bromofluorobenzene (Surr	95	10.903	10.903	0.000	93	475907	50.0	50.4	
25 Dichlorodifluoromethane	85	3.992	3.992	0.000	97	447391	50.0	56.3	
27 Chloromethane	50	4.218	4.219	-0.001	99	346285	50.0	49.7	
28 Vinyl chloride	62	4.358	4.358	0.000	83	315393	50.0	51.6	
31 Bromomethane	94	4.741	4.741	0.000	95	257635	50.0	51.0	
32 Chloroethane	64	4.793	4.793	0.000	91	175076	50.0	52.7	
33 Dichlorofluoromethane	67	4.967	4.967	0.000	94	612972	50.0	50.3	
34 Trichlorofluoromethane	101	5.071	5.072	-0.001	96	591849	50.0	51.6	
37 Ethyl ether	59	5.211	5.211	0.000	94	190223	50.0	51.6	
40 Acrolein	56	5.350	5.350	0.000	88	242286	499.9	470.5	
41 Acetone	43	5.454	5.455	-0.001	97	379489	200.0	203.4	
42 1,1,2-Trichloro-1,2,2-trif	151	5.472	5.472	0.000	87	248631	50.0	49.4	
45 1,1-Dichloroethene	96	5.524	5.507	0.017	98	299763	50.0	48.7	
46 Iodomethane	142	5.698	5.681	0.017	67	666354	50.0	50.8	
48 Methyl acetate	43	5.698	5.698	0.000	97	980483	250.0	238.8	
49 3-Chloro-1-propene	41	5.750	5.750	0.000	85	551814	50.0	45.9	
51 Carbon disulfide	76	5.802	5.803	-0.001	100	1184133	50.0	48.3	
50 2-Methyl-2-propanol	59	5.802	5.803	-0.001	1	320253	500.0	535.2	
52 Methylene Chloride	84	5.855	5.855	0.000	83	337335	50.0	49.5	
53 Acrylonitrile	53	6.011	5.994	0.017	97	867226	500.0	500.5	
54 Methyl tert-butyl ether	73	6.029	6.029	0.000	91	776233	50.0	50.0	
55 trans-1,2-Dichloroethene	96	6.081	6.064	0.017	96	325291	50.0	50.5	
56 Hexane	57	6.238	6.220	0.018	70	425420	50.0	44.8	
57 Vinyl acetate	43	6.325	6.325	0.000	91	1118343	100.0	107.6	
59 1,1-Dichloroethane	63	6.394	6.395	0.000	85	573224	50.0	51.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
63 2-Butanone (MEK)	43	6.777	6.777	0.000	98	656183	200.0	202.5	
64 sec-Butyl Alcohol	45	6.812	6.812	0.000	94	762177	1500.0	1659.2	
65 cis-1,2-Dichloroethene	96	6.829	6.830	-0.001	86	335931	50.0	49.3	
67 2,2-Dichloropropane	77	6.864	6.865	0.000	88	473394	50.0	46.9	
69 Chlorobromomethane	128	7.038	7.039	-0.001	63	181565	50.0	51.4	
70 Chloroform	83	7.038	7.039	-0.001	95	610217	50.0	51.5	
71 Tetrahydrofuran	42	7.073	7.056	0.017	82	141770	100.0	94.3	
72 Isobutyl alcohol	41	7.230	7.230	0.000	17	235024	1250.0	1325.6	
73 1,1,1-Trichloroethane	97	7.265	7.265	0.000	76	522833	50.0	52.9	
74 Cyclohexane	56	7.334	7.334	0.000	92	494634	50.0	44.3	
75 1,1-Dichloropropene	75	7.369	7.352	0.017	88	453967	50.0	53.6	
76 Carbon tetrachloride	117	7.404	7.404	0.000	67	501910	50.0	54.5	
77 1,2-Dichloroethane	62	7.526	7.526	0.000	89	462179	50.0	50.4	
79 Benzene	78	7.543	7.543	0.000	97	1102981	50.0	49.1	
14 n-Heptane	43	7.613	7.613	0.000	92	488113	50.0	47.2	
81 Trichloroethene	130	8.013	8.013	0.000	92	353705	50.0	49.8	
82 2-Pentanone	43	8.048	8.048	0.000	97	893529	200.0	126.8	
84 1,2-Dichloropropane	63	8.205	8.187	0.018	70	299676	50.0	48.8	
85 Methylcyclohexane	55	8.205	8.205	0.000	88	445648	50.0	49.5	
86 1,4-Dioxane	88	8.257	8.240	0.017	86	61552	1000.0	1160.5	
87 Dibromomethane	93	8.309	8.292	0.017	82	224086	50.0	51.8	
88 Dichlorobromomethane	83	8.379	8.362	0.017	91	469570	50.0	51.5	
89 2-Chloroethyl vinyl ether	63	8.500	8.501	-0.001	92	91284	50.0	45.5	
91 cis-1,3-Dichloropropene	75	8.692	8.675	0.017	88	519955	50.0	48.8	
92 4-Methyl-2-pentanone (MIBK	43	8.744	8.727	0.017	97	1163397	200.0	211.6	
93 Toluene	91	8.970	8.971	-0.001	86	1211054	50.0	50.3	
94 Ethyl methacrylate	69	9.040	9.040	0.000	87	354796	50.0	49.3	
95 trans-1,3-Dichloropropene	75	9.057	9.058	-0.001	94	479563	50.0	52.2	
96 1,1,2-Trichloroethane	97	9.232	9.214	0.018	85	256997	50.0	50.4	
97 2-Hexanone	43	9.336	9.336	0.000	97	908376	200.0	210.3	
98 1,3-Dichloropropane	76	9.371	9.354	0.017	89	426256	50.0	46.7	
99 Tetrachloroethene	164	9.388	9.389	-0.001	92	289484	50.0	47.1	
100 Chlorodibromomethane	129	9.562	9.563	-0.001	85	383984	50.0	51.4	
102 Ethylene Dibromide	107	9.684	9.684	0.000	97	312558	50.0	48.5	
103 1-Chlorohexane	91	9.910	9.911	-0.001	96	484733	50.0	48.1	
104 Chlorobenzene	112	10.032	10.033	-0.001	92	836957	50.0	47.3	
105 Ethylbenzene	106	10.067	10.067	0.000	83	419402	50.0	47.0	
106 1,1,1,2-Tetrachloroethane	131	10.067	10.067	0.000	33	335186	50.0	49.3	
107 m-Xylene & p-Xylene	91	10.154	10.137	0.017	99	1138997	50.0	48.3	
108 Styrene	104	10.467	10.468	-0.001	82	815093	50.0	46.9	
109 o-Xylene	106	10.467	10.468	-0.001	86	483882	50.0	44.5	
110 Bromoform	173	10.694	10.694	0.000	85	250365	50.0	44.5	
111 Isopropylbenzene	105	10.746	10.729	0.017	95	1365413	50.0	49.7	
113 Cyclohexanone	55	10.868	10.868	0.000	91	411631	2000.0	2198.3	
114 1,1,2,2-Tetrachloroethane	83	10.955	10.955	0.000	48	357759	50.0	50.4	
115 trans-1,4-Dichloro-2-buten	53	10.972	10.973	-0.001	69	97939	50.0	53.6	
116 1,2,3-Trichloropropane	110	11.024	11.025	-0.001	74	101026	50.0	51.9	
117 N-Propylbenzene	120	11.059	11.060	-0.001	94	350072	50.0	49.8	
118 Bromobenzene	156	11.077	11.077	0.000	48	381315	50.0	50.5	
119 1,3,5-Trimethylbenzene	105	11.181	11.181	0.000	86	1122870	50.0	49.8	
120 2-Chlorotoluene	126	11.199	11.199	0.000	97	320284	50.0	48.9	
121 4-Chlorotoluene	126	11.268	11.199	0.069	98	360431	50.0	52.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 tert-Butylbenzene	119	11.477	11.477	0.000	89	1102541	50.0	49.0	
123 1,2,4-Trimethylbenzene	105	11.512	11.512	0.000	92	1147055	50.0	48.6	
124 sec-Butylbenzene	134	11.669	11.669	0.000	90	279227	50.0	50.0	
125 4-Isopropyltoluene	119	11.756	11.756	0.000	85	1238668	50.0	49.4	
126 1,3-Dichlorobenzene	146	11.843	11.843	0.000	60	681312	50.0	50.6	
128 1,4-Dichlorobenzene	146	11.912	11.913	-0.001	94	674456	50.0	49.6	
129 n-Butylbenzene	91	12.121	12.139	-0.018	95	1167013	50.0	49.1	
130 1,2-Dichlorobenzene	146	12.278	12.278	0.000	97	615259	50.0	49.8	
131 1,2-Dibromo-3-Chloropropan	157	13.044	13.044	0.000	87	74061	50.0	46.4	
132 1,2,4-Trichlorobenzene	180	14.018	14.019	-0.001	91	449711	50.0	50.3	
133 Hexachlorobutadiene	225	14.175	14.175	0.000	89	262063	50.0	49.1	
134 Naphthalene	128	14.401	14.402	-0.001	97	873202	50.0	49.6	
135 1,2,3-Trichlorobenzene	180	14.732	14.732	0.000	93	391134	50.0	49.6	
S 142 1,2-Dichloroethene, Total	96				0		100.0	99.7	
S 137 Xylenes, Total (URS)	1				0		100.0	92.8	
S 136 Trihalomethanes, Total	1				0		200.0	198.9	
S 139 1,3-Dichloropropene, Total	1				0		100.0	101.0	
S 140 1,2-Dichloroethene, Total	1				0		100.0	99.7	
S 141 Xylenes, Total	106				0		100.0	92.8	

Reagents:

MV-Main B_00010	Amount Added:	6.25	Units: uL	
MV-SS 2-Cleve_00020	Amount Added:	6.25	Units: uL	
MV-Gas/Ket B_00019	Amount Added:	6.25	Units: uL	
MV-568718-D_00003	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00045	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-May-2015 23:29:20 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_J\20150521-35307.b\J6915.D

Injection Date: 21-May-2015 17:59:30 Instrument ID: VMS_J Operator ID: DUKESA

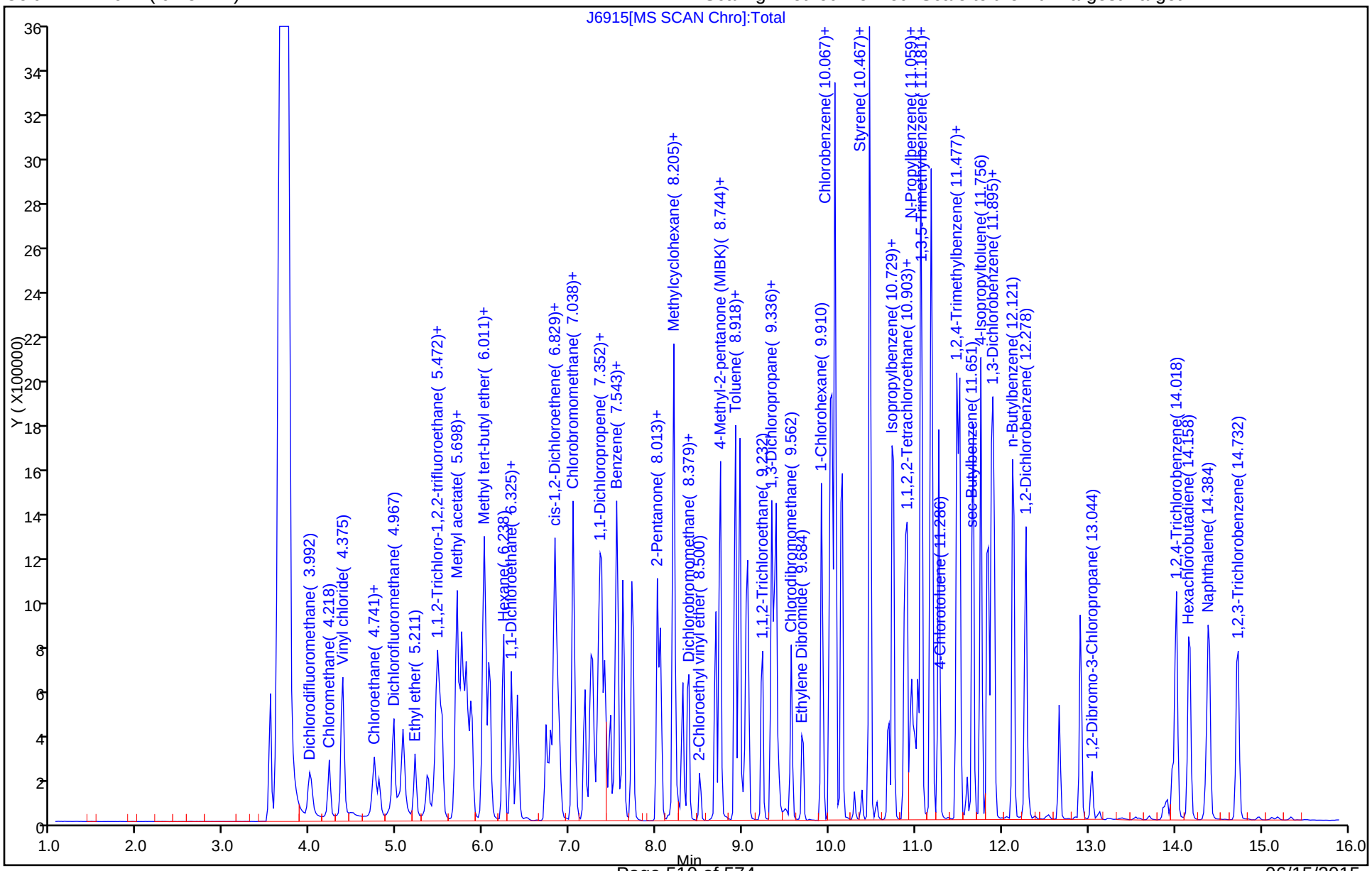
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: SO_VMSJ_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-69452-1
SDG No.:
Client Sample ID: | Lab Sample ID: LCS 280-279635/4
Matrix: Water | Lab File ID: H3064.D
Analysis Method: 8260B | Date Collected:
Sample wt/vol: 20(mL) | Date Analyzed: 05/29/2015 21:45
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 279635 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	5.12		1.0	0.80	0.17
71-55-6	1,1,1-Trichloroethane	5.07		1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	4.54		1.0	0.80	0.20
79-00-5	1,1,2-Trichloroethane	4.70		1.0	0.80	0.32
75-34-3	1,1-Dichloroethane	4.93		1.0	0.80	0.16
75-35-4	1,1-Dichloroethene	5.05		1.0	0.80	0.14
563-58-6	1,1-Dichloropropene	5.31		1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	4.85	M	1.0	0.80	0.18
96-18-4	1,2,3-Trichloropropane	4.64		3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	4.97	M	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	4.72		1.0	0.40	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	4.88	J	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	4.81		1.0	0.40	0.13
107-06-2	1,2-Dichloroethane	4.80		1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	4.89		1.0	0.40	0.13
108-67-8	1,3,5-Trimethylbenzene	4.82		1.0	0.40	0.14
541-73-1	1,3-Dichlorobenzene	4.64		1.0	0.40	0.16
142-28-9	1,3-Dichloropropane	4.69		1.0	0.80	0.15
106-46-7	1,4-Dichlorobenzene	5.04		1.0	0.40	0.16
594-20-7	2,2-Dichloropropane	5.08		1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	20.5		6.0	4.0	1.8
95-49-8	2-Chlorotoluene	4.83		1.0	0.40	0.17
591-78-6	2-Hexanone	19.5		5.0	4.0	1.4
106-43-4	4-Chlorotoluene	4.97		1.0	0.80	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	20.8		5.0	3.2	1.0
67-64-1	Acetone	18.8		10	6.4	1.9
71-43-2	Benzene	5.15		1.0	0.40	0.16
108-86-1	Bromobenzene	4.86		1.0	0.40	0.17
74-97-5	Bromochloromethane	4.95		1.0	0.20	0.10
75-27-4	Bromodichloromethane	4.77		1.0	0.40	0.17
75-25-2	Bromoform	4.98		1.0	0.40	0.19
74-83-9	Bromomethane	5.50		2.0	0.80	0.21
75-15-0	Carbon disulfide	4.80		2.0	1.6	0.45
56-23-5	Carbon tetrachloride	5.26		2.0	0.40	0.19
108-90-7	Chlorobenzene	5.13		1.0	0.40	0.17
75-00-3	Chloroethane	5.04		2.0	1.6	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-279635/4
Matrix: Water
Lab File ID: H3064.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 20(mL)
Date Analyzed: 05/29/2015 21:45
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 279635
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
67-66-3	Chloroform	4.99		1.0	0.40	0.16
74-87-3	Chloromethane	4.98		2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	5.07		1.0	0.40	0.15
124-48-1	Chlorodibromomethane	4.92		1.0	0.40	0.17
10061-01-5	cis-1,3-Dichloropropene	5.15		1.0	0.40	0.16
74-95-3	Dibromomethane	4.72		1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	5.78		2.0	0.80	0.31
100-41-4	Ethylbenzene	5.14		1.0	0.40	0.16
106-93-4	1,2-Dibromoethane	4.95		1.0	0.40	0.18
87-68-3	Hexachlorobutadiene	5.07		1.0	0.80	0.36
98-82-8	Isopropylbenzene	4.86		1.0	0.40	0.19
1634-04-4	Methyl tert-butyl ether	4.83	J	5.0	0.80	0.25
75-09-2	Methylene Chloride	5.13		5.0	0.80	0.32
179601-23-1	m-Xylene & p-Xylene	5.17		2.0	0.80	0.34
91-20-3	Naphthalene	4.78		1.0	0.80	0.22
104-51-8	n-Butylbenzene	4.79		1.0	0.80	0.32
103-65-1	N-Propylbenzene	4.86		1.0	0.40	0.16
95-47-6	o-Xylene	5.19		1.0	0.40	0.19
99-87-6	p-Isopropyltoluene	4.99		1.0	0.40	0.17
135-98-8	sec-Butylbenzene	4.85		1.0	0.40	0.17
100-42-5	Styrene	4.98		1.0	0.40	0.17
75-65-0	tert-Butyl alcohol	50.5		50	32	11
98-06-6	tert-Butylbenzene	4.87		1.0	0.40	0.16
127-18-4	Tetrachloroethene	5.28		1.0	0.40	0.20
108-88-3	Toluene	5.03		1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	5.22		1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	5.18		1.0	0.40	0.19
79-01-6	Trichloroethene	5.21		1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	5.48		2.0	0.80	0.29
75-01-4	Vinyl chloride	5.23		1.5	0.20	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-69452-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-279635/4
Matrix: Water
Lab File ID: H3064.D
Analysis Method: 8260B
Date Collected:
Sample wt/vol: 20(mL)
Date Analyzed: 05/29/2015 21:45
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 (75.53) ID: 0.53(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 279635
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	96		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20150529-35532.b\H3064.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-May-2015 21:45:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 20.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: bergerb Instrument ID: VMS_H

Method: \\Denchrom\ChromData\VMS_H\20150529-35532.b\AQ_VMSH_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2015 16:42:37 Calib Date: 28-May-2015 05:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20150528-35452.b\H2962.D

Column 1 : DB-624 (75.53) (0.53 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: bergerb Date: 01-Jun-2015 17:38:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 TBA-d9 (IS)	65	3.970	3.958	0.012	97	223037	250.0	250.0	
* 2 Fluorobenzene	96	6.756	6.761	-0.005	97	1250258	12.5	12.5	
* 4 Chlorobenzene-d5	119	11.108	11.113	-0.005	92	276177	12.5	12.5	
* 5 1,4-Dichlorobenzene-d4	152	14.120	14.108	0.012	97	474716	12.5	12.5	
$ 8 Dibromofluoromethane (Surr	111	5.920	5.925	-0.005	93	516425	8.50	8.18	
$ 9 1,2-Dichloroethane-d4 (Sur	65	6.338	6.343	-0.005	83	289160	8.50	8.27	
$ 10 Toluene-d8 (Surr)	98	8.880	8.885	-0.005	94	1188136	8.50	8.82	
$ 11 4-Bromofluorobenzene (Surr	95	12.762	12.767	-0.005	81	630368	8.50	7.76	
28 Dichlorodifluoromethane	85	2.160	2.165	-0.005	97	345971	5.00	5.78	
30 Chloromethane	50	2.264	2.252	0.012	98	193852	5.00	4.98	
31 Butadiene	54	2.386	2.374	0.012	0	156467	NC	NC	
32 Vinyl chloride	62	2.386	2.391	-0.005	98	199018	5.00	5.23	
35 Bromomethane	94	2.682	2.670	0.012	89	173657	5.00	5.50	
36 Chloroethane	64	2.751	2.739	0.012	100	116603	5.00	5.04	
37 Dichlorofluoromethane	67	2.926	2.931	-0.005	99	455338	5.00	5.42	
38 Trichlorofluoromethane	101	2.995	2.983	0.012	99	411578	5.00	5.48	
40 Ethyl ether	59	3.222	3.209	0.013	93	102047	5.00	5.14	
44 Acrolein	56	3.361	3.366	-0.005	96	37885	50.0	27.7	
45 1,1-Dichloroethene	96	3.483	3.470	0.013	94	188634	5.00	5.05	
46 1,1,2-Trichloro-1,2,2-trif	151	3.500	3.505	-0.005	97	258440	5.00	5.08	
47 Acetone	43	3.518	3.505	0.013	38	72972	20.0	18.8	
48 Iodomethane	142	3.657	3.644	0.013	99	427983	5.00	5.09	
50 Carbon disulfide	76	3.726	3.714	0.012	100	691519	5.00	4.80	
52 3-Chloro-1-propene	41	3.813	3.819	-0.006	88	400816	5.00	4.62	
53 Methyl acetate	43	3.831	3.819	0.012	75	297799	25.0	23.6	
54 Methylene Chloride	84	3.953	3.940	0.013	99	176927	5.00	5.13	
55 2-Methyl-2-propanol	59	4.075	4.062	0.013	91	57144	50.0	50.5	
57 Acrylonitrile	53	4.214	4.202	0.012	98	153126	50.0	47.0	
56 Methyl tert-butyl ether	73	4.231	4.236	-0.005	87	343584	5.00	4.83	
58 trans-1,2-Dichloroethene	96	4.249	4.236	0.013	94	219421	5.00	5.22	
59 Hexane	57	4.510	4.498	0.012	96	391715	5.00	5.29	
60 1,1-Dichloroethane	63	4.701	4.689	0.012	96	436959	5.00	4.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
61 Vinyl acetate	43	4.719	4.706	0.013	96	458140	10.0	8.34	
65 cis-1,2-Dichloroethene	96	5.363	5.351	0.012	88	214695	5.00	5.07	
67 2-Butanone (MEK)	43	5.363	5.351	0.012	51	147240	20.0	20.5	
66 2,2-Dichloropropane	77	5.380	5.368	0.012	92	428243	5.00	5.08	
71 sec-Butyl Alcohol	45	5.589	5.577	0.012	96	226655	150.0	141.9	
73 Chlorobromomethane	128	5.659	5.647	0.012	91	91909	5.00	4.95	
74 Tetrahydrofuran	42	5.711	5.716	-0.005	53	46290	10.0	8.97	
75 Chloroform	83	5.729	5.716	0.013	97	413407	5.00	4.99	
76 1,1,1-Trichloroethane	97	5.972	5.977	-0.005	97	401197	5.00	5.07	
77 Cyclohexane	56	6.059	6.047	0.012	97	438347	5.00	5.02	
78 1,1-Dichloropropene	75	6.164	6.151	0.013	92	376245	5.00	5.31	
79 Carbon tetrachloride	117	6.181	6.186	-0.005	97	386828	5.00	5.26	
80 Isobutyl alcohol	41	6.286	6.291	-0.005	92	68393	125.0	122.3	
81 Benzene	78	6.425	6.413	0.012	98	675072	5.00	5.15	
82 1,2-Dichloroethane	62	6.442	6.430	0.012	95	190088	5.00	4.80	
84 n-Heptane	43	6.721	6.726	-0.005	97	597834	5.00	5.15	
86 Trichloroethene	95	7.243	7.231	0.012	97	277276	5.00	5.21	
88 2-Pentanone	43	7.469	7.457	0.012	96	365137	20.0	18.4	
89 Methylcyclohexane	55	7.504	7.492	0.012	91	400986	5.00	5.16	
90 1,2-Dichloropropane	63	7.539	7.527	0.012	95	256115	5.00	4.89	
92 Dibromomethane	93	7.696	7.701	-0.005	92	123161	5.00	4.72	
93 1,4-Dioxane	88	7.731	7.718	0.013	30	10655	100.0	79.8	
94 Dichlorobromomethane	83	7.905	7.892	0.013	98	363058	5.00	4.77	
96 2-Chloroethyl vinyl ether	63	8.288	8.293	-0.005	90	33218	5.00	3.55	
97 cis-1,3-Dichloropropene	75	8.497	8.502	-0.005	91	334854	5.00	5.15	
98 4-Methyl-2-pentanone (MIBK	43	8.723	8.711	0.012	97	551206	20.0	20.8	
99 Toluene	91	8.984	8.972	0.012	98	755668	5.00	5.03	
100 trans-1,3-Dichloropropene	75	9.280	9.285	-0.005	98	248561	5.00	5.18	
101 Ethyl methacrylate	69	9.419	9.407	0.012	96	201982	5.00	5.06	
102 1,1,2-Trichloroethane	97	9.559	9.546	0.013	94	141441	5.00	4.70	
103 Tetrachloroethene	164	9.768	9.773	-0.005	96	237079	5.00	5.28	
104 1,3-Dichloropropane	76	9.802	9.790	0.012	95	237459	5.00	4.69	
105 2-Hexanone	43	9.924	9.929	-0.005	98	353056	20.0	19.5	
108 Chlorodibromomethane	129	10.151	10.156	-0.005	90	242371	5.00	4.92	
109 Ethylene Dibromide	107	10.342	10.330	0.012	97	171935	5.00	4.95	
110 1-Chlorohexane	91	11.125	11.113	0.012	92	398114	5.00	5.24	
111 Chlorobenzene	112	11.160	11.148	0.012	90	507837	5.00	5.13	
112 1,1,1,2-Tetrachloroethane	131	11.282	11.287	-0.005	95	244664	5.00	5.12	
113 Ethylbenzene	106	11.334	11.322	0.012	99	259569	5.00	5.14	
114 m-Xylene & p-Xylene	106	11.509	11.496	0.012	98	355056	5.00	5.17	
115 o-Xylene	106	12.083	12.071	0.012	98	312824	5.00	5.19	
116 Styrene	104	12.100	12.088	0.012	92	485253	5.00	4.98	
117 Bromoform	173	12.344	12.349	-0.005	94	132557	5.00	4.98	
118 Isopropylbenzene	105	12.570	12.558	0.012	97	989495	5.00	4.86	
120 Cyclohexanone	55	12.692	12.697	-0.005	95	117206	200.0	192.7	
122 Bromobenzene	156	12.954	12.941	0.013	94	228109	5.00	4.86	
121 1,1,2,2-Tetrachloroethane	83	12.954	12.959	-0.005	94	192264	5.00	4.54	
123 1,2,3-Trichloropropane	110	13.006	12.993	0.013	79	45916	5.00	4.64	
124 trans-1,4-Dichloro-2-buten	53	13.023	13.028	-0.005	66	52881	5.00	4.76	
125 N-Propylbenzene	120	13.093	13.080	0.013	99	241769	5.00	4.86	
126 2-Chlorotoluene	126	13.180	13.185	-0.005	97	186244	5.00	4.83	
127 1,3,5-Trimethylbenzene	105	13.302	13.289	0.013	95	741572	5.00	4.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 4-Chlorotoluene	126	13.319	13.307	0.012	98	247725	5.00	4.97	
129 tert-Butylbenzene	119	13.685	13.672	0.013	94	813038	5.00	4.87	
130 1,2,4-Trimethylbenzene	105	13.737	13.725	0.012	95	689716	5.00	4.72	
131 sec-Butylbenzene	134	13.928	13.916	0.012	95	213835	5.00	4.85	
132 1,3-Dichlorobenzene	146	14.050	14.038	0.012	96	330482	5.00	4.64	
133 4-Isopropyltoluene	119	14.085	14.073	0.012	98	945963	5.00	4.99	
134 1,4-Dichlorobenzene	146	14.137	14.142	-0.005	93	554474	5.00	5.04	
137 n-Butylbenzene	91	14.520	14.508	0.012	99	953645	5.00	4.79	
138 1,2-Dichlorobenzene	146	14.538	14.543	-0.005	97	359485	5.00	4.81	
139 1,2-Dibromo-3-Chloropropan	157	15.321	15.309	0.012	82	34058	5.00	4.88	
141 1,2,4-Trichlorobenzene	180	16.087	16.075	0.012	94	249567	5.00	4.97	a
142 Hexachlorobutadiene	225	16.227	16.232	-0.005	97	265625	5.00	5.07	
143 Naphthalene	128	16.314	16.301	0.013	98	273288	5.00	4.78	
144 1,2,3-Trichlorobenzene	180	16.540	16.528	0.012	93	192073	5.00	4.85	a
S 151 1,2-Dichloroethene, Total	96				0		10.0	10.3	
S 149 1,2-Dichloroethene, Total	1				0		10.0	10.3	
S 150 Xylenes, Total	106				0		10.0	10.4	
S 148 1,3-Dichloropropene, Total	1				0		10.0	10.3	
S 145 Trihalomethanes, Total	1				0		20.0	19.7	
S 146 Xylenes, Total (URS)	1				0		10.0	10.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

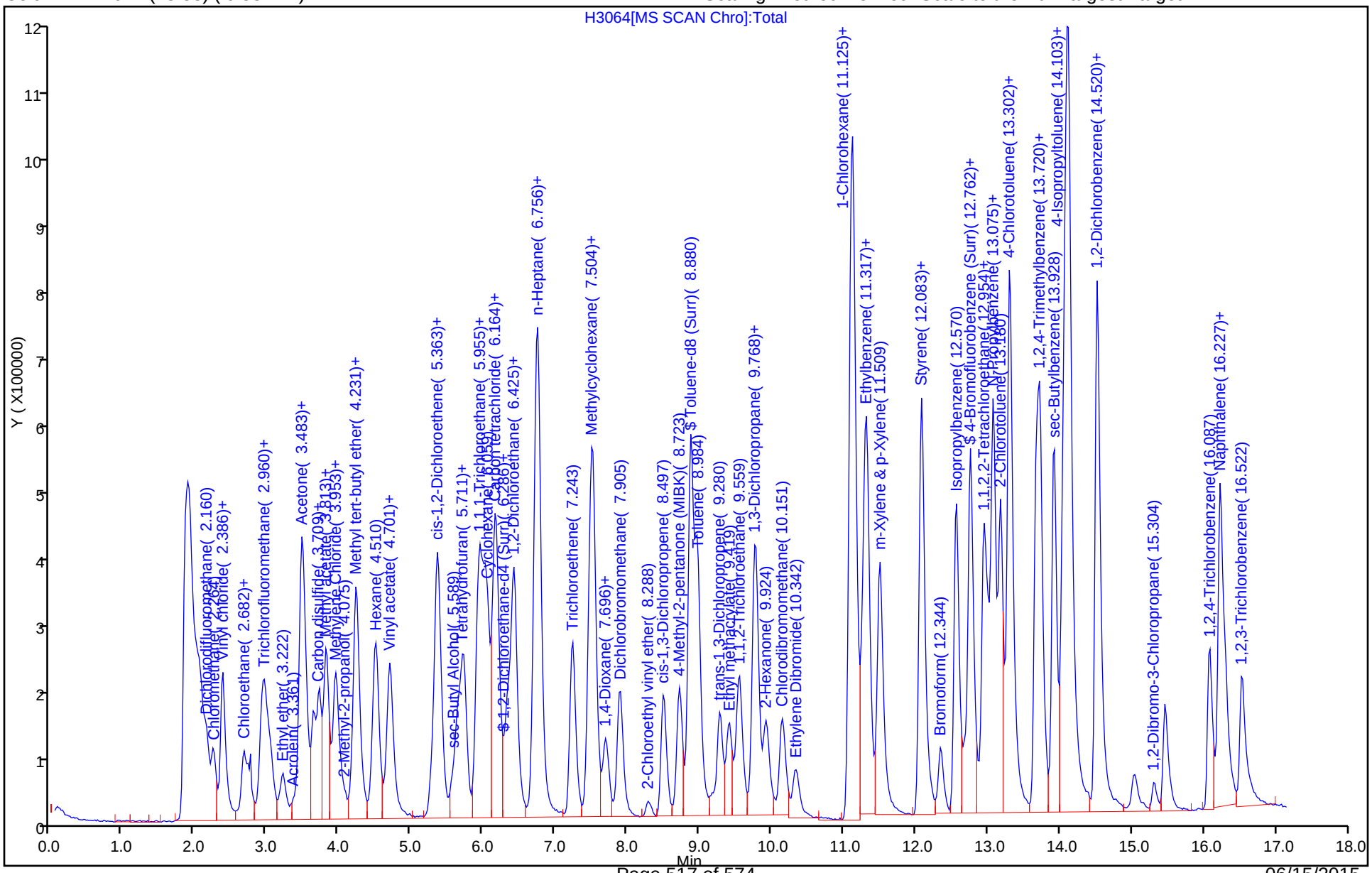
MV-Main B_00010	Amount Added:	2.50	Units: uL	
MV-Gas/Ket B_00017	Amount Added:	2.50	Units: uL	
MV-SS 2-Cleve_00020	Amount Added:	2.50	Units: uL	
MV-568718-D_00002	Amount Added:	1.00	Units: uL	Run Reagent
MV-ARCH SS A_00042	Amount Added:	0.68	Units: uL	Run Reagent

Report Date: 02-Jun-2015 16:42:37 Chrom Revision: 2.2 05-May-2015 11:39:10

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3064.D				
Injection Date:	29-May-2015 21:45:30	Instrument ID:	VMS_H	Operator ID:	bergerb
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	20.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (75.53) (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

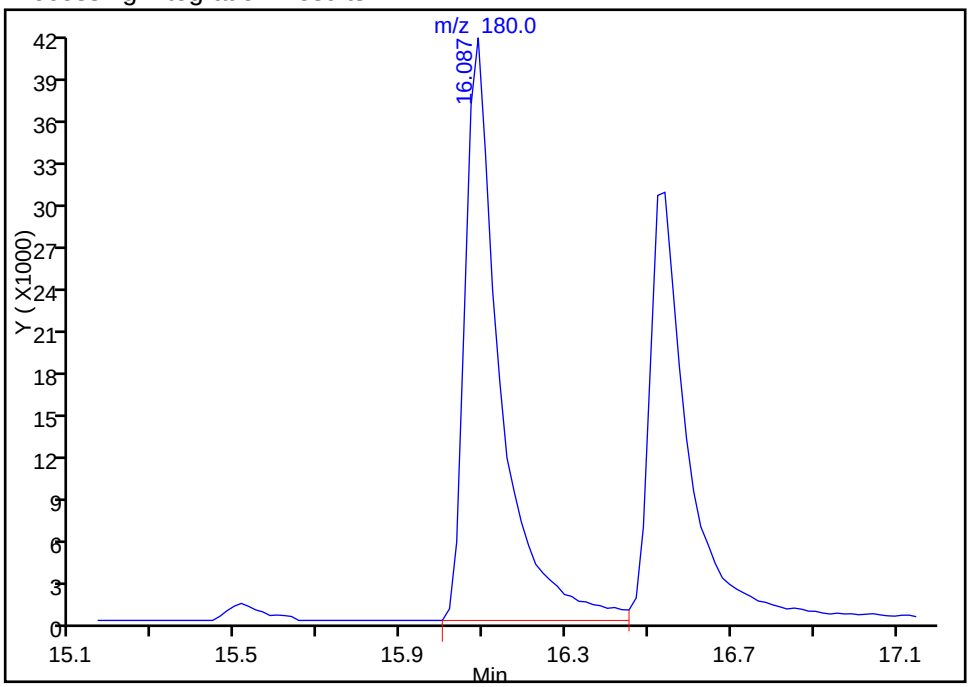
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3064.D				
Injection Date:	29-May-2015 21:45:30	Instrument ID:	VMS_H		
Lims ID:	LCS				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

144 1,2,3-Trichlorobenzene, CAS: 87-61-6

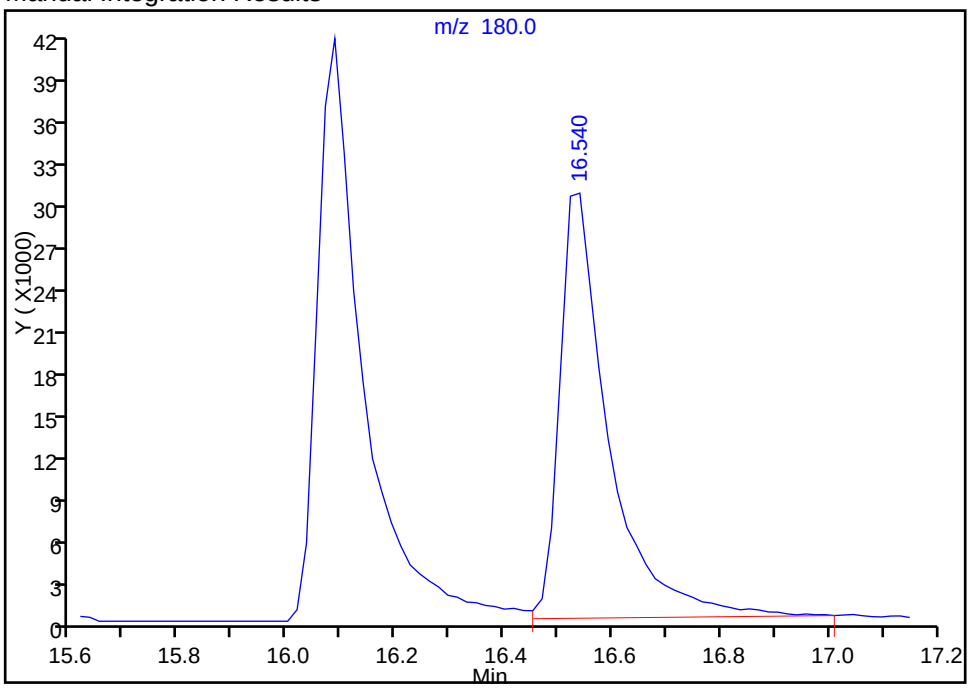
Processing Integration Results

RT: 16.09
Area: 249567
Amount: 6.307408
Amount Units: ug/l



Manual Integration Results

RT: 16.54
Area: 192073
Amount: 4.854339
Amount Units: ug/l



Reviewer: bergerb, 02-Jun-2015 16:42:37
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

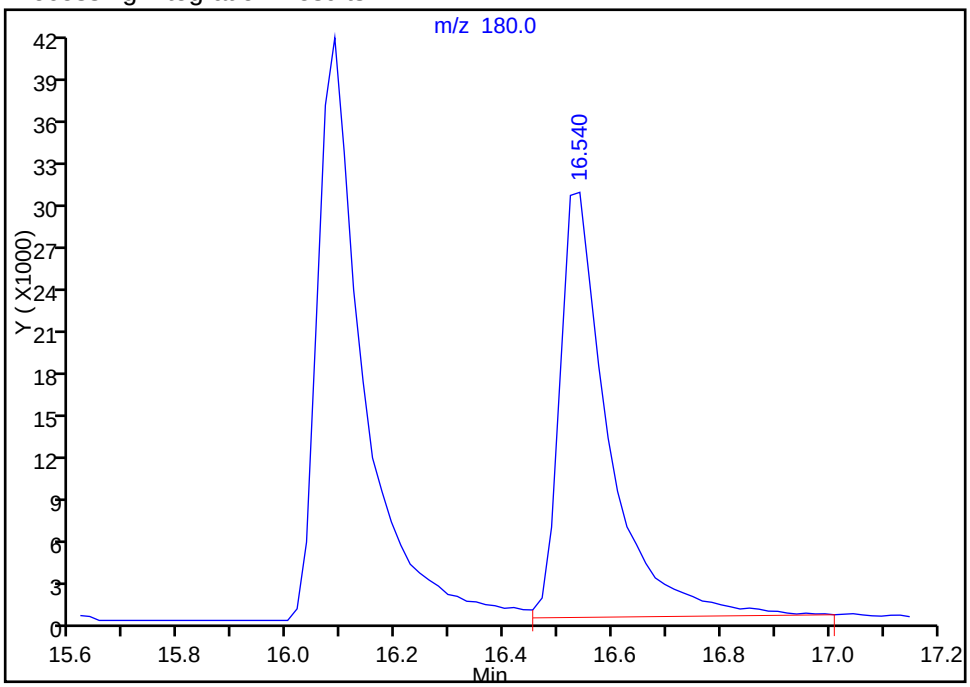
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20150529-35532.b\H3064.D				
Injection Date:	29-May-2015 21:45:30	Instrument ID:	VMS_H		
Lims ID:	LCS				
Client ID:					
Operator ID:	bergerb	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	20.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSH_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (75.53) (0.53 mm)	Detector	MS SCAN		

141 1,2,4-Trichlorobenzene, CAS: 120-82-1

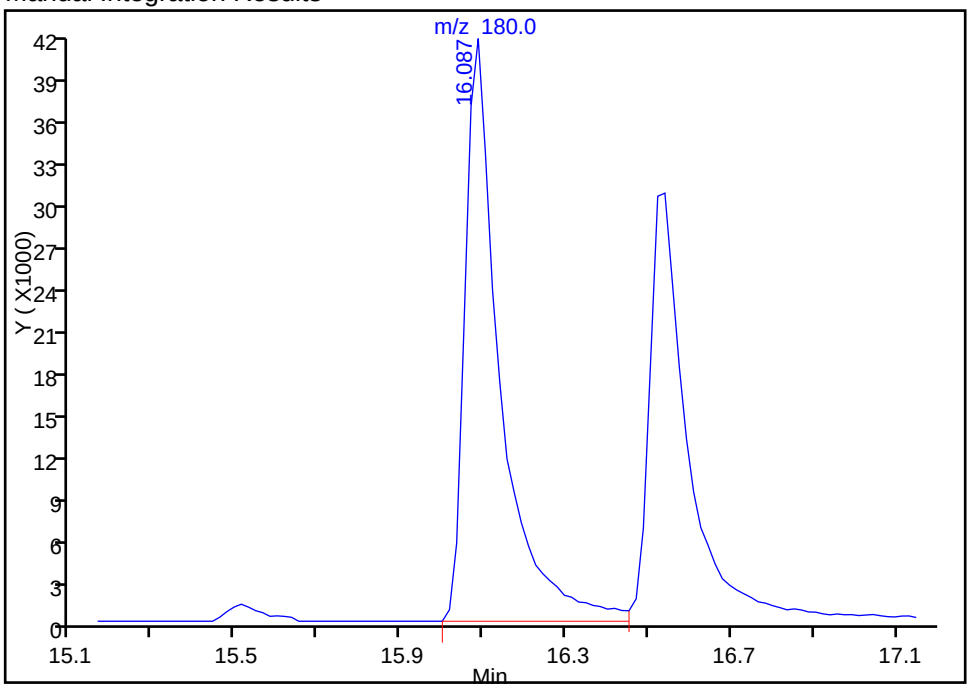
Processing Integration Results

RT: 16.54
Area: 192073
Amount: 3.823338
Amount Units: ug/l



Manual Integration Results

RT: 16.09
Area: 249567
Amount: 4.967793
Amount Units: ug/l



Reviewer: bergerb, 02-Jun-2015 16:42:37
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_H Start Date: 05/27/2015 23:12

Analysis Batch Number: 279265 End Date: 05/28/2015 05:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-279265/1		05/27/2015 23:12	1	H2946.D	DB-624 (75.53) 0.53(mm)
IC 280-279265/9		05/28/2015 00:18	1	H2949.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 00:18	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/10		05/28/2015 00:40	1	H2950.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 00:40	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/11		05/28/2015 01:03	1	H2951.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 01:03	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/12		05/28/2015 01:25	1	H2952.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 01:25	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/13		05/28/2015 01:48	1	H2953.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 01:48	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/14		05/28/2015 02:10	1	H2954.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 02:10	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/15		05/28/2015 02:33	1	H2955.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 02:33	1		DB-624 (75.53) 0.53(mm)
ICV 280-279265/22		05/28/2015 02:55	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/16		05/28/2015 03:18	1	H2957.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 03:18	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/17		05/28/2015 03:40	1	H2958.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 03:40	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/18		05/28/2015 04:03	1	H2959.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 04:03	1		DB-624 (75.53) 0.53(mm)
ICIS 280-279265/19		05/28/2015 04:25	1	H2960.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 04:25	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/20		05/28/2015 04:48	1	H2961.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 04:48	1		DB-624 (75.53) 0.53(mm)
IC 280-279265/21		05/28/2015 05:10	1	H2962.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/28/2015 05:10	1		DB-624 (75.53) 0.53(mm)
ICV 280-279265/23		05/28/2015 05:32	1	H2963.D	DB-624 (75.53) 0.53(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_H Start Date: 05/29/2015 20:39

Analysis Batch Number: 279635 End Date: 05/30/2015 07:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-279635/1		05/29/2015 20:39	1	H3061.D	DB-624 (75.53) 0.53(mm)
CCV 280-279635/2		05/29/2015 21:00	1	H3062.D	DB-624 (75.53) 0.53(mm)
CCV 280-279635/3		05/29/2015 21:22	1	H3063.D	DB-624 (75.53) 0.53(mm)
LCS 280-279635/4		05/29/2015 21:45	1	H3064.D	DB-624 (75.53) 0.53(mm)
MB 280-279635/6		05/29/2015 22:30	1	H3066.D	DB-624 (75.53) 0.53(mm)
280-69452-1	54403-TB16-0515-	05/29/2015 22:53	1	H3067.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/29/2015 23:15	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/29/2015 23:38	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 00:00	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 00:23	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 00:46	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 01:08	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 01:31	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 01:53	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 02:16	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 02:38	5		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 03:00	50		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 03:23	5		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 03:45	50		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 04:07	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 04:30	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 04:52	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 05:15	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 05:37	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 05:59	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 06:22	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/30/2015 06:44	1		DB-624 (75.53) 0.53(mm)
CCVC 280-279635/56		05/30/2015 07:07	1	H3089.D	DB-624 (75.53) 0.53(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Start Date: 04/29/2015 10:33

Analysis Batch Number: 275091 End Date: 04/29/2015 17:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-275091/1		04/29/2015 10:33	1	J6294.D	DB-624 (75.53) 0.53(mm)
STD001 280-275091/2 IC		04/29/2015 10:45	1		DB-624 (75.53) 0.53(mm)
STD002 280-275091/3 IC		04/29/2015 11:05	1		DB-624 (75.53) 0.53(mm)
STD005 280-275091/4 IC		04/29/2015 11:25	1		DB-624 (75.53) 0.53(mm)
STD010 280-275091/5 IC		04/29/2015 11:45	1		DB-624 (75.53) 0.53(mm)
STD020 280-275091/6 IC		04/29/2015 12:05	1		DB-624 (75.53) 0.53(mm)
STD050 280-275091/7 IC		04/29/2015 12:26	1		DB-624 (75.53) 0.53(mm)
STD100 280-275091/8 IC		04/29/2015 12:46	1		DB-624 (75.53) 0.53(mm)
STD200 280-275091/9 IC		04/29/2015 13:06	1		DB-624 (75.53) 0.53(mm)
ICV 280-275091/10		04/29/2015 13:46	1		DB-624 (75.53) 0.53(mm)
STD001 280-275091/11 IC		04/29/2015 15:01	1	J6305.D	DB-624 (75.53) 0.53(mm)
STD002 280-275091/12 IC		04/29/2015 15:21	1	J6306.D	DB-624 (75.53) 0.53(mm)
STD005 280-275091/13 IC		04/29/2015 15:41	1	J6307.D	DB-624 (75.53) 0.53(mm)
STD010 280-275091/14 IC		04/29/2015 16:01	1	J6308.D	DB-624 (75.53) 0.53(mm)
STD020 280-275091/15 IC		04/29/2015 16:21	1	J6309.D	DB-624 (75.53) 0.53(mm)
ICIS 280-275091/16		04/29/2015 16:41	1	J6310.D	DB-624 (75.53) 0.53(mm)
STD100 280-275091/17 IC		04/29/2015 17:01	1	J6311.D	DB-624 (75.53) 0.53(mm)
STD200 280-275091/18 IC		04/29/2015 17:21	1	J6312.D	DB-624 (75.53) 0.53(mm)
ICV 280-275091/19		04/29/2015 17:41	1	J6313.D	DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Start Date: 05/18/2015 16:31

Analysis Batch Number: 278046 End Date: 05/19/2015 00:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-278046/1		05/18/2015 16:31	1	J6808.D	DB-624 (75.53) 0.53(mm)
CCV 280-278046/2		05/18/2015 16:58	1		DB-624 (75.53) 0.53(mm)
CCV 280-278046/3		05/18/2015 17:18	1		DB-624 (75.53) 0.53(mm)
STD001 280-278046/4 IC		05/18/2015 17:50	1	J6811.D	DB-624 (75.53) 0.53(mm)
STD002 280-278046/5 IC		05/18/2015 18:10	1	J6812.D	DB-624 (75.53) 0.53(mm)
STD005 280-278046/6 IC		05/18/2015 18:30	1	J6813.D	DB-624 (75.53) 0.53(mm)
STD010 280-278046/7 IC		05/18/2015 18:50	1	J6814.D	DB-624 (75.53) 0.53(mm)
STD020 280-278046/8 IC		05/18/2015 19:10	1	J6815.D	DB-624 (75.53) 0.53(mm)
ICIS 280-278046/9		05/18/2015 19:30	1	J6816.D	DB-624 (75.53) 0.53(mm)
STD100 280-278046/10 IC		05/18/2015 19:51	1	J6817.D	DB-624 (75.53) 0.53(mm)
STD200 280-278046/11 IC		05/18/2015 20:11	1	J6818.D	DB-624 (75.53) 0.53(mm)
ICV 280-278046/12		05/18/2015 20:33	1	J6819.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 20:53	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 21:21	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 21:41	1		DB-624 (75.53) 0.53(mm)
CCVC 280-278046/20		05/18/2015 22:01	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 22:21	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 22:41	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 23:01	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 23:21	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/18/2015 23:42	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/19/2015 00:02	1		DB-624 (75.53) 0.53(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Start Date: 05/19/2015 17:03

Analysis Batch Number: 278246 End Date: 05/19/2015 23:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-278246/1		05/19/2015 17:03	1	J6846.D	DB-624 (75.53) 0.53(mm)
CCV 280-278246/2		05/19/2015 17:30	1	J6847.D	DB-624 (75.53) 0.53(mm)
CCV 280-278246/3		05/19/2015 17:50	1	J6848.D	DB-624 (75.53) 0.53(mm)
MB 280-278302/1-A		05/19/2015 18:11	1	J6849.D	DB-624 (75.53) 0.53(mm)
LCS 280-278302/2-A		05/19/2015 18:31	1	J6850.D	DB-624 (75.53) 0.53(mm)
280-69452-3	54400-SB01-0515-5	05/19/2015 19:51	1	J6854.D	DB-624 (75.53) 0.53(mm)
280-69452-4	54400-SB01-0515-12.5	05/19/2015 20:11	1	J6855.D	DB-624 (75.53) 0.53(mm)
280-69452-5	54400-SB01-0515-15	05/19/2015 20:31	1	J6856.D	DB-624 (75.53) 0.53(mm)
280-69452-6	54400-SB02-0515-0	05/19/2015 20:51	1	J6857.D	DB-624 (75.53) 0.53(mm)
280-69452-7	54400-SB02-0515-2.5	05/19/2015 21:12	1	J6858.D	DB-624 (75.53) 0.53(mm)
280-69452-9	54400-SB02-0515-15	05/19/2015 21:32	1	J6859.D	DB-624 (75.53) 0.53(mm)
280-69452-10	54400-SB03-0515-0	05/19/2015 21:52	1	J6860.D	DB-624 (75.53) 0.53(mm)
280-69452-11	54400-SB03-0515-5	05/19/2015 22:12	1	J6861.D	DB-624 (75.53) 0.53(mm)
280-69452-12	54400-SB03-0515-10	05/19/2015 22:32	1	J6862.D	DB-624 (75.53) 0.53(mm)
280-69452-13	54400-SB03-0515-15	05/19/2015 22:52	1	J6863.D	DB-624 (75.53) 0.53(mm)
280-69452-8	54400-SB02-0515-10	05/19/2015 23:12	1	J6864.D	DB-624 (75.53) 0.53(mm)
CCVC 280-278246/25		05/19/2015 23:32	1	J6865.D	DB-624 (75.53) 0.53(mm)

8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: VMS_J Start Date: 05/21/2015 16:32

Analysis Batch Number: 278648 End Date: 05/21/2015 23:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-278648/1		05/21/2015 16:32	1	J6912.D	DB-624 (75.53) 0.53(mm)
CCV 280-278648/2		05/21/2015 17:01	1	J6913.D	DB-624 (75.53) 0.53(mm)
CCV 280-278648/3		05/21/2015 17:39	1	J6914.D	DB-624 (75.53) 0.53(mm)
LCS 280-278666/2-A		05/21/2015 17:59	1	J6915.D	DB-624 (75.53) 0.53(mm)
MB 280-278666/1-A		05/21/2015 18:20	1	J6916.D	DB-624 (75.53) 0.53(mm)
280-69452-2	54400-SB01-0515-0	05/21/2015 19:01	1	J6917.D	DB-624 (75.53) 0.53(mm)
CCVC 280-278648/11		05/21/2015 19:21	1	J6918.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 20:03	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 21:04	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 21:24	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 21:44	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 22:04	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 22:24	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 22:44	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		05/21/2015 23:04	1		DB-624 (75.53) 0.53(mm)

8260B

GC/MS VOA Continuing Calibration Review Checklist *TestAmerica Denver*

Instrument ID and Date: J 5/6/15 Work List 34718

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☐ 20mL ☒ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			✓	
4. Does %D meet criteria for non-CCC compounds?	✓			✓	
5. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			✓	
6. Label number of standard used recorded?	✓			✓	
7. Manual integrations documented and checked?	✓			✓	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			✓	
9. Does this CCV pass Q4 criteria?	✓			✓	ALL TARGETS <20 %D

1st Level Reviewer: GM Date: 5/7/15

2nd Level Reviewer: JST Date: 5/7/15

Revision 2
4/2/2013
\\tafs\Lab2\Denver\Admin\QA\Edit\FORMS\Data Review\MS VOA\GCMS VOA CCV Rev2.doc

Sequence Name: C:\HPCHEM\1\SEQUENCE\050615LL.S
Comment:
Operator: MEIERG
Data Path: C:\HPCHEM\1\DATA\050615LL\
Pre-Seq Cmd:
Post-Seq Cmd:

Test America Denver
Instrument: J
DV-MS-0010 (8260B/624) (Circle)
Purge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 0857 - 1900
Lims Batch: 276163

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	J6504	BFBS	BFB
2	Sample	1	J6505	8260S	CCV M
3	Sample	2	J6506	8260S	CCV S
4	Sample	3	J6507	8260S	LCS
5	Sample	4	J6508	8260S	MB
6	Sample	5	J6509	8260S	LCS
7	Sample	6	J6510	8260S	280-68374-e-14
8	Sample	7	J6511	8260S	280-68374-e-16
9	Sample	8	J6512	8260S	280-68379-i-2
10	Sample	9	J6513	8260S	280-68379-i-3
11	Sample	10	J6514	8260S	280-68379-i-4
12	Sample	11	J6515	8260S	280-68379-i-5
13	Sample	12	J6516	8260S	280-68447-i-1
14	Sample	13	J6517	8260S	280-68451-a-9
15	Sample	14	J6518	8260S	280-68451-i-6
16	Sample	15	J6519	8260S	280-68451-i-7
17	Sample	16	J6520	8260S	280-68451-b-8
18	Sample	17	J6521	8260S	280-68449-i-2
19	Sample	18	J6522	8260S	280-68449-i-3
20	Sample	19	J6523	8260S	280-68449-y-4
21	Sample	20	J6524	8260S	280-68449-z-4 ms
22	Sample	21	J6525	8260S	280-68449-aa-4 msd
23	Sample	22	J6526	8260S	280-68449-i-5
24	Sample	23	J6527	8260S	280-68449-j-6 ↑SS NCM
25	Sample	24	J6528	8260S	280-68449-i-7
26	Sample	25	J6529	8260S	280-68449-i-8
27	Sample	26	J6530	8260S	280-68449-i-9
28	Sample	27	J6531	8260S	280-68449-i-10
29	Sample	28	J6532	8260S	CCVC
30	Sample	29	J6533	8260S	CCVC
31	Sample	30	J6534	8260S	LCS GM
32	Sample	31	J6535	8260S	LCS GM
33	Sample	32	J6536	8260S	LCS GM
34	Sample	33	J6537	8260S	LCS GM

5/8/15

TestAmerica Laboratories
Worklist Report

Worklist Name: 050615LL
Worklist Number: 34718
Instrument Name: VMS_J
Chrom Method: SO_VMSJ_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_J\20150506-34718.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_J
Run Reagent: MV-568718-D_00003 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00045 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0034718-001	# 1 BFB	MV-BFB_00018	BFB		voaSoilLL	1.000000	uL	1.000000
280-0034718-002	# 2 CCV	MV-Gas/Ket A_00032 MV-Main A_00022 MV-2cleve+AVA_00009 MV-568718-D_00003	CCV		voaSoilLL	5.000000	g	1.000000
280-0034718-003	# 3 CCV	MV-Supp A_00011	CCV		voaSoilLL	5.000000	g	1.000000
280-0034718-004	# 4 LCS	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	LCS		voaSoilLL	5.000000	g	1.000000
280-0034718-005	# 5 LCSD	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	LCSD		voaSoilLL	5.000000	g	1.000000
280-0034718-006	# 6 MB		MB		voaSoilLL	5.000000	g	1.000000
280-0034718-007	# 7 280-62974-A-4		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-008	# 8 280-62935-A-1-A		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-009	# 9 280-62974-A-6		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-010	#10 280-68374-E-14		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-011	#11 280-68374-E-16		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-012	#12 280-68379-I-2		Client		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0034718-013	#13 280-68379-I-3		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-014	#14 280-68379-I-4		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-015	#15 280-68379-I-5		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-016	#16 280-68447-I-1		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-017	#17 280-68451-A-9		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-018	#18 280-68451-I-6		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-019	#19 280-68451-I-7		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-020	#20 280-68451-B-8		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-021	#21 280-68449-I-2		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-022	#22 280-68449-I-3		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-023	#23 280-68449-Y-4		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-024	#24 280-68449-Z-4 MS	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	MS		voaSoilLL	5.000000	g	1.000000
280-0034718-025	#25 280-68449-AA-4 MSD	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	MSD		voaSoilLL	5.000000	g	1.000000
280-0034718-026	#26 280-68449-I-5		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-027	#27 280-68449-J-6		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-028	#28 280-68449-I-7		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-029	#29 280-68449-I-8		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-030	#30 280-68449-I-9		Client		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0034718-031	#31 280-68449-I-10		Client		voaSoilLL	5.000000	g	1.000000
280-0034718-033	#33 ccvc	MV-Gas/Ket A_00032 MV-Main A_00022 MV-2cleve+AVA_00009 MV-568718-D_00003	CCVC		voaSoilLL	5.000000	g	1.000000
280-0034718-034	#34 ccvc	MV-Supp A_00011	CCVC		voaSoilLL	5.000000	g	1.000000
280-0034718-035	#35 lcs	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0034718-036	#36 lcs	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0034718-037	#37 lcs	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0034718-038	#38 lcs	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000

GC/MS VOA Continuing Calibration Review Checklist *TestAmerica Denver*

Instrument ID and Date: J 5/19/15 LL Work List 35203

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☑ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

Review Items	---- Level 1 ---- Yes	No	N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	✓				
2. ICAL date and instrument ID verified?	✓				
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓				
4. Does %D meet criteria for non-CCC compounds?	✓				
5. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓				
6. Label number of standard used recorded?	✓				
7. Manual integrations documented and checked?			✓		
8. Do the Internal Standards meet criteria for %D against ICAL?	✓				
9. Does this CCV pass Q4 criteria?	✓				QS

1st Level Reviewer: AOO Date: 5/19/15

2nd Level Reviewer: [signature] Date: 05/19/15

Revision 2
4/2/2013
G:\QA\Edit\FORMS\Data Review\MS VOA\GCMS VOA CCV Rev2.doc

Sequence Name: C:\HPCHEM\1\SEQUENCE\051915LL.S
Comment:
Operator: DUKESA
Data Path: C:\HPCHEM\1\DATA\051915\
Pre-Seq Cmd:
Post-Seq Cmd:

Instrument: J
DV-(03-30)(3) 0 Ans
Purge Volume: (Uml) 0
Tuna Tipes: 1703 - 0414
278246
278308

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	J6845	BFBS	BFB
2	Sample	100	J6846	BFBS	BFB
3	Sample	10	J6847	8260S	CCV
4	Sample	11	J6848	8260S	CCV
5	Sample	12	J6849	8260S	MB
6	Sample	13	J6850	8260S	LCS
7	Sample	14	J6851	8260S	LCS (2)
8	Sample	15	J6852	8260S	LCSD (2)
9	Sample	16	J6853	8260S	MB (2)
10	Sample	17	J6854	8260S	280-69452-c-3-a
11	Sample	18	J6855	8260S	280-69452-c-4-a
12	Sample	19	J6856	8260S	280-69452-c-5-a
13	Sample	20	J6857	8260S	280-69452-c-6-a
14	Sample	21	J6858	8260S	280-69452-c-7-a
15	Sample	22	J6859	8260S	280-69452-c-9-a
16	Sample	23	J6860	8260S	280-69452-c-10-a
17	Sample	24	J6861	8260S	280-69452-c-11-a
18	Sample	25	J6862	8260S	280-69452-c-12-a
19	Sample	26	J6863	8260S	280-69452-c-13-a
20	Sample	27	J6864	8260S	280-69452-c-8-a
21	Sample	28	J6865	8260S	CCVC
22	Sample	29	J6866	8260S	280-69285-f-6-a 1st, NT 3st
23	Sample	30	J6867	8260S	280-69285-f-23-a
24	Sample	31	J6868	8260S	280-69285-e-24-b
25	Sample	32	J6869	8260S	280-69382-b-1-b 1st, matrix 3st
26	Sample	33	J6870	8260S	280-69382-b-2-b, RR
27	Sample	34	J6871	8260S	280-69382-b-3-b
28	Sample	35	J6872	8260S	280-69382-b-4-b
29	Sample	36	J6873	8260S	280-69382-b-5-b
30	Sample	37	J6874	8260S	280-69382-b-6-b
31	Sample	38	J6875	8260S	280-69382-b-10-a 1st, RR
32	Sample	39	J6876	8260S	280-69382-b-11-a
33	Sample	40	J6877	8260S	280-69382-b-12-a 3st, matrix
34	Sample	41	J6878	8260S	280-69382-b-13-a
35	Sample	42	J6879	8260S	280-69382-b-14-a 1st dil, RR
36	Sample	43	J6880	8260S	PRIMER
37	Sample	44	J6881	8260S	PRIMER
38					

Aoo 5/20/15

TestAmerica Laboratories
Worklist Report

Worklist Name: 051915LL
Worklist Number: 35203
Instrument Name: VMS_J
Chrom Method: SO_VMSJ_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_J\20150519-35203.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_J
Run Reagent: MV-568718-D_00003 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00045 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035203-001	# 1 BFB	MV-BFB_00018	BFB		voaSoilLL	1.000000	uL	1.000000
280-0035203-002	# 2 CCV	MV-Main A_00022 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033	CCV		voaSoilLL	5.000000	g	1.000000
280-0035203-003	# 3 CCV	MV-Supp A_00011 MV-568718-D_00003	CCV		voaSoilLL	5.000000	g	1.000000
280-0035203-004	# 4 LCS	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0035203-005	# 5 LCSD	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCSD		voaSoilLL	5.000000	g	1.000000
280-0035203-006	# 6 MB		MB		voaSoilLL	5.000000	g	1.000000
280-0035203-007	# 7 280-62974-A-4		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-008	# 8 280-62935-A-1-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-009	# 9 280-62974-A-6		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-010	#10 280-69452-C-3-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-011	#11 280-69452-C-4-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-012	#12 280-69452-C-5-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-013	#13 280-69452-C-6-A		Client		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035203-014	#14 280-69452-C-7-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-015	#15 280-69452-C-9-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-016	#16 280-69452-C-10-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-017	#17 280-69452-C-11-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-018	#18 280-69452-C-12-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-019	#19 280-69452-C-13-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-020	#20 280-69452-C-8-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-025	#25 CCVC	MV-Main A_00022 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033	CCVC		voaSoilLL	5.000000	g	1.000000
280-0035203-021	#21 LCS	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0035203-022	#22 LCSD	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCSD		voaSoilLL	5.000000	g	1.000000
280-0035203-023	#23 MB		MB		voaSoilLL	5.000000	g	1.000000
280-0035203-026	#26 280-69285-F-6-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-027	#27 280-69285-F-23-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-028	#28 280-69285-E-24-B		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-029	#29 280-69382-B-1-B		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-030	#30 280-69382-B-2-B		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-031	#31 280-69382-B-3-B		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-032	#32 280-69382-B-4-B		Client		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035203-033	#33 280-69382-B-5-B		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-034	#34 280-69382-B-6-B		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-035	#35 280-69382-B-10-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-036	#36 280-69382-B-11-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-037	#37 280-69382-B-12-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-038	#38 280-69382-B-13-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035203-039	#39 280-69382-B-14-A		Client		voaSoilLL	5.000000	g	1.000000

TestAmerica Denver

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THE LEADER IN ENVIRONMENTAL TESTING

MSVOA Data Review Checklist

Job #	due date	Notes
69452	6/5	QS, DIL1
69636	6/2	

TALS BATCH NUMBER: 2786648 | **Worklist:** 35367 | **Instrument/Date:** J 5/21/15

Review Items	Yes	No	N/A	2nd Level
1. Tune time 1632-2304 All samples injected within method time criteria? Tune criteria pass	✓			
2. ICV/CCV : CCC and SPCC pass,ISTD 50-200% of current calibration?	✓			
3. Are LCS/LCSD results within limits?	✓			
4. Are MS/MSD results within limits?	✓			
5. Are target compounds in method blank below SOP requirements?	✓			
6. Was the holding time met on all samples in the batch?	✓			
7. Were spectra for results evaluated per sop?	✓			
8. Is each manual integration: necessary, correct & documented ?	✓			
9. All surrogate pass in samples and QC standards?	✓			
10. pH of all waters samples(except TCLP) taken and documented?	✓			
11. Area of internal standards met (-50% +100% from last initial calibration of mid point?	✓			
12. Were dilution factors correct? Was volume/weight included in raw data?	✓			
13. Were samples quantitated against correct RF or calibration curve?	✓			
14. Data reviewed in TALS? Isomeric Pairs checked for correct assignment?	✓			
15. Samples checked to ensure all requested targets uploaded and reported correctly (incomplete report)?	✓			
16. Were dilute/undiluted sample runs compared using JDR program?	✓		✓	
17. Were unidentified peaks reviewed for missed target compounds?				

1st Level Reviewer Aoo Date 5/21/15

2nd Level Reviewer _____ Date _____

Comments: _____

GC/MS VOA Continuing Calibration Review Checklist *TestAmerica Denver*

Instrument ID and Date: J 5/21/15 LL Work List 35307

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA _____

VOA Preparation ☑ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

Review Items	---- Level 1 ---- Yes	No	N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	✓			Y	
2. ICAL date and instrument ID verified?	✓			Y	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			Y	
4. Does %D meet criteria for non-CCC compounds?	✓			Y	
5. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			Y	
6. Label number of standard used recorded?	✓			Y	
7. Manual integrations documented and checked?			✓	Y	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			Y	
9. Does this CCV pass Q4 criteria?	✓			Y	Q5

1st Level Reviewer: AOO Date: 5/21/15

2nd Level Reviewer: [signature] Date: 05/21/15

Revision 2
4/2/2013
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Sequence Name: C:\HPCHEM\1\SEQUENCE\052115LL.S
Comment:
Operator: DUKESA
Data Path: C:\HPCHEM\1\DATA\052115\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

J
1632-2304
278648

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	J6912	BFBS	BFB
2	Sample	10	J6913	8260S	CCV
3	Sample	11	J6914	8260S	CCV
4	Sample	12	J6915	8260S	LCS
5	Sample	13	J6916	8260S	MB
6	Sample	14	J6917	8260S	280-69452-a-2-a
7	Sample	15	J6918	8260S	CCVC
8	Sample	16	J6919	8260S	280-69636-a-1-a
9	Sample	17	J6920	8260S	BLK
10	Sample	18	J6921	8260S	BLK
11	Sample	19	J6922	8260S	280-69636-a-2-a
12	Sample	20	J6923	8260S	280-69636-a-2-b ms
13	Sample	21	J6924	8260S	280-69636-a-2-c msd
14	Sample	22	J6925	8260S	280-69636-a-3-a
15	Sample	23	J6926	8260S	280-69636-a-4-a
16	Sample	24	J6927	8260S	280-69636-a-5-a
17	Sample	25	J6928	8260S	280-69636-a-6-a
18	Sample	26	J6929	8260S	PRIMER
19	Sample	27	J6930	8260S	PRIMER

AOO
5/21/15

TestAmerica Laboratories
Worklist Report

Worklist Name: 052115LL
Worklist Number: 35307
Instrument Name: VMS_J
Chrom Method: SO_VMSJ_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_J\20150521-35307.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_J
Run Reagent: MV-568718-D_00003 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00045 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035307-001	# 1 BFB	MV-BFB_00018	BFB		voaSoilLL	1.000000	uL	1.000000
280-0035307-002	# 2 CCV	MV-Main A_00022 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033	CCV		voaSoilLL	5.000000	g	1.000000
280-0035307-003	# 3 CCV	MV-Supp A_00011 MV-568718-D_00003	CCV		voaSoilLL	5.000000	g	1.000000
280-0035307-004	# 4 LCS	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0035307-005	# 5 LCSD	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCSD		voaSoilLL	5.000000	g	1.000000
280-0035307-006	# 6 MB		MB		voaSoilLL	5.000000	g	1.000000
280-0035307-007	# 7 280-62974-A-4		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-008	# 8 280-62935-A-1-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-009	# 9 280-62974-A-6		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-010	#10 280-69452-A-2-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-011	#11 CCVC	MV-2cleve+AVA_00009 MV-Gas/Ket A_00033 MV-Main A_00022	CCVC		voaSoilLL	5.000000	g	1.000000
280-0035307-012	#12 280-69636-A-1-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-013	#13 280-69636-A-2-A		Client		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035307-014	#14 280-69636-A-2-B MS	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	MS		voaSoilLL	5.000000	g	1.000000
280-0035307-015	#15 280-69636-A-2-C MSD	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	MSD		voaSoilLL	5.000000	g	1.000000
280-0035307-016	#16 280-69636-A-3-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-017	#17 280-69636-A-4-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-018	#18 280-69636-A-5-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035307-019	#19 280-69636-A-6-A		Client		voaSoilLL	5.000000	g	1.000000

GC/MS VOA Continuing Calibration Review Checklist *TestAmerica Denver*

Instrument ID and Date: H 05/29/15 pm Work List 35532

Check Method Used: Analysis ☐ 624 ☒ ~~8260~~B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ ~~20~~mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	✓			X	
2. ICAL date and instrument ID verified?	✓			X	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			X	
4. Does %D meet criteria for non-CCC compounds?	✓			X	
5. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			X	
6. Label number of standard used recorded?	✓			X	
7. Manual integrations documented and checked?			✓	X	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			X	
9. Does this CCV pass Q4 criteria?	✓			X	

1st Level Reviewer: [signature] Date: 05/29/15

2nd Level Reviewer: [signature] Date: 05/29/15

Revision 2
4/2/2013
R:\QA\Edit\FORMS\Data Review\MS VOA\GCMS VOA CCV Rev2.doc

Sequence Name: C:\HPCHEM\1\SEQUENCE\052915pm.S
Comment:
Operator: bergerb
Data Path: C:\HPCHEM\1\DATA\052915pm\
Pre-Seq Cmd:
Post-Seq Cmd:

Test America Denver
Instrument: H
DV-MS-0010 (8260B/624) (Circle)
Purge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 2039
Lims Batch: 279635

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name		
1	Sample	100	H3061	BFB	BFB 2039		
2	Sample	1	H3062	8260	CCV M 888		
3	Sample	2	H3063	8260	CCV S		
4	Sample	3	H3064	8260	LCS		
5	Sample	4	H3065	8260	blank 6/1/15		
6	Sample	5	H3066	8260	MB AF		
7	Sample	6	H3067	8260	280-69452-A-1	pH<2	
8	Sample	7	H3068	8260	280-69764-C-1	pH<2	
9	Sample	8	H3069	8260	280-69764-C-2	pH<2	
10	Sample	9	H3070	8260	280-69764-C-3	pH<2	
11	Sample	10	H3071	8260	280-69764-C-4	pH<2	
12	Sample	11	H3072	8260	280-69764-C-5	pH<2	
13	Sample	12	H3073	8260	280-69764-C-6	pH<2	
14	Sample	13	H3074	8260	280-69764-C-7	pH<2	
15	Sample	14	H3075	8260	280-69764-C-8	pH<2	
16	Sample	15	H3076	8260	280-69764-C-9	pH<2	
17	Sample	16	H3077	8260	280-69764-C-10	pH<2	4ml E
18	Sample	17	H3078	8260 DNR	280-69764-C-10	pH<2	0.4ml DL
19	Sample	18	H3079	8260	280-69764-C-11	pH<2	4ml E
20	Sample	19	H3080	8260	280-69764-C-11	pH<2	0.4ml DL
21	Sample	20	H3081	8260	280-69764-C-12	pH<2	
22	Sample	21	H3082	8260	280-69764-C-13	pH<2	
23	Sample	22	H3083	8260	280-69764-C-14	pH<2	
24	Sample	23	H3084	8260	280-69764-C-15	pH<2	
25	Sample	24	H3085	8260	280-69764-C-16	pH<2	
26	Sample	25	H3086	8260	280-69764-C-17	pH<2	
27	Sample	26	H3087	8260	280-69764-C-18	pH<2	
28	Sample	27	H3088	8260	280-69764-C-19	pH<2	
29	Sample	28	H3089	8260	CCVC		
30	Sample	1	H3090	8260	primer		
31	Sample	2	H3091	8260	primer		

TestAmerica Laboratories
Worklist Report

Worklist Name: 052915pm
Worklist Number: 35532
Instrument Name: VMS_H
Chrom Method: AQ_VMSH_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_H\20150529-35532.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_H
Run Reagent: MV-568718-D_00002 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00042 Amount Added: 0.680000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035532-001	# 1 BFB	MV-BFB_00018	BFB		voaWater	1.000000	uL	1.000000
280-0035532-002	# 2 CCV	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	CCV		voaWater	20.00	mL	1.000000
280-0035532-003	# 3 CCV	MV-Supp A_00011	CCV		voaWater	20.00	mL	1.000000
280-0035532-004	# 4 LCS	MV-Main B_00010 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	LCS		voaWater	20.00	mL	1.000000
280-0035532-005	# 5 LCSD	MV-Main B_00010 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	LCSD		voaWater	20.00	mL	1.000000
280-0035532-006	# 6 MB		MB		voaWater	20.00	mL	1.000000
280-0035532-008	# 8 280-62974-A-2		Client		voaWater	20.00	mL	1.000000
280-0035532-034	#34 280-69452-A-1		Client		voaWater	20.00	mL	1.000000
280-0035532-035	#35 280-69764-C-1		Client		voaWater	20.00	mL	1.000000
280-0035532-036	#36 280-69764-C-2		Client		voaWater	20.00	mL	1.000000
280-0035532-037	#37 280-69764-C-3		Client		voaWater	20.00	mL	1.000000
280-0035532-038	#38 280-69764-C-4		Client		voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035532-039	#39 280-69764-C-5		Client		voaWater	20.00	mL	1.000000
280-0035532-040	#40 280-69764-C-6		Client		voaWater	20.00	mL	1.000000
280-0035532-041	#41 280-69764-C-7		Client		voaWater	20.00	mL	1.000000
280-0035532-042	#42 280-69764-C-8		Client		voaWater	20.00	mL	1.000000
280-0035532-043	#43 280-69764-C-9		Client		voaWater	20.00	mL	1.000000
280-0035532-044	#44 280-69764-C-10		Client		voaWater	20.00	mL	5.000000
280-0035532-045	#45 280-69764-C-10		Client		voaWater	20.00	mL	50.00
280-0035532-046	#46 280-69764-C-11		Client		voaWater	20.00	mL	5.000000
280-0035532-047	#47 280-69764-C-11		Client		voaWater	20.00	mL	50.00
280-0035532-048	#48 280-69764-C-12		Client		voaWater	20.00	mL	1.000000
280-0035532-049	#49 280-69764-C-13		Client		voaWater	20.00	mL	1.000000
280-0035532-050	#50 280-69764-C-14		Client		voaWater	20.00	mL	1.000000
280-0035532-051	#51 280-69764-C-15		Client		voaWater	20.00	mL	1.000000
280-0035532-052	#52 280-69764-C-16		Client		voaWater	20.00	mL	1.000000
280-0035532-053	#53 280-69764-C-17		Client		voaWater	20.00	mL	1.000000
280-0035532-054	#54 280-69764-C-18		Client		voaWater	20.00	mL	1.000000
280-0035532-055	#55 280-69764-C-19		Client		voaWater	20.00	mL	1.000000
280-0035532-056	#56 CCVC	MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	CCVC		voaWater	20.00	mL	1.000000

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica

Instrument ID and Date: J 4/29/15 SUPP/FREON ICAL Batch/ICV lines 275091/19 1C15 16
Calibration Event 22162 Work List 34468 2nd Day Batch/ICV lines

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA

VOA Preparation ☑ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Chrom source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	
5. Reasons for removal of points documented?	✓			✓	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Label number of standards used recorded?	✓			✓	
11. Manual integrations documented and checked?			✓	✓	
12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	

1st Level Reviewer: AOO Date: 4/29/15 Chlorotrifluoroethane - 72.8 %D

2nd Level Reviewer: [signature] Date: 4/30/15

Revision 4
03/27/2013
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Sequence Name: C:\HPCHEM\1\SEQUENCE\042915I.S
Comment:
Operator: MEIERG
Data Path: C:\HPCHEM\1\DATA\042915I\
Pre-Seq Cmd:
Post-Seq Cmd:

Test America Denver
Instrument: J
DV-MS-0010 (8260B/624) (Circle)
Purge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 1033 - 1744
Lims Batch: 275091

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name	
1	Sample	100	J6294	BFBS	BFB	
2	Sample	1	J6295	8260S	STD001	LE 22161
3	Sample	2	J6296	8260S	STD002	
4	Sample	3	J6297	8260S	STD005	
5	Sample	4	J6298	8260S	STD010	
6	Sample	5	J6299	8260S	STD020	
7	Sample	6	J6300	8260S	STD050	
8	Sample	7	J6301	8260S	STD100	
9	Sample	8	J6302	8260S	STD200	
10	Sample	9	J6303	8260S	BLK	
11	Sample	10	J6304	8260S	ICV	
12	Sample	11	J6305	8260S	STD001	LE 22162
13	Sample	12	J6306	8260S	STD002	
14	Sample	13	J6307	8260S	STD005	
15	Sample	14	J6308	8260S	STD010	
16	Sample	15	J6309	8260S	STD020	
17	Sample	16	J6310	8260S	ICIS	
18	Sample	17	J6311	8260S	STD100	
19	Sample	18	J6312	8260S	STD200	
20	Sample	19	J6313	8260S	ICV	
21						

TestAmerica Laboratories
Worklist Report

Worklist Name: 042915LL
Worklist Number: 34468
Instrument Name: VMS_J
Chrom Method: SO_VMSJ_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_J\20150429-34468.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_J
Run Reagent: MV-568718-D_00003 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00044 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0034468-001	# 1 BFB	MV-BFB_00018	BFB		voaSoilLL	1.000000	uL	1.000000
280-0034468-002	# 2 STD001	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00032	IC	1	voaSoilLL	5.000000	g	1.000000
280-0034468-003	# 3 STD002	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00032	IC	2	voaSoilLL	5.000000	g	1.000000
280-0034468-004	# 4 STD005	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Gas/Ket A_00032 MV-Main A_00022	IC	3	voaSoilLL	5.000000	g	1.000000
280-0034468-005	# 5 STD010	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00032	IC	4	voaSoilLL	5.000000	g	1.000000
280-0034468-006	# 6 STD020	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Gas/Ket A_00032 MV-Main A_00022	IC	5	voaSoilLL	5.000000	g	1.000000
280-0034468-007	# 7 STD050	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00032	IC	6	voaSoilLL	5.000000	g	1.000000
280-0034468-008	# 8 STD100	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00032	IC	7	voaSoilLL	5.000000	g	1.000000
280-0034468-009	# 9 STD200	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00032	IC	8	voaSoilLL	5.000000	g	1.000000
280-0034468-010	#10 ICV	MV-568718-D_00003 MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	ICV		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0034468-011	#11 STD001	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	1	voaSoilLL	5.000000	g	1.000000
280-0034468-012	#12 STD002	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	2	voaSoilLL	5.000000	g	1.000000
280-0034468-013	#13 STD005	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	3	voaSoilLL	5.000000	g	1.000000
280-0034468-014	#14 STD010	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	4	voaSoilLL	5.000000	g	1.000000
280-0034468-015	#15 STD020	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	5	voaSoilLL	5.000000	g	1.000000
280-0034468-016	#16 ICIS	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	ICIS	6	voaSoilLL	5.000000	g	1.000000
280-0034468-017	#17 STD100	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	7	voaSoilLL	5.000000	g	1.000000
280-0034468-018	#18 STD200	MV-Supp A_00011 MV-568718-D_00003 MV-ARCH SS A_00044 Freon_A_00005	IC	8	voaSoilLL	5.000000	g	1.000000
280-0034468-019	#19 ICV	MV-568718-D_00003 MV-ARCH SS A_00044 MV-Supp B_00005 Freon_B_00004	ICV		voaSoilLL	5.000000	g	1.000000

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica

Instrument ID and Date: J 5/18/15 MAIN/GAS/SURR ICAL Batch/ICV lines 2780440/12 ICIS 9
Calibration Event 22340 Work List 35151 2nd Day Batch/ICV lines

Check Method Used: Analysis ☐ 624 ☑ 8260B ☐ Other VOA

VOA Preparation ☑ 5mL ☐ 20mL ☑ 5035 Low ☐ 5035 High ☑ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Chrom source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	
5. Reasons for removal of points documented?	✓			✓	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Label number of standards used recorded?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	lvl 2 - assign Peaks Ethyl + Xylenes lvl 1,2,5,10,50,100
12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	

1st Level Reviewer: AOO Date: 5/18/15

2nd Level Reviewer: [signature] Date: 5/20/15

Revision 4
03/27/2013
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Sequence Name: C:\HPCHEM\1\SEQUENCE\051815LL.S
Comment:
Operator: DUKESA
Data Path: C:\HPCHEM\1\DATA\051815\
Pre-Seq Cmd:
Post-Seq Cmd:

Test America Denver
Instrument: J
DV-MS-0010 (8260B/624) (Circle)
Purge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 1631 - 0122
Lims Batch: 278046
278070

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	J6808	BFBS	BFB
2	Sample	10	J6809	8260S	CCV
3	Sample	11	J6810	8260S	CCV
4	Sample	12	J6811	8260S	STD001
5	Sample	13	J6812	8260S	STD002
6	Sample	14	J6813	8260S	STD005
7	Sample	15	J6814	8260S	STD010
8	Sample	16	J6815	8260S	STD020
9	Sample	17	J6816	8260S	ICIS
10	Sample	18	J6817	8260S	STD050
11	Sample	19	J6818	8260S	STD100
12	Sample	20	J6819	8260S	ICV
13	Sample	21	J6820	8260S	MB
14	Sample	22	J6821	8260S	LCS
15	Sample	23	J6822	8260S	280-69110-b-2-a
16	Sample	24	J6823	8260S	CCVC
17	Sample	25	J6824	8260S	280-69210-d-3-a 15bbbb, RR
18	Sample	26	J6825	8260S	280-69419-b-6-a
19	Sample	27	J6826	8260S	280-69419-b-6-b ms
20	Sample	28	J6827	8260S	280-69419-b-6-c msd
21	Sample	29	J6828	8260S	280-69419-b-12-a
22	Sample	30	J6829	8260S	280-69419-b-18-a
23	Sample	31	J6830	8260S	280-69382-g-9-a 15bbb
24	Sample	32	J6831	8260S	280-69382-h-9-a ms 15bbb CONFIRM
25	Sample	33	J6832	8260S	280-69382-d-9-a msd
26	Sample	34	J6833	8260S	280-69285-e-22-a
27	Sample	35	J6834	8260S	280-69285-e-23-a 12hr, RR
28	Sample	36	J6835	8260S	280-69285-e-24-a ARCHON ERROR, RR
29	Sample	37	J6836	8260S	280-69382-b-1-a
30	Sample	38	J6837	8260S	280-69382-b-2-a
31	Sample	39	J6838	8260S	280-69382-b-3-a
32	Sample	40	J6839	8260S	280-69382-b-4-a
33	Sample	41	J6840	8260S	280-69382-b-5-a
34	Sample	42	J6841	8260S	280-69382-b-6-a
35	Sample	43	J6842	8260S	280-69210-d-3-b
36	Sample	44	J6843	8260S	PRIMER
37	Sample	45	J6844	8260S	PRIMER

LE 23340

TestAmerica Laboratories
Worklist Report

Worklist Name: 051815LL
Worklist Number: 35151
Instrument Name: VMS_J
Chrom Method: SO_VMSJ_8260
Purge Volume: 5.000000
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_J\20150518-35151.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_J
Run Reagent: MV-568718-D_00003 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00045 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035151-001	# 1 BFB	MV-BFB_00018	BFB		voaSoilLL	1.000000	uL	1.000000
280-0035151-002	# 2 CCV	MV-Main A_00022 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033	CCV		voaSoilLL	5.000000	g	1.000000
280-0035151-003	# 3 CCV	MV-Supp A_00011 MV-568718-D_00003	CCV		voaSoilLL	5.000000	g	1.000000
280-0035151-004	# 4 STD001	MV-Main A_00022 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033 MV-568718-D_00003 MV-ARCH SS A_00045	IC	1	voaSoilLL	5.000000	g	1.000000
280-0035151-005	# 5 STD002	MV-Gas/Ket A_00033 MV-Main A_00022 MV-2cleve+AVA_00009 MV-568718-D_00003 MV-ARCH SS A_00045	IC	2	voaSoilLL	5.000000	g	1.000000
280-0035151-006	# 6 STD005	MV-568718-D_00003 MV-Gas/Ket A_00033 MV-Main A_00022 MV-2cleve+AVA_00009 MV-ARCH SS A_00045	IC	3	voaSoilLL	5.000000	g	1.000000
280-0035151-007	# 7 STD010	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Main A_00022 MV-Gas/Ket A_00033 MV-ARCH SS A_00045	IC	4	voaSoilLL	5.000000	g	1.000000
280-0035151-008	# 8 STD020	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033 MV-Main A_00022 MV-ARCH SS A_00045	IC	5	voaSoilLL	5.000000	g	1.000000
280-0035151-009	# 9 ICIS	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033 MV-Main A_00022 MV-ARCH SS A_00045	ICIS	6	voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035151-010	#10 STD100	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Gas/Ket A_00032 MV-Main A_00022 MV-ARCH SS A_00045	IC	7	voaSoilLL	5.000000	g	1.000000
280-0035151-011	#11 STD200	MV-568718-D_00003 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033 MV-Main A_00022 MV-ARCH SS A_00045	IC	8	voaSoilLL	5.000000	g	1.000000
280-0035151-012	#12 ICV	MV-568718-D_00003 MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020 MV-ARCH SS A_00045	ICV		voaSoilLL	5.000000	g	1.000000
280-0035151-013	#13 LCS	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCS		voaSoilLL	5.000000	g	1.000000
280-0035151-014	#14 LCSD	MV-Main B_00010 MV-SS 2-Cleve_00020 MV-Gas/Ket B_00019	LCSD		voaSoilLL	5.000000	g	1.000000
280-0035151-015	#15 MB		MB		voaSoilLL	5.000000	g	1.000000
280-0035151-016	#16 280-62974-A-4		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-017	#17 280-62935-A-1-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-018	#18 280-62974-A-6		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-019	#19 280-69110-B-2-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-020	#20 CCVC	MV-Main A_00022 MV-2cleve+AVA_00009 MV-Gas/Ket A_00033	CCVC		voaSoilLL	5.000000	g	1.000000
280-0035151-021	#21 280-69210-D-3-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-022	#22 280-69419-B-6-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-023	#23 280-69419-B-6-B MS	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	MS		voaSoilLL	5.000000	g	1.000000
280-0035151-024	#24 280-69419-B-6-C MSD	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	MSD		voaSoilLL	5.000000	g	1.000000
280-0035151-025	#25 280-69419-B-12-A		Client		voaSoilLL	5.000000	g	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035151-026	#26 280-69419-B-18-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-027	#27 280-69285-E-22-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-028	#28 280-69285-E-23-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-029	#29 280-69285-E-24-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-030	#30 280-69382-B-1-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-031	#31 280-69382-B-2-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-032	#32 280-69382-B-3-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-033	#33 280-69382-B-4-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-034	#34 280-69382-B-5-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-035	#35 280-69382-B-6-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-036	#36 280-69382-G-9-A		Client		voaSoilLL	5.000000	g	1.000000
280-0035151-037	#37 280-69382-H-9-A MS	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	MS		voaSoilLL	5.000000	g	1.000000
280-0035151-038	#38 280-69382-D-9-A MSD	MV-Gas/Ket B_00019 MV-Main B_00010 MV-SS 2-Cleve_00020	MSD		voaSoilLL	5.000000	g	1.000000

TestAmerica Denver
GC/MS Initial Calibration Review Checklist MAIN

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: H 5-27-15 ICAL Batch/ICV lines 279265 ICV-22
Calibration Event 22417 Work List 35452 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Chrom source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	Some points < RL removed
5. Reasons for removal of points documented?	✓			✓	
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Label number of standards used recorded?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	see below
12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects; 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	

Not Good for AFCEE
Man. Int.
chloromethane: level 2,3

1st Level Reviewer: Taw Date: 5-28-15

2nd Level Reviewer: [illegible] Date: 5-28-15

Revision 4
03/27/2013
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Sequence Name: C:\HPCHEM\1\SEQUENCE\052715i.S
Comment:
Operator: BERGERB
Data Path: C:\HPCHEM\1\DATA\052715i\
Pre-Seq Cmd:
Post-Seq Cmd:

Test America Denver
Instrument: H
DV-MS-0010 (8260B/624) (Circle)
Purge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 23:12 - 07:25
Lime Batch: 279265

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	62	H2944	8260	blank
2	Sample	63	H2945	8260	blank
3	Sample	100	H2946	BFB	bfb 23:12
4	Sample	1	H2947	8260	blank
5	Sample	2	H2948	8260	blank
6	Sample	3	H2949	8260	ic
7	Sample	4	H2950	8260	ic
8	Sample	5	H2951	8260	ic
9	Sample	6	H2952	8260	ic
10	Sample	7	H2953	8260	ic
11	Sample	8	H2954	8260	ic
12	Sample	9	H2955	8260	ic
13	Sample	10	H2956	8260	icv
14	Sample	11	H2957	8260	ic
15	Sample	12	H2958	8260	ic
16	Sample	13	H2959	8260	ic
17	Sample	14	H2960	8260	icis
18	Sample	15	H2961	8260	ic
19	Sample	16	H2962	8260	ic
20	Sample	17	H2963	8260	icv
21	Sample	18	H2964	8260	mdlv1
22	Sample	19	H2965	8260	mdlv2
23	Sample	20	H2966	8260	mdlv3
24	Sample	21	H2967	8260	mdlv4
25	Sample	22	H2968	8260	mdlv5 07:25

TestAmerica Laboratories
Worklist Report

Worklist Name: 052715i
Worklist Number: 35452
Instrument Name: VMS_H
Chrom Method: AQ_VMSH_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_H\20150528-35452.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_H
Run Reagent: MV-568718-D_00002 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00042 Amount Added: 0.680000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035452-001	# 1 BFB	MV-BFB_00018	BFB		voaWater	1.000000	uL	1.000000
280-0035452-002	# 2 CCV	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	CCV		voaWater	20.00	mL	1.000000
280-0035452-003	# 3 CCV	MV-Supp A_00011	CCV		voaWater	20.00	mL	1.000000
280-0035452-004	# 4 LCS	MV-Main B_00009 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	LCS		voaWater	20.00	mL	1.000000
280-0035452-005	# 5 LCSD	MV-Main B_00009 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	LCSD		voaWater	20.00	mL	1.000000
280-0035452-006	# 6 MB		MB		voaWater	20.00	mL	1.000000
280-0035452-007	# 7 280-62974-A-1		Client		voaWater	20.00	mL	1.000000
280-0035452-008	# 8 280-62974-A-2		Client		voaWater	20.00	mL	1.000000
280-0035452-009	# 9 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	1	voaWater	20.00	mL	1.000000
280-0035452-010	#10 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	2	voaWater	20.00	mL	1.000000
280-0035452-011	#11 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	3	voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035452-012	#12 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	4	voaWater	20.00	mL	1.000000
280-0035452-013	#13 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	5	voaWater	20.00	mL	1.000000
280-0035452-014	#14 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	6	voaWater	20.00	mL	1.000000
280-0035452-015	#15 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	7	voaWater	20.00	mL	1.000000
280-0035452-016	#16 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	2	voaWater	20.00	mL	1.000000
280-0035452-017	#17 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	3	voaWater	20.00	mL	1.000000
280-0035452-018	#18 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	4	voaWater	20.00	mL	1.000000
280-0035452-019	#19 icis	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	ICIS	5	voaWater	20.00	mL	1.000000
280-0035452-020	#20 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	6	voaWater	20.00	mL	1.000000
280-0035452-021	#21 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	7	voaWater	20.00	mL	1.000000
280-0035452-022	#22 icv	MV-568718-D_00002 MV-Main B_00009 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	ICV		voaWater	20.00	mL	1.000000
280-0035452-023	#23 icv	MV-568718-D_00002 MV-Supp B_00005 MV-ARCH SS A_00042	ICV		voaWater	20.00	mL	1.000000
280-0035452-024	#24 mdlv1	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	Client		voaWater	20.00	mL	1.000000
280-0035452-025	#25 mdlv2	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	Client		voaWater	20.00	mL	1.000000
280-0035452-026	#26 mdlv3	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	Client		voaWater	20.00	mL	1.000000

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

SUPP

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: H 5-27-15 ICAL Batch/ICV lines 279265 ICIS-19 ICV-23
Calibration Event 22417 Work List 35452 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Chrom source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	Some points < RL removed
5. Reasons for removal of points documented?	✓			✓	
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment? Vinyl acetate/Isopropyl ether 1,3- /1,4- /1,2-Dichlorobenzene Ethylbenzene/Xylenes 1,3,5- /1,2,4-Trimethylbenzene / isopropylbenzene 2-Nitropropane between Bromodichloromethane &MIBK 2- /4-Chlorotoluene / n-propylbenzene MIBK/2-Hexanone Methyl/Ethyl Methacrylate 1,1-Dichloroethene /cis-1,2 & trans-1,2-Dichloroethene 1,1-Dichloropropene / cis / tran -1,3-Dichloropropene /1,2,3-Trichloropropane	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Label number of standards used recorded?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	See below
12. 2nd source ICV recovery 80-120% (±20%drift) for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	ethyl acetate -52% tetrahydrothiophene -22%

1st Level Reviewer: Taw Date: 5-28-15

2nd Level Reviewer: [illegible] Date: 5-28-15

Man. Int.
acetonitrile: level 2,3
ethanol: level 3,4
isopropyl alcohol: level 6

Revision 4
03/27/2013
\\corp-fs-04old.tai.com\Analytical2\Denver\Public\QA\Edit\FORMS\Data Review\GCMS VOA ICAL Rev 4.doc

Sequence Name: C:\HPCHEM\1\SEQUENCE\052715i.S
Comment:
Operator: BERGERB
Data Path: C:\HPCHEM\1\DATA\052715i\
Pre-Seq Cmd:
Post-Seq Cmd:

Test America Denver
Instrument: H
OV-MS-0010 (8260B/624) (Circle)
Purge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 23:12 - 07:25
Lime Batch: 279265

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	62	H2944	8260	blank
2	Sample	63	H2945	8260	blank
3	Sample	100	H2946	BFB	bfb 23:12
4	Sample	1	H2947	8260	blank
5	Sample	2	H2948	8260	blank
6	Sample	3	H2949	8260	ic
7	Sample	4	H2950	8260	ic
8	Sample	5	H2951	8260	ic
9	Sample	6	H2952	8260	ic
10	Sample	7	H2953	8260	ic
11	Sample	8	H2954	8260	ic
12	Sample	9	H2955	8260	ic
13	Sample	10	H2956	8260	icv
14	Sample	11	H2957	8260	ic
15	Sample	12	H2958	8260	ic
16	Sample	13	H2959	8260	ic
17	Sample	14	H2960	8260	icis
18	Sample	15	H2961	8260	ic
19	Sample	16	H2962	8260	ic
20	Sample	17	H2963	8260	icv
21	Sample	18	H2964	8260	mdlv1
22	Sample	19	H2965	8260	mdlv2
23	Sample	20	H2966	8260	mdlv3
24	Sample	21	H2967	8260	mdlv4
25	Sample	22	H2968	8260	mdlv5 07:25

TestAmerica Laboratories
Worklist Report

Worklist Name: 052715i
Worklist Number: 35452
Instrument Name: VMS_H
Chrom Method: AQ_VMSH_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_H\20150528-35452.b
Upload Directory: \\Corptalsapp06\280-DN-RawData\Organics\MS\VMS_H
Run Reagent: MV-568718-D_00002 Amount Added: 1.000000, Units: uL
Run Reagent: MV-ARCH SS A_00042 Amount Added: 0.680000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035452-001	# 1 BFB	MV-BFB_00018	BFB		voaWater	1.000000	uL	1.000000
280-0035452-002	# 2 CCV	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	CCV		voaWater	20.00	mL	1.000000
280-0035452-003	# 3 CCV	MV-Supp A_00011	CCV		voaWater	20.00	mL	1.000000
280-0035452-004	# 4 LCS	MV-Main B_00009 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	LCS		voaWater	20.00	mL	1.000000
280-0035452-005	# 5 LCSD	MV-Main B_00009 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	LCSD		voaWater	20.00	mL	1.000000
280-0035452-006	# 6 MB		MB		voaWater	20.00	mL	1.000000
280-0035452-007	# 7 280-62974-A-1		Client		voaWater	20.00	mL	1.000000
280-0035452-008	# 8 280-62974-A-2		Client		voaWater	20.00	mL	1.000000
280-0035452-009	# 9 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	1	voaWater	20.00	mL	1.000000
280-0035452-010	#10 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	2	voaWater	20.00	mL	1.000000
280-0035452-011	#11 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	3	voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0035452-012	#12 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	4	voaWater	20.00	mL	1.000000
280-0035452-013	#13 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	5	voaWater	20.00	mL	1.000000
280-0035452-014	#14 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	6	voaWater	20.00	mL	1.000000
280-0035452-015	#15 ic	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	IC	7	voaWater	20.00	mL	1.000000
280-0035452-016	#16 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	2	voaWater	20.00	mL	1.000000
280-0035452-017	#17 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	3	voaWater	20.00	mL	1.000000
280-0035452-018	#18 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	4	voaWater	20.00	mL	1.000000
280-0035452-019	#19 icis	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	ICIS	5	voaWater	20.00	mL	1.000000
280-0035452-020	#20 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	6	voaWater	20.00	mL	1.000000
280-0035452-021	#21 ic	MV-568718-D_00002 MV-Supp A_00011 MV-ARCH SS A_00042	IC	7	voaWater	20.00	mL	1.000000
280-0035452-022	#22 icv	MV-568718-D_00002 MV-Main B_00009 MV-Gas/Ket B_00017 MV-SS 2-Cleve_00020	ICV		voaWater	20.00	mL	1.000000
280-0035452-023	#23 icv	MV-568718-D_00002 MV-Supp B_00005 MV-ARCH SS A_00042	ICV		voaWater	20.00	mL	1.000000
280-0035452-024	#24 mdlv1	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	Client		voaWater	20.00	mL	1.000000
280-0035452-025	#25 mdlv2	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	Client		voaWater	20.00	mL	1.000000
280-0035452-026	#26 mdlv3	MV-568718-D_00002 MV-Main A_00022 MV-Gas/Ket A_00033 MV-2cleve+AVA_00009	Client		voaWater	20.00	mL	1.000000

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Batch Number: 278302 Batch Start Date: 05/19/15 17:00 Batch Analyst: Dukes, Aaron D

Batch Method: 5035 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
MB 280-278302/1		5035, 8260B		30 g	35 g	5 g	5 mL		
LCS 280-278302/2		5035, 8260B		30 g	35 g	5 g	5 mL		
280-69452-C-3	54400-SB01-0515-5	5035, 8260B	T	+033.200 g	37.971 g	4.771 g	5 mL		
280-69452-C-4	54400-SB01-0515-12.5	5035, 8260B	T	31.619 g	35.979 g	4.36 g	5 mL		
280-69452-C-5	54400-SB01-0515-15	5035, 8260B	T	31.101 g	36.955 g	5.854 g	5 mL		
280-69452-C-6	54400-SB02-0515-0	5035, 8260B	T	31.595 g	37.027 g	5.432 g	5 mL		
280-69452-C-7	54400-SB02-0515-2.5	5035, 8260B	T	31.747 g	37.251 g	5.504 g	5 mL		
280-69452-C-9	54400-SB02-0515-15	5035, 8260B	T	+033.041 g	38.581 g	5.54 g	5 mL		
280-69452-C-10	54400-SB03-0515-0	5035, 8260B	T	+033.061 g	39.883 g	6.822 g	5 mL		
280-69452-C-11	54400-SB03-0515-5	5035, 8260B	T	+032.611 g	39.872 g	7.261 g	5 mL		
280-69452-C-12	54400-SB03-0515-10	5035, 8260B	T	+033.058 g	39.554 g	6.496 g	5 mL		
280-69452-C-13	54400-SB03-0515-15	5035, 8260B	T	31.203 g	37.188 g	5.985 g	5 mL		
280-69452-C-8	54400-SB02-0515-10	5035, 8260B	T	31.271 g	34.080 g	2.809 g	5 mL		

Batch Notes	
Balance ID	24850252
Blank Sand Lot #	144816

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Batch Number: 278666 Batch Start Date: 05/21/15 17:00 Batch Analyst: Dukes, Aaron D

Batch Method: 5030B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 280-278666/1		5030B, 8260B		5 g	5 mL				
LCS 280-278666/2		5030B, 8260B		5 g	5 mL				
280-69452-A-2	54400-SB01-0515-0	5030B, 8260B	T	4.130 g	5 mL				

Batch Notes	
Balance ID	24850252
Blank Soil Lot Number	144816

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 Denver Job Number: 280-69452-1

SDG No.:

Project: GSI - McConnell Air Force Base, Kansas

Client Sample ID	Lab Sample ID
54400-SB01-0515-0	280-69452-2
54400-SB01-0515-5	280-69452-3
54400-SB01-0515-12.5	280-69452-4
54400-SB01-0515-15	280-69452-5
54400-SB02-0515-0	280-69452-6
54400-SB02-0515-2.5	280-69452-7
54400-SB02-0515-10	280-69452-8
54400-SB02-0515-15	280-69452-9
54400-SB03-0515-0	280-69452-10
54400-SB03-0515-5	280-69452-11
54400-SB03-0515-10	280-69452-12
54400-SB03-0515-15	280-69452-13

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-69452-1

SDG Number:

Matrix: Solid Instrument ID: NoEquip

Method: D 2216 LOQ Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Instrument ID: NoEquip Method: D 2216

Start Date: 05/20/2015 14:06 End Date: 05/20/2015 14:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
280-69452-2	1	T	14:06	X																			
280-69452-2 DU	1	T	14:06	X																			
280-69452-3	1	T	14:06	X																			
280-69452-4	1	T	14:06	X																			
280-69452-5	1	T	14:06	X																			
280-69452-6	1	T	14:06	X																			
280-69452-7	1	T	14:06	X																			
280-69452-8	1	T	14:06	X																			
280-69452-9	1	T	14:06	X																			
280-69452-10	1	T	14:06	X																			
280-69452-11	1	T	14:06	X																			
280-69452-12	1	T	14:06	X																			
280-69452-13	1	T	14:06	X																			
ZZZZZZ			14:06																				
ZZZZZZ			14:06																				
ZZZZZZ			14:06																				
ZZZZZZ			14:06																				
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ZZZZZZ			14:06																				
ZZZZZZ			14:06																				
ZZZZZZ			14:06																				
ZZZZZZ			14:06																				

Prep Types
T = Total/NA

Wet Chemistry Data Review Checklist for Gravimetric Methods

Method(s): Percent M	Instrument: BAL	SOP #: WC-0023	Analyst: Anthony Fameze
Run Date: 05/20/2015	Prep Batch(s): NA	Analytical Batch: 278402, 278420	

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd
Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			
Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			
Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	—
B. Method Requirements				
If sample is visibly oily, was this noted on the benchsheet?			✓	—
Was final residue weight within minimum/maximum requirements?	✓			—
Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			—
C. Sample Results				
TDS/Conductivity ratio or historical data checked?			✓	—
For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?	✓			—
Were sample analyses done within holding time? **If no, create HTV NCM. NCM#**			✓	—
Were special client requirements met?	✓			—
Were data that were manually transcribed from instrument printouts into TALS verified 100% including dilution factors, significant figures and units?			✓	—
Do the prep and analysis dates in TALS reflect the actual dates?	✓			—
STD/True Value information is updated and included?			✓	—
D. Preparation/Matrix QC				
Method blank < ½ RL or all reported samples > 10 X RL? - **(HEM, SGT HEM, TDS, TSS MB <RL)**			✓	—
Method blank < ½ RL or NCM provided? - **(HEM, SGT HEM, TDS, TSS MB <RL)**			✓	—
LCS/LCSD run for batch and within QC limits?			✓	—
DUP run for batch and RPD < 20% for samples >5 X RL?		✓		—
DUP run at required frequency and RPD within acceptance limits or NCM written?	✓			—

Menu or Tab	Check	1st	2nd
Analyst Desktop	Create or and open batch		
View Batch Info	Confirm all fields are populated	✓	—
	Edit Analyst ID as is appropriate	✓	—
Run log	Verify the correct samples and QC are run at the correct frequency (i.e., 10 samples per CCV)	✓	—
Sample List	In edit mode, if prompted to process samples, select "Yes"	✓	—
	Confirm samples are identified (Blue P Icon)	✓	—
	Confirm correct analysis date and time are listed	✓	—
	Confirm samples have the correct dilution factors	✓	—
	Confirm samples have the correct method chain assigned	✓	—
	Confirm that solid samples have the % moisture listed	✓	—
Worksheet	Populate all appropriate fields in the worksheet. Initial Amount, Final Amount, pH, etc.	✓	—
	Confirm that data are entered correctly. Verify pH is recorded when appropriate for the method.	✓	—
Reagents	Confirm reagents are correct and properly associated with QC samples. Confirm that reagent amounts are correct. If reagents are new verify that the correct COA has been attached to the source standard	✓	—
Results	Check for special instructions (Login, Method and Sample comments) - red notebook icon	✓	—
	Check for any QC failures	✓	—
	Set status for samples based on QC and sample results info (i.e., set to primary analysis with passing QC or reject samples without passing QC or sample that are over-range.	✓	—
	Address any results that are reported without passing QC with an NCM.	✓	—
QC Links	Confirm QC links are correct.	✓	—
Hist. Data Check	Check historical data. Print charts for outliners. Take corrective action as is appropriate	✓	—
Sample List	Re-calculate data and set to appropriate review status (1st or 2nd level review)	✓	—
	Scan and attach raw data & save batch	✓	—

Analyst: [signature]	Date: 05/21/2015	Analyst Comments: —
2nd Level Reviewer: [signature]	Date: 5/21/15	Reviewer Comments: —

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Batch Number: 278420 Batch Start Date: 05/20/15 14:03 Batch Analyst: Fameree, Anthony J

Batch Method: D 2216 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-69452-A-2	54400-SB01-0515-0	D 2216	T	1	1.31 g	16.88 g	13.67 g		
280-69452-A-2 DU	54400-SB01-0515-0	D 2216	T	2	1.30 g	17.07 g	13.81 g		
280-69452-A-3	54400-SB01-0515-5	D 2216	T	3	1.30 g	17.09 g	14.25 g		
280-69452-A-4	54400-SB01-0515-12.5	D 2216	T	4	1.31 g	17.02 g	14.21 g		
280-69452-A-5	54400-SB01-0515-15	D 2216	T	5	1.32 g	16.91 g	14.02 g		
280-69452-A-6	54400-SB02-0515-0	D 2216	T	6	1.30 g	17.21 g	14.04 g		
280-69452-A-7	54400-SB02-0515-2.5	D 2216	T	7	1.32 g	17.25 g	14.40 g		
280-69452-A-8	54400-SB02-0515-10	D 2216	T	8	1.29 g	16.82 g	13.28 g		
280-69452-A-9	54400-SB02-0515-15	D 2216	T	9	1.30 g	17.05 g	14.03 g		
280-69452-A-10	54400-SB03-0515-0	D 2216	T	10	1.31 g	16.99 g	14.01 g		
280-69452-A-11	54400-SB03-0515-5	D 2216	T	11	1.33 g	16.84 g	13.59 g		
280-69452-A-12	54400-SB03-0515-10	D 2216	T	12	1.33 g	17.18 g	14.25 g		
280-69452-A-13	54400-SB03-0515-15	D 2216	T	13	1.31 g	17.31 g	14.17 g		

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-69452-1

SDG No.:

Batch Number: 278420 Batch Start Date: 05/20/15 14:03 Batch Analyst: Fameree, Anthony J

Batch Method: D 2216 Batch End Date:

Batch Notes	
Balance ID	H31422 No Unit
Date and Time Samples in Desiccator	05/21/2015 08:10 AJF
Date and Time Samples out of Desiccator	05/21/2015 09:15 AJF
Date samples were placed in the oven	05/20/15
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	15:16
Date samples were removed from oven	05/21/2015
Oven Temp when samples removed from oven	103 Degrees C
Time Samples were removed from oven	08:10
Oven ID	F
ID number of the thermometer	227-694
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of C

280-69452 Chain of Custody

808375952090

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: D. Le	Lab PM: Walker, Elaine M	Carrier Tracking No(s): FedEx # ~~8065 2457 7210~~	COC No: 280-42619-16602.1
Client Contact: Anna Zabierek	Phone: ~~713-522-6300~~ 512-346-4474	E-Mail: elaine.walker@testamericainc.com		Page: Page 1 of ~~1~~ 2
Company: GSI Environmental, Inc				Job #: 3969-211
Address: 9600 Great Hills Trail, Ste 350E	Due Date Requested:			
City: Austin	TAT Requested (days): Standard TAT (except noted)			
State, Zip: TX, 78759				
Phone: 512-346-4474(Tel)	PO #: 3969-211			
Email: alw@gsi-net.com	WO #:			
Project Name: GSI - McConnell Air Force Base, Kansas	Project #: 28013169			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260_AFCEE - VOCs (Terracores)	Moisture - Percent Moisture	8260B_DOD5 - VOCs (Trip Blank)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				E	N	A		
54403-TB1B-0515-				Solid					X		
54400-SB01-0515-0	05/18/15	1548	G	Solid			X	X			
54400-SB01-0515-5	05/18/15	1551		Solid			X	X			
54400-SB01-0515-12.5	05/18/15	1555		Solid			X	X			
54400-SB01-0515-15	05/18/15	1558		Solid			X	X			
54400-SB02-0515-0		1632		Solid			X	X			
54400-SB02-0515-2.5		1638		Solid			X	X			
54400-SB02-0515-10		1654		Solid			X	X			
54400-SB02-0515-15		1700		Solid			X	X			
54400-SB03-0515-0		1738		Solid			X	X			
54400-SB03-0515-5		1743		Solid			X	X			

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	5/18/15 1910	GSI	[signature]	0720 19May15	TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.0 RSTOR 19May15 Transfer by [signature]

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

808375952090

Client Information	Sampler: D. Le	Lab PM: Walker, Elaine M	Carrier Tracking No(s): FedEx # ~~[illegible]~~	COC No: 280-42619-16602.1
Client Contact: Anna Zabierek	Phone: 512-346-4474	E-Mail: elaine.walker@testamericainc.com		Page: 2 Page 1 of 2
Company: GSI Environmental, Inc				Job #: 3969-211
Address: 9600 Great Hills Trail, Ste 350E	Due Date Requested:			
City: Austin	TAT Requested (days): Standard TAT (except noted)			
State, Zip: TX, 78759				
Phone: 512-346-4474(Tel)	PO #: 3969-211			
Email: alw@gsi-net.com	WO #:			
Project Name: GSI - McConnell Air Force Base, Kansas	Project #: 28013169			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260_AFCEE - VOCs (Terracores)	Moisture - Percent Moisture	8260B_DOD5 - VOCs (Trip Blank)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				E	N	A		
54400-SB03-0515-10	05/18/15	1748	G	Solid			X	X			
54400-SB03-0515-15	05/18/15	1751	G	Solid			X	X			
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 5/18/15 1910	Company	Received by: [signature]	Date/Time: 0720 19May15	Company TAD
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 280-69452-1

Login Number: 69452
List Number: 1
Creator: Muniz, Ashley T

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	