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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, Humacao, PR

SM04.00.06

SGS Accutest Job Number: FA33998

Sampling Date: 05/16/16

Report to:

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ATTN: Terry Taylor

Total number of pages in report: **321**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **6**
Section 4: Sample Results **7**
4.1: FA33998-1: RA9-GWD 8
4.2: FA33998-2: RA3 (3-4) 10
4.3: FA33998-3: TB051616 12
4.4: FA33998-4: BPEB-21 14
Section 5: Misc. Forms **16**
5.1: Chain of Custody 17
Section 6: GC/MS Volatiles - QC Data Summaries **20**
6.1: Method Blank Summary 21
6.2: Blank Spike Summary 25
6.3: Matrix Spike/Matrix Spike Duplicate Summary 29
6.4: Instrument Performance Checks (BFB) 33
6.5: Internal Standard Area Summaries 38
6.6: Surrogate Recovery Summaries 41
6.7: Initial and Continuing Calibration Summaries 43
Section 7: GC/MS Volatiles - Raw Data **73**
7.1: Samples 74
7.2: Method Blanks 97
7.3: Blank Spikes 101
7.4: Matrix Spike/Matrix Spike Duplicates 116
7.5: Instrument Performance Checks (BFB) 144
7.6: Initial and Continuing Calibrations 148
7.7: Instrument Run Logs 302
Section 8: General Chemistry - QC Data Summaries **320**
8.1: Percent Solids Raw Data Summary 321

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Sample Summary

Anderson, Mulholland & Associates

Job No: FA33998

BMSMC, Building 5 Area, Humacao, PR
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA33998-1	05/16/16	12:00	RTL	05/17/16	AQ	Ground Water	RA9-GWD
FA33998-2	05/16/16	13:25	RTL	05/17/16	SO	Soil	RA3 (3-4)
FA33998-3	05/16/16	09:30	RTL	05/17/16	AQ	Trip Blank Water	TB051616
FA33998-4	05/16/16	15:45	RTL	05/17/16	AQ	Equipment Blank	BPEB-21

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA33998

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 5/23/2016 10:36:04 AM

3 Sample(s), 1 Trip Blank(s) were collected on 05/16/2016 and were received at SGS Accutest Southeast (SASE) on 05/17/2016 properly preserved, at 3.9 Deg. C and intact. These Samples received an SASE job number of FA33998. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** VJ5302

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA33998-1MS, FA33998-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for trans-1,2-Dichloroethylene are outside control limits. % Recovery was above upper control limits, but samples were ND for trans-1,2-Dichloroethylene.

Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Benzyl Chloride, Bromochloromethane, Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Cyclohexane, Dibromochloromethane, Ethylbenzene, Freon 113, Isopropylbenzene, m,p-Xylene, Methyl Acetate, Methyl Tert Butyl Ether, Methylcyclohexane, Methylene Chloride, o-Xylene, p-Isopropyltoluene, Styrene, Tert-Amyl Alcohol, Tert-Butyl Alcohol, Tetrachloroethylene, Tetrahydrofuran, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Benzyl Chloride, Bromochloromethane, Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Cyclohexane, Dibromochloromethane, Ethylbenzene, Freon 113, Isopropylbenzene, m,p-Xylene, Methyl Acetate, Methyl Tert Butyl Ether, Methylcyclohexane, Methylene Chloride, o-Xylene, p-Isopropyltoluene, Styrene, Tert-Amyl Alcohol, Tert-Butyl Alcohol, Tetrachloroethylene, Tetrahydrofuran, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA33998-1 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA33998-3 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA33998-4 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

Matrix: SO **Batch ID:** VY1158

All samples were analyzed within the recommended method holding time.

Sample(s) FA33998-2MS, FA33998-2MSD were used as the QC samples indicated.

Sample(s) FA33998-2 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method

Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 4-Methyl-2-pentanone (MIBK), Benzyl Chloride, Ethylbenzene, Isopropylbenzene, m,p-Xylene, p-Isopropyltoluene, Tetrachloroethylene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,4-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Benzyl Chloride, Dichlorodifluoromethane, Ethylbenzene, Freon 113, Isopropylbenzene, p-Isopropyltoluene, Tetrachloroethylene, Trichlorofluoromethane, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 1,2,3-Trichlorobenzene are outside control limits for sample FA33998-2MSD. Probable cause is due to sample non-homogeneity.

FA33998-2 for Methylene Chloride: Suspected laboratory contaminant.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN70973

Sample(s) FA33834-3DUP were used as the QC samples for Solids, Percent.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 23, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA33998-1MS	MSVOA	J0976579.D	Carbon Tetrachloride, Trichlorofluoromethane
FA33998-1MSD	MSVOA	J0976580.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5295-IC5295	MSVOA	J0976447.D	Acrylonitrile, Trichlorofluoromethane
VJ5295-IC5295	MSVOA	J0976448.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5295-IC5295	MSVOA	J0976449.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5295-IC5295	MSVOA	J0976450.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5295-IC5295	MSVOA	J0976452.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5295-IC5295	MSVOA	J0976453.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5295-ICC5295	MSVOA	J0976451.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5295-ICV5295	MSVOA	J0976455.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5301-CC5295	MSVOA	J0976555.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5302-BS	MSVOA	J0976558.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VY1149-IC1149	MSVOA	Y28379.D	Ethyl Alcohol
VY1149-IC1149	MSVOA	Y28380.D	Ethyl Alcohol

14 Manual Integrations were found for FA33998

Summary of Hits

Job Number: FA33998
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 05/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA33998-1	**RA9-GWD**					
Chlorobenzene		0.39 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		0.82 J	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		2.5	1.0	0.20	ug/l	SW846 8260C
FA33998-2	**RA3 (3-4)**					
Acetone		101	58	12	ug/kg	SW846 8260C
Cyclohexane		1.5 J	5.8	1.4	ug/kg	SW846 8260C
Ethylbenzene		48.4	5.8	1.3	ug/kg	SW846 8260C
Isopropylbenzene		16.4	5.8	1.6	ug/kg	SW846 8260C
Methylcyclohexane		12.5	5.8	1.2	ug/kg	SW846 8260C
Methylene Chloride [a]		5.4 JB	12	4.6	ug/kg	SW846 8260C
Methyl Tert Butyl Ether		15.3	5.8	1.3	ug/kg	SW846 8260C
m,p-Xylene		11.5 J	12	2.0	ug/kg	SW846 8260C
o-Xylene		3.6 J	5.8	1.3	ug/kg	SW846 8260C

FA33998-3 **TB051616**

No hits reported in this sample.

FA33998-4 **BPEB-21**

No hits reported in this sample.

(a) Suspected laboratory contaminant.

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	RA9-GWD		
Lab Sample ID:	FA33998-1	**Date Sampled:**	05/16/16
Matrix:	AQ - Ground Water	**Date Received:**	05/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976576.D	1	05/17/16	DP	n/a	n/a	VJ5302
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.39	1.0	0.20	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.82	1.0	0.33	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA9-GWD		
Lab Sample ID:	FA33998-1	**Date Sampled:**	05/16/16
Matrix:	AQ - Ground Water	**Date Received:**	05/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.5	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA3 (3-4)		
Lab Sample ID:	FA33998-2	**Date Sampled:**	05/16/16
Matrix:	SO - Soil	**Date Received:**	05/17/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	79.3
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y28636.D	1	05/17/16	AD	05/17/16 11:13	n/a	VY1158
Run #2							

	Initial Weight	Final Volume
Run #1	5.47 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	101	58	12	ug/kg	
71-43-2	Benzene	ND	5.8	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.8	1.6	ug/kg	
74-97-5	Bromochloromethane	ND	5.8	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	1.2	ug/kg	
75-25-2	Bromoform	ND	5.8	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	29	10	ug/kg	
75-15-0	Carbon Disulfide	ND	5.8	1.2	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.8	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	1.2	ug/kg	
75-00-3	Chloroethane	ND	5.8	2.3	ug/kg	
67-66-3	Chloroform	ND	5.8	1.4	ug/kg	
110-82-7	Cyclohexane	1.5	5.8	1.4	ug/kg	J
124-48-1	Dibromochloromethane	ND	5.8	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.8	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.8	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	2.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	1.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	1.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	1.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.8	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.8	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.8	1.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	1.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	1.2	ug/kg	
100-41-4	Ethylbenzene	48.4	5.8	1.3	ug/kg	
76-13-1	Freon 113	ND	5.8	1.3	ug/kg	
591-78-6	2-Hexanone	ND	29	10	ug/kg	
98-82-8	Isopropylbenzene	16.4	5.8	1.6	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA3 (3-4)		
Lab Sample ID:	FA33998-2	**Date Sampled:**	05/16/16
Matrix:	SO - Soil	**Date Received:**	05/17/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	79.3
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	5.8	1.2	ug/kg	
79-20-9	Methyl Acetate	ND	29	9.9	ug/kg	
74-83-9	Methyl Bromide	ND	5.8	3.0	ug/kg	
74-87-3	Methyl Chloride	ND	5.8	2.8	ug/kg	
108-87-2	Methylcyclohexane	12.5	5.8	1.2	ug/kg	
75-09-2	Methylene Chloride [a]	5.4	12	4.6	ug/kg	JB
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	29	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	15.3	5.8	1.3	ug/kg	
100-42-5	Styrene	ND	5.8	1.2	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	58	16	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	58	16	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	2.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.8	1.5	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	4.2	ug/kg	
108-88-3	Toluene	ND	5.8	1.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	1.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.8	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.8	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	5.8	1.9	ug/kg	
	m,p-Xylene	11.5	12	2.0	ug/kg	J
95-47-6	o-Xylene	3.6	5.8	1.3	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		75-124%
17060-07-0	1,2-Dichloroethane-D4	117%		72-135%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	104%		71-133%

(a) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	TB051616		
Lab Sample ID:	FA33998-3	**Date Sampled:**	05/16/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976577.D	1	05/17/16	DP	n/a	n/a	VJ5302
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB051616		
Lab Sample ID:	FA33998-3	**Date Sampled:**	05/16/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-21		
Lab Sample ID:	FA33998-4	**Date Sampled:**	05/16/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976578.D	1	05/17/16	DP	n/a	n/a	VJ5302
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPEB-21		
Lab Sample ID:	FA33998-4	**Date Sampled:**	05/16/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST-FL

CHAIN OF CUSTODY

SGS Accutest ~~Dayton~~ Florida
~~2235 Route 130, Dayton, NJ 08810~~ 4405 Vineland
Orlando, FL
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FA33998 PAGE 1 OF 1

809960569635

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # Out from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc.
Street Address: 2700 Westchester
City: Purchase State: NY Zip:
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand Phone #:

Project Information

Project Name: BMS Release Assessment
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager:
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:

Requested Analysis (see TEST CODE sheet): VO - Method 8260C

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VO - Method 8260C	LAB USE ONLY
1	RA9-GWD		05/16/16	1200	TT	GW	3	3								X	
2	RA3 (3-4)		05/16/16	1325	TT	SO	4					1		3		X	
3	TB051616		04/11/16	0630		TB	2	2								X	
4	BPEB-21		05/16/16	1545	TT	EB	3	3								X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For aqueous samples
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Add to Report: Tetrahydrofuran, p-Isopropyl toluene, Benzyl chloride, 1-2-4 Trimethyl benzene, Tert amyl chloride

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	05/16/16 1500	1 FedEX	2 FX		2 5/17/16 GGS
3		3	4		4
5		5			

Relinquished by: 5 — Date Time: — Received By: 5 — Custody Seal # 380 — [ ] Intact [ ] Not intact — Preserved where applicable [ ] — On Ice [ ] (1) — Cooler Temp 3.9

5.1 5

FA33998: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA33998 CLIENT: Anderson Mulholland PROJECT: BMS Release

DATE/TIME RECEIVED: 5/17/16 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8099 6056 9635

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM 3

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 3.9
- [ ] CORRECTED TEMPS: 3.9 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5/17/16 REVIEWER SIGNATURE/DATE 5-17-16

NF 11/15 RECEIPTLOG040416.xls

5.1

5

FA33998: Chain of Custody

Page 2 of 3

Origin Copy

FedEx Tracking Number

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

1 [X] FedEx Intl. Priority
6 [ ] FedEx Intl. First — Available to select locations.
[ ] 3 [ ] FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 [ ] FedEx Envelope 2 [ ] FedEx Pak 3 [ ] FedEx Box 4 [ ] FedEx Tube
1 [X] Other ____ PW [ ] FedEx 10kg Box* PX [ ] FedEx 25kg Box*

6 Special Handling

1 [ ] HOLD at FedEx Location 3 [ ] SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

1 [ ] Sender Acct. No. in Section 1 will be billed. 2 [ ] Recipient 3 [X] Third Party 4 [ ] Credit Card 5 [ ] Cash Check/Cheque — Total Transportation

FedEx Acct. No. 1147-5950-3

0 [redacted]

Credit Card Exp. Date ____ Specify Currency

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

1 [ ] Sender Acct. No. in Section 1 will be billed. 2 [✓] Recipient 3 [ ] Third Party 5 [ ] Cash Check/Cheque

FedEx Acct. No. ____

8 Your Internal Billing Reference First 24 characters will appear on invoice.

BMS Release Assess

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature: ____

568

PART 156410
Rev. Date 11/06
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PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6056 9635 0402

Form ID No. RRDA 12/15

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
NYDC	TIXA	TIXA	Total Volume (cm)

Received At: 1 [ ] Reg. Stop 2 [ ] On-Call Stop 3 [ ] Drop Box 4 [X] World Service Center 5 [ ] Station — Forms Attached: [ ] CI [ ] CD

Base Charges ____ Declared Val. Chrg. ____ Other ____ GBA/OPA ____ Credit Card Auth. ____
FedEx Emp. # 322371 Audit Emp. # ____ Date 5/1/12 Time 1744 Int. Courier Emp. # ____ Date ____ Time ____

Non Negotiable International Air Waybill • ©1994–2006 FedEx

5.1 5

FA33998: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5302-MB	J0976557.D	1	05/17/16	DP	n/a	n/a	VJ5302

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-1, FA33998-3, FA33998-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	

Method Blank Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5302-MB	J0976557.D	1	05/17/16	DP	n/a	n/a	VJ5302

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-1, FA33998-3, FA33998-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1158-MB	Y28624.D	1	05/17/16	AD	n/a	n/a	VY1158

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
75-15-0	Carbon Disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
76-13-1	Freon 113	ND	5.0	1.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
79-20-9	Methyl Acetate	ND	25	8.6	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	

Method Blank Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1158-MB	Y28624.D	1	05/17/16	AD	n/a	n/a	VY1158

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	4.0	10	4.0	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	50	14	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	3.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
	m,p-Xylene	ND	10	1.8	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	75-124%
17060-07-0	1,2-Dichloroethane-D4	109%	72-135%
2037-26-5	Toluene-D8	101%	75-126%
460-00-4	4-Bromofluorobenzene	109%	71-133%

Blank Spike Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5302-BS	J0976558.D	1	05/17/16	DP	n/a	n/a	VJ5302

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-1, FA33998-3, FA33998-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	108	86	50-147
71-43-2	Benzene	25	24.8	99	81-122
100-44-7	Benzyl Chloride	25	23.3	93	54-122
74-97-5	Bromochloromethane	25	22.2	89	76-123
75-27-4	Bromodichloromethane	25	27.8	111	79-123
75-25-2	Bromoform	25	26.7	107	66-123
78-93-3	2-Butanone (MEK)	125	114	91	56-143
75-15-0	Carbon Disulfide	25	26.2	105	66-148
56-23-5	Carbon Tetrachloride	25	25.6	102	76-136
108-90-7	Chlorobenzene	25	24.8	99	82-124
75-00-3	Chloroethane	25	29.7	119	62-144
67-66-3	Chloroform	25	28.7	115	80-124
110-82-7	Cyclohexane	25	27.0	108	73-138
124-48-1	Dibromochloromethane	25	27.5	110	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	22.8	91	64-123
106-93-4	1,2-Dibromoethane	25	22.7	91	75-120
75-71-8	Dichlorodifluoromethane	25	28.4	114	42-167
95-50-1	1,2-Dichlorobenzene	25	23.8	95	82-124
541-73-1	1,3-Dichlorobenzene	25	24.7	99	84-125
106-46-7	1,4-Dichlorobenzene	25	24.2	97	78-120
75-34-3	1,1-Dichloroethane	25	27.0	108	81-122
107-06-2	1,2-Dichloroethane	25	27.0	108	75-125
75-35-4	1,1-Dichloroethylene	25	28.2	113	78-137
156-59-2	cis-1,2-Dichloroethylene	25	28.1	112	78-120
156-60-5	trans-1,2-Dichloroethylene	25	33.3	133*	76-127
78-87-5	1,2-Dichloropropane	25	24.3	97	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.2	105	80-120
100-41-4	Ethylbenzene	25	25.2	101	81-121
76-13-1	Freon 113	25	24.7	99	72-134
591-78-6	2-Hexanone	125	106	85	61-129
98-82-8	Isopropylbenzene	25	26.0	104	83-132
99-87-6	p-Isopropyltoluene	25	27.2	109	79-130
79-20-9	Methyl Acetate	125	112	90	65-126
74-83-9	Methyl Bromide	25	28.1	112	59-143
74-87-3	Methyl Chloride	25	28.8	115	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5302-BS	J0976558.D	1	05/17/16	DP	n/a	n/a	VJ5302

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-1, FA33998-3, FA33998-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	28.0	112	76-129
75-09-2	Methylene Chloride	25	25.1	100	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	104	83	66-122
1634-04-4	Methyl Tert Butyl Ether	25	21.6	86	72-117
100-42-5	Styrene	25	25.5	102	78-119
75-85-4	Tert-Amyl Alcohol	250	198	79	65-124
75-65-0	Tert-Butyl Alcohol	250	240	96	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	26.2	105	72-120
127-18-4	Tetrachloroethylene	25	30.0	120	76-135
109-99-9	Tetrahydrofuran	25	23.7	95	56-122
108-88-3	Toluene	25	25.3	101	80-120
87-61-6	1,2,3-Trichlorobenzene	25	22.8	91	68-131
120-82-1	1,2,4-Trichlorobenzene	25	22.5	90	73-129
71-55-6	1,1,1-Trichloroethane	25	28.3	113	75-130
79-00-5	1,1,2-Trichloroethane	25	28.1	112	76-119
79-01-6	Trichloroethylene	25	29.7	119	81-126
75-69-4	Trichlorofluoromethane	25	30.7	123	71-156
95-63-6	1,2,4-Trimethylbenzene	25	24.4	98	79-120
75-01-4	Vinyl Chloride	25	28.0	112	69-159
	m,p-Xylene	50	51.0	102	79-126
95-47-6	o-Xylene	25	25.7	103	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1158-BS	Y28623.D	1	05/17/16	AD	n/a	n/a	VY1158

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	204	82	61-152
71-43-2	Benzene	50	52.5	105	76-126
100-44-7	Benzyl Chloride	50	51.2	102	65-126
74-97-5	Bromochloromethane	50	49.4	99	77-120
75-27-4	Bromodichloromethane	50	52.2	104	74-130
75-25-2	Bromoform	50	52.4	105	76-127
78-93-3	2-Butanone (MEK)	250	223	89	75-137
75-15-0	Carbon Disulfide	50	50.9	102	72-122
56-23-5	Carbon Tetrachloride	50	50.8	102	78-133
108-90-7	Chlorobenzene	50	51.5	103	81-129
75-00-3	Chloroethane	50	51.9	104	68-133
67-66-3	Chloroform	50	52.2	104	72-123
110-82-7	Cyclohexane	50	48.0	96	73-126
124-48-1	Dibromochloromethane	50	52.6	105	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	52.8	106	70-137
106-93-4	1,2-Dibromoethane	50	49.6	99	77-126
75-71-8	Dichlorodifluoromethane	50	45.4	91	68-168
95-50-1	1,2-Dichlorobenzene	50	51.3	103	80-129
541-73-1	1,3-Dichlorobenzene	50	51.5	103	81-129
106-46-7	1,4-Dichlorobenzene	50	49.1	98	76-130
75-34-3	1,1-Dichloroethane	50	55.6	111	73-125
107-06-2	1,2-Dichloroethane	50	50.6	101	74-128
75-35-4	1,1-Dichloroethylene	50	52.4	105	81-136
156-59-2	cis-1,2-Dichloroethylene	50	50.6	101	74-126
156-60-5	trans-1,2-Dichloroethylene	50	57.5	115	70-127
78-87-5	1,2-Dichloropropane	50	53.0	106	74-125
10061-01-5	cis-1,3-Dichloropropene	50	53.5	107	80-123
10061-02-6	trans-1,3-Dichloropropene	50	57.5	115	75-131
100-41-4	Ethylbenzene	50	52.0	104	77-123
76-13-1	Freon 113	50	43.7	87	71-129
591-78-6	2-Hexanone	250	229	92	72-133
98-82-8	Isopropylbenzene	50	52.7	105	80-136
99-87-6	p-Isopropyltoluene	50	52.3	105	77-131
79-20-9	Methyl Acetate	250	271	108	67-137
74-83-9	Methyl Bromide	50	49.9	100	65-139
74-87-3	Methyl Chloride	50	50.3	101	71-144

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1158-BS	Y28623.D	1	05/17/16	AD	n/a	n/a	VY1158

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-87-2	Methylcyclohexane	50	47.6	95	75-128
75-09-2	Methylene Chloride	50	56.6	113	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	248	99	76-132
1634-04-4	Methyl Tert Butyl Ether	50	51.9	104	77-120
100-42-5	Styrene	50	52.6	105	78-125
75-85-4	Tert-Amyl Alcohol	500	451	90	69-130
75-65-0	Tert-Butyl Alcohol	500	472	94	58-136
79-34-5	1,1,2,2-Tetrachloroethane	50	50.2	100	71-126
127-18-4	Tetrachloroethylene	50	47.9	96	79-130
109-99-9	Tetrahydrofuran	50	47.3	95	70-133
108-88-3	Toluene	50	51.7	103	76-124
87-61-6	1,2,3-Trichlorobenzene	50	51.5	103	77-128
120-82-1	1,2,4-Trichlorobenzene	50	49.2	98	78-130
71-55-6	1,1,1-Trichloroethane	50	52.1	104	70-129
79-00-5	1,1,2-Trichloroethane	50	49.9	100	74-124
79-01-6	Trichloroethylene	50	51.1	102	75-128
75-69-4	Trichlorofluoromethane	50	50.8	102	73-145
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	74-123
75-01-4	Vinyl Chloride	50	49.7	99	76-141
	m,p-Xylene	100	107	107	80-128
95-47-6	o-Xylene	50	52.4	105	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	75-124%
17060-07-0	1,2-Dichloroethane-D4	99%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	103%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33998-2MS	Y28638.D	1	05/17/16	AD	n/a	n/a	VY1158
FA33998-2MSD	Y28639.D	1	05/17/16	AD	n/a	n/a	VY1158
FA33998-2	Y28636.D	1	05/17/16	AD	n/a	n/a	VY1158

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-2

CAS No.	Compound	FA33998-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	101		381	434	87	375	354	67	20	61-152/27
71-43-2	Benzene	ND		76.1	73.4	96	75.1	70.9	94	3	76-126/26
100-44-7	Benzyl Chloride	ND		76.1	136	179*	75.1	146	195*	7	65-126/31
74-97-5	Bromochloromethane	ND		76.1	74.8	98	75.1	71.1	95	5	77-120/24
75-27-4	Bromodichloromethane	ND		76.1	70.6	93	75.1	67.9	90	4	74-130/25
75-25-2	Bromoform	ND		76.1	78.2	103	75.1	74.0	99	6	76-127/26
78-93-3	2-Butanone (MEK)	ND		381	357	94	375	359	96	1	75-137/25
75-15-0	Carbon Disulfide	ND		76.1	66.4	87	75.1	57.9	77	14	72-122/29
56-23-5	Carbon Tetrachloride	ND		76.1	63.5	83	75.1	62.2	83	2	78-133/29
108-90-7	Chlorobenzene	ND		76.1	73.5	97	75.1	72.6	97	1	81-129/29
75-00-3	Chloroethane	ND		76.1	65.4	86	75.1	56.9	76	14	68-133/29
67-66-3	Chloroform	ND		76.1	71.8	94	75.1	69.7	93	3	72-123/26
110-82-7	Cyclohexane	1.5	J	76.1	61.3	79	75.1	60.7	79	1	73-126/32
124-48-1	Dibromochloromethane	ND		76.1	75.1	99	75.1	72.9	97	3	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		76.1	120	158*	75.1	99.5	133	19	70-137/29
106-93-4	1,2-Dibromoethane	ND		76.1	74.9	98	75.1	74.1	99	1	77-126/26
75-71-8	Dichlorodifluoromethane	ND		76.1	53.5	70	75.1	48.8	65*	9	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		76.1	71.0	93	75.1	67.8	90	5	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		76.1	72.2	95	75.1	68.9	92	5	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		76.1	72.5	95	75.1	69.0	92	5	76-130/32
75-34-3	1,1-Dichloroethane	ND		76.1	76.0	100	75.1	66.4	88	13	73-125/27
107-06-2	1,2-Dichloroethane	ND		76.1	72.5	95	75.1	71.6	95	1	74-128/23
75-35-4	1,1-Dichloroethylene	ND		76.1	72.5	95	75.1	63.1	84	14	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		76.1	70.6	93	75.1	66.8	89	6	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		76.1	72.8	96	75.1	64.1	85	13	70-127/27
78-87-5	1,2-Dichloropropane	ND		76.1	71.3	94	75.1	69.4	92	3	74-125/25
10061-01-5	cis-1,3-Dichloropropene	ND		76.1	72.8	96	75.1	71.0	95	3	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		76.1	77.7	102	75.1	75.5	101	3	75-131/28
100-41-4	Ethylbenzene	48.4		76.1	245	258*	75.1	244	261*	0	77-123/31
76-13-1	Freon 113	ND		76.1	56.1	74	75.1	49.7	66*	12	71-129/30
591-78-6	2-Hexanone	ND		381	361	95	375	357	95	1	72-133/26
98-82-8	Isopropylbenzene	16.4		76.1	164	194*	75.1	157	187*	4	80-136/32
99-87-6	p-Isopropyltoluene	ND		76.1	51.9	68*	75.1	49.6	66*	5	77-131/34
79-20-9	Methyl Acetate	ND		381	409	107	375	350	93	16	67-137/30
74-83-9	Methyl Bromide	ND		76.1	64.3	84	75.1	61.3	82	5	65-139/31
74-87-3	Methyl Chloride	ND		76.1	65.6	86	75.1	61.3	82	7	71-144/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33998-2MS	Y28638.D	1	05/17/16	AD	n/a	n/a	VY1158
FA33998-2MSD	Y28639.D	1	05/17/16	AD	n/a	n/a	VY1158
FA33998-2	Y28636.D	1	05/17/16	AD	n/a	n/a	VY1158

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-2

CAS No.	Compound	FA33998-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	12.5		76.1	109	127	75.1	108	127	1	75-128/31
75-09-2	Methylene Chloride	5.4	JB	76.1	75.8	92	75.1	65.7	80	14	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		381	794	209*	375	756	201*	5	76-132/26
1634-04-4	Methyl Tert Butyl Ether	15.3		76.1	96.3	106	75.1	87.6	96	9	77-120/24
100-42-5	Styrene	ND		76.1	78.1	103	75.1	77.4	103	1	78-125/30
75-85-4	Tert-Amyl Alcohol	ND		761	807	106	751	909	121	12	69-130/32
75-65-0	Tert-Butyl Alcohol	ND		761	791	104	751	817	109	3	74-126/32
79-34-5	1,1,2,2-Tetrachloroethane	ND		76.1	731	960*	75.1	637	849*	14	71-126/30
127-18-4	Tetrachloroethylene	ND		76.1	118	155*	75.1	117	156*	1	79-130/31
109-99-9	Tetrahydrofuran	ND		76.1	64.5	85	75.1	70.3	94	9	70-133/26
108-88-3	Toluene	ND		76.1	73.0	96	75.1	71.5	95	2	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		76.1	51.8	68*	75.1	87.0	116	51*	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		76.1	42.1	55*	75.1	44.3	59*	5	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		76.1	61.8	81	75.1	59.5	79	4	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		76.1	659	865*	75.1	626	834*	5	74-124/28
79-01-6	Trichloroethylene	ND		76.1	79.7	105	75.1	81.2	108	2	75-128/27
75-69-4	Trichlorofluoromethane	ND		76.1	60.8	80	75.1	54.2	72*	11	73-145/31
95-63-6	1,2,4-Trimethylbenzene	ND		76.1	69.2	91	75.1	65.4	87	6	74-123/34
75-01-4	Vinyl Chloride	ND		76.1	63.0	83	75.1	55.6	74*	12	76-141/27
	m,p-Xylene	11.5	J	152	208	129*	150	204	128	2	80-128/30
95-47-6	o-Xylene	3.6	J	76.1	91.3	115	75.1	87.6	112	4	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA33998-2	Limits
1868-53-7	Dibromofluoromethane	101%	99%	109%	75-124%
17060-07-0	1,2-Dichloroethane-D4	96%	95%	117%	72-135%
2037-26-5	Toluene-D8	101%	101%	94%	75-126%
460-00-4	4-Bromofluorobenzene	123%	121%	104%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33998-1MS	J0976579.D	1	05/17/16	DP	n/a	n/a	VJ5302
FA33998-1MSD	J0976580.D	1	05/17/16	DP	n/a	n/a	VJ5302
FA33998-1	J0976576.D	1	05/17/16	DP	n/a	n/a	VJ5302

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-1, FA33998-3, FA33998-4

CAS No.	Compound	FA33998-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	106	85	125	118	94	11	50-147/21
71-43-2	Benzene	ND		25	48.5	194*	25	48.3	193*	0	81-122/14
100-44-7	Benzyl Chloride	ND		25	35.1	140*	25	35.8	143*	2	54-122/18
74-97-5	Bromochloromethane	ND		25	43.1	172*	25	45.5	182*	5	76-123/14
75-27-4	Bromodichloromethane	ND		25	46.4	186*	25	43.8	175*	6	79-123/19
75-25-2	Bromoform	ND		25	38.0	152*	25	37.7	151*	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	110	88	125	112	90	2	56-143/18
75-15-0	Carbon Disulfide	ND		25	44.4	178*	25	44.7	179*	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	48.5	194*	25	44.2	177*	9	76-136/23
108-90-7	Chlorobenzene	0.39	J	25	49.2	195*	25	48.7	193*	1	82-124/14
75-00-3	Chloroethane	ND		25	30.7	123	25	31.1	124	1	62-144/20
67-66-3	Chloroform	ND		25	48.3	193*	25	49.4	198*	2	80-124/15
110-82-7	Cyclohexane	ND		25	52.9	212*	25	50.9	204*	4	73-138/18
124-48-1	Dibromochloromethane	ND		25	41.3	165*	25	41.5	166*	0	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	45.1	180*	25	46.1	184*	2	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	44.6	178*	25	46.6	186*	4	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	26.6	106	25	29.5	118	10	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	46.5	186*	25	47.6	190*	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	47.6	190*	25	48.2	193*	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	47.0	188*	25	46.9	188*	0	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	50.8	203*	25	52.5	210*	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	46.1	184*	25	47.3	189*	3	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	52.3	209*	25	54.5	218*	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	46.1	184*	25	47.6	190*	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	55.5	222*	25	56.0	224*	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	46.8	187*	25	48.3	193*	3	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	45.1	180*	25	44.4	178*	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	48.9	196*	25	48.0	192*	2	80-120/22
100-41-4	Ethylbenzene	ND		25	49.9	200*	25	49.6	198*	1	81-121/14
76-13-1	Freon 113	ND		25	45.6	182*	25	45.9	184*	1	72-134/20
591-78-6	2-Hexanone	ND		125	107	86	125	112	90	5	61-129/18
98-82-8	Isopropylbenzene	0.82	J	25	52.7	208*	25	51.9	204*	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	51.6	206*	25	50.9	204*	1	79-130/16
79-20-9	Methyl Acetate	ND		125	202	162*	125	219	175*	8	65-126/18
74-83-9	Methyl Bromide	ND		25	27.2	109	25	27.9	112	3	59-143/19
74-87-3	Methyl Chloride	ND		25	27.7	111	25	31.1	124	12	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33998-1MS	J0976579.D	1	05/17/16	DP	n/a	n/a	VJ5302
FA33998-1MSD	J0976580.D	1	05/17/16	DP	n/a	n/a	VJ5302
FA33998-1	J0976576.D	1	05/17/16	DP	n/a	n/a	VJ5302

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33998-1, FA33998-3, FA33998-4

CAS No.	Compound	FA33998-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		25	52.9	212*	25	50.5	202*	5	76-129/17
75-09-2	Methylene Chloride	ND		25	48.0	192*	25	49.3	197*	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	104	83	125	108	86	4	66-122/16
1634-04-4	Methyl Tert Butyl Ether	2.5		25	43.8	165*	25	46.1	174*	5	72-117/14
100-42-5	Styrene	ND		25	49.0	196*	25	48.2	193*	2	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	402	161*	250	432	173*	7	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	556	222*	250	599	240*	7	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	44.9	180*	25	47.4	190*	5	72-120/14
127-18-4	Tetrachloroethylene	ND		25	48.2	193*	25	47.6	190*	1	76-135/16
109-99-9	Tetrahydrofuran	ND		25	46.3	185*	25	47.7	191*	3	56-122/21
108-88-3	Toluene	ND		25	49.1	196*	25	49.1	196*	0	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	44.5	178*	25	48.0	192*	8	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	44.6	178*	25	46.7	187*	5	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	46.6	186*	25	46.3	185*	1	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	47.0	188*	25	48.6	194*	3	76-119/14
79-01-6	Trichloroethylene	ND		25	50.8	203*	25	51.6	206*	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	30.4	122	25	31.6	126	4	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	48.8	195*	25	48.7	195*	0	79-120/18
75-01-4	Vinyl Chloride	ND		25	27.4	110	25	29.1	116	6	69-159/18
	m,p-Xylene	ND		50	103	206*	50	100	200*	3	79-126/15
95-47-6	o-Xylene	ND		25	48.8	195*	25	49.1	196*	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA33998-1	Limits
1868-53-7	Dibromofluoromethane	100%	101%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	104%	79-125%
2037-26-5	Toluene-D8	98%	99%	105%	85-112%
460-00-4	4-Bromofluorobenzene	99%	102%	107%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5295-BFB
Lab File ID: J0976446.D
Instrument ID: GCMSJ
Injection Date: 05/12/16
Injection Time: 09:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	49040	17.7		Pass
75	30.0 - 60.0% of mass 95	142333	51.3		Pass
95	Base peak, 100% relative abundance	277525	100.0		Pass
96	5.0 - 9.0% of mass 95	19428	7.00		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	224981	81.1		Pass
175	5.0 - 9.0% of mass 174	16995	6.12	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	214451	77.3	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	14970	5.39	(6.98) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ5295-IC5295	J0976447.D	05/12/16	10:20	00:32	Initial cal 1
VJ5295-IC5295	J0976448.D	05/12/16	10:43	00:55	Initial cal 2
VJ5295-IC5295	J0976449.D	05/12/16	11:06	01:18	Initial cal 3
VJ5295-IC5295	J0976450.D	05/12/16	11:29	01:41	Initial cal 4
VJ5295-ICC5295	J0976451.D	05/12/16	11:51	02:03	Initial cal 5
VJ5295-IC5295	J0976452.D	05/12/16	12:14	02:26	Initial cal 6
VJ5295-IC5295	J0976453.D	05/12/16	12:37	02:49	Initial cal 7
VJ5295-ICV5295	J0976455.D	05/12/16	13:22	03:34	Initial cal verification 5
VJ5295-BS	J0976456.D	05/12/16	13:45	03:57	Blank Spike
VJ5295-MB	J0976457.D	05/12/16	14:08	04:20	Method Blank
FA33878-1	J0976458.D	05/12/16	14:55	05:07	(used for QC only; not part of job FA33998)
ZZZZZZ	J0976459.D	05/12/16	15:18	05:30	(unrelated sample)
ZZZZZZ	J0976460.D	05/12/16	15:41	05:53	(unrelated sample)
FA33878-1MS	J0976463.D	05/12/16	16:49	07:01	Matrix Spike
FA33878-1MSD	J0976464.D	05/12/16	17:12	07:24	Matrix Spike Duplicate
VJ5295-ECC5295	J0976465.D	05/12/16	17:35	07:47	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5301-BFB
Lab File ID: J0976554.D
Instrument ID: GCMSJ
Injection Date: 05/17/16
Injection Time: 08:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	47600	17.7		Pass
75	30.0 - 60.0% of mass 95	137851	51.3		Pass
95	Base peak, 100% relative abundance	268672	100.0		Pass
96	5.0 - 9.0% of mass 95	17181	6.39		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	232661	86.6		Pass
175	5.0 - 9.0% of mass 174	16768	6.24	(7.21) [a]	Pass
176	95.0 - 101.0% of mass 174	223872	83.3	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	15208	5.66	(6.79) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ5301-CC5295	J0976555.D	05/17/16	08:54	00:47	Continuing cal 5
VJ5301-MB	J0976557.D	05/17/16	09:55	01:48	Method Blank
VJ5302-MB	J0976557.D	05/17/16	09:55	01:48	Method Blank
VJ5302-BS	J0976558.D	05/17/16	10:18	02:11	Blank Spike
VJ5301-BS	J0976558.D	05/17/16	10:18	02:11	Blank Spike
FA33776-1	J0976559.D	05/17/16	11:13	03:06	(used for QC only; not part of job FA33998)
ZZZZZZ	J0976560.D	05/17/16	11:35	03:28	(unrelated sample)
ZZZZZZ	J0976561.D	05/17/16	11:58	03:51	(unrelated sample)
ZZZZZZ	J0976562.D	05/17/16	12:21	04:14	(unrelated sample)
ZZZZZZ	J0976563.D	05/17/16	12:44	04:37	(unrelated sample)
ZZZZZZ	J0976564.D	05/17/16	13:07	05:00	(unrelated sample)
ZZZZZZ	J0976565.D	05/17/16	13:30	05:23	(unrelated sample)
ZZZZZZ	J0976566.D	05/17/16	13:52	05:45	(unrelated sample)
ZZZZZZ	J0976567.D	05/17/16	14:15	06:08	(unrelated sample)
ZZZZZZ	J0976568.D	05/17/16	14:38	06:31	(unrelated sample)
ZZZZZZ	J0976569.D	05/17/16	15:01	06:54	(unrelated sample)
ZZZZZZ	J0976570.D	05/17/16	15:24	07:17	(unrelated sample)
ZZZZZZ	J0976571.D	05/17/16	15:47	07:40	(unrelated sample)
ZZZZZZ	J0976573.D	05/17/16	16:33	08:26	(unrelated sample)
ZZZZZZ	J0976574.D	05/17/16	16:56	08:49	(unrelated sample)
ZZZZZZ	J0976575.D	05/17/16	17:19	09:12	(unrelated sample)
FA33998-1	J0976576.D	05/17/16	17:42	09:35	RA9-GWD
FA33998-3	J0976577.D	05/17/16	18:05	09:58	TB051616
FA33998-4	J0976578.D	05/17/16	18:27	10:20	BPEB-21

Instrument Performance Check (BFB)

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5301-BFB
Lab File ID: J0976554.D
Instrument ID: GCMSJ
Injection Date: 05/17/16
Injection Time: 08:07

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA33998-1MS	J0976579.D	05/17/16	18:50	10:43	Matrix Spike
FA33998-1MSD	J0976580.D	05/17/16	19:13	11:06	Matrix Spike Duplicate
FA33776-1MS	J0976581.D	05/17/16	19:35	11:28	Matrix Spike
FA33776-1MSD	J0976582.D	05/17/16	19:58	11:51	Matrix Spike Duplicate
VJ5301-ECC5295	J0976583.D	05/17/16	20:21	12:14	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VY1149-BFB
Lab File ID: Y28377.D
Instrument ID: GCMSY
Injection Date: 05/06/16
Injection Time: 11:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	23691	16.4		Pass
75	30.0 - 60.0% of mass 95	68609	47.4		Pass
95	Base peak, 100% relative abundance	144834	100.0		Pass
96	5.0 - 9.0% of mass 95	10278	7.10		Pass
173	Less than 2.0% of mass 174	330	0.23	(0.35) [a]	Pass
174	50.0 - 100.0% of mass 95	92970	64.2		Pass
175	5.0 - 9.0% of mass 174	6489	4.48	(6.98) [a]	Pass
176	95.0 - 101.0% of mass 174	89094	61.5	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	5471	3.78	(6.14) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY1149-IC1149	Y28378.D	05/06/16	11:59	00:27	Initial cal 1
VY1149-IC1149	Y28379.D	05/06/16	12:25	00:53	Initial cal 2
VY1149-IC1149	Y28380.D	05/06/16	12:52	01:20	Initial cal 3
VY1149-ICC1149	Y28381.D	05/06/16	13:18	01:46	Initial cal 4
VY1149-IC1149	Y28382.D	05/06/16	13:45	02:13	Initial cal 5
VY1149-IC1149	Y28383.D	05/06/16	14:11	02:39	Initial cal 6
VY1149-IC1149	Y28384.D	05/06/16	14:38	03:06	Initial cal 7
VY1149-ICV1149	Y28386.D	05/06/16	15:38	04:06	Initial cal verification 4
VY1149-BS	Y28387.D	05/06/16	16:05	04:33	Blank Spike
VY1149-MB	Y28388.D	05/06/16	16:31	04:59	Method Blank
ZZZZZZ	Y28389.D	05/06/16	16:57	05:25	(unrelated sample)
ZZZZZZ	Y28390.D	05/06/16	17:24	05:52	(unrelated sample)
ZZZZZZ	Y28391.D	05/06/16	17:50	06:18	(unrelated sample)
ZZZZZZ	Y28393.D	05/06/16	18:43	07:11	(unrelated sample)
ZZZZZZ	Y28394.D	05/06/16	19:10	07:38	(unrelated sample)
ZZZZZZ	Y28395.D	05/06/16	19:36	08:04	(unrelated sample)
ZZZZZZ	Y28396.D	05/06/16	20:02	08:30	(unrelated sample)
ZZZZZZ	Y28397.D	05/06/16	20:29	08:57	(unrelated sample)
ZZZZZZ	Y28398.D	05/06/16	20:55	09:23	(unrelated sample)
ZZZZZZ	Y28399.D	05/06/16	21:22	09:50	(unrelated sample)
FA33727-1	Y28400.D	05/06/16	21:48	10:16	(used for QC only; not part of job FA33998)
FA33727-1MS	Y28401.D	05/06/16	22:14	10:42	Matrix Spike
FA33727-1MSD	Y28402.D	05/06/16	22:41	11:09	Matrix Spike Duplicate
VY1149-ECC1149	Y28403.D	05/06/16	23:07	11:35	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VY1157-BFB
Lab File ID: Y28621.D
Instrument ID: GCMSY
Injection Date: 05/17/16
Injection Time: 09:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	25649	16.0		Pass
75	30.0 - 60.0% of mass 95	73418	45.9		Pass
95	Base peak, 100% relative abundance	159954	100.0		Pass
96	5.0 - 9.0% of mass 95	10787	6.74		Pass
173	Less than 2.0% of mass 174	942	0.59	(0.84) [a]	Pass
174	50.0 - 100.0% of mass 95	112669	70.4		Pass
175	5.0 - 9.0% of mass 174	7870	4.92	(6.99) [a]	Pass
176	95.0 - 101.0% of mass 174	107400	67.1	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	6478	4.05	(6.03) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY1157-CC1149	Y28622.D	05/17/16	10:18	00:26	Continuing cal 4
VY1157-BS	Y28623.D	05/17/16	10:45	00:53	Blank Spike
VY1158-BS	Y28623.D	05/17/16	10:45	00:53	Blank Spike
VY1158-MB	Y28624.D	05/17/16	11:11	01:19	Method Blank
VY1157-MB	Y28624.D	05/17/16	11:11	01:19	Method Blank
ZZZZZZ	Y28625.D	05/17/16	11:37	01:45	(unrelated sample)
ZZZZZZ	Y28626.D	05/17/16	12:04	02:12	(unrelated sample)
ZZZZZZ	Y28627.D	05/17/16	12:30	02:38	(unrelated sample)
ZZZZZZ	Y28628.D	05/17/16	12:56	03:04	(unrelated sample)
ZZZZZZ	Y28629.D	05/17/16	13:23	03:31	(unrelated sample)
ZZZZZZ	Y28630.D	05/17/16	13:49	03:57	(unrelated sample)
ZZZZZZ	Y28631.D	05/17/16	14:15	04:23	(unrelated sample)
ZZZZZZ	Y28632.D	05/17/16	14:42	04:50	(unrelated sample)
FA33999-1MS	Y28634.D	05/17/16	15:35	05:43	Matrix Spike
FA33999-1MSD	Y28635.D	05/17/16	16:01	06:09	Matrix Spike Duplicate
FA33998-2	Y28636.D	05/17/16	16:28	06:36	RA3 (3-4)
FA33998-2MS	Y28638.D	05/17/16	17:21	07:29	Matrix Spike
FA33998-2MSD	Y28639.D	05/17/16	17:47	07:55	Matrix Spike Duplicate
FA33999-1	Y28640.D	05/17/16	18:14	08:22	(used for QC only; not part of job FA33998)
VY1157-ECC1149	Y28646.D	05/17/16	20:52	11:00	Ending cal 4

Volatile Internal Standard Area Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5301-CC5295	**Injection Date:**	05/17/16
Lab File ID:	J0976555.D	**Injection Time:**	08:54
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1404396	7.76	1101438	10.85	623205	13.21	87230	5.30
Check Std [b]	1358114	7.76	1046105	10.85	591412	13.21	89247	5.30
Upper Limit [c]	2716228	8.26	2092210	11.35	1182824	13.71	178494	5.80
Lower Limit [d]	679057	7.26	523053	10.35	295706	12.71	44624	4.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5301-MB	1187199	7.76	892675	10.85	468767	13.21	72407	5.29
VJ5302-MB	1187199	7.76	892675	10.85	468767	13.21	72407	5.29
VJ5302-BS	1298495	7.76	1014928	10.85	574996	13.21	85106	5.30
VJ5301-BS	1298495	7.76	1014928	10.85	574996	13.21	85106	5.30
FA33776-1	1208880	7.76	933261	10.85	500066	13.21	61888	5.29
ZZZZZZ	1188529	7.76	949306	10.85	513771	13.21	64141	5.30
ZZZZZZ	1203796	7.76	943678	10.85	510571	13.20	68382	5.29
ZZZZZZ	1173506	7.76	911854	10.85	494376	13.21	67798	5.30
ZZZZZZ	1191882	7.76	911065	10.85	478895	13.21	69814	5.30
ZZZZZZ	1154037	7.76	885743	10.85	465433	13.21	66794	5.29
ZZZZZZ	1137314	7.76	866962	10.85	464019	13.21	68309	5.29
ZZZZZZ	1105942	7.76	832520	10.85	450904	13.20	65638	5.29
ZZZZZZ	1143255	7.76	846373	10.85	447913	13.21	68220	5.30
ZZZZZZ	1092380	7.76	841029	10.85	447700	13.21	64346	5.29
ZZZZZZ	1099185	7.76	834305	10.85	451597	13.21	66941	5.29
ZZZZZZ	1101842	7.76	832404	10.85	442632	13.21	71232	5.30
ZZZZZZ	1109902	7.76	838486	10.85	436244	13.21	65913	5.30
ZZZZZZ	1073418	7.76	816269	10.85	423920	13.21	68239	5.30
ZZZZZZ	1062806	7.76	792279	10.85	418524	13.21	65920	5.29
ZZZZZZ	1046042	7.76	788414	10.85	409497	13.21	64905	5.30
FA33998-1	1039276	7.76	813611	10.85	412339	13.21	64802	5.29
FA33998-3	1040302	7.76	794537	10.85	417300	13.21	65643	5.30
FA33998-4	1047575	7.76	801513	10.85	411020	13.21	59884	5.29
FA33998-1MS	1263318	7.76	996134	10.85	562478	13.21	82396	5.29
FA33998-1MSD	1345946	7.76	1055866	10.85	580227	13.21	89670	5.30
FA33776-1MS	1377467	7.76	1081131	10.85	600146	13.21	88566	5.30
FA33776-1MSD	1433939	7.76	1131811	10.85	625752	13.21	100940	5.30
VJ5301-ECC5295	1476124	7.76	1154311	10.85	629143	13.21	92357	5.30

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

Volatile Internal Standard Area Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5301-CC5295	**Injection Date:**	05/17/16
Lab File ID:	J0976555.D	**Injection Time:**	08:54
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Initial Cal is: VJ5295-ICC5295 J0976451.D 05/12/16 11:51
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VY1157-CC1149	**Injection Date:**	05/17/16
Lab File ID:	Y28622.D	**Injection Time:**	10:18
Instrument ID:	GCMSY	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1008114	7.12	662781	10.31	309583	12.68	102557	4.63
Check Std [b]	1138952	7.12	762063	10.31	355881	12.68	133252	4.63
Upper Limit [c]	2277904	7.62	1524126	10.81	711762	13.18	266504	5.13
Lower Limit [d]	569476	6.62	381032	9.81	177941	12.18	66626	4.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VY1158-BS	1139112	7.12	763296	10.31	348678	12.68	125959	4.63
VY1157-BS	1139112	7.12	763296	10.31	348678	12.68	125959	4.63
VY1158-MB	1127177	7.12	733325	10.31	313201	12.68	140458	4.65
VY1157-MB	1127177	7.12	733325	10.31	313201	12.68	140458	4.65
ZZZZZZ	1072621	7.12	711510	10.31	307219	12.68	121992	4.63
ZZZZZZ	1049901	7.12	690135	10.31	259069	12.68	114408	4.63
ZZZZZZ	959355	7.12	604199	10.31	258712	12.68	107652	4.63
ZZZZZZ	979609	7.12	625448	10.31	267365	12.68	123843	4.63
ZZZZZZ	1087244	7.12	724854	10.31	290831	12.68	144267	4.63
ZZZZZZ	940598	7.12	620139	10.31	273702	12.68	162891	4.63
ZZZZZZ	956346	7.12	613767	10.31	259358	12.68	129714	4.62
ZZZZZZ	950151	7.12	634263	10.31	276729	12.68	164550	4.62
FA33999-1MS	1004355	7.12	684122	10.31	293265	12.68	117901	4.64
FA33999-1MSD	1067147	7.12	731309	10.31	323169	12.68	113443	4.63
FA33998-2	954898	7.12	730605	10.31	343012	12.68	108098	4.63
FA33998-2MS	1140869	7.12	758654	10.31	319004	12.68	108682	4.62
FA33998-2MSD	1140918	7.12	756880	10.31	322120	12.68	97472	4.63
FA33999-1	1044916	7.12	649567	10.31	228305	12.68	124386	4.63
VY1157-ECC1149	1000700	7.12	692873	10.31	310262	12.67	101564	4.63

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VY1149-ICC1149 Y28381.D 05/06/16 13:18
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA33998-1	J0976576.D	101	104	105	107
FA33998-3	J0976577.D	101	105	105	104
FA33998-4	J0976578.D	102	105	104	106
FA33998-1MS	J0976579.D	100	99	98	99
FA33998-1MSD	J0976580.D	101	96	99	102
VJ5302-BS	J0976558.D	99	98	101	101
VJ5302-MB	J0976557.D	101	102	104	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Volatile Surrogate Recovery Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA33998-2	Y28636.D	109	117	94	104
FA33998-2MS	Y28638.D	101	96	101	123
FA33998-2MSD	Y28639.D	99	95	101	121
VY1158-BS	Y28623.D	100	99	100	103
VY1158-MB	Y28624.D	99	109	101	109

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	75-124%
S2 = 1,2-Dichloroethane-D4	72-135%
S3 = Toluene-D8	75-126%
S4 = 4-Bromofluorobenzene	71-133%

Initial Calibration Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5295-ICC5295
Lab FileID: J0976451.D

```
                    Response Factor Report  MSVOA6

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Calibration Files
1   =J0976447.D  2   =J0976448.D  3   =J0976449.D  4   =J0976450.D
5   =J0976451.D  6   =J0976452.D  7   =J0976453.D

   Compound             1     2     3     4     5     6     7     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.144 0.164 0.224 0.182 0.192 0.215 0.214 0.191  15.41
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
             Response Ratio = 0.00000 + 0.18777 *A + 0.01425 *A^2

3)P Chloromethane     0.345 0.237 0.294 0.249 0.261 0.270 0.283 0.277  12.96
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
             Response Ratio = 0.00000 + 0.24537 *A + 0.01857 *A^2

4)C Vinyl Chloride    0.325 0.244 0.322 0.255 0.272 0.293 0.277 0.284  10.95
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
             Response Ratio = 0.00000 + 0.28143 *A + -0.00063 *A^2

5)  1,3-Butadiene           0.009 0.005 0.008 0.006 0.005 0.003 0.006  33.33
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9782
             Response Ratio = 0.00000 + 0.00779 *A + -0.00221 *A^2

6)  Bromomethane      0.385 0.229 0.244 0.180 0.168 0.148 0.136 0.213  40.29
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
             Response Ratio = 0.00000 + 0.19161 *A + -0.02838 *A^2

7)  Chloroethane      0.195 0.140 0.175 0.127 0.118 0.090       0.141  27.30
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
             Response Ratio = 0.00000 + 0.15566 *A + -0.04713 *A^2

8)  Trichlorofluorome 0.343 0.304 0.407 0.338 0.351 0.387 0.375 0.358   9.60
9)  Ethyl Ether       0.255 0.240 0.188 0.193 0.205 0.195 0.196 0.210  12.47
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.20025 *A + -0.00240 *A^2

10)  1,2-Dichlorotrifl 0.359 0.336 0.299 0.274 0.294 0.284 0.290 0.305   9.99
11)C 1,1-Dichloroethen 0.481 0.450 0.380 0.357 0.376 0.376 0.384 0.401  11.50
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
             Response Ratio = 0.00000 + 0.36317 *A + 0.01021 *A^2

12)  Freon 113        0.256 0.314 0.282 0.241 0.258 0.260 0.262 0.268   8.92
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.25253 *A + 0.00498 *A^2

13)  Carbon Disulfide  1.143 0.963 0.855 0.805 0.856 0.849 0.883 0.908  12.60
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
             Response Ratio = 0.00000 + 0.80901 *A + 0.03593 *A^2

14)  Iodomethane      0.601 0.505 0.411 0.406 0.425 0.418 0.438 0.458  15.59
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
             Response Ratio = 0.00000 + 0.40111 *A + 0.01764 *A^2
```

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15)  Allyl chloride    0.428 0.254 0.328 0.320 0.313 0.340 0.349 0.333  15.61
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.30381 *A + 0.02289 *A^2

16)  Methylene Chlorid 1.148 0.548 0.337 0.331 0.337 0.323 0.321 0.478  64.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.34330 *A + -0.01175 *A^2

17)  Acetone           0.017 0.017 0.014 0.014 0.015 0.015 0.015 0.015   8.30
18)  Methyl acetate    0.028 0.033 0.026 0.028 0.029 0.029 0.029 0.029   7.36
19)  trans-1,2-Dichlor 0.473 0.398 0.334 0.326 0.341 0.347 0.345 0.366  14.36
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.33830 *A + 0.00375 *A^2

20)  Hexane            0.256 0.266 0.234 0.214 0.230 0.232 0.228 0.237   7.52
21)  Methyl Tert Butyl 0.840 0.839 0.652 0.677 0.718 0.697 0.707 0.733  10.35
22)  Acetonitrile      0.011 0.007 0.011 0.010 0.009 0.010 0.010 0.010  12.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.00926 *A + 0.00003 *A^2

23)  Di-isopropyl ethe 0.966 0.889 0.709 0.752 0.804 0.786 0.780 0.812  10.73
24)  Chloroprene       0.426 0.241 0.351 0.327 0.335 0.364 0.384 0.347  16.53
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.30920 *A + 0.03759 *A^2

25)P 1,1-Dichloroethan 0.618 0.533 0.431 0.434 0.467 0.456 0.446 0.484  14.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.46518 *A + -0.00884 *A^2

26)  Acrylonitrile     0.052 0.062 0.062 0.062 0.064 0.064 0.060 0.061   6.87
27)  ETBE              0.892 0.935 0.729 0.801 0.861 0.815 0.788 0.832   8.35
28)  Vinyl acetate     0.339 0.394 0.384 0.403 0.396 0.369 0.332 0.374   7.59
29)  cis-1,2-Dichloroe 0.386 0.339 0.268 0.270 0.299 0.303 0.299 0.309  13.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.29087 *A + 0.00489 *A^2

30)  2,2-Dichloropropa 0.431 0.417 0.363 0.343 0.374 0.379 0.380 0.384   7.91
31)  Bromochloromethan 0.179 0.165 0.131 0.130 0.139 0.139 0.137 0.146  12.95
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.13819 *A + -0.00049 *A^2

32)  Cyclohexane       0.380 0.435 0.416 0.400 0.452 0.467 0.463 0.430   7.69
33)C Chloroform        0.701 0.626 0.478 0.476 0.512 0.493 0.483 0.538  16.54
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.51118 *A + -0.01365 *A^2

34)  Ethyl acetate     0.142 0.141 0.140 0.139 0.139 0.138 0.132 0.139   2.18
35)  Tetrahydrofuran   0.057 0.057 0.045 0.040 0.043 0.043 0.043 0.047  15.22
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.04189 *A + 0.00055 *A^2

36)S Dibromofluorometh 0.261 0.260 0.254 0.244 0.244 0.246 0.246 0.251   2.92
37)  Carbon Tetrachlor 0.444 0.426 0.367 0.353 0.380 0.385 0.376 0.390   8.39
38)  1,1,1-Trichloroet 0.505 0.491 0.425 0.410 0.437 0.442 0.440 0.450   7.72
39)  2-Butanone        0.082 0.070 0.064 0.063 0.067 0.064 0.062 0.067  10.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.06695 *A + -0.00049 *A^2

40)  1,1-Dichloroprope 0.388 0.369 0.322 0.316 0.350 0.359 0.348 0.350   7.26
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41)  tert-Butyl Format 0.164 0.174 0.155 0.169 0.168 0.169 0.164 0.166   3.58
42)  Propionitrile     0.024 0.020 0.023 0.023 0.022 0.023 0.022 0.022   5.98
43)  Methacrylonitrile 0.108 0.085 0.096 0.099 0.091 0.088 0.081 0.093   9.85
44)  Benzene           1.408 1.226 0.983 1.055 1.129 1.071 1.015 1.127  13.06
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.15490 *A + -0.06755 *A^2

45)  TAME              0.881 0.828 0.641 0.741 0.792 0.755 0.740 0.768   9.92
46)S 1,2-Dichloroethan 0.309 0.306 0.305 0.294 0.285 0.281 0.271 0.293   5.00
47)  1,2-Dichloroethan 0.512 0.448 0.333 0.347 0.359 0.334 0.316 0.379  19.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.37510 *A + -0.02928 *A^2

48)  Trichloroethene   0.375 0.311 0.260 0.262 0.283 0.280 0.270 0.292  13.87
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.28471 *A + -0.00671 *A^2

49)  Methylcyclohexane 0.446 0.502 0.444 0.456 0.506 0.518 0.514 0.484   6.89
50)  Dibromomethane    0.185 0.178 0.133 0.150 0.157 0.151 0.145 0.157  11.59
51)C 1,2-Dichloropropa 0.346 0.295 0.232 0.255 0.277 0.270 0.259 0.276  13.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.27783 *A + -0.00871 *A^2

52)  Bromodichlorometh 0.476 0.407 0.310 0.339 0.365 0.357 0.342 0.371  14.79
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.36831 *A + -0.01205 *A^2

53)  Methyl methacryla 0.080 0.102 0.124 0.136 0.132 0.142 0.137 0.122  18.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.13536 *A + 0.00166 *A^2

54)  2-Chloroethyl vin 0.099 0.102 0.123 0.135 0.130 0.135 0.128 0.122  12.50
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.13698 *A + -0.00081 *A^2

55)  cis-1,3-Dichlorop 0.456 0.448 0.359 0.395 0.440 0.425 0.407 0.419   8.18

56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.316 1.326 1.301 1.272 1.267 1.259 1.274 1.288   2.04
58)C Toluene           2.105 1.730 1.372 1.391 1.512 1.433 1.348 1.556  17.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.55430 *A + -0.09968 *A^2

59)  2-Nitropropane    0.064 0.063 0.045 0.052 0.057 0.052 0.051 0.055  12.53
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.05617 *A + -0.00049 *A^2

60)  4-Methyl-2-pentan 0.273 0.230 0.211 0.212 0.224 0.200 0.190 0.220  12.23
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.23208 *A + -0.00424 *A^2

61)  trans-1,3-Dichlor 0.478 0.500 0.389 0.441 0.486 0.462 0.445 0.457   8.04
62)  Tetrachloroethene 0.436 0.394 0.337 0.330 0.375 0.376 0.371 0.374   9.49
63)  Ethyl methacrylat 0.230 0.228 0.291 0.332 0.333 0.361 0.355 0.304  18.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.33056 *A + 0.01364 *A^2

64)  1,1,2-Trichloroet 0.322 0.286 0.209 0.233 0.251 0.239 0.232 0.253  15.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.25028 *A + -0.00886 *A^2
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65)  Dibromochlorometh 0.394 0.361 0.273 0.306 0.336 0.332 0.325 0.332  11.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.32884 *A + -0.00125 *A^2

66)  1,3-Dichloropropa 0.651 0.586 0.433 0.467 0.504 0.482 0.460 0.512  15.27
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.51131 *A + -0.02459 *A^2

67)  1,2-Dibromoethane 0.322 0.315 0.241 0.261 0.286 0.277 0.268 0.282  10.33
68)  2-hexanone        0.163 0.157 0.146 0.148 0.156 0.141 0.135 0.149   6.58
69)  1-Chlorohexane    0.392 0.441 0.413 0.418 0.480 0.489 0.479 0.445   8.68
70)C Ethylbenzene      2.367 2.036 1.654 1.670 1.764 1.626 1.486 1.800  16.75
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.87803 *A + -0.19256 *A^2

71)P Chlorobenzene     1.424 1.162 0.924 0.968 1.041 0.972 0.927 1.060  17.03
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.06091 *A + -0.06602 *A^2

72)  1,1,1,2-Tetrachlo 0.441 0.376 0.295 0.323 0.353 0.338 0.340 0.352  13.17
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.33914 *A + 0.00048 *A^2

73)  m,p-Xylene        1.653 1.473 1.229 1.276 1.330 1.165 1.019 1.306  15.86
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 1.46518 *A + -0.11046 *A^2

74)  o-Xylene          1.506 1.414 1.174 1.286 1.421 1.328 1.265 1.342   8.38
75)  Styrene           1.028 1.056 0.889 1.036 1.134 1.080 1.026 1.035   7.25
76)P Bromoform         0.244 0.229 0.163 0.194 0.221 0.217 0.215 0.212  12.43
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.21010 *A + 0.00298 *A^2

77)  Isopropylbenzene  1.739 1.654 1.400 1.520 1.677 1.583 1.480 1.579   7.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 1.71145 *A + -0.11087 *A^2


78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
79)S 4-Bromofluorobenz 0.925 0.919 0.901 0.921 0.916 0.908 0.893 0.912   1.29
80)  cis-1,4-Dichloro- 0.155 0.129 0.141 0.163 0.156 0.161 0.158 0.152   8.06
81)  n-Propylbenzene   4.606 3.862 3.168 3.348 3.602 3.260 2.888 3.534  16.02
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 3.88231 *A + -0.48609 *A^2

82)  Bromobenzene      1.131 0.960 0.704 0.771 0.829 0.792 0.761 0.850  17.35
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.83711 *A + -0.03685 *A^2

83)P 1,1,2,2-Tetrachlo 0.855 0.733 0.553 0.622 0.663 0.614 0.584 0.661  15.68
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.67616 *A + -0.04541 *A^2

84)  1,3,5-Trimethylbe 3.139 2.763 2.325 2.525 2.755 2.537 2.347 2.627  10.83
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 2.85092 *A + -0.24552 *A^2

85)  2-Chlorotoluene   3.404 2.852 2.271 2.434 2.574 2.330 2.143 2.573  16.81
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
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                Response Ratio = 0.00000 + 2.71617 *A + -0.28314 *A^2

 86)  trans-1,4-Dichlor 0.129 0.156 0.122 0.145 0.160 0.151 0.149 0.145   9.72
 87)  1,2,3-Trichloropr 0.219 0.194 0.147 0.169 0.172 0.163 0.156 0.174  14.15
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.17809 *A + -0.01099 *A^2

 88)  Cyclohexanone     0.008 0.014 0.011 0.014 0.015 0.016 0.015 0.013  21.85
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 0.01518 *A + 0.00002 *A^2

 89)  4-Chlorotoluene   2.976 2.552 1.985 2.236 2.393 2.204 2.056 2.343  14.46
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 2.47620 *A + -0.20594 *A^2

 90)  a-Methyl Styrene  1.203 0.898 1.212 1.360 1.357 1.449 1.409 1.270  14.83
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 1.36611 *A + 0.02779 *A^2

 91)  tert-Butylbenzene 1.865 1.576 1.336 1.400 1.521 1.452 1.384 1.505  11.89
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.54006 *A + -0.07473 *A^2

 92)  1,2,4-Trimethylbe 3.154 2.878 2.310 2.572 2.739 2.509 2.329 2.642  11.55
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 2.85211 *A + -0.25717 *A^2

 93)  Pentachloroethane 0.611 0.402 0.476 0.507 0.489 0.514 0.514 0.502  12.32
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.49010 *A + 0.01275 *A^2

 94)  sec-Butylbenzene  3.777 3.321 2.836 3.004 3.273 3.037 2.757 3.143  11.06
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 3.44296 *A + -0.33234 *A^2

 95)  4-Isopropyltoluen 2.852 2.721 2.329 2.576 2.816 2.611 2.405 2.616   7.57
 96)  1,3-Dichlorobenze 2.026 1.640 1.223 1.340 1.470 1.398 1.339 1.491  18.06
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 1.47585 *A + -0.06552 *A^2

 97)  1,4-Dichlorobenze 2.336 1.749 1.303 1.433 1.503 1.416 1.350 1.584  22.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.54355 *A + -0.09527 *A^2

 98)  n-Butylbenzene    1.658 1.506 1.285 1.448 1.598 1.541 1.465 1.500   7.99
 99)  Benzyl Chloride   0.204 0.219 0.159 0.217 0.253 0.236 0.237 0.218  14.01
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
                Response Ratio = 0.00000 + 0.23445 *A + 0.00143 *A^2

100)  1,2-Dichlorobenze 1.926 1.539 1.142 1.270 1.368 1.286 1.238 1.396  18.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 1.37774 *A + -0.06842 *A^2

101)  1,2-Dibromo-3-Chl 0.092 0.098 0.065 0.078 0.090 0.089 0.088 0.086  12.47
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 0.08580 *A + 0.00120 *A^2

102)  Hexachlorobutadie 0.973 0.664 0.567 0.519 0.595 0.600 0.604 0.646  23.31
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.56415 *A + 0.02096 *A^2
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103)  1,2,4-Trichlorobe 1.291 0.980 0.770 0.819 0.945 0.924 0.893 0.946  17.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.92213 *A + -0.01139 *A^2

104)  Naphthalene       1.336 1.262 1.023 1.200 1.391 1.365 1.324 1.272   9.97
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 1.33753 *A + -0.00119 *A^2

105)  1,2,3-Trichlorobe 1.140 0.863 0.657 0.695 0.795 0.770 0.763 0.812  19.62
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.76095 *A + 0.00262 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.115 0.138 0.125 0.128 0.119 0.117 0.124   6.99
108)  acrolein          2.966 2.220 2.287 2.351 2.299 2.202 2.357  11.69
109)  Tert Butyl Alcoho 1.725 1.532 1.099 1.177 1.285 1.184 1.133 1.305  18.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 1.30058 *A + -0.04146 *A^2

110)  tert Amyl alcohol 0.863 0.963 0.733 0.907 1.042 0.963 0.901 0.910  10.67
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9975
               Response Ratio = 0.00000 + 1.04032 *A + -0.03305 *A^2

111)  Isobutyl alcohol  0.338 0.437 0.407 0.429 0.436 0.398 0.359 0.401   9.72
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.47352 *A + -0.01420 *A^2

112)  1,4-Dioxane       0.117 0.151 0.106 0.126 0.143 0.141 0.129 0.131  11.99
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9971
               Response Ratio = 0.00000 + 0.14623 *A + -0.00190 *A^2

113)  3,3-Dimethyl-1-bu 0.817 0.907 0.839 1.023 1.115 1.069 0.994 0.966  11.84
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
               Response Ratio = 0.00000 + 1.13654 *A + -0.00667 *A^2

 ---------------------------------------------------------------------------
 (#) = Out of Range

          MSJ051216a.M        Fri May 13 08:32:02 2016
```

Initial Calibration Verification

Job Number: FA33998 **Sample:** VJ5295-ICV5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051216\J0976455.D          Vial: 9
Acq On    : 12 May 2016   1:22 pm                    Operator: darshnap
Sample    : icv5295-5                                Inst    : MSVOA6
Misc      : MS33839,VJ5295,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	102	0.00	7.76
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	43.267	-8.2	115	0.00	2.69
3	P	Chloromethane	40.000	40.982	-2.5	104	0.00	2.90
4	C	Vinyl Chloride	40.000	42.135	-5.3	111	0.00	3.05
5		1,3-Butadiene	40.000	29.686	25.8#	86	0.00	3.02
6		Bromomethane	40.000	40.502	-1.3	103	0.00	3.47
7		Chloroethane	40.000	40.281	-0.7	103	0.00	3.62
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.358	0.390	-8.9	113	0.00	3.84
			Amount	Calc.	%Drift			
9		Ethyl Ether	40.000	37.393	6.5	92	0.00	4.12
			AvgRF	CCRF	%Dev			
10		1,2-Dichlorotrifluoroetha	0.305	0.269	11.8	93	0.00	4.36
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	37.460	6.3	94	0.00	4.40
12		Freon 113	40.000	32.632	18.4	82	0.01	4.48
13		Carbon Disulfide	40.000	34.544	13.6	85	0.00	4.48
14		Iodomethane	40.000	36.390	9.0	90	0.00	4.59
15		Allyl chloride	40.000	34.797	13.0	90	0.00	4.93
16		Methylene Chloride	40.000	37.351	6.6	94	0.00	5.05
			AvgRF	CCRF	%Dev			
17		Acetone	0.015	0.013	13.3	88	0.00	5.07
18		Methyl acetate	0.029	0.027	6.9	96	0.00	5.19
			Amount	Calc.	%Drift			
19		trans-1,2-Dichloroethene	40.000	40.387	-1.0	103	0.00	5.23
			AvgRF	CCRF	%Dev			
20		Hexane	0.237	0.199	16.0	88	0.00	5.30
21		Methyl Tert Butyl Ether	0.733	0.641	12.6	91	0.00	5.34
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	363.431	9.1	98	0.00	5.59
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FA33998 **Sample:** VJ5295-ICV5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.812	0.717	11.7	91	0.00	5.72
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	35.924	10.2	92	0.00	5.88
25	P	1,1-Dichloroethane	40.000	38.521	3.7	96	0.00	5.90
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.061	0.062	-1.6	99	0.00	5.92
27		ETBE	0.832	0.763	8.3	90	0.00	6.12
28		Vinyl acetate	0.374	0.362	3.2	93	0.00	6.11
		----------	Amount	Calc.	%Drift	----------		
29		cis-1,2-Dichloroethene	40.000	36.294	9.3	91	0.00	6.48
		----------	AvgRF	CCRF	%Dev	----------		
30		2,2-Dichloropropane	0.384	0.356	7.3	97	0.00	6.61
		----------	Amount	Calc.	%Drift	----------		
31		Bromochloromethane	40.000	35.981	10.0	91	0.00	6.69
		----------	AvgRF	CCRF	%Dev	----------		
32		Cyclohexane	0.430	0.376	12.6	85	0.00	6.74
		----------	Amount	Calc.	%Drift	----------		
33	C	Chloroform	40.000	37.100	7.2	92	0.00	6.74
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.139	0.137	1.4	101	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	37.816	5.5	95	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.251	0.245	2.4	102	0.00	6.93
37		Carbon Tetrachloride	0.390	0.329	15.6	88	0.00	6.93
38		1,1,1-Trichloroethane	0.450	0.373	17.1	87	0.00	6.99
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	189.032	5.5	94	0.00	7.03
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.350	0.304	13.1	88	0.00	7.10
41		tert-Butyl Formate	0.166	0.151	9.0	91	0.00	7.19
42		Propionitrile	0.022	0.023	-4.5	107	0.00	7.33
43		Methacrylonitrile	0.093	0.094	-1.1	105	0.00	7.36
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	37.618	6.0	94	0.00	7.36
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.768	0.694	9.6	89	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.293	0.290	1.0	103	0.00	7.48
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	39.106	2.2	97	0.00	7.55
48		Trichloroethene	40.000	37.599	6.0	94	0.00	7.94
		----------	AvgRF	CCRF	%Dev	----------		
49		Methylcyclohexane	0.484	0.441	8.9	89	0.00	7.96
50		Dibromomethane	0.157	0.147	6.4	95	0.00	8.36

Initial Calibration Verification

Job Number: FA33998 **Sample:** VJ5295-ICV5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
51	C	1,2-Dichloropropane	40.000	37.423	6.4	93	0.00	8.45
52		Bromodichloromethane	40.000	38.335	4.2	96	0.00	8.50
53		Methyl methacrylate	40.000	42.878	-7.2	113	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	212.369	-6.2	111	0.00	9.01
			AvgRF	CCRF	%Dev			
55		cis-1,3-Dichloropropene	0.419	0.419	0.0	97	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.85
57	S	Toluene-d8	1.288	1.276	0.9	103	0.00	9.30
			Amount	Calc.	%Drift			
58	C	Toluene	40.000	37.635	5.9	94	0.00	9.36
59		2-Nitropropane	200.000	189.130	5.4	92	0.00	9.56
60		4-Methyl-2-pentanone	200.000	180.684	9.7	89	0.00	9.67
			AvgRF	CCRF	%Dev			
61		trans-1,3-Dichloropropene	0.457	0.494	-8.1	104	0.00	9.73
62		Tetrachloroethene	0.374	0.337	9.9	91	0.00	9.76
			Amount	Calc.	%Drift			
63		Ethyl methacrylate	40.000	34.998	12.5	91	0.00	9.84
64		1,1,2-Trichloroethane	40.000	39.309	1.7	97	0.00	9.90
65		Dibromochloromethane	40.000	39.103	2.2	97	0.00	10.10
66		1,3-Dichloropropane	40.000	36.729	8.2	91	0.00	10.18
			AvgRF	CCRF	%Dev			
67		1,2-Dibromoethane	0.282	0.266	5.7	95	0.00	10.36
68		2-hexanone	0.149	0.136	8.7	89	0.00	10.49
69		1-Chlorohexane	0.445	0.428	3.8	91	0.00	10.80
			Amount	Calc.	%Drift			
70	C	Ethylbenzene	40.000	37.746	5.6	94	0.00	10.86
71	P	Chlorobenzene	40.000	38.983	2.5	96	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	40.088	-0.2	98	0.00	10.91
73		m,p-Xylene	80.000	77.438	3.2	96	0.00	11.00
			AvgRF	CCRF	%Dev			
74		o-Xylene	1.342	1.323	1.4	95	0.00	11.44
75		Styrene	1.035	1.061	-2.5	95	0.00	11.49
			Amount	Calc.	%Drift			
76	P	Bromoform	40.000	39.386	1.5	96	0.00	11.55
77		Isopropylbenzene	40.000	38.403	4.0	95	0.00	11.74
			AvgRF	CCRF	%Dev			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	13.21
79	S	4-Bromofluorobenzene	0.912	0.918	-0.7	102	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.152	0.147	3.3	95	0.00	12.09
			Amount	Calc.	%Drift			
81		n-Propylbenzene	40.000	38.366	4.1	95	0.00	12.16
82		Bromobenzene	40.000	39.455	1.4	98	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	40.000	38.283	4.3	94	0.00	12.22
84		1,3,5-Trimethylbenzene	40.000	37.435	6.4	92	0.00	12.34
85		2-Chlorotoluene	40.000	39.217	2.0	96	0.00	12.35

Initial Calibration Verification

Job Number: FA33998 **Sample:** VJ5295-ICV5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
86	trans-1,4-Dichloro-2-Bute	0.145	0.141	2.8	89	0.00	12.40

		Amount	Calc.	%Drift			
87	1,2,3-Trichloropropane	40.000	37.130	7.2	93	0.00	12.39
88	Cyclohexanone	200.000	170.196	14.9	86	0.00	12.45
89	4-Chlorotoluene	40.000	38.690	3.3	95	0.00	12.52
90	a-Methyl Styrene	40.000	0.771	98.1#	2	0.15	12.75
91	tert-Butylbenzene	40.000	36.610	8.5	91	0.00	12.68
92	1,2,4-Trimethylbenzene	40.000	38.178	4.6	94	0.00	12.75
93	Pentachloroethane	40.000	39.604	1.0	103	0.00	12.74
94	sec-Butylbenzene	40.000	37.805	5.5	94	0.00	12.87

		AvgRF	CCRF	%Dev			
95	4-Isopropyltoluene	2.616	2.558	2.2	92	0.00	13.00

		Amount	Calc.	%Drift			
96	1,3-Dichlorobenzene	40.000	38.882	2.8	96	0.00	13.13
97	1,4-Dichlorobenzene	40.000	38.035	4.9	94	0.00	13.22

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.500	1.443	3.8	92	0.00	13.43

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	40.705	-1.8	96	0.00	13.44
100	1,2-Dichlorobenzene	40.000	38.666	3.3	95	0.00	13.64
101	1,2-Dibromo-3-Chloropropa	40.000	37.924	5.2	93	0.00	14.38
102	Hexachlorobutadiene	40.000	36.351	9.1	90	0.00	14.93
103	1,2,4-Trichlorobenzene	40.000	37.241	6.9	91	0.00	14.97
104	Naphthalene	40.000	41.039	-2.6	100	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	37.242	6.9	91	0.00	15.43

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	107	0.00	5.30
107	Ethanol	0.124	0.124	0.0	103	0.01	4.29
108	acrolein	2.357	2.220	5.8	101	0.00	4.76

		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	406.297	-1.6	104	0.00	5.38
110	tert Amyl alcohol	400.000	377.534	5.6	96	0.00	7.57
111	Isobutyl alcohol	800.000	719.333	10.1	95	0.00	7.45
112	1,4-Dioxane	800.000	747.105	6.6	98	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1961.921	1.9	102	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Fri May 13 08:31:49 2016

6.7.2

6

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-CC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976555.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051716\J0976555.D          Vial: 1
Acq On    : 17 May 2016   8:54 am                    Operator: darshnap
Sample    : cc5295-5                                 Inst    : MSVOA6
Misc      : MS33882,VJ5301,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	97	0.00	7.76
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	42.024	-5.1	106	0.00	2.69
3 P	Chloromethane	40.000	42.307	-5.8	102	0.00	2.90
4 C	Vinyl Chloride	40.000	41.953	-4.9	105	0.00	3.05
5	1,3-Butadiene	40.000	18.361	54.1#	55	0.01	3.04
6	Bromomethane	40.000	42.795	-7.0	103	0.00	3.45
7	Chloroethane	40.000	46.490	-16.2	107	0.00	3.62
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.358	0.416	-16.2	115	0.00	3.84
		Amount	Calc.	%Drift			
9	Ethyl Ether	40.000	38.410	4.0	90	0.00	4.12
		AvgRF	CCRF	%Dev			
10	1,2-Dichlorotrifluoroetha	0.305	0.259	15.1	85	0.00	4.37
		Amount	Calc.	%Drift			
11 C	1,1-Dichloroethene	40.000	36.040	9.9	86	0.00	4.40
12	Freon 113	40.000	35.537	11.2	85	0.00	4.47
13	Carbon Disulfide	40.000	35.664	10.8	84	0.00	4.48
14	Iodomethane	40.000	36.697	8.3	86	0.00	4.59
15	Allyl chloride	40.000	38.363	4.1	95	0.00	4.92
16	Methylene Chloride	40.000	38.175	4.6	91	0.00	5.05
		AvgRF	CCRF	%Dev			
17	Acetone	0.015	0.015	0.0	96	0.00	5.07
18	Methyl acetate	0.029	0.028	3.4	93	0.00	5.19
		Amount	Calc.	%Drift			
19	trans-1,2-Dichloroethene	40.000	36.734	8.2	89	0.00	5.23
		AvgRF	CCRF	%Dev			
20	Hexane	0.237	0.212	10.5	89	0.00	5.30
21	Methyl Tert Butyl Ether	0.733	0.645	12.0	87	0.00	5.33
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	411.448	-2.9	106	0.00	5.58
		AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-CC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976555.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.812	0.720	11.3	87	0.00	5.71
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	38.030	4.9	93	0.00	5.87
25	P	1,1-Dichloroethane	40.000	36.773	8.1	87	0.00	5.89
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.061	0.063	-3.3	96	0.00	5.92
27		ETBE	0.832	0.747	10.2	84	0.00	6.11
28		Vinyl acetate	0.374	0.379	-1.3	93	0.00	6.11
		----------	Amount	Calc.	%Drift	----------		
29		cis-1,2-Dichloroethene	40.000	36.364	9.1	87	0.00	6.47
		----------	AvgRF	CCRF	%Dev	----------		
30		2,2-Dichloropropane	0.384	0.326	15.1	84	0.00	6.60
		----------	Amount	Calc.	%Drift	----------		
31		Bromochloromethane	40.000	37.064	7.3	89	0.00	6.69
		----------	AvgRF	CCRF	%Dev	----------		
32		Cyclohexane	0.430	0.385	10.5	82	0.00	6.73
		----------	Amount	Calc.	%Drift	----------		
33	C	Chloroform	40.000	36.048	9.9	85	0.00	6.73
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.139	0.141	-1.4	98	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	35.672	10.8	85	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.251	0.255	-1.6	101	0.00	6.92
37		Carbon Tetrachloride	0.390	0.330	15.4	84	0.00	6.93
38		1,1,1-Trichloroethane	0.450	0.381	15.3	84	0.00	7.00
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	192.500	3.8	91	0.00	7.02
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.350	0.305	12.9	84	0.00	7.10
41		tert-Butyl Formate	0.166	0.166	0.0	96	0.00	7.18
42		Propionitrile	0.022	0.023	-4.5	104	0.00	7.33
43		Methacrylonitrile	0.093	0.093	0.0	99	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	34.987	12.5	83	0.00	7.35
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.768	0.683	11.1	83	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.293	0.289	1.4	98	0.00	7.48
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	36.277	9.3	86	0.00	7.55
48		Trichloroethene	40.000	35.017	12.5	84	0.00	7.93
		----------	AvgRF	CCRF	%Dev	----------		
49		Methylcyclohexane	0.484	0.428	11.6	82	0.00	7.96
50		Dibromomethane	0.157	0.139	11.5	85	0.00	8.36

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-CC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976555.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
51	C	1,2-Dichloropropane	40.000	35.331	11.7	84	0.00	8.45
52		Bromodichloromethane	40.000	36.152	9.6	86	0.00	8.49
53		Methyl methacrylate	40.000	39.352	1.6	99	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	200.795	-0.4	100	0.00	9.00
			AvgRF	CCRF	%Dev			
55		cis-1,3-Dichloropropene	0.419	0.386	7.9	85	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00	10.85
57	S	Toluene-d8	1.288	1.286	0.2	96	0.00	9.30
			Amount	Calc.	%Drift			
58	C	Toluene	40.000	35.710	10.7	83	0.00	9.35
59		2-Nitropropane	200.000	180.960	9.5	82	0.00	9.56
60		4-Methyl-2-pentanone	200.000	185.821	7.1	85	0.00	9.67
			AvgRF	CCRF	%Dev			
61		trans-1,3-Dichloropropene	0.457	0.430	5.9	84	0.00	9.73
62		Tetrachloroethene	0.374	0.319	14.7	81	0.00	9.76
			Amount	Calc.	%Drift			
63		Ethyl methacrylate	40.000	40.702	-1.8	99	0.00	9.84
64		1,1,2-Trichloroethane	40.000	37.326	6.7	86	0.00	9.90
65		Dibromochloromethane	40.000	37.049	7.4	86	0.00	10.10
66		1,3-Dichloropropane	40.000	36.571	8.6	85	0.00	10.18
			AvgRF	CCRF	%Dev			
67		1,2-Dibromoethane	0.282	0.257	8.9	85	0.00	10.36
68		2-hexanone	0.149	0.138	7.4	84	0.00	10.49
69		1-Chlorohexane	0.445	0.415	6.7	82	0.00	10.80
			Amount	Calc.	%Drift			
70	C	Ethylbenzene	40.000	35.045	12.4	82	0.00	10.86
71	P	Chlorobenzene	40.000	35.329	11.7	82	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	36.846	7.9	84	0.00	10.91
73		m,p-Xylene	80.000	71.324	10.8	83	0.00	11.00
			AvgRF	CCRF	%Dev			
74		o-Xylene	1.342	1.218	9.2	81	0.00	11.44
75		Styrene	1.035	0.972	6.1	81	0.00	11.49
			Amount	Calc.	%Drift			
76	P	Bromoform	40.000	36.623	8.4	84	0.00	11.55
77		Isopropylbenzene	40.000	34.968	12.6	81	0.00	11.74
			AvgRF	CCRF	%Dev			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	13.21
79	S	4-Bromofluorobenzene	0.912	0.921	-1.0	95	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.152	0.165	-8.6	100	0.00	12.09
			Amount	Calc.	%Drift			
81		n-Propylbenzene	40.000	34.706	13.2	81	0.00	12.16
82		Bromobenzene	40.000	35.353	11.6	82	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	40.000	36.056	9.9	83	0.00	12.22
84		1,3,5-Trimethylbenzene	40.000	34.867	12.8	80	0.00	12.34
85		2-Chlorotoluene	40.000	34.504	13.7	80	0.00	12.35

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-CC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976555.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
86	trans-1,4-Dichloro-2-Bute	0.145	0.144	0.7	85	0.00	12.40

		Amount	Calc.	%Drift			
87	1,2,3-Trichloropropane	40.000	36.265	9.3	85	0.00	12.38
88	Cyclohexanone	200.000	156.480	21.8#	74	0.00	12.45
89	4-Chlorotoluene	40.000	35.212	12.0	81	0.00	12.52
90	a-Methyl Styrene	40.000	39.892	0.3	97	0.00	12.60
91	tert-Butylbenzene	40.000	34.524	13.7	80	0.00	12.68
92	1,2,4-Trimethylbenzene	40.000	35.716	10.7	83	0.00	12.75
93	Pentachloroethane	40.000	40.830	-2.1	99	0.00	12.74
94	sec-Butylbenzene	40.000	34.646	13.4	81	0.00	12.87

		AvgRF	CCRF	%Dev			
95	4-Isopropyltoluene	2.616	2.380	9.0	80	0.00	13.00

		Amount	Calc.	%Drift			
96	1,3-Dichlorobenzene	40.000	35.857	10.4	83	0.00	13.13
97	1,4-Dichlorobenzene	40.000	36.064	9.8	84	0.00	13.22

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.500	1.352	9.9	80	0.00	13.43

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	38.669	3.3	86	0.00	13.45
100	1,2-Dichlorobenzene	40.000	36.007	10.0	83	0.00	13.64
101	1,2-Dibromo-3-Chloropropa	40.000	37.699	5.8	86	0.00	14.38
102	Hexachlorobutadiene	40.000	35.827	10.4	83	0.00	14.93
103	1,2,4-Trichlorobenzene	40.000	36.038	9.9	83	0.00	14.97
104	Naphthalene	40.000	37.586	6.0	86	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	36.902	7.7	84	0.00	15.43

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	102	0.00	5.30
107	Ethanol	0.124	0.135	-8.9	108	0.01	4.29
108	acrolein	2.357	2.468	-4.7	107	0.00	4.76

		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	357.275	10.7	88	0.00	5.38
110	tert Amyl alcohol	400.000	340.540	14.9	83	0.00	7.57
111	Isobutyl alcohol	800.000	749.880	6.3	95	0.00	7.45
112	1,4-Dioxane	800.000	750.690	6.2	94	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1875.011	6.2	93	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Wed May 18 08:27:10 2016

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-ECC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976583.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051716\J0976583.D          Vial: 23
Acq On    : 17 May 2016   8:21 pm                    Operator: darshnap
Sample    : ecc5295-5                                Inst    : MSVOA6
Misc      : MS33892,VJ5301,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	105	0.00	7.76
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	40.985	-2.5	112	0.01	2.70
3 P	Chloromethane	40.000	42.480	-6.2	112	0.00	2.90
4 C	Vinyl Chloride	40.000	41.094	-2.7	112	0.00	3.05
5	1,3-Butadiene	40.000	31.514	21.2	93	0.01	3.03
6	Bromomethane	40.000	41.398	-3.5	109	0.00	3.46
7	Chloroethane	40.000	46.777	-16.9	117	0.00	3.62
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.358	0.386	-7.8	116	0.00	3.84
		Amount	Calc.	%Drift			
9	Ethyl Ether	40.000	41.893	-4.7	107	0.00	4.12
		AvgRF	CCRF	%Dev			
10	1,2-Dichlorotrifluoroetha	0.305	0.311	-2.0	111	0.00	4.36
		Amount	Calc.	%Drift			
11 C	1,1-Dichloroethene	40.000	43.950	-9.9	114	0.00	4.40
12	Freon 113	40.000	42.321	-5.8	111	0.00	4.47
13	Carbon Disulfide	40.000	44.150	-10.4	114	0.00	4.48
14	Iodomethane	40.000	43.607	-9.0	112	0.00	4.59
15	Allyl chloride	40.000	37.939	5.2	102	0.00	4.92
16	Methylene Chloride	40.000	40.897	-2.2	106	0.00	5.05
		AvgRF	CCRF	%Dev			
17	Acetone	0.015	0.014	6.7	93	0.00	5.07
18	Methyl acetate	0.029	0.030	-3.4	109	0.00	5.19
		Amount	Calc.	%Drift			
19	trans-1,2-Dichloroethene	40.000	43.194	-8.0	114	0.00	5.23
		AvgRF	CCRF	%Dev			
20	Hexane	0.237	0.241	-1.7	110	0.00	5.30
21	Methyl Tert Butyl Ether	0.733	0.718	2.0	105	0.00	5.33
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	364.836	8.8	102	0.00	5.59
		AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-ECC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976583.D
Project: BMSMC, Building 5 Area, Humacao, PR

23	Di-isopropyl ether	0.812	0.808	0.5	106	0.00	5.72
	----------	Amount	Calc.	%Drift	----------		
24	Chloroprene	40.000	38.067	4.8	101	0.00	5.87
25 P	1,1-Dichloroethane	40.000	42.149	-5.4	109	0.00	5.89
	----------	AvgRF	CCRF	%Dev	----------		
26	Acrylonitrile	0.061	0.059	3.3	96	0.00	5.92
27	ETBE	0.832	0.821	1.3	100	0.00	6.12
28	Vinyl acetate	0.374	0.341	8.8	90	0.00	6.11
	----------	Amount	Calc.	%Drift	----------		
29	cis-1,2-Dichloroethene	40.000	42.715	-6.8	111	0.00	6.47
	----------	AvgRF	CCRF	%Dev	----------		
30	2,2-Dichloropropane	0.384	0.393	-2.3	111	0.00	6.61
	----------	Amount	Calc.	%Drift	----------		
31	Bromochloromethane	40.000	40.625	-1.6	106	0.00	6.69
	----------	AvgRF	CCRF	%Dev	----------		
32	Cyclohexane	0.430	0.472	-9.8	110	0.00	6.73
	----------	Amount	Calc.	%Drift	----------		
33 C	Chloroform	40.000	41.680	-4.2	107	0.00	6.74
	----------	AvgRF	CCRF	%Dev	----------		
34	Ethyl acetate	0.139	0.126	9.4	96	0.00	6.81
	----------	Amount	Calc.	%Drift	----------		
35	Tetrahydrofuran	40.000	39.452	1.4	102	0.00	6.92
	----------	AvgRF	CCRF	%Dev	----------		
36 S	Dibromofluoromethane	0.251	0.247	1.6	106	0.00	6.93
37	Carbon Tetrachloride	0.390	0.399	-2.3	110	0.00	6.93
38	1,1,1-Trichloroethane	0.450	0.462	-2.7	111	0.00	7.00
	----------	Amount	Calc.	%Drift	----------		
39	2-Butanone	200.000	175.204	12.4	90	0.00	7.03
	----------	AvgRF	CCRF	%Dev	----------		
40	1,1-Dichloropropene	0.350	0.373	-6.6	112	0.00	7.10
41	tert-Butyl Formate	0.166	0.164	1.2	102	0.00	7.19
42	Propionitrile	0.022	0.020	9.1	96	0.00	7.34
43	Methacrylonitrile	0.093	0.082	11.8	95	0.00	7.36
	----------	Amount	Calc.	%Drift	----------		
44	Benzene	40.000	40.913	-2.3	105	0.00	7.36
	----------	AvgRF	CCRF	%Dev	----------		
45	TAME	0.768	0.756	1.6	100	0.00	7.43
46 S	1,2-Dichloroethane-d4	0.293	0.278	5.1	102	0.00	7.48
	----------	Amount	Calc.	%Drift	----------		
47	1,2-Dichloroethane	40.000	38.976	2.6	100	0.00	7.55
48	Trichloroethene	40.000	42.072	-5.2	109	0.00	7.94
	----------	AvgRF	CCRF	%Dev	----------		
49	Methylcyclohexane	0.484	0.524	-8.3	109	0.00	7.96
50	Dibromomethane	0.157	0.153	2.5	103	0.00	8.36

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-ECC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976583.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
51	C	1,2-Dichloropropane	40.000	41.134	-2.8	106	0.00	8.45
52		Bromodichloromethane	40.000	40.934	-2.3	106	0.00	8.49
53		Methyl methacrylate	40.000	37.506	6.2	102	0.00	8.60
54		2-Chloroethyl vinyl ether	200.000	196.266	1.9	106	0.00	9.01
			AvgRF	CCRF	%Dev			
55		cis-1,3-Dichloropropene	0.419	0.436	-4.1	104	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	10.85
57	S	Toluene-d8	1.288	1.277	0.9	106	0.00	9.30
			Amount	Calc.	%Drift			
58	C	Toluene	40.000	42.011	-5.0	107	0.00	9.36
59		2-Nitropropane	200.000	191.835	4.1	96	0.00	9.56
60		4-Methyl-2-pentanone	200.000	173.132	13.4	88	0.00	9.67
			AvgRF	CCRF	%Dev			
61		trans-1,3-Dichloropropene	0.457	0.479	-4.8	103	0.00	9.74
62		Tetrachloroethene	0.374	0.390	-4.3	109	0.00	9.76
			Amount	Calc.	%Drift			
63		Ethyl methacrylate	40.000	38.481	3.8	103	0.00	9.84
64		1,1,2-Trichloroethane	40.000	41.039	-2.6	104	0.00	9.90
65		Dibromochloromethane	40.000	40.868	-2.2	105	0.00	10.10
66		1,3-Dichloropropane	40.000	40.238	-0.6	103	0.00	10.18
			AvgRF	CCRF	%Dev			
67		1,2-Dibromoethane	0.282	0.282	0.0	103	0.00	10.36
68		2-hexanone	0.149	0.133	10.7	90	0.00	10.49
69		1-Chlorohexane	0.445	0.509	-14.4	111	0.00	10.80
			Amount	Calc.	%Drift			
70	C	Ethylbenzene	40.000	41.081	-2.7	105	0.00	10.86
71	P	Chlorobenzene	40.000	41.069	-2.7	104	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	40.680	-1.7	103	0.00	10.91
73		m,p-Xylene	80.000	83.423	-4.3	105	0.00	11.00
			AvgRF	CCRF	%Dev			
74		o-Xylene	1.342	1.405	-4.7	104	0.00	11.44
75		Styrene	1.035	1.116	-7.8	103	0.00	11.49
			Amount	Calc.	%Drift			
76	P	Bromoform	40.000	38.409	4.0	97	0.00	11.55
77		Isopropylbenzene	40.000	41.598	-4.0	105	0.00	11.74
			AvgRF	CCRF	%Dev			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	13.21
79	S	4-Bromofluorobenzene	0.912	0.929	-1.9	102	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.152	0.151	0.7	97	0.00	12.09
			Amount	Calc.	%Drift			
81		n-Propylbenzene	40.000	43.170	-7.9	105	0.00	12.16
82		Bromobenzene	40.000	41.456	-3.6	102	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	40.000	40.085	-0.2	98	0.00	12.22
84		1,3,5-Trimethylbenzene	40.000	42.623	-6.6	103	0.00	12.34
85		2-Chlorotoluene	40.000	41.952	-4.9	102	0.00	12.35

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VJ5301-ECC5295
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976583.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
86	trans-1,4-Dichloro-2-Bute	0.145	0.151	-4.1	95	0.00	12.40

		Amount	Calc.	%Drift			
87	1,2,3-Trichloropropane	40.000	40.009	-0.0	99	0.00	12.38
88	Cyclohexanone	200.000	138.035	31.0	69	0.00	12.45
89	4-Chlorotoluene	40.000	41.851	-4.6	102	0.00	12.52
90	a-Methyl Styrene	40.000	40.497	-1.2	105	0.00	12.60
91	tert-Butylbenzene	40.000	42.483	-6.2	104	0.00	12.68
92	1,2,4-Trimethylbenzene	40.000	42.192	-5.5	102	0.00	12.75
93	Pentachloroethane	40.000	39.789	0.5	103	0.00	12.74
94	sec-Butylbenzene	40.000	42.708	-6.8	104	0.00	12.87

		AvgRF	CCRF	%Dev			
95	4-Isopropyltoluene	2.616	2.853	-9.1	102	0.00	13.00

		Amount	Calc.	%Drift			
96	1,3-Dichlorobenzene	40.000	41.111	-2.8	100	0.00	13.13
97	1,4-Dichlorobenzene	40.000	40.445	-1.1	100	0.00	13.22

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.500	1.618	-7.9	102	0.00	13.43

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	40.417	-1.0	95	0.00	13.44
100	1,2-Dichlorobenzene	40.000	40.668	-1.7	99	0.00	13.64
101	1,2-Dibromo-3-Chloropropa	40.000	38.247	4.4	93	0.00	14.38
102	Hexachlorobutadiene	40.000	42.393	-6.0	105	0.00	14.93
103	1,2,4-Trichlorobenzene	40.000	40.886	-2.2	100	0.00	14.97
104	Naphthalene	40.000	40.956	-2.4	99	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	40.718	-1.8	99	0.00	15.43

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	106	0.00	5.30
107	Ethanol	0.124	0.126	-1.6	104	0.02	4.30
108	acrolein	2.357	2.609	-10.7	117	0.00	4.76

		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	390.029	2.5	99	0.00	5.38
110	tert Amyl alcohol	400.000	391.545	2.1	98	0.00	7.57
111	Isobutyl alcohol	800.000	726.927	9.1	95	0.00	7.45
112	1,4-Dioxane	800.000	826.532	-3.3	107	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1885.109	5.7	97	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Wed May 18 09:34:13 2016

6.7.4 6

Initial Calibration Summary

Job Number: FA33998 **Sample:** VY1149-ICC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28381.D
Project: BMSMC, Building 5 Area, Humacao, PR

Response Factor Report MSVOA14

Method : C:\msdchem\1\METHODS\050616APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Calibration Files
1 =Y28378.D 2 =Y28379.D 3 =Y28380.D 4 =Y28381.D
5 =Y28382.D 6 =Y28383.D 7 =Y28384.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.506	0.504	0.515	0.560	0.521	0.508	0.520	0.519	3.74
3)P Chloromethane	0.519	0.529	0.551	0.552	0.514	0.494	0.492	0.521	4.70
4)C Vinyl Chloride	0.499	0.497	0.541	0.563	0.525	0.516	0.526	0.524	4.42
5) Bromomethane	0.258	0.243	0.260	0.261	0.238	0.227	0.227	0.245	6.10
6) Chloroethane	0.264	0.259	0.278	0.275	0.208			0.257	11.05
7) Trichlorofluorome	0.467	0.470	0.525	0.542	0.496	0.482	0.477	0.494	5.83
8) Ethyl Ether	0.232	0.236	0.248	0.263	0.263	0.254	0.261	0.251	5.09
9) 1,2-Dichlorotrifl	0.425	0.423	0.454	0.445	0.433	0.416	0.417	0.430	3.36
10)C 1,1-Dichloroethen	0.536	0.529	0.608	0.594	0.587	0.567	0.596	0.574	5.40
11) Freon 113	0.387	0.382	0.415	0.416	0.390	0.373	0.375	0.391	4.51
12) Carbon Disulfide	1.145	1.179	1.287	1.291	1.195	1.158	1.141	1.199	5.34
13) Iodomethane	0.512	0.511	0.549	0.544	0.519	0.508	0.516	0.523	3.20
14) Allyl chloride	0.472	0.457	0.490	0.493	0.466	0.460	0.455	0.471	3.30
15) Methylene Chlorid	0.551	0.608	0.479	0.436	0.415	0.394	0.401	0.469	17.44
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
Response Ratio = 0.00000 + 0.43217 *A + -0.00887 *A^2									
16) Acetone	0.094	0.085	0.085	0.084	0.082	0.079	0.083	0.085	5.18
17) Methyl acetate	0.155	0.159	0.165	0.160	0.167	0.153	0.155	0.159	3.16
18) trans-1,2-Dichlor	0.435	0.405	0.460	0.483	0.442	0.435	0.439	0.443	5.40
19) Hexane	0.396	0.346	0.357	0.332	0.320	0.311	0.312	0.339	8.97
20) Methyl Tert Butyl	0.823	0.828	0.883	0.863	0.850	0.812	0.829	0.841	2.97
21) Acetonitrile	0.027	0.027	0.028	0.029	0.028	0.027	0.028	0.027	2.87
22) Di-isopropyl ethe	0.896	0.924	0.997	0.977	0.975	0.926	0.945	0.949	3.78
23) Chloroprene	0.489	0.510	0.569	0.564	0.548	0.538	0.536	0.536	5.33
24)P 1,1-Dichloroethan	0.595	0.585	0.621	0.621	0.593	0.571	0.570	0.594	3.54
25) Acrylonitrile	0.092	0.092	0.094	0.093	0.093	0.088	0.092	0.092	2.29
26) ETBE	0.934	0.919	0.965	0.982	0.957	0.892	0.914	0.937	3.40
27) Vinyl acetate	0.482	0.502	0.514	0.483	0.454	0.393	0.390	0.460	10.93
28) cis-1,2-Dichloroe	0.362	0.350	0.390	0.398	0.366	0.376	0.367	0.373	4.48
29) 2,2-Dichloropropa	0.286	0.268	0.286	0.282	0.241	0.240	0.219	0.260	10.37
30) Bromochloromethan	0.144	0.151	0.163	0.167	0.161	0.160	0.156	0.158	4.98
31) Cyclohexane	0.582	0.573	0.650	0.671	0.620	0.634	0.620	0.621	5.60
32)C Chloroform	0.550	0.581	0.634	0.649	0.592	0.589	0.572	0.595	5.83
33) Ethyl acetate	0.183	0.208	0.211	0.203	0.207	0.192	0.198	0.200	4.94
34) Tetrahydrofuran	0.080	0.078	0.077	0.069	0.071	0.067	0.069	0.073	7.15
35)S Dibromofluorometh	0.236	0.228	0.230	0.233	0.228	0.231	0.225	0.230	1.63
36) Carbon Tetrachlor	0.384	0.397	0.429	0.444	0.407	0.410	0.413	0.412	4.82
37) 1,1,1-Trichloroet	0.433	0.444	0.483	0.505	0.447	0.453	0.435	0.457	5.88
38) 2-Butanone	0.105	0.120	0.118	0.116	0.119	0.111	0.117	0.115	4.60
39) 1,1-Dichloroprope	0.442	0.470	0.508	0.512	0.476	0.482	0.469	0.480	5.03
40) Propionitrile	0.033	0.037	0.035	0.034	0.035	0.033	0.034	0.034	4.15
41) Methacrylonitrile	0.114	0.129	0.131	0.124	0.124	0.115	0.113	0.121	6.10
42) Benzene	1.306	1.345	1.461	1.459	1.317	1.261	1.206	1.336	7.13
43) TAME	0.813	0.879	0.913	0.922	0.891	0.874	0.869	0.880	4.05

Initial Calibration Summary

Job Number: FA33998 **Sample:** VY1149-ICC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28381.D
Project: BMSMC, Building 5 Area, Humacao, PR

44)S	1,2-Dichloroethan	0.253	0.262	0.241	0.237	0.242	0.233	0.242	0.244	4.00
45)	1,2-Dichloroethan	0.371	0.378	0.384	0.379	0.366	0.354	0.359	0.370	3.02
46)	Trichloroethene	0.335	0.325	0.367	0.375	0.344	0.338	0.333	0.345	5.45
47)	Methylcyclohexane	0.627	0.665	0.711	0.736	0.682	0.681	0.675	0.682	5.06
48)	Dibromomethane	0.148	0.166	0.171	0.166	0.168	0.160	0.166	0.164	4.65
49)C	1,2-Dichloropropa	0.298	0.336	0.348	0.336	0.344	0.325	0.334	0.331	4.96
50)	Bromodichlorometh	0.373	0.382	0.419	0.402	0.404	0.381	0.393	0.394	4.03
51)	Methyl methacryla	0.115	0.173	0.171	0.154	0.191	0.172	0.196	0.168	16.04

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9950
Response Ratio = 0.00000 + 0.15720 *A + 0.00889 *A^2

52)	2-Chloroethyl vin	0.108	0.152	0.162	0.156	0.168	0.151	0.160	0.151	13.28
53)	cis-1,3-Dichlorop	0.446	0.468	0.514	0.512	0.509	0.494	0.501	0.492	5.21
54) I	Chlorobenzene-d5	----------ISTD----------								
55)S	Toluene-d8	1.424	1.406	1.393	1.403	1.414	1.414	1.408	1.409	0.71
56)C	Toluene	2.078	2.039	2.206	2.187	1.991	1.884	1.797	2.026	7.40
57)	2-Nitropropane	0.073	0.084	0.082	0.078	0.084	0.076	0.085	0.080	5.72
58)	4-Methyl-2-pentan	0.277	0.334	0.348	0.320	0.327	0.286	0.295	0.313	8.57
59)	trans-1,3-Dichlor	0.491	0.537	0.590	0.599	0.590	0.565	0.570	0.563	6.74
60)	Tetrachloroethene	0.455	0.431	0.498	0.508	0.467	0.472	0.472	0.472	5.39
61)	Ethyl methacrylat	0.346	0.432	0.455	0.432	0.484	0.448	0.481	0.440	10.53
62)	1,1,2-Trichloroet	0.302	0.297	0.332	0.327	0.318	0.294	0.298	0.310	5.00
63)	Dibromochlorometh	0.320	0.368	0.379	0.389	0.388	0.376	0.381	0.371	6.44
64)	1,3-Dichloropropa	0.625	0.657	0.692	0.660	0.662	0.626	0.639	0.652	3.60
65)	1,2-Dibromoethane	0.303	0.329	0.367	0.346	0.350	0.330	0.344	0.338	5.92
66)	2-hexanone	0.178	0.238	0.239	0.216	0.244	0.207	0.225	0.221	10.54
67)	1-Chlorohexane	0.529	0.651	0.693	0.677	0.680	0.670	0.685	0.655	8.73
68)C	Ethylbenzene	2.068	2.102	2.325	2.325	2.118	1.955	1.853	2.107	8.33
69)P	Chlorobenzene	1.253	1.229	1.333	1.335	1.221	1.165	1.145	1.240	5.97
70)	1,1,1,2-Tetrachlo	0.387	0.394	0.424	0.440	0.414	0.410	0.408	0.411	4.29
71)	m,p-Xylene	1.491	1.616	1.720	1.698	1.506	1.338	1.224	1.513	12.14
72)	o-Xylene	1.444	1.630	1.762	1.749	1.674	1.577	1.543	1.626	7.04
73)	Styrene	0.909	1.126	1.254	1.302	1.276	1.216	1.221	1.187	11.34
74)P	Bromoform	0.179	0.187	0.196	0.200	0.209	0.203	0.211	0.198	5.81
75)	Isopropylbenzene	1.779	2.012	2.186	2.193	2.021	1.909	1.808	1.987	8.35
76) I	1,4-Dichlorobenzene-d	----------ISTD----------								
77)S	4-Bromofluorobenz	0.681	0.687	0.694	0.662	0.686	0.696	0.661	0.681	2.09
78)	cis-1,4-Dichloro-	0.235	0.261	0.277	0.248	0.270	0.243	0.262	0.257	5.84
79)	n-Propylbenzene	4.717	5.057	5.556	5.470	4.860	4.455	3.956	4.867	11.55
80)	Bromobenzene	0.880	0.939	1.026	1.038	0.959	0.949	0.897	0.955	6.24
81)P	1,1,2,2-Tetrachlo	0.967	1.012	1.069	1.008	0.979	0.909	0.900	0.978	6.09
82)	1,3,5-Trimethylbe	3.388	3.776	4.219	4.269	3.808	3.632	3.229	3.760	10.36
83)	2-Chlorotoluene	3.261	3.299	3.785	3.798	3.431	3.300	3.024	3.414	8.34
84)	trans-1,4-Dichlor	0.251	0.252	0.270	0.256	0.268	0.238	0.252	0.255	4.21
85)	1,2,3-Trichloropr	0.256	0.269	0.274	0.265	0.271	0.252	0.245	0.262	4.13
86)	Cyclohexanone	0.041	0.054	0.053	0.044	0.047	0.042	0.045	0.046	11.18
87)	4-Chlorotoluene	2.959	3.061	3.374	3.388	3.146	3.009	2.761	3.100	7.27
88)	tert-Butylbenzene	1.973	2.218	2.468	2.481	2.359	2.277	2.104	2.269	8.24
89)	1,2,4-Trimethylbe	3.187	3.486	4.002	4.108	3.762	3.545	3.162	3.607	10.27
90)	Pentachloroethane	0.532	0.545	0.574	0.597	0.551	0.545	0.500	0.549	5.58
91)	sec-Butylbenzene	4.497	4.820	5.431	5.489	4.878	4.519	4.019	4.808	10.94
92)	4-Isopropyltoluen	3.499	3.915	4.306	4.475	4.064	3.803	3.418	3.926	9.98
93)	1,3-Dichlorobenze	1.854	1.905	1.997	2.060	1.920	1.833	1.748	1.902	5.49
94)	1,4-Dichlorobenze	2.035	1.957	2.047	2.051	1.926	1.843	1.755	1.945	5.83
95)	n-Butylbenzene	1.979	2.083	2.588	2.593	2.414	2.308	2.131	2.299	10.67
96)	Benzyl Chloride	0.282	0.361	0.385	0.397	0.386	0.365	0.365	0.363	10.50
97)	1,2-Dichlorobenze	1.802	1.761	1.927	1.948	1.813	1.735	1.643	1.804	5.91
98)	1,2-Dibromo-3-Chl	0.151	0.176	0.186	0.189	0.185	0.175	0.178	0.177	7.23

Initial Calibration Summary

Job Number: FA33998 **Sample:** VY1149-ICC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28381.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
 99)  Hexachlorobutadie 0.686 0.682 0.725 0.771 0.698 0.682 0.657 0.700   5.36
100)  1,2,4-Trichlorobe 1.266 1.154 1.224 1.401 1.277 1.237 1.167 1.247   6.60
101)  Naphthalene       2.861 2.396 2.720 3.171 2.902 2.672 2.508 2.747   9.45
102)  1,2,3-Trichlorobe 1.262 1.145 1.209 1.334 1.203 1.151 1.091 1.199   6.74

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.124 0.140 0.142 0.134 0.133 0.137 0.142 0.136   4.79
105)  Acrolein          2.287 2.400 2.318 2.396 2.265 2.309 2.347 2.332   2.22
106)  Tert butyl alcoho 1.468 1.390 1.428 1.448 1.388 1.393 1.504 1.431   3.12
107)  Isobutyl alcohol  0.238 0.332 0.328 0.323 0.332 0.322 0.348 0.318  11.33
108)  Tert Amyl Alcohol 0.928 1.150 1.171 1.158 1.166 1.170 1.254 1.142   8.83
109)  1,4-Dioxane       0.104 0.133 0.130 0.146 0.154 0.151 0.164 0.140  14.29
 ---------------------------------------------------------------------------
 (#) = Out of Range

          050616APP9-Y.m        Sat May 07 05:53:08 2016
```

Initial Calibration Verification

Job Number: FA33998 **Sample:** VY1149-ICV1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28386.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\050616\Y28386.D Vial: 16
Acq On : 6 May 2016 3:38 pm Operator: ericp
Sample : ICV1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\050616APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri May 06 14:58:04 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	100	0.00	7.12
2		Dichlorodifluoromethane	0.519	0.564	-8.7	101	0.00	1.98
3	P	Chloromethane	0.521	0.557	-6.9	101	0.00	2.20
4	C	Vinyl Chloride	0.524	0.568	-8.4	101	0.00	2.32
5		Bromomethane	0.245	0.253	-3.3	97	0.00	2.72
6		Chloroethane	0.257	0.269	-4.7	98	0.00	2.88
7		Trichlorofluoromethane	0.494	0.537	-8.7	99	0.01	3.05
8		Ethyl Ether	0.251	0.273	-8.8	104	0.00	3.41
9		1,2-Dichlorotrifluoroetha	0.430	0.468	-8.8	105	0.00	3.64
10	C	1,1-Dichloroethene	0.574	0.626	-9.1	106	0.00	3.65
11		Freon 113	0.391	0.424	-8.4	102	0.00	3.70
12		Carbon Disulfide	1.199	1.318	-9.9	102	0.00	3.69
13		Iodomethane	0.523	0.557	-6.5	103	0.00	3.82
14		Allyl chloride	0.471	0.506	-7.4	103	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	51.526	-3.1	100	0.00	4.30
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.085	0.090	-5.9	107	0.00	4.34
17		Methyl acetate	0.159	0.175	-10.1	110	0.00	4.49
18		trans-1,2-Dichloroethene	0.443	0.483	-9.0	100	0.00	4.49
19		Hexane	0.339	0.356	-5.0	107	0.00	4.58
20		Methyl Tert Butyl Ether	0.841	0.908	-8.0	106	0.00	4.61
21		Acetonitrile	0.027	0.030	-11.1	106	0.00	4.85
22		Di-isopropyl ether	0.949	1.044	-10.0	107	0.00	5.02
23		Chloroprene	0.536	0.596	-11.2	106	0.00	5.14
24	P	1,1-Dichloroethane	0.594	0.665	-12.0	107	0.00	5.16
25		Acrylonitrile	0.092	0.103	-12.0	111	0.00	5.19
26		ETBE	0.937	1.066	-13.8	109	0.00	5.43
27		Vinyl acetate	0.460	0.529	-15.0	110	0.00	5.42
28		cis-1,2-Dichloroethene	0.373	0.403	-8.0	102	0.00	5.75
29		2,2-Dichloropropane	0.260	0.291	-11.9	103	0.00	5.87
30		Bromochloromethane	0.158	0.172	-8.9	103	0.00	5.97
31		Cyclohexane	0.621	0.698	-12.4	104	0.00	6.00
32	C	Chloroform	0.595	0.644	-8.2	99	0.00	6.04
33		Ethyl acetate	0.200	0.221	-10.5	109	0.00	6.16
34		Tetrahydrofuran	0.073	0.076	-4.1	112	0.00	6.23
35	S	Dibromofluoromethane	0.230	0.233	-1.3	100	0.00	6.24
36		Carbon Tetrachloride	0.412	0.437	-6.1	99	0.00	6.22
37		1,1,1-Trichloroethane	0.457	0.496	-8.5	99	0.00	6.28
38		2-Butanone	0.115	0.122	-6.1	106	0.00	6.36

Initial Calibration Verification

Job Number: FA33998 **Sample:** VY1149-ICV1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28386.D
Project: BMSMC, Building 5 Area, Humacao, PR

39		1,1-Dichloropropene	0.480	0.520	-8.3	102	0.00	6.42
40		Propionitrile	0.034	0.035	-2.9	103	-0.01	6.67
41		Methacrylonitrile	0.121	0.135	-11.6	109	0.00	6.70
42		Benzene	1.336	1.474	-10.3	101	0.00	6.68
43		TAME	0.880	0.961	-9.2	105	0.00	6.80
44	S	1,2-Dichloroethane-d4	0.244	0.236	3.3	100	0.00	6.82
45		1,2-Dichloroethane	0.370	0.376	-1.6	99	0.00	6.89
46		Trichloroethene	0.345	0.373	-8.1	99	0.00	7.31
47		Methylcyclohexane	0.682	0.755	-10.7	103	0.00	7.32
48		Dibromomethane	0.164	0.170	-3.7	103	0.00	7.75
49	C	1,2-Dichloropropane	0.331	0.342	-3.3	102	0.00	7.84
50		Bromodichloromethane	0.394	0.399	-1.3	100	0.00	7.91
		----------	Amount	Calc.	%Drift		----------	
51		Methyl methacrylate	50.000	50.947	-1.9	110	0.00	8.05
		----------	AvgRF	CCRF	%Dev		----------	
52		2-Chloroethyl vinyl ether	0.151	0.169	-11.9	108	0.00	8.47
53		cis-1,3-Dichloropropene	0.492	0.523	-6.3	102	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	10.31
55	S	Toluene-d8	1.409	1.402	0.5	101	0.00	8.75
56	C	Toluene	2.026	2.207	-8.9	102	0.00	8.80
57		2-Nitropropane	0.080	0.082	-2.5	106	0.00	9.00
58		4-Methyl-2-pentanone	0.313	0.343	-9.6	108	0.00	9.15
59		trans-1,3-Dichloropropene	0.563	0.611	-8.5	103	0.00	9.20
60		Tetrachloroethene	0.472	0.512	-8.5	102	0.00	9.20
61		Ethyl methacrylate	0.440	0.458	-4.1	107	0.00	9.34
62		1,1,2-Trichloroethane	0.310	0.323	-4.2	100	0.00	9.37
63		Dibromochloromethane	0.371	0.391	-5.4	102	0.00	9.56
64		1,3-Dichloropropane	0.652	0.683	-4.8	105	0.00	9.64
65		1,2-Dibromoethane	0.338	0.350	-3.6	103	0.00	9.81
66		2-hexanone	0.221	0.235	-6.3	110	0.00	9.99
67		1-Chlorohexane	0.655	0.709	-8.2	106	0.00	10.29
68	C	Ethylbenzene	2.107	2.327	-10.4	101	0.00	10.34
69	P	Chlorobenzene	1.240	1.337	-7.8	101	0.00	10.33
70		1,1,1,2-Tetrachloroethane	0.411	0.424	-3.2	98	0.00	10.38
71		m,p-Xylene	1.513	1.719	-13.6	103	0.00	10.49
72		o-Xylene	1.626	1.770	-8.9	102	0.00	10.92
73		Styrene	1.187	1.313	-10.6	102	0.00	10.97
74	P	Bromoform	0.198	0.208	-5.1	106	0.00	11.01
75		Isopropylbenzene	1.987	2.221	-11.8	103	0.00	11.24
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	12.68
77	S	4-Bromofluorobenzene	0.681	0.676	0.7	104	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.257	0.265	-3.1	109	0.00	11.58
79		n-Propylbenzene	4.867	5.489	-12.8	103	0.00	11.66
80		Bromobenzene	0.955	1.021	-6.9	101	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.978	0.990	-1.2	100	0.00	11.72
82		1,3,5-Trimethylbenzene	3.760	4.275	-13.7	102	0.00	11.84
83		2-Chlorotoluene	3.414	3.766	-10.3	101	0.00	11.83
84		trans-1,4-Dichloro-2-Bute	0.255	0.260	-2.0	104	0.00	11.89
85		1,2,3-Trichloropropane	0.262	0.268	-2.3	103	0.00	11.86
86		Cyclohexanone	0.046	0.048	-4.3	113	0.00	11.91
87		4-Chlorotoluene	3.100	3.426	-10.5	103	0.00	12.00
88		tert-Butylbenzene	2.269	2.536	-11.8	105	0.00	12.18
89		1,2,4-Trimethylbenzene	3.607	4.078	-13.1	101	0.00	12.25
90		Pentachloroethane	0.549	0.583	-6.2	100	0.00	12.21
91		sec-Butylbenzene	4.808	5.493	-14.2	102	0.00	12.36
92		4-Isopropyltoluene	3.926	4.456	-13.5	102	0.00	12.50

Initial Calibration Verification

Job Number: FA33998 **Sample:** VY1149-ICV1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28386.D
Project: BMSMC, Building 5 Area, Humacao, PR

93		1,3-Dichlorobenzene	1.902	2.042	-7.4	101	0.00	12.60
94		1,4-Dichlorobenzene	1.945	2.037	-4.7	102	0.00	12.70
95		n-Butylbenzene	2.299	2.612	-13.6	103	0.00	12.94
96		Benzyl Chloride	0.363	0.387	-6.6	100	0.00	12.94
97		1,2-Dichlorobenzene	1.804	1.951	-8.1	102	0.00	13.13
98		1,2-Dibromo-3-Chloropropa	0.177	0.194	-9.6	105	0.00	13.94
99		Hexachlorobutadiene	0.700	0.743	-6.1	98	0.00	14.56
100		1,2,4-Trichlorobenzene	1.247	1.383	-10.9	101	0.00	14.59
101		Naphthalene	2.747	3.155	-14.9	102	0.00	14.87
102		1,2,3-Trichlorobenzene	1.199	1.319	-10.0	101	0.00	15.04
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	109	-0.02	4.62
104		Ethanol	0.136	0.138	-1.5	112	-0.02	3.57
105		Acrolein	2.332	2.340	-0.3	106	0.00	4.01
106		Tert butyl alcohol	1.431	1.460	-2.0	110	-0.02	4.70
107		Isobutyl alcohol	0.318	0.308	3.1	104	-0.02	6.89
108		Tert Amyl Alcohol	1.142	1.185	-3.8	112	-0.02	7.00
109		1,4-Dioxane	0.140	0.145	-3.6	109	-0.01	8.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28381.D 050616APP9-Y.m Sat May 07 05:52:47 2016

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VY1157-CC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28622.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\051716\Y28622.D            Vial: 6
Acq On    : 17 May 2016  10:18 am                    Operator: angied
Sample    : CC1149-4                                 Inst    : MSVOA14
Misc      : MS33876,VY1157,5.00,,,5,,                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\050616APP9-Y.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri May 06 14:58:04 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	113	0.00	7.12
2		Dichlorodifluoromethane	0.519	0.457	11.9	92	0.00	1.98
3	P	Chloromethane	0.521	0.487	6.5	100	0.00	2.21
4	C	Vinyl Chloride	0.524	0.507	3.2	102	0.00	2.32
5		Bromomethane	0.245	0.233	4.9	101	0.00	2.72
6		Chloroethane	0.257	0.249	3.1	102	0.01	2.88
7		Trichlorofluoromethane	0.494	0.486	1.6	101	0.01	3.05
8		Ethyl Ether	0.251	0.257	-2.4	110	0.00	3.40
9		1,2-Dichlorotrifluoroetha	0.430	0.424	1.4	108	0.00	3.64
10	C	1,1-Dichloroethene	0.574	0.572	0.3	109	0.00	3.65
11		Freon 113	0.391	0.365	6.6	99	0.00	3.71
12		Carbon Disulfide	1.199	1.196	0.3	105	0.00	3.70
13		Iodomethane	0.523	0.493	5.7	102	-0.01	3.81
14		Allyl chloride	0.471	0.488	-3.6	112	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	51.715	-3.4	113	0.00	4.30
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.085	0.086	-1.2	115	0.00	4.34
17		Methyl acetate	0.159	0.164	-3.1	116	0.00	4.49
18		trans-1,2-Dichloroethene	0.443	0.445	-0.5	104	0.00	4.49
19		Hexane	0.339	0.290	14.5	98	0.00	4.58
20		Methyl Tert Butyl Ether	0.841	0.850	-1.1	111	0.00	4.61
21		Acetonitrile	0.027	0.028	-3.7	110	0.00	4.85
22		Di-isopropyl ether	0.949	0.996	-5.0	115	0.00	5.02
23		Chloroprene	0.536	0.531	0.9	106	0.00	5.14
24	P	1,1-Dichloroethane	0.594	0.601	-1.2	109	0.00	5.16
25		Acrylonitrile	0.092	0.094	-2.2	114	0.00	5.20
26		ETBE	0.937	0.971	-3.6	112	0.00	5.42
27		Vinyl acetate	0.460	0.497	-8.0	116	0.00	5.42
28		cis-1,2-Dichloroethene	0.373	0.357	4.3	101	0.00	5.75
29		2,2-Dichloropropane	0.260	0.267	-2.7	107	0.00	5.87
30		Bromochloromethane	0.158	0.158	0.0	107	0.00	5.97
31		Cyclohexane	0.621	0.594	4.3	100	0.00	6.00
32	C	Chloroform	0.595	0.583	2.0	102	0.00	6.04
33		Ethyl acetate	0.200	0.199	0.5	111	0.00	6.16
34		Tetrahydrofuran	0.073	0.064	12.3	106	0.00	6.23
35	S	Dibromofluoromethane	0.230	0.230	0.0	112	0.00	6.24
36		Carbon Tetrachloride	0.412	0.381	7.5	97	0.00	6.22
37		1,1,1-Trichloroethane	0.457	0.452	1.1	101	0.00	6.28
38		2-Butanone	0.115	0.112	2.6	109	0.00	6.36

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VY1157-CC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28622.D
Project: BMSMC, Building 5 Area, Humacao, PR

39		1,1-Dichloropropene	0.480	0.461	4.0	102	0.00	6.42
40		Propionitrile	0.034	0.032	5.9	106	-0.01	6.67
41		Methacrylonitrile	0.121	0.121	0.0	110	0.00	6.70
42		Benzene	1.336	1.308	2.1	101	0.00	6.68
43		TAME	0.880	0.865	1.7	106	0.00	6.80
44	S	1,2-Dichloroethane-d4	0.244	0.242	0.8	116	0.00	6.82
45		1,2-Dichloroethane	0.370	0.348	5.9	104	0.00	6.89
46		Trichloroethene	0.345	0.335	2.9	101	0.00	7.31
47		Methylcyclohexane	0.682	0.615	9.8	94	0.00	7.32
48		Dibromomethane	0.164	0.153	6.7	104	0.00	7.75
49	C	1,2-Dichloropropane	0.331	0.313	5.4	105	0.00	7.84
50		Bromodichloromethane	0.394	0.378	4.1	106	0.00	7.91
		----------	Amount	Calc.	%Drift		----------	
51		Methyl methacrylate	50.000	44.547	10.9	108	0.00	8.05
		----------	AvgRF	CCRF	%Dev		----------	
52		2-Chloroethyl vinyl ether	0.151	0.148	2.0	108	0.00	8.47
53		cis-1,3-Dichloropropene	0.492	0.478	2.8	106	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00	10.31
55	S	Toluene-d8	1.409	1.399	0.7	115	0.00	8.75
56	C	Toluene	2.026	1.945	4.0	102	0.00	8.79
57		2-Nitropropane	0.080	0.074	7.5	110	0.00	9.00
58		4-Methyl-2-pentanone	0.313	0.309	1.3	111	0.00	9.15
59		trans-1,3-Dichloropropene	0.563	0.558	0.9	107	0.00	9.20
60		Tetrachloroethene	0.472	0.426	9.7	97	0.00	9.20
61		Ethyl methacrylate	0.440	0.418	5.0	111	0.00	9.34
62		1,1,2-Trichloroethane	0.310	0.284	8.4	100	0.00	9.37
63		Dibromochloromethane	0.371	0.356	4.0	105	0.00	9.55
64		1,3-Dichloropropane	0.652	0.616	5.5	107	0.00	9.64
65		1,2-Dibromoethane	0.338	0.310	8.3	103	0.00	9.80
66		2-hexanone	0.221	0.214	3.2	114	0.00	9.99
67		1-Chlorohexane	0.655	0.591	9.8	100	0.00	10.28
68	C	Ethylbenzene	2.107	2.094	0.6	104	0.00	10.34
69	P	Chlorobenzene	1.240	1.197	3.5	103	0.00	10.33
70		1,1,1,2-Tetrachloroethane	0.411	0.388	5.6	101	0.00	10.38
71		m,p-Xylene	1.513	1.524	-0.7	103	0.00	10.48
72		o-Xylene	1.626	1.554	4.4	102	0.00	10.92
73		Styrene	1.187	1.158	2.4	102	0.00	10.97
74	P	Bromoform	0.198	0.185	6.6	106	0.00	11.01
75		Isopropylbenzene	1.987	1.936	2.6	102	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00	12.68
77	S	4-Bromofluorobenzene	0.681	0.674	1.0	117	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.257	0.242	5.8	112	0.00	11.58
79		n-Propylbenzene	4.867	4.814	1.1	101	0.00	11.65
80		Bromobenzene	0.955	0.924	3.2	102	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.978	0.911	6.9	104	0.00	11.71
82		1,3,5-Trimethylbenzene	3.760	3.713	1.2	100	0.00	11.84
83		2-Chlorotoluene	3.414	3.315	2.9	100	0.00	11.82
84		trans-1,4-Dichloro-2-Bute	0.255	0.242	5.1	109	0.00	11.89
85		1,2,3-Trichloropropane	0.262	0.244	6.9	106	0.00	11.86
86		Cyclohexanone	0.046	0.042	8.7	110	0.00	11.91
87		4-Chlorotoluene	3.100	3.013	2.8	102	0.00	11.99
88		tert-Butylbenzene	2.269	2.176	4.1	101	0.00	12.18
89		1,2,4-Trimethylbenzene	3.607	3.595	0.3	101	0.00	12.24
90		Pentachloroethane	0.549	0.533	2.9	103	0.00	12.21
91		sec-Butylbenzene	4.808	4.672	2.8	98	0.00	12.36
92		4-Isopropyltoluene	3.926	3.793	3.4	97	0.00	12.50

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VY1157-CC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28622.D
Project: BMSMC, Building 5 Area, Humacao, PR

93		1,3-Dichlorobenzene	1.902	1.799	5.4	100	0.00	12.60
94		1,4-Dichlorobenzene	1.945	1.816	6.6	102	0.00	12.69
95		n-Butylbenzene	2.299	2.142	6.8	95	0.00	12.94
96		Benzyl Chloride	0.363	0.373	-2.8	108	0.00	12.94
97		1,2-Dichlorobenzene	1.804	1.687	6.5	100	0.00	13.13
98		1,2-Dibromo-3-Chloropropa	0.177	0.173	2.3	105	0.00	13.94
99		Hexachlorobutadiene	0.700	0.612	12.6	91	0.00	14.56
100		1,2,4-Trichlorobenzene	1.247	1.153	7.5	95	0.00	14.59
101		Naphthalene	2.747	2.669	2.8	97	0.00	14.87
102		1,2,3-Trichlorobenzene	1.199	1.116	6.9	96	0.00	15.04
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	130	-0.02	4.63
104		Ethanol	0.136	0.102	25.0#	99	-0.02	3.57
105		Acrolein	2.332	2.062	11.6	112	0.00	4.01
106		Tert butyl alcohol	1.431	1.282	10.4	115	-0.01	4.71
107		Isobutyl alcohol	0.318	0.258	18.9	104	-0.02	6.88
108		Tert Amyl Alcohol	1.142	0.952	16.6	107	-0.02	6.99
109		1,4-Dioxane	0.140	0.112	20.0#	100	0.00	8.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28381.D 050616APP9-Y.m Wed May 18 09:18:05 2016

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VY1157-ECC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28646.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\051716\Y28646.D            Vial: 30
Acq On    : 17 May 2016   8:52 pm                     Operator: angied
Sample    : ECC1149-4                                 Inst    : MSVOA14
Misc      : MS33894,VY1157,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\050616APP9-Y.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri May 06 14:58:04 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	99	0.00	7.12
2		Dichlorodifluoromethane	0.519	0.490	5.6	87	0.00	1.99
3	P	Chloromethane	0.521	0.507	2.7	91	0.00	2.20
4	C	Vinyl Chloride	0.524	0.514	1.9	91	0.00	2.32
5		Bromomethane	0.245	0.243	0.8	93	0.00	2.72
6		Chloroethane	0.257	0.258	-0.4	93	0.01	2.88
7		Trichlorofluoromethane	0.494	0.502	-1.6	92	0.02	3.06
8		Ethyl Ether	0.251	0.263	-4.8	99	0.00	3.40
9		1,2-Dichlorotrifluoroetha	0.430	0.442	-2.8	99	0.00	3.64
10	C	1,1-Dichloroethene	0.574	0.590	-2.8	99	0.00	3.65
11		Freon 113	0.391	0.372	4.9	89	0.00	3.71
12		Carbon Disulfide	1.199	1.211	-1.0	93	0.00	3.70
13		Iodomethane	0.523	0.519	0.8	95	-0.01	3.81
14		Allyl chloride	0.471	0.495	-5.1	100	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	54.080	-8.2	104	0.00	4.30
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.085	0.078	8.2	92	0.00	4.35
17		Methyl acetate	0.159	0.162	-1.9	101	0.00	4.49
18		trans-1,2-Dichloroethene	0.443	0.457	-3.2	94	0.00	4.49
19		Hexane	0.339	0.302	10.9	90	0.00	4.58
20		Methyl Tert Butyl Ether	0.841	0.854	-1.5	98	0.00	4.61
21		Acetonitrile	0.027	0.025	7.4	87	0.00	4.85
22		Di-isopropyl ether	0.949	1.023	-7.8	104	0.00	5.03
23		Chloroprene	0.536	0.550	-2.6	97	0.00	5.14
24	P	1,1-Dichloroethane	0.594	0.622	-4.7	99	0.00	5.16
25		Acrylonitrile	0.092	0.093	-1.1	99	0.00	5.20
26		ETBE	0.937	1.008	-7.6	102	0.00	5.43
27		Vinyl acetate	0.460	0.488	-6.1	100	0.00	5.42
28		cis-1,2-Dichloroethene	0.373	0.367	1.6	91	0.00	5.75
29		2,2-Dichloropropane	0.260	0.272	-4.6	95	0.00	5.87
30		Bromochloromethane	0.158	0.163	-3.2	97	0.00	5.96
31		Cyclohexane	0.621	0.618	0.5	91	0.00	6.00
32	C	Chloroform	0.595	0.619	-4.0	95	0.00	6.04
33		Ethyl acetate	0.200	0.196	2.0	96	0.00	6.16
34		Tetrahydrofuran	0.073	0.064	12.3	93	0.00	6.23
35	S	Dibromofluoromethane	0.230	0.237	-3.0	101	0.00	6.24
36		Carbon Tetrachloride	0.412	0.407	1.2	91	0.00	6.21
37		1,1,1-Trichloroethane	0.457	0.469	-2.6	92	0.00	6.28
38		2-Butanone	0.115	0.105	8.7	90	0.00	6.37

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VY1157-ECC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28646.D
Project: BMSMC, Building 5 Area, Humacao, PR

39		1,1-Dichloropropene	0.480	0.456	5.0	88	0.00	6.41
40		Propionitrile	0.034	0.030	11.8	88	0.00	6.68
41		Methacrylonitrile	0.121	0.119	1.7	95	0.00	6.71
42		Benzene	1.336	1.361	-1.9	93	0.00	6.68
43		TAME	0.880	0.858	2.5	92	0.00	6.80
44	S	1,2-Dichloroethane-d4	0.244	0.246	-0.8	103	0.00	6.82
45		1,2-Dichloroethane	0.370	0.365	1.4	96	0.00	6.89
46		Trichloroethene	0.345	0.325	5.8	86	0.00	7.31
47		Methylcyclohexane	0.682	0.638	6.5	86	0.00	7.32
48		Dibromomethane	0.164	0.159	3.0	95	0.00	7.75
49	C	1,2-Dichloropropane	0.331	0.322	2.7	95	0.00	7.84
50		Bromodichloromethane	0.394	0.383	2.8	95	0.00	7.91
		----------	Amount	Calc.	%Drift		----------	
51		Methyl methacrylate	50.000	41.558	16.9	88	0.00	8.05
		----------	AvgRF	CCRF	%Dev		----------	
52		2-Chloroethyl vinyl ether	0.151	0.152	-0.7	97	0.00	8.47
53		cis-1,3-Dichloropropene	0.492	0.489	0.6	95	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	10.31
55	S	Toluene-d8	1.409	1.376	2.3	103	0.00	8.74
56	C	Toluene	2.026	1.927	4.9	92	0.00	8.79
57		2-Nitropropane	0.080	0.071	11.3	96	0.00	9.01
58		4-Methyl-2-pentanone	0.313	0.290	7.3	95	0.00	9.15
59		trans-1,3-Dichloropropene	0.563	0.545	3.2	95	0.00	9.20
60		Tetrachloroethene	0.472	0.428	9.3	88	0.00	9.20
61		Ethyl methacrylate	0.440	0.391	11.1	95	0.00	9.35
62		1,1,2-Trichloroethane	0.310	0.297	4.2	95	0.00	9.37
63		Dibromochloromethane	0.371	0.350	5.7	94	0.00	9.56
64		1,3-Dichloropropane	0.652	0.607	6.9	96	0.00	9.64
65		1,2-Dibromoethane	0.338	0.306	9.5	93	0.00	9.80
66		2-hexanone	0.221	0.189	14.5	92	0.00	9.99
67		1-Chlorohexane	0.655	0.562	14.2	87	0.00	10.28
68	C	Ethylbenzene	2.107	2.026	3.8	91	0.00	10.34
69	P	Chlorobenzene	1.240	1.154	6.9	90	0.00	10.33
70		1,1,1,2-Tetrachloroethane	0.411	0.393	4.4	93	0.00	10.38
71		m,p-Xylene	1.513	1.465	3.2	90	0.00	10.48
72		o-Xylene	1.626	1.470	9.6	88	0.00	10.92
73		Styrene	1.187	1.110	6.5	89	0.00	10.97
74	P	Bromoform	0.198	0.179	9.6	94	0.00	11.01
75		Isopropylbenzene	1.987	1.839	7.4	88	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	12.67
77	S	4-Bromofluorobenzene	0.681	0.675	0.9	102	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.257	0.231	10.1	93	0.00	11.57
79		n-Propylbenzene	4.867	4.603	5.4	84	0.00	11.65
80		Bromobenzene	0.955	0.939	1.7	91	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.978	0.951	2.8	95	0.00	11.71
82		1,3,5-Trimethylbenzene	3.760	3.611	4.0	85	0.00	11.84
83		2-Chlorotoluene	3.414	3.219	5.7	85	0.00	11.83
84		trans-1,4-Dichloro-2-Bute	0.255	0.238	6.7	93	0.00	11.89
85		1,2,3-Trichloropropane	0.262	0.253	3.4	95	0.00	11.86
86		Cyclohexanone	0.046	0.041	10.9	95	0.00	11.91
87		4-Chlorotoluene	3.100	2.838	8.5	84	0.00	11.99
88		tert-Butylbenzene	2.269	2.218	2.2	90	0.00	12.18
89		1,2,4-Trimethylbenzene	3.607	3.367	6.7	82	0.00	12.25
90		Pentachloroethane	0.549	0.536	2.4	90	0.00	12.21
91		sec-Butylbenzene	4.808	4.590	4.5	84	0.00	12.36
92		4-Isopropyltoluene	3.926	3.517	10.4	79	0.00	12.50

Continuing Calibration Summary

Job Number: FA33998 **Sample:** VY1157-ECC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28646.D
Project: BMSMC, Building 5 Area, Humacao, PR

93		1,3-Dichlorobenzene	1.902	1.665	12.5	81	0.00	12.61
94		1,4-Dichlorobenzene	1.945	1.672	14.0	82	0.00	12.69
95		n-Butylbenzene	2.299	1.836	20.1	71	0.00	12.94
96		Benzyl Chloride	0.363	0.315	13.2	80	0.00	12.94
97		1,2-Dichlorobenzene	1.804	1.647	8.7	85	0.00	13.13
98		1,2-Dibromo-3-Chloropropa	0.177	0.163	7.9	86	0.00	13.94
99		Hexachlorobutadiene	0.700	0.557	20.4	72	0.00	14.55
100		1,2,4-Trichlorobenzene	1.247	0.915	26.6	65	0.00	14.59
101		Naphthalene	2.747	2.402	12.6	76	0.00	14.88
102		1,2,3-Trichlorobenzene	1.199	0.970	19.1	73	0.00	15.03
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	99	-0.01	4.63
104		Ethanol	0.136	0.123	9.6	91	-0.02	3.57
105		Acrolein	2.332	2.167	7.1	90	0.00	4.02
106		Tert butyl alcohol	1.431	1.344	6.1	92	0.00	4.71
107		Isobutyl alcohol	0.318	0.283	11.0	87	0.00	6.90
108		Tert Amyl Alcohol	1.142	1.019	10.8	87	0.00	7.00
109		1,4-Dioxane	0.140	0.105	25.0	71	0.00	8.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28381.D 050616APP9-Y.m Wed May 18 09:27:01 2016

GC/MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/18/16 10:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976576.D
Acq On : 17 May 2016 5:42 pm
Operator : darshnap
Sample : fa33998-1 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 18 08:19:24 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1039276	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	813611	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	412339	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	64802	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	264240	50.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.48%			
46) 1,2-Dichloroethane-d4	7.476	65	315313	51.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.58%			
57) Toluene-d8	9.301	98	1099226	52.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.92%			
79) 4-Bromofluorobenzene	12.057	95	401703	53.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.86%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	4.343	67	3386m	0.53	ug/L	
21) Methyl Tert Butyl Ether	5.341	73	38609	2.53	ug/L	90
23) Di-isopropyl ether	5.712	45	4509	0.27	ug/L	89
71) Chlorobenzene	10.865	112	6792	0.39	ug/L	73
77) Isopropylbenzene	11.747	105	22906	0.82	ug/L	87
81) n-Propylbenzene	12.166	91	6423	0.20	ug/L	82
109) Tert Butyl Alcohol	5.389	59	2811	8.35	ug/L #	82
112) 1,4-Dioxane	8.674	88	49373	1405.39	ug/L	93

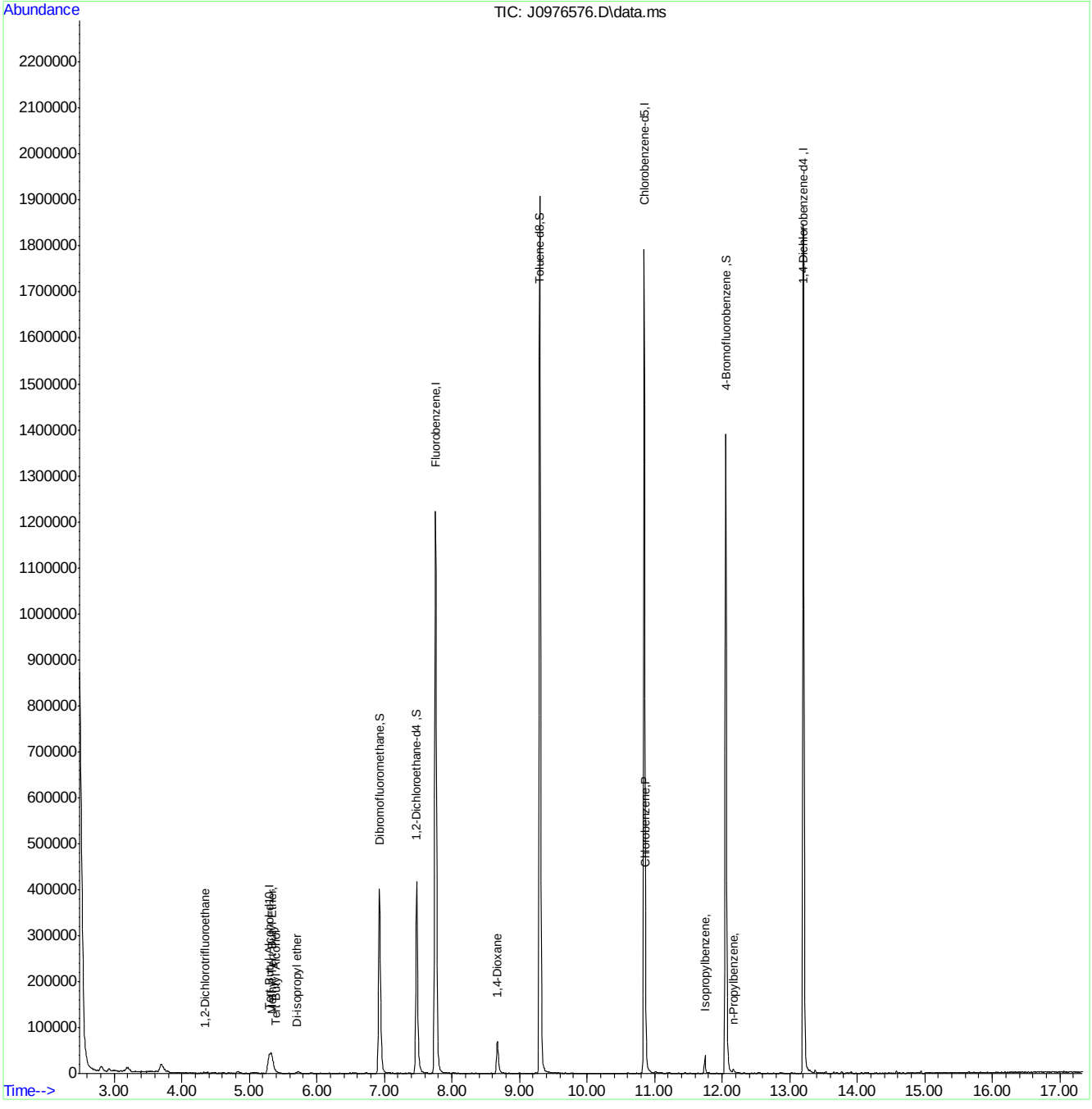
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1
7

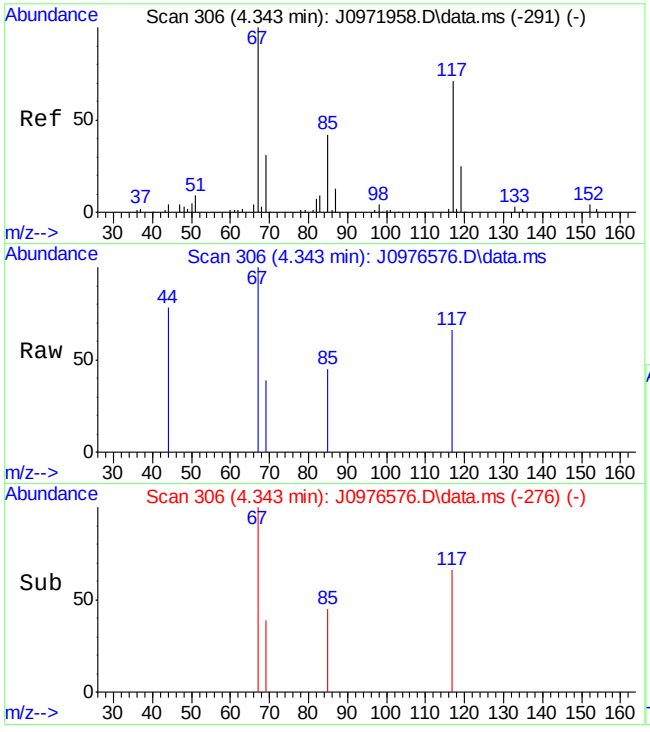
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976576.D
Acq On : 17 May 2016 5:42 pm
Operator : darshnap
Sample : fa33998-1 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 18 08:19:24 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



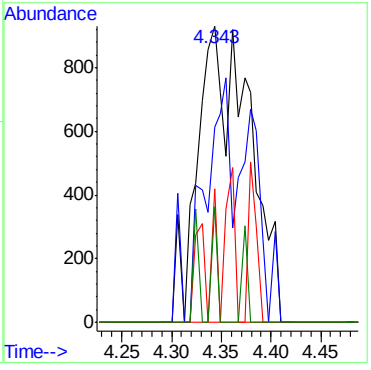
MSJ051216a.M Wed May 18 08:26:15 2016 Page: 2

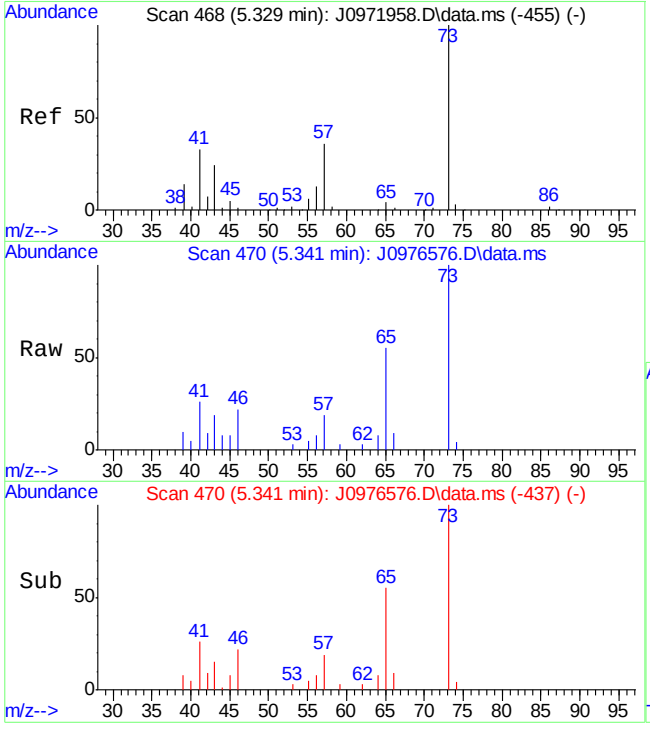


#10
1,2-Dichlorotrifluoroethane
Concen: 0.53 ug/L m
RT: 4.343 min Scan# 306
Delta R.T. -0.018 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion: 67 Resp: 3386

Ion	Ratio	Lower	Upper
67	100		
117	65.9	47.1	87.1
85	45.2	22.3	62.3
69	38.9	12.9	52.9

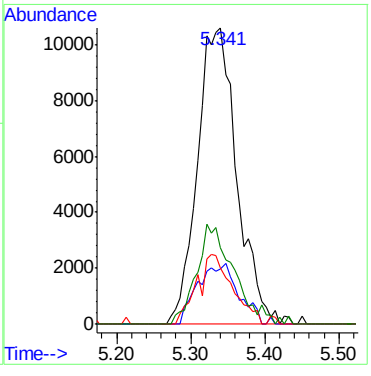


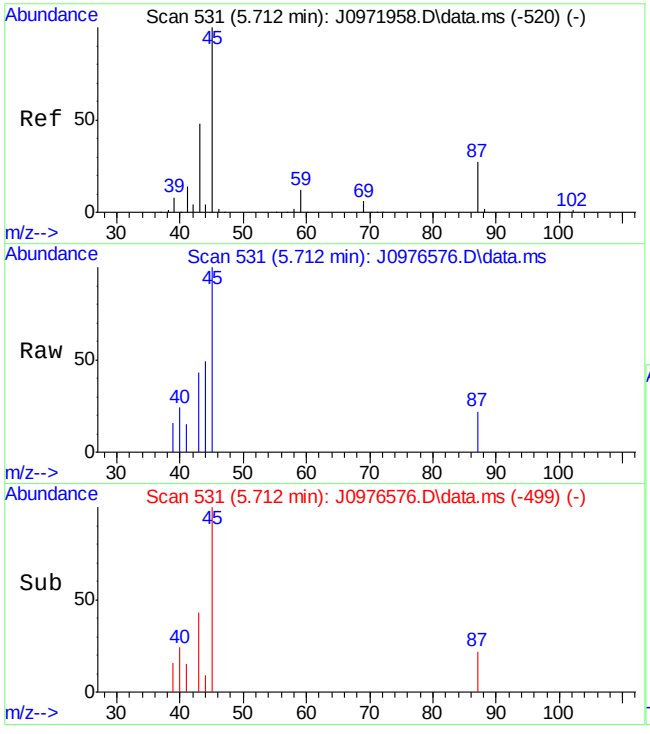


#21
Methyl Tert Butyl Ether
Concen: 2.53 ug/L
RT: 5.341 min Scan# 470
Delta R.T. 0.001 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion: 73 Resp: 38609

Ion	Ratio	Lower	Upper
73	100		
57	18.8	0.0	58.6
43	19.0	0.0	53.2
41	25.6	0.0	55.5

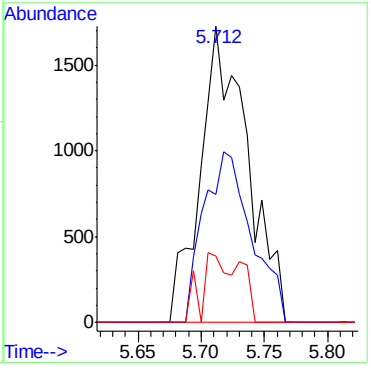


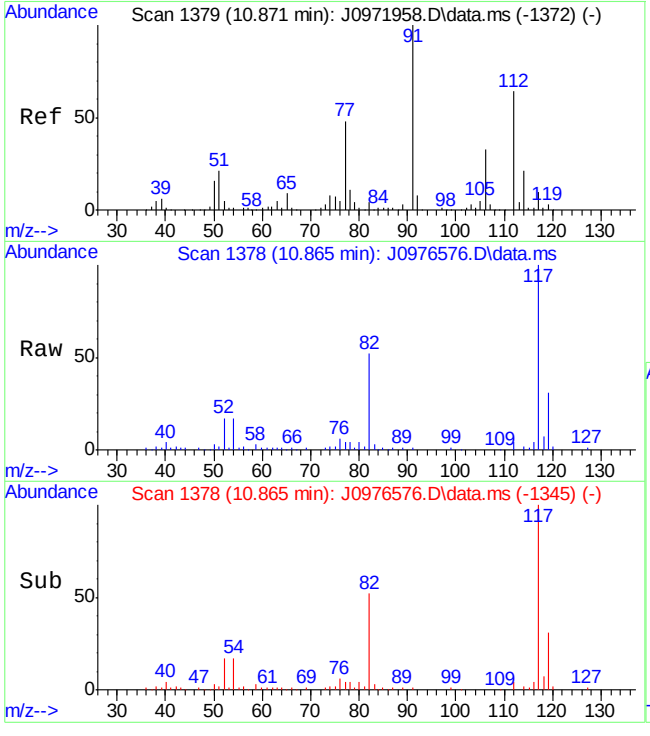


#23
Di-isopropyl ether
Concen: 0.27 ug/L
RT: 5.712 min Scan# 531
Delta R.T. -0.006 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion: 45 Resp: 4509

Ion	Ratio	Lower	Upper
45	100		
43	43.3	19.7	79.7
87	22.5	0.0	59.7

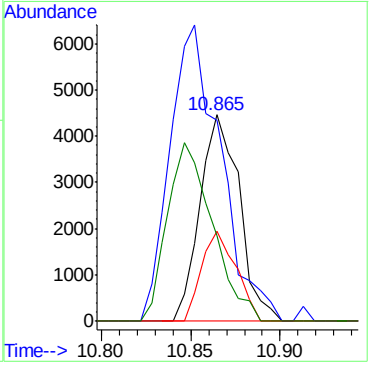


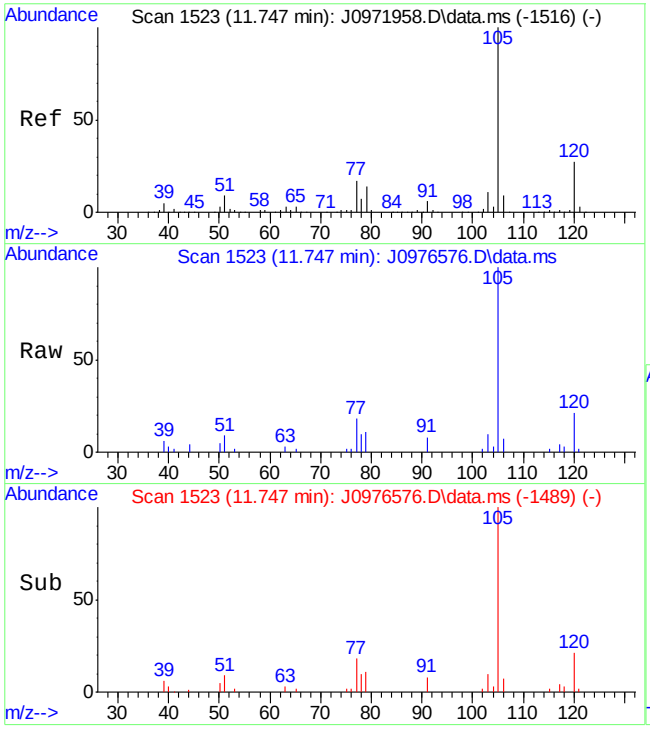


#71
Chlorobenzene
Concen: 0.39 ug/L
RT: 10.865 min Scan# 1378
Delta R.T. 0.001 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion:112 Resp: 6792

Ion	Ratio	Lower	Upper
112	100		
77	97.2	39.9	99.9
114	43.6	2.6	62.6
51	41.5	0.2	60.2

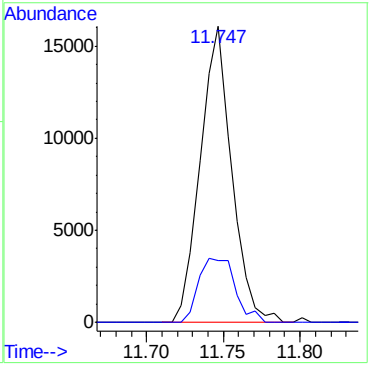


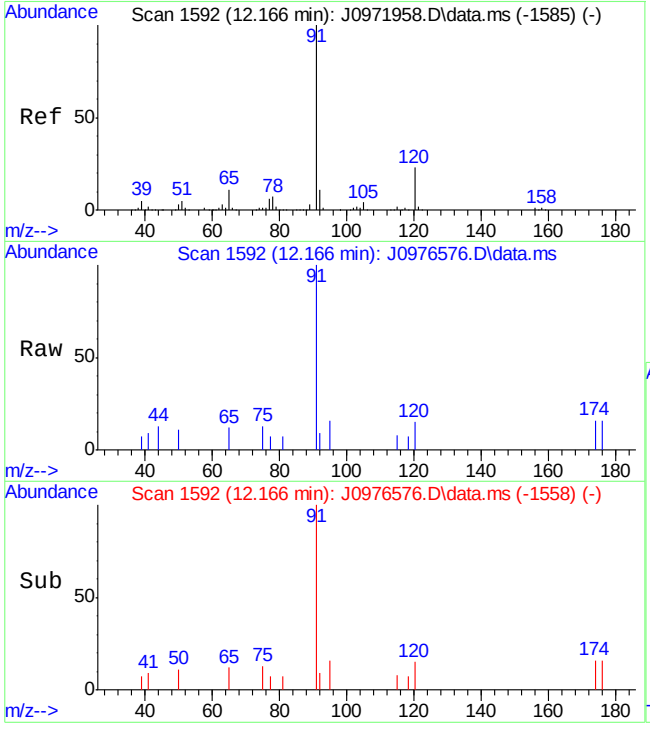


#77
Isopropylbenzene
Concen: 0.82 ug/L
RT: 11.747 min Scan# 1523
Delta R.T. 0.007 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion:105 Resp: 22906

Ion	Ratio	Lower	Upper
105	100		
120	21.0	0.0	58.1

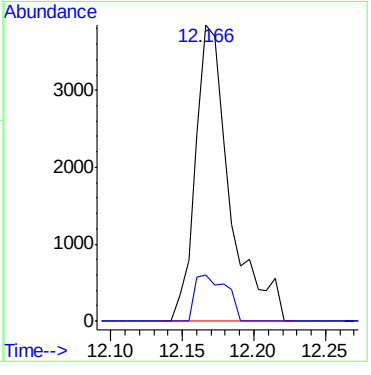


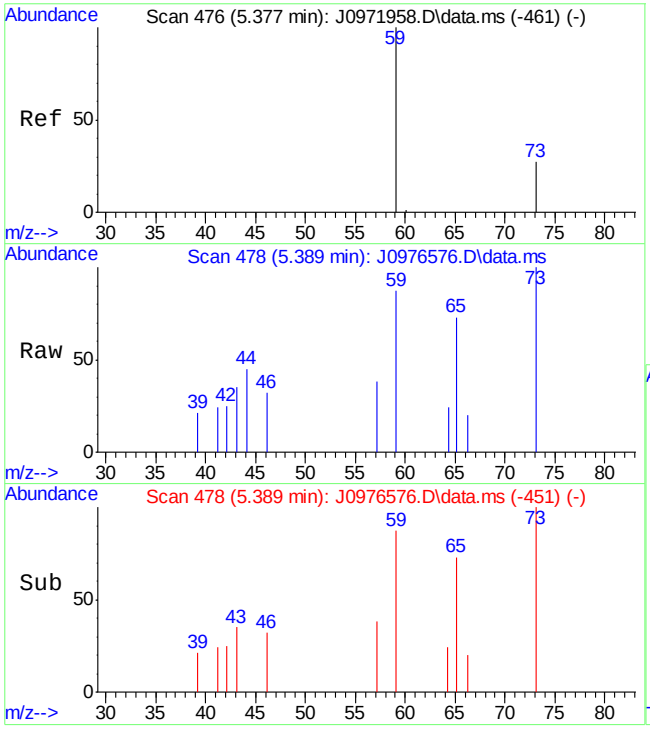


#81
n-Propylbenzene
Concen: 0.20 ug/L
RT: 12.166 min Scan# 1592
Delta R.T. 0.006 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion: 91 Resp: 6423

Ion	Ratio	Lower	Upper
91	100		
120	15.4	0.0	54.6

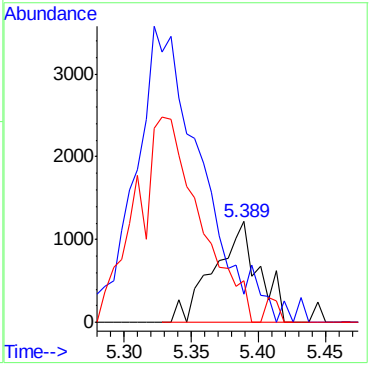


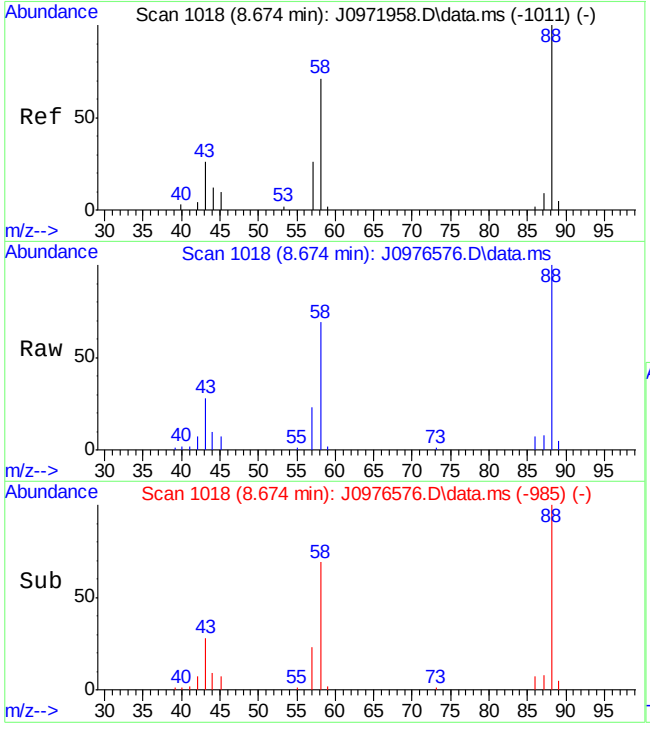


#109
Tert Butyl Alcohol
Concen: 8.35 ug/L
RT: 5.389 min Scan# 478
Delta R.T. 0.012 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion: 59 Resp: 2811

Ion	Ratio	Lower	Upper
59	100		
41	28.0	28.8	68.8#
43	40.7	19.1	59.1

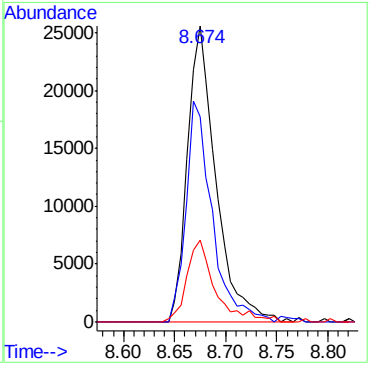




#112
1,4-Dioxane
Concen: 1405.39 ug/L
RT: 8.674 min Scan# 1018
Delta R.T. 0.000 min
Lab File: J0976576.D
Acq: 17 May 2016 5:42 pm

Tgt Ion: 88 Resp: 49373

Ion	Ratio	Lower	Upper
88	100		
58	69.5	34.8	94.8
43	27.6	0.0	53.3



Manual Integration Approval Summary

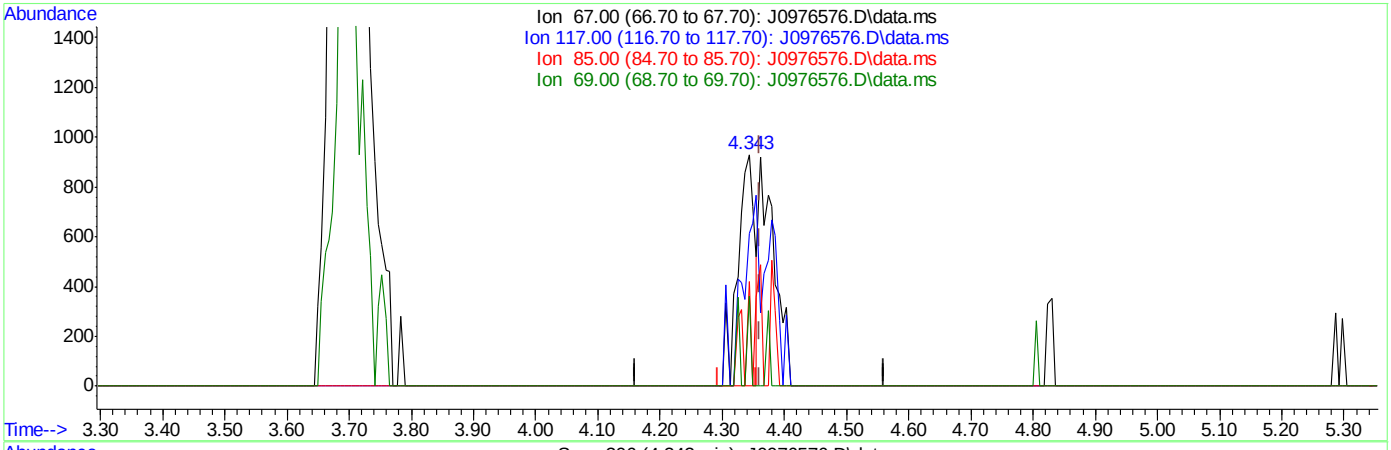
Sample Number:	FA33998-1	**Method:**	SW846 8260C
Lab FileID:	J0976576.D	**Analyst approved:**	05/18/16 09:47 Darshna Patel
Injection Time:	05/17/16 17:42	**Supervisor approved:**	05/18/16 10:40 Juan Garcia

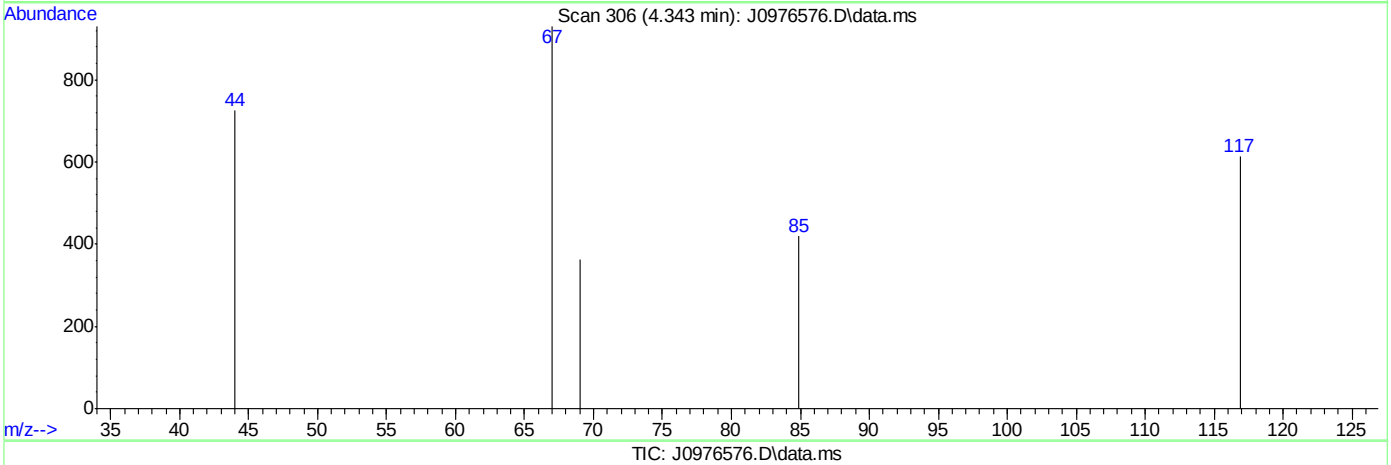
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichlorotrifluoroethane	354-23-4		4.34	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976576.D
Acq On : 17 May 2016 5:42 pm
Operator : darshnap
Sample : fa33998-1 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 18 08:10:00 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976576.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.343min (-0.018) 0.28ug/L

response 1779

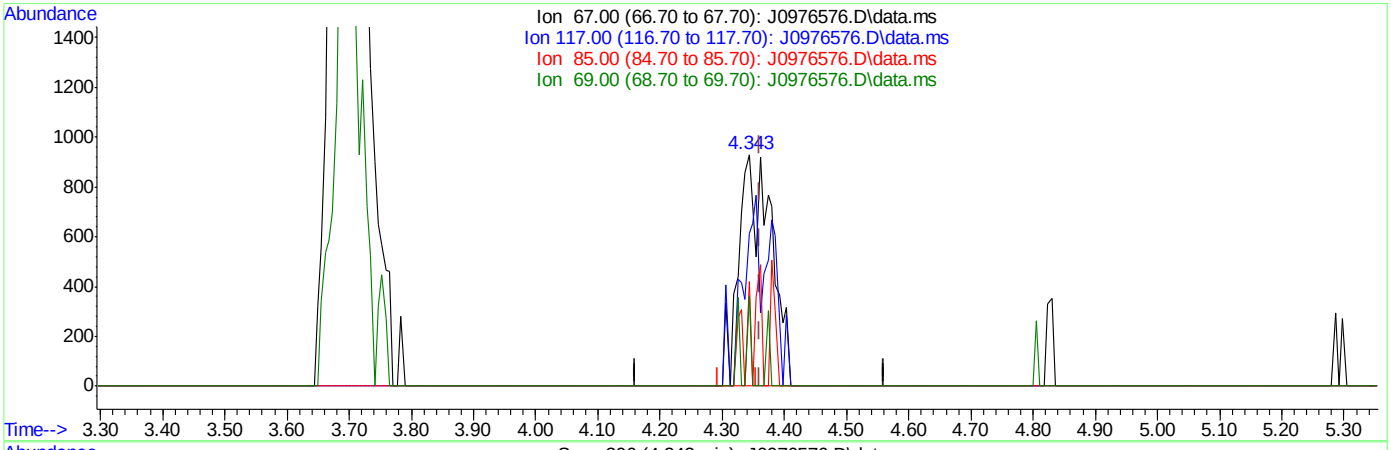
Ion	Exp%	Act%
67.00	100	100
117.00	67.10	65.91
85.00	42.30	45.16
69.00	32.90	38.92

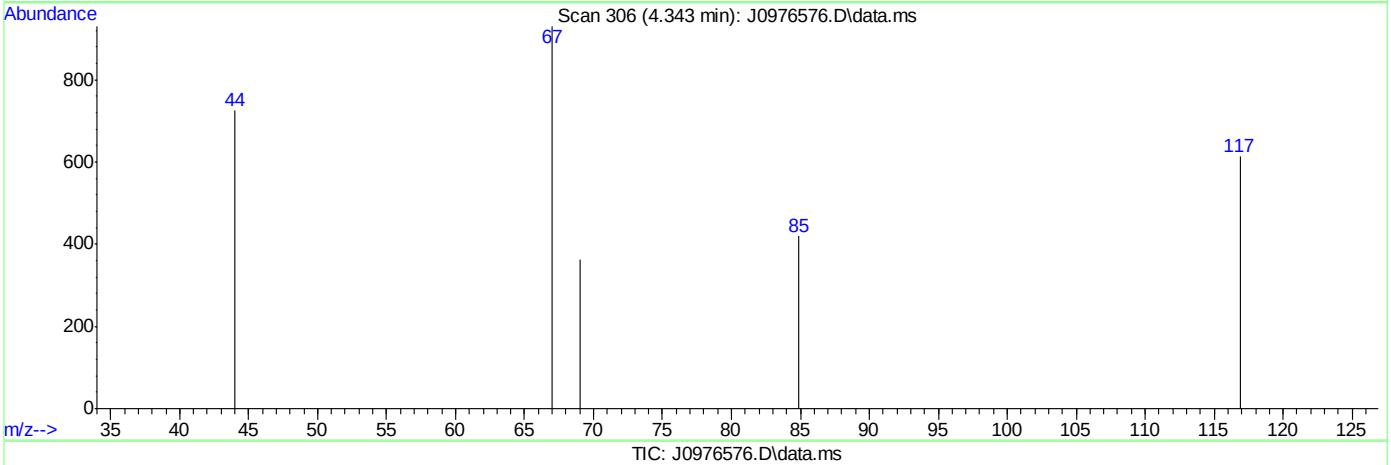
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976576.D
Acq On : 17 May 2016 5:42 pm
Operator : darshnap
Sample : fa33998-1 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 18 08:10:00 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976576.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.343min (-0.018) 0.53ug/L m

response 3386

Ion	Exp%	Act%
67.00	100	100
117.00	67.10	65.91
85.00	42.30	45.16
69.00	32.90	38.92

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28636.D
Acq On : 17 May 2016 4:28 pm
Operator : angied
Sample : FA33998-2 MA Inst : MSVOA14
Misc : MS33901,VY1158,5.47,,,5,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 17 17:00:03 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.124	96	954898	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.312	117	730605	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	343012	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.630	65	108098	250.00	ug/Kg	-0.02

System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	239635	54.51	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.02%			
44) 1,2-Dichloroethane-d4	6.820	65	272322	58.38	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 116.76%			
55) Toluene-d8	8.742	98	966231	46.93	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 93.86%			
77) 4-Bromofluorobenzene	11.534	174	244016	52.21	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 104.42%			

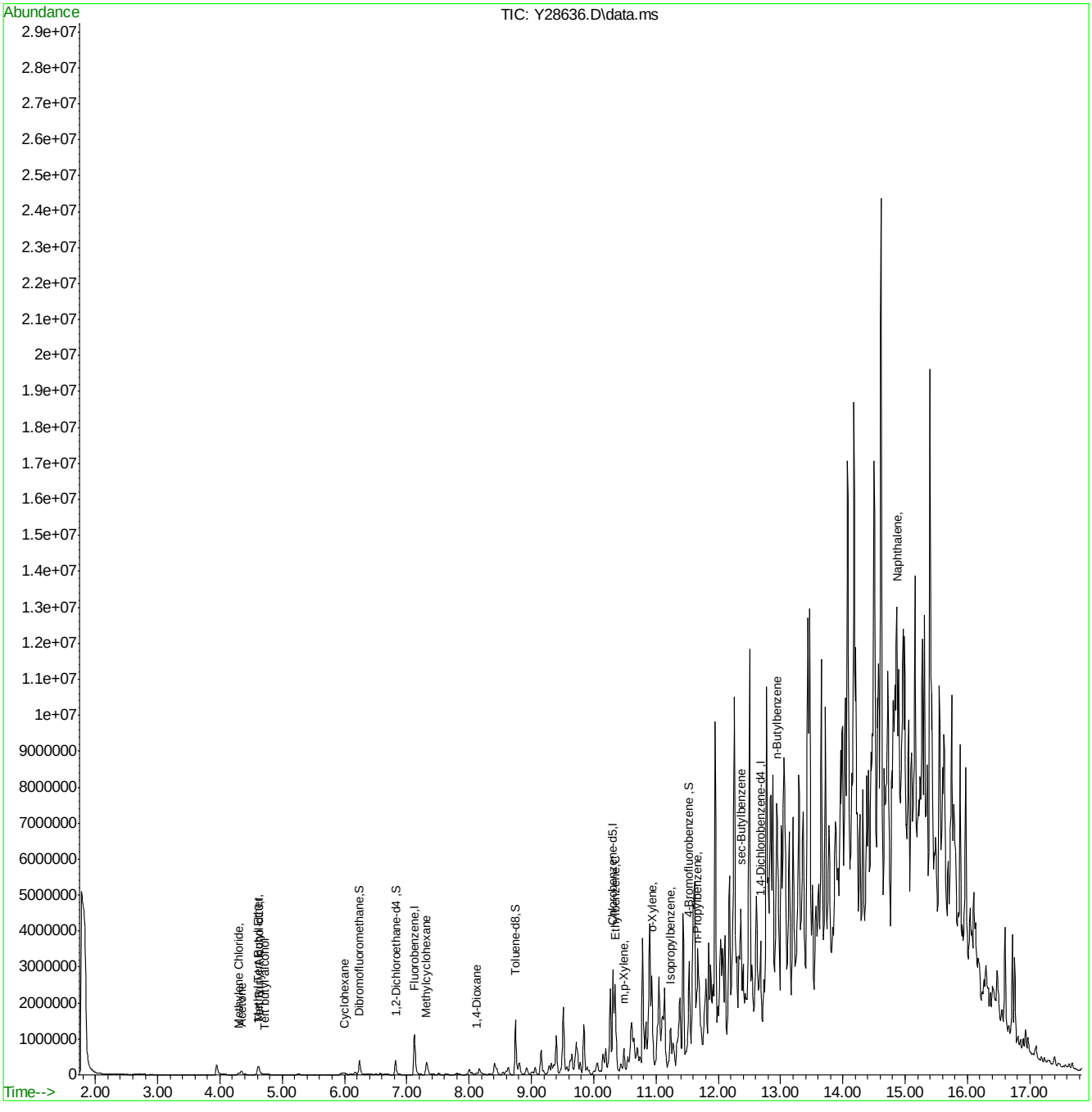
Target Compounds						Qvalue
15) Methylene Chloride	4.295	49	38376	4.66	ug/Kg	96
16) Acetone	4.350	43	142104	87.92	ug/Kg	91
20) Methyl Tert Butyl Ether	4.611	73	212711	13.24	ug/Kg#	24
31) Cyclohexane	5.998	84	15892	1.34	ug/Kg#	75
47) Methylcyclohexane	7.318	83	141723	10.88	ug/Kg	90
68) Ethylbenzene	10.342	91	1291290	41.95	ug/Kg	96
71) m,p-Xylene	10.488	91	220806	9.99	ug/Kg	95
72) o-Xylene	10.926	91	75160	3.16	ug/Kg	95
75) Isopropylbenzene	11.230	105	414217	14.27	ug/Kg	100
79) n-Propylbenzene	11.656	91	565684	16.94	ug/Kg	94
91) sec-Butylbenzene	12.362	105	838336	25.42	ug/Kg	90
95) n-Butylbenzene	12.940	92	670272	42.49	ug/Kg#	62
101) Naphthalene	14.874	128	1356471	71.98	ug/Kg	97
106) Tert butyl alcohol	4.715	59	7875	12.72	ug/Kg	68
109) 1,4-Dioxane	8.121	88	50973	840.16	ug/Kg	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

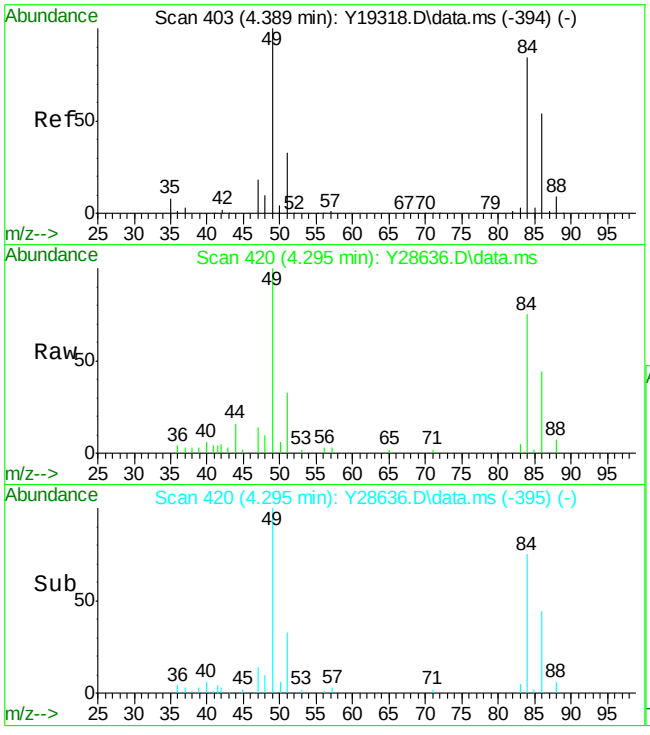
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28636.D
Acq On : 17 May 2016 4:28 pm
Operator : angied
Sample : FA33998-2 MA Inst : MSVOA14
Misc : MS33901,VY1158,5.47,,,5,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 17 17:00:03 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



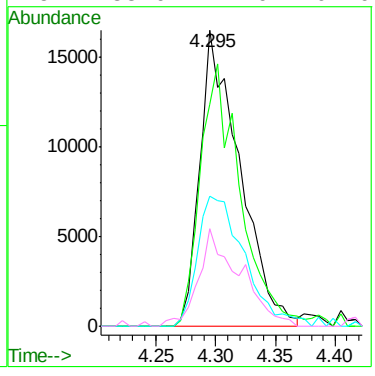
050616APP9-Y.m Wed May 18 11:14:41 2016 Page: 2

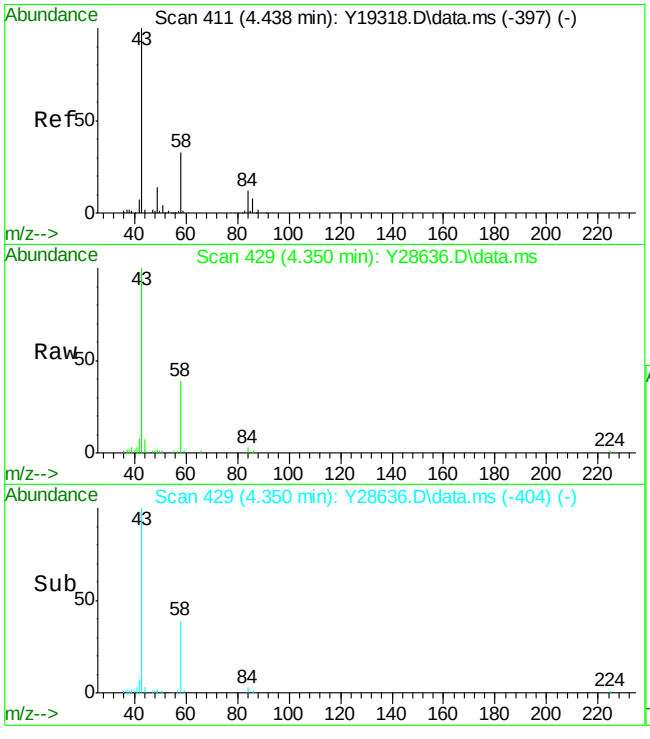


#15
Methylene Chloride
Concen: 4.66 ug/Kg
RT: 4.295 min Scan# 420
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 49 Resp: 38376

Ion	Ratio	Lower	Upper
49	100		
84	75.1	45.9	105.9
86	44.0	19.4	79.4
51	33.0	1.0	61.0

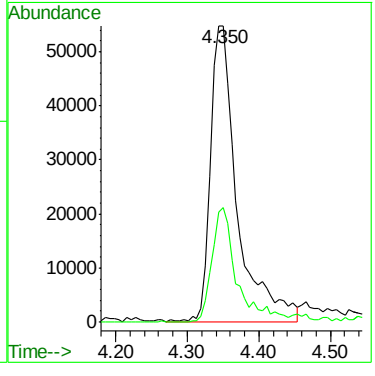




#16
Acetone
Concen: 87.92 ug/Kg
RT: 4.350 min Scan# 429
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

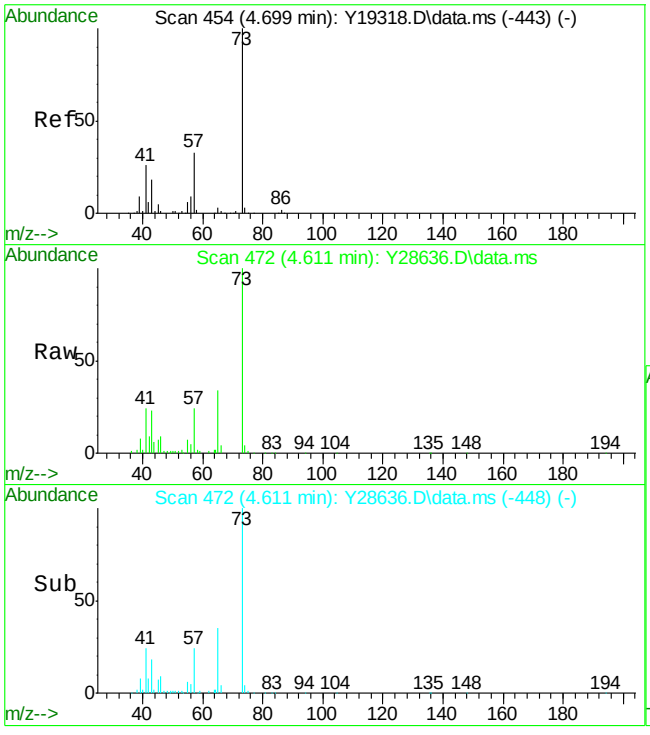
Tgt Ion: 43 Resp: 142104

Ion	Ratio	Lower	Upper
43	100		
58	38.8	3.5	63.5



7.1.2

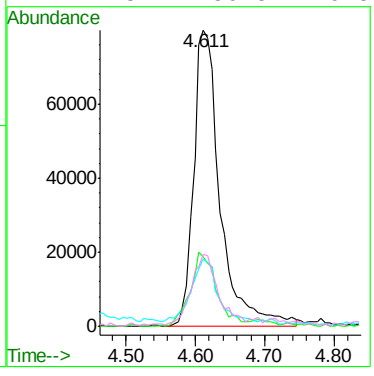
7

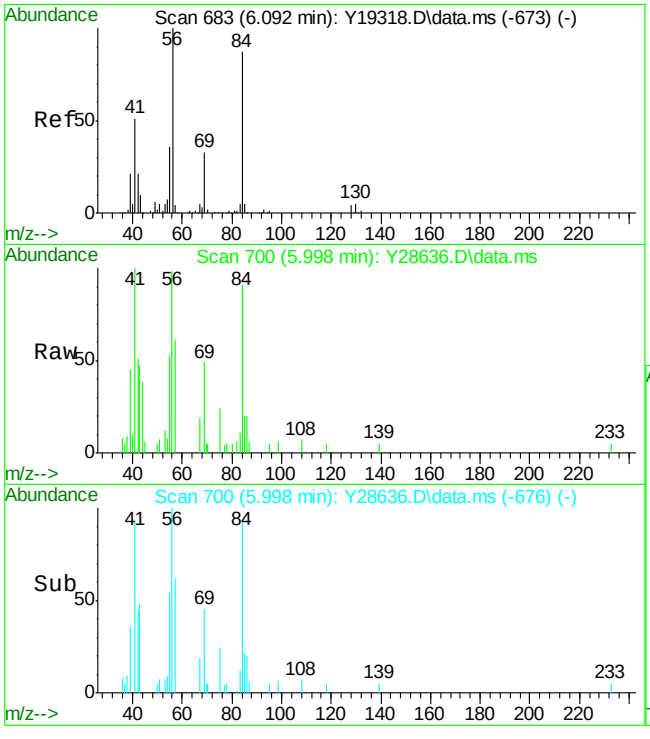


#20
Methyl Tert Butyl Ether
Concen: 13.24 ug/Kg
RT: 4.611 min Scan# 472
Delta R.T. -0.005 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 73 Resp: 212711

Ion	Ratio	Lower	Upper
73	100		
57	23.7	90.7	150.7#
43	21.7	54.9	114.9#
41	23.7	56.5	116.5#

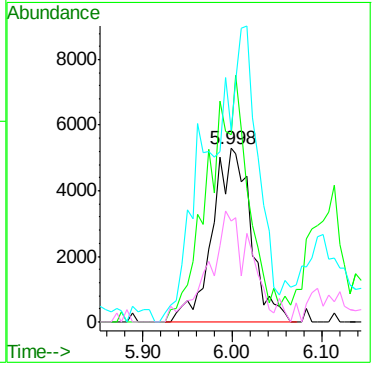


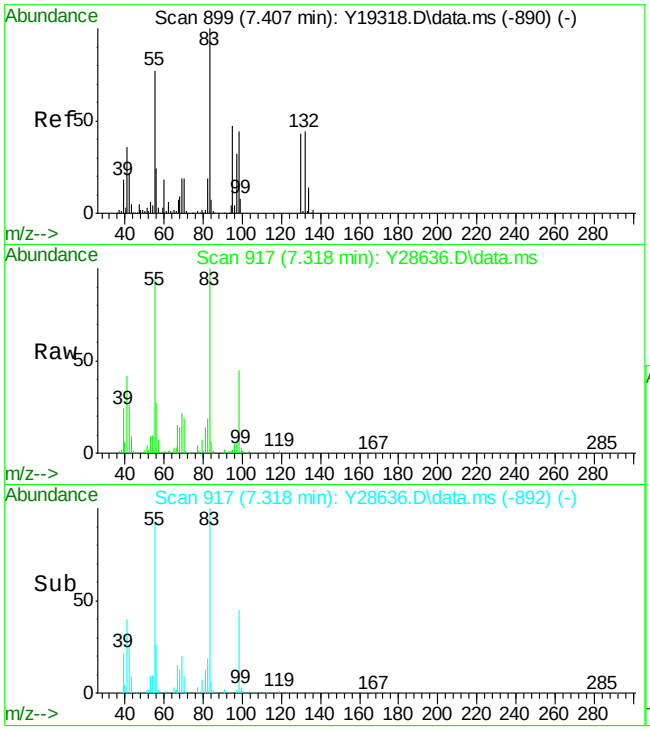


#31
Cyclohexane
Concen: 1.34 ug/Kg
RT: 5.998 min Scan# 700
Delta R.T. -0.005 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 84 Resp: 15892

Ion	Ratio	Lower	Upper
84	100		
56	108.3	89.7	149.7
41	105.1	32.5	92.5#
55	58.3	12.8	72.8

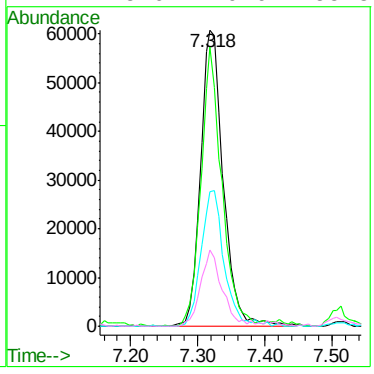


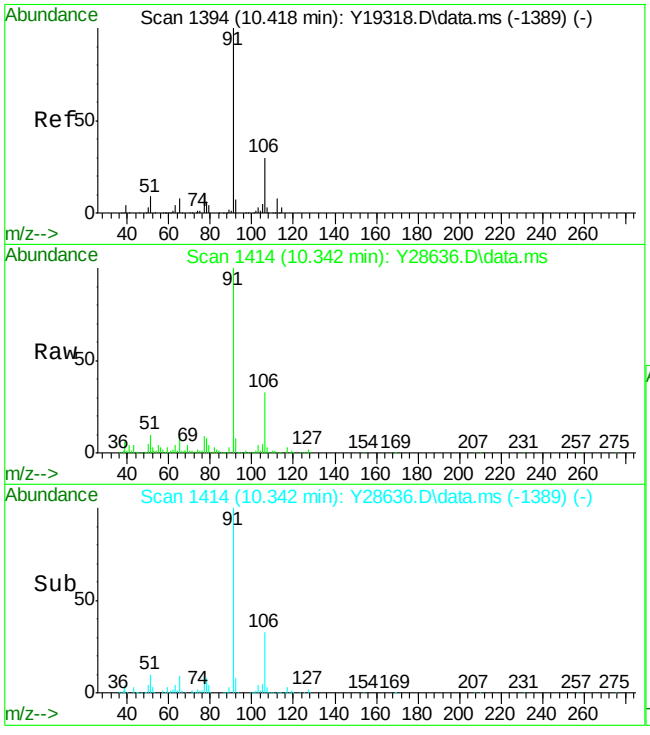


#47
Methylcyclohexane
Concen: 10.88 ug/Kg
RT: 7.318 min Scan# 917
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 83 Resp: 141723

Ion	Ratio	Lower	Upper
83	100		
55	93.9	48.4	108.4
98	45.3	16.4	76.4
42	25.9	0.0	55.3

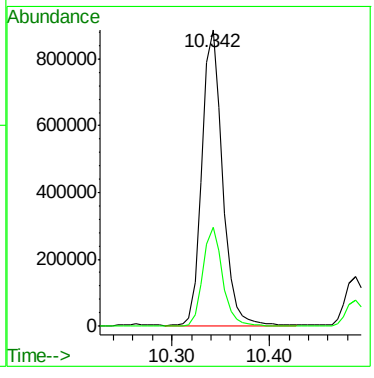


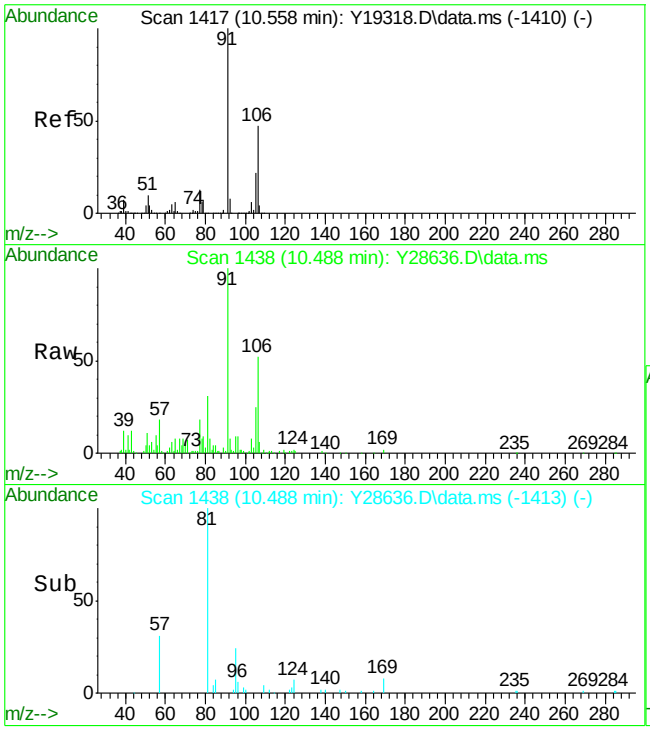


#68
Ethylbenzene
Concen: 41.95 ug/Kg
RT: 10.342 min Scan# 1414
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 91 Resp: 1291290

Ion	Ratio	Lower	Upper
91	100		
106	33.3	1.0	61.0

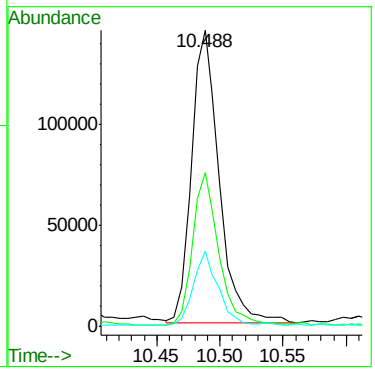


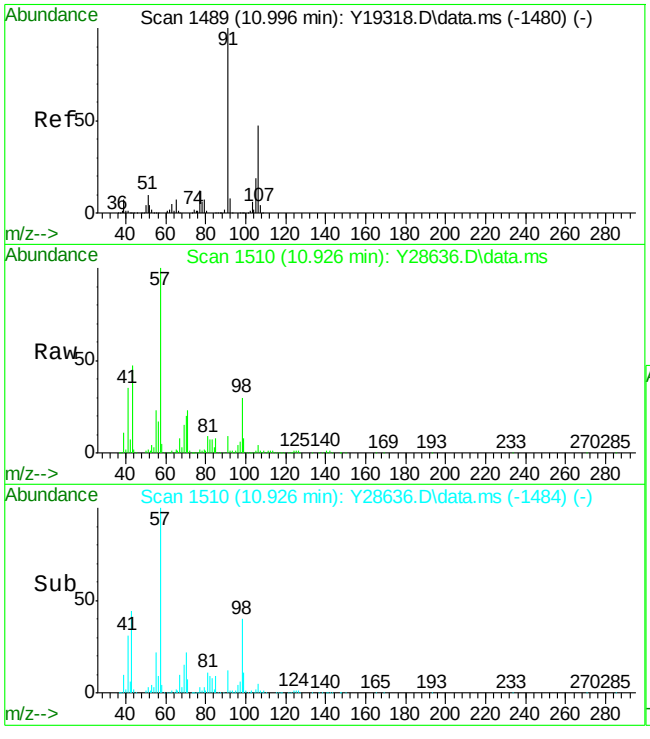


#71
m,p-Xylene
Concen: 9.99 ug/Kg
RT: 10.488 min Scan# 1438
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 91 Resp: 220806

Ion	Ratio	Lower	Upper
91	100		
106	52.0	18.7	78.7
105	25.3	0.0	52.0

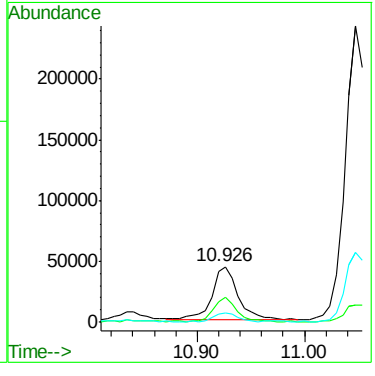


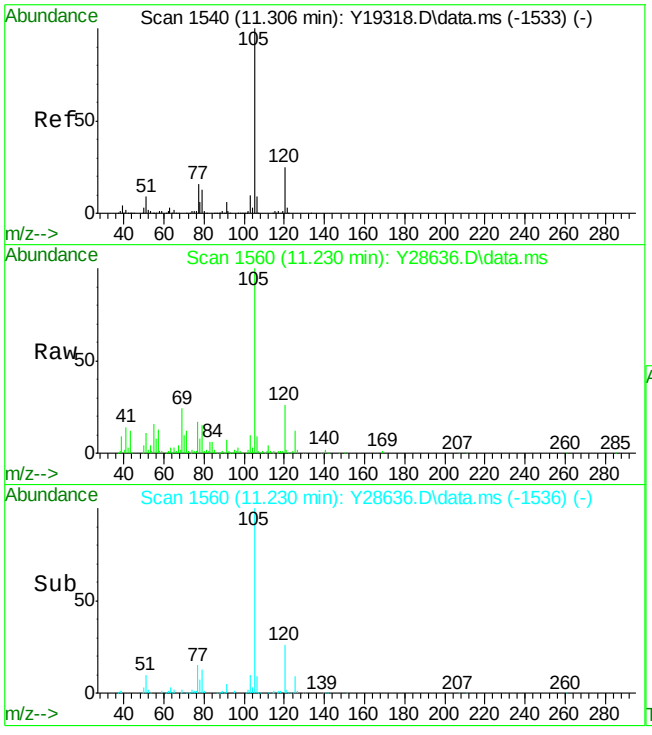


#72
o-Xylene
Concen: 3.16 ug/Kg
RT: 10.926 min Scan# 1510
Delta R.T. 0.008 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 91 Resp: 75160

Ion	Ratio	Lower	Upper
91	100		
106	44.8	17.3	77.3
105	16.1	0.0	49.7

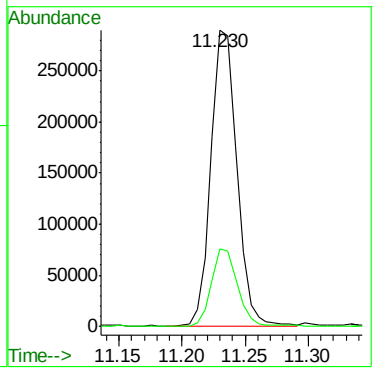


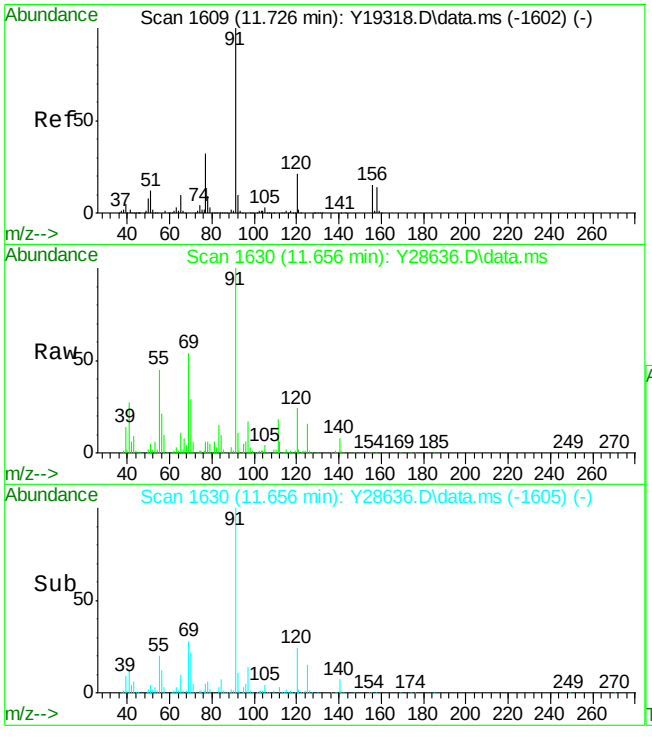


#75
Isopropylbenzene
Concen: 14.27 ug/Kg
RT: 11.230 min Scan# 1560
Delta R.T. -0.005 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion:105 Resp: 414217

Ion	Ratio	Lower	Upper
105	100		
120	26.3	0.0	56.2

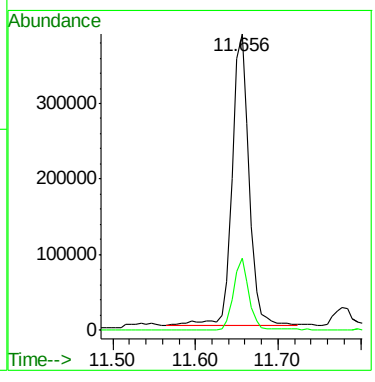


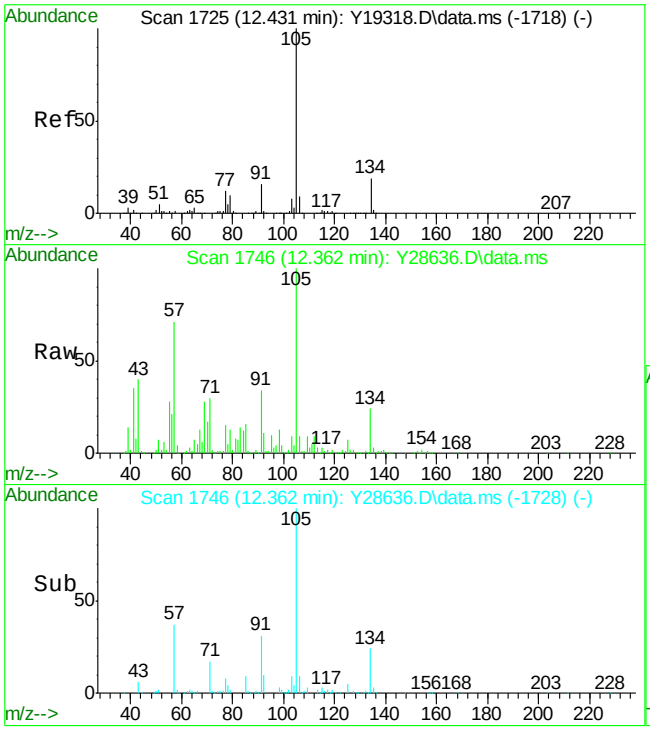


#79
n-Propylbenzene
Concen: 16.94 ug/Kg
RT: 11.656 min Scan# 1630
Delta R.T. 0.002 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 91 Resp: 565684

Ion	Ratio	Lower	Upper
91	100		
120	24.6	0.0	51.9

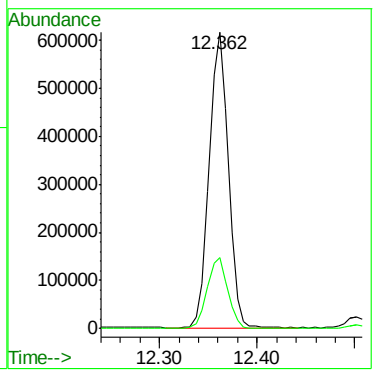


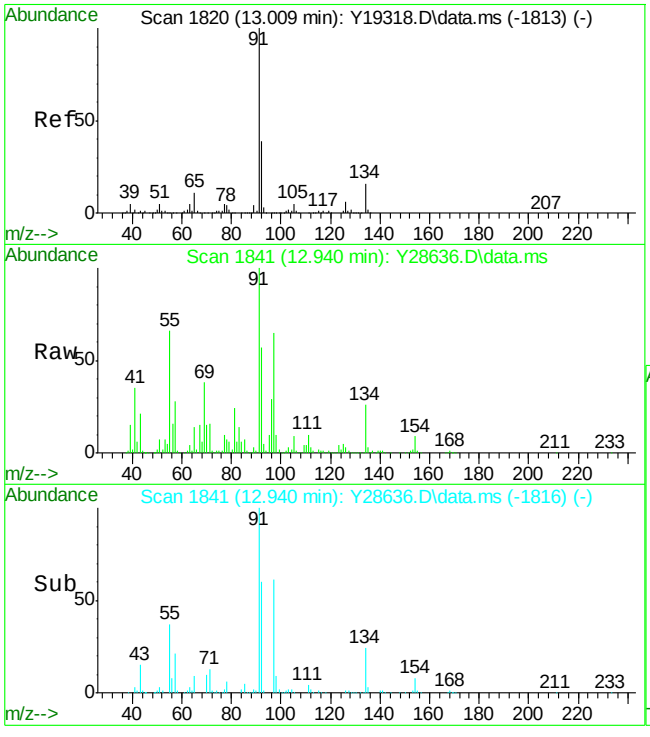


#91
sec-Butylbenzene
Concen: 25.42 ug/Kg
RT: 12.362 min Scan# 1746
Delta R.T. 0.002 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion:105 Resp: 838336

Ion	Ratio	Lower	Upper
105	100		
134	23.9	0.0	49.2

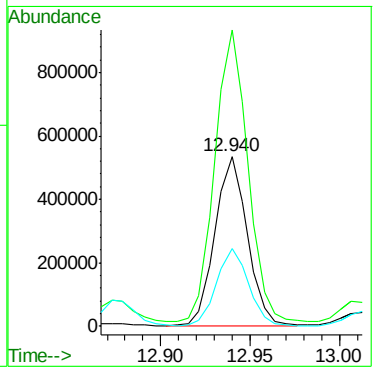


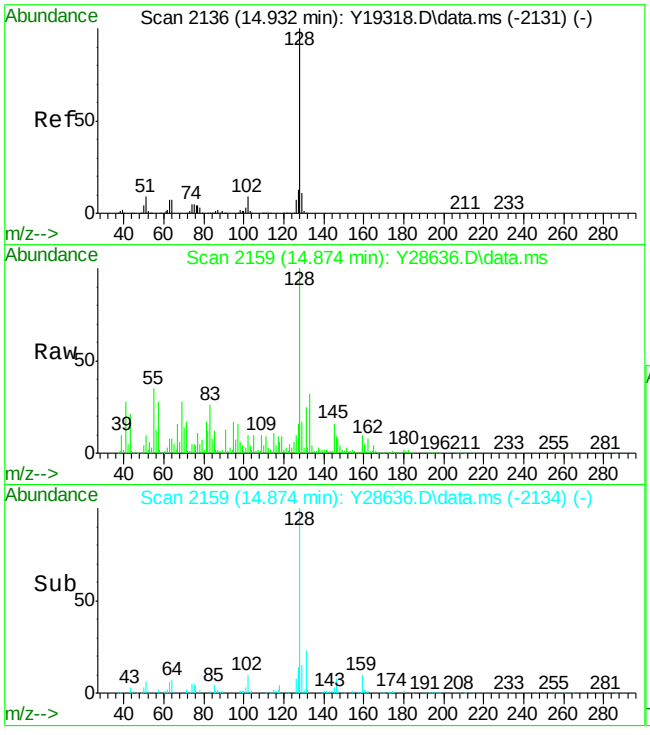


#95
n-Butylbenzene
Concen: 42.49 ug/Kg
RT: 12.940 min Scan# 1841
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 92 Resp: 670272

Ion	Ratio	Lower	Upper
92	100		
91	172.4	197.1	297.1#
134	45.3	12.0	72.0

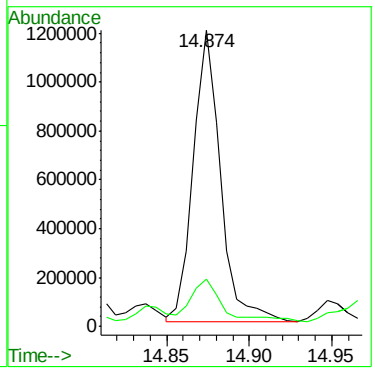


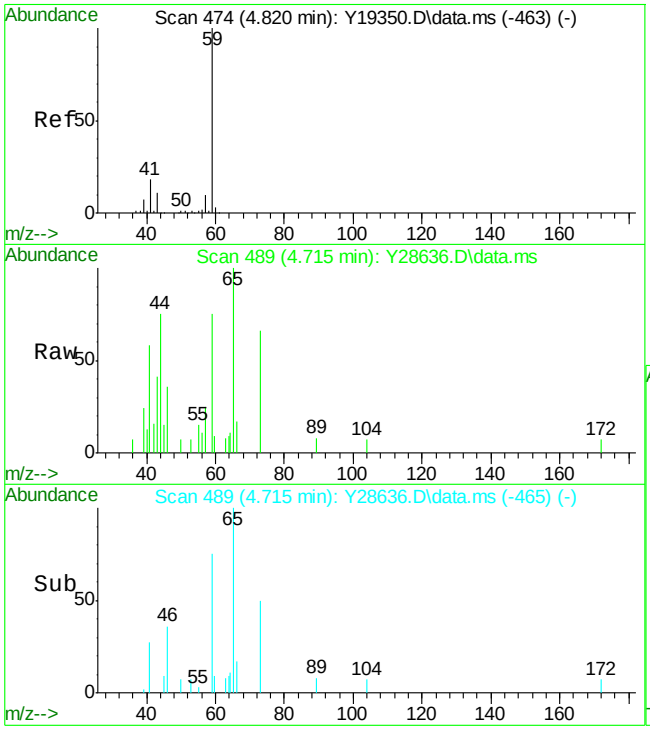


#101
Naphthalene
Concen: 71.98 ug/Kg
RT: 14.874 min Scan# 2159
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion:128 Resp: 1356471

Ion	Ratio	Lower	Upper
128	100		
127	14.1	0.0	43.1

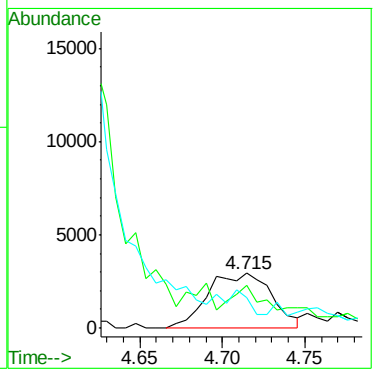


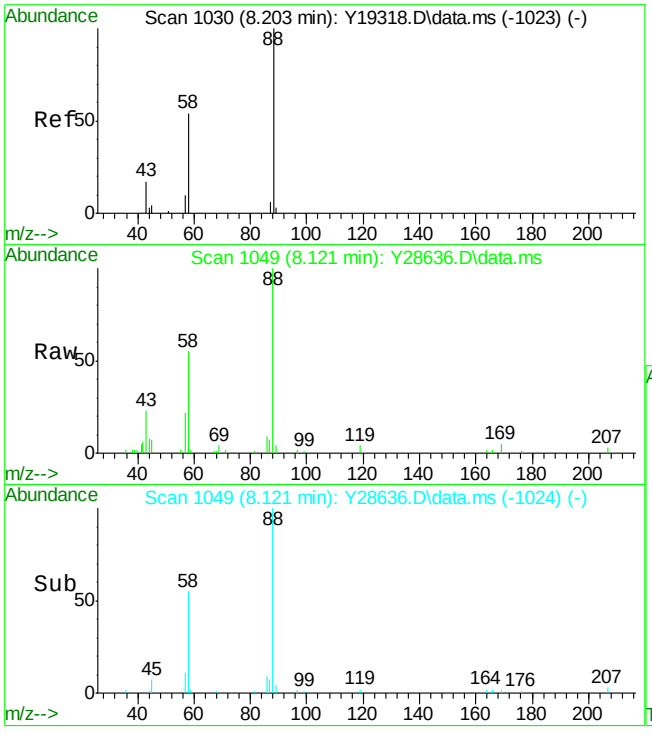


#106
Tert butyl alcohol
Concen: 12.72 ug/Kg
RT: 4.715 min Scan# 489
Delta R.T. -0.005 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 59 Resp: 7875

Ion	Ratio	Lower	Upper
59	100		
41	40.5	0.0	49.2
43	25.4	0.0	48.1

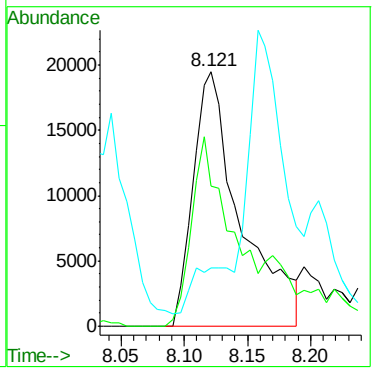




#109
1,4-Dioxane
Concen: 840.16 ug/Kg
RT: 8.121 min Scan# 1049
Delta R.T. 0.001 min
Lab File: Y28636.D
Acq: 17 May 2016 4:28 pm

Tgt Ion: 88 Resp: 50973

Ion	Ratio	Lower	Upper
88	100		
58	55.1	40.2	100.2
43	16.6	0.0	52.3



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976577.D
Acq On : 17 May 2016 6:05 pm
Operator : darshnap
Sample : fa33998-3 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 18 08:19:52 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1040302	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	794537	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	417300	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	65643	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	262887	50.44	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.88%			
46) 1,2-Dichloroethane-d4	7.482	65	319339	52.40	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.80%			
57) Toluene-d8	9.301	98	1074370	52.50	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.00%			
79) 4-Bromofluorobenzene	12.057	95	396304	52.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.18%			

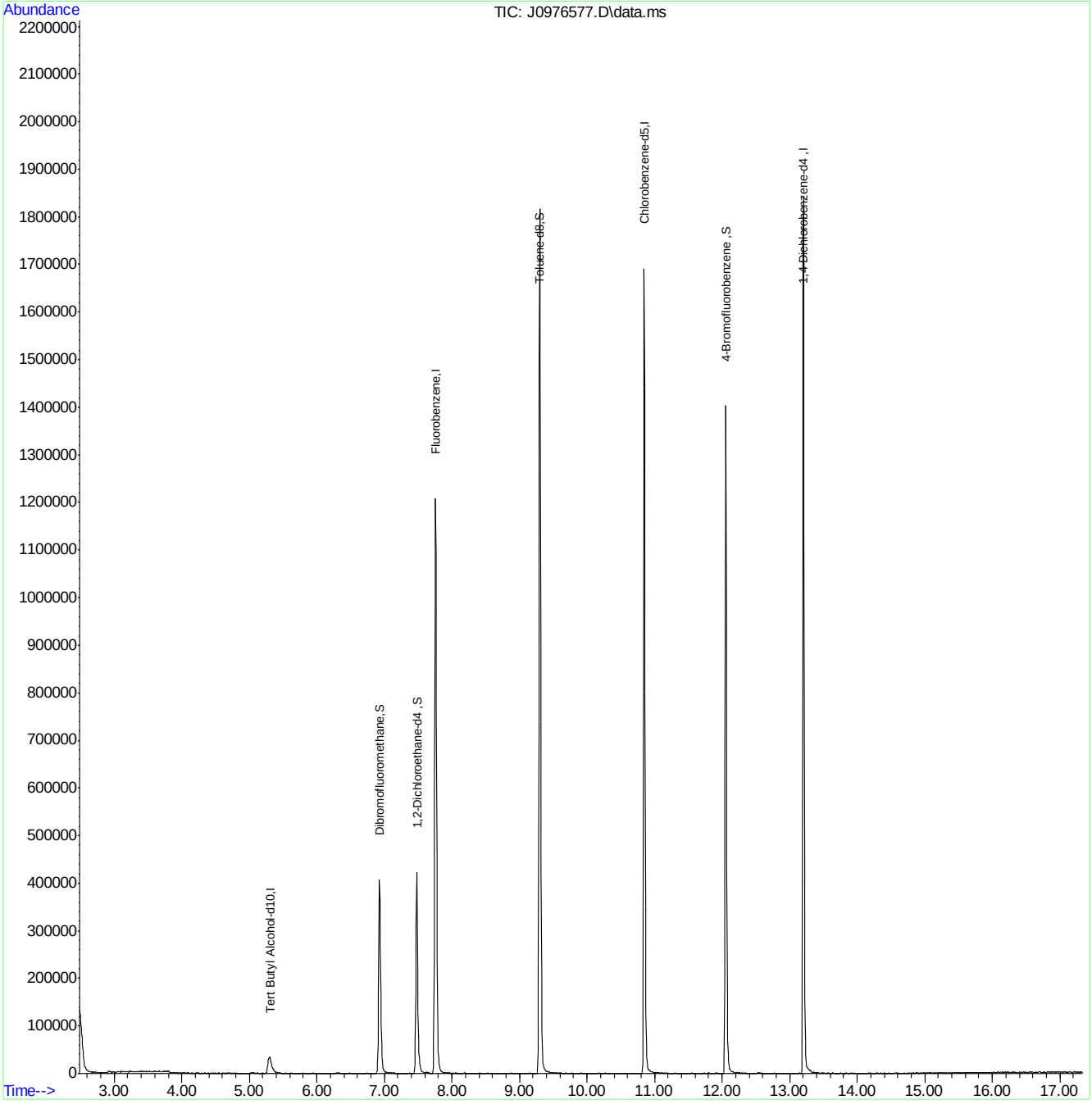
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976577.D
Acq On : 17 May 2016 6:05 pm
Operator : darshnap
Sample : fa33998-3 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 18 08:19:52 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



MSJ051216a.M Wed May 18 08:26:18 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976578.D
Acq On : 17 May 2016 6:27 pm
Operator : darshnap
Sample : fa33998-4 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 18 08:20:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1047575	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	801513	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	411020	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	59884	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	266725	50.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.64%			
46) 1,2-Dichloroethane-d4	7.476	65	322171	52.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.00%			
57) Toluene-d8	9.301	98	1071545	51.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.82%			
79) 4-Bromofluorobenzene	12.057	95	398165	53.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.26%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.4

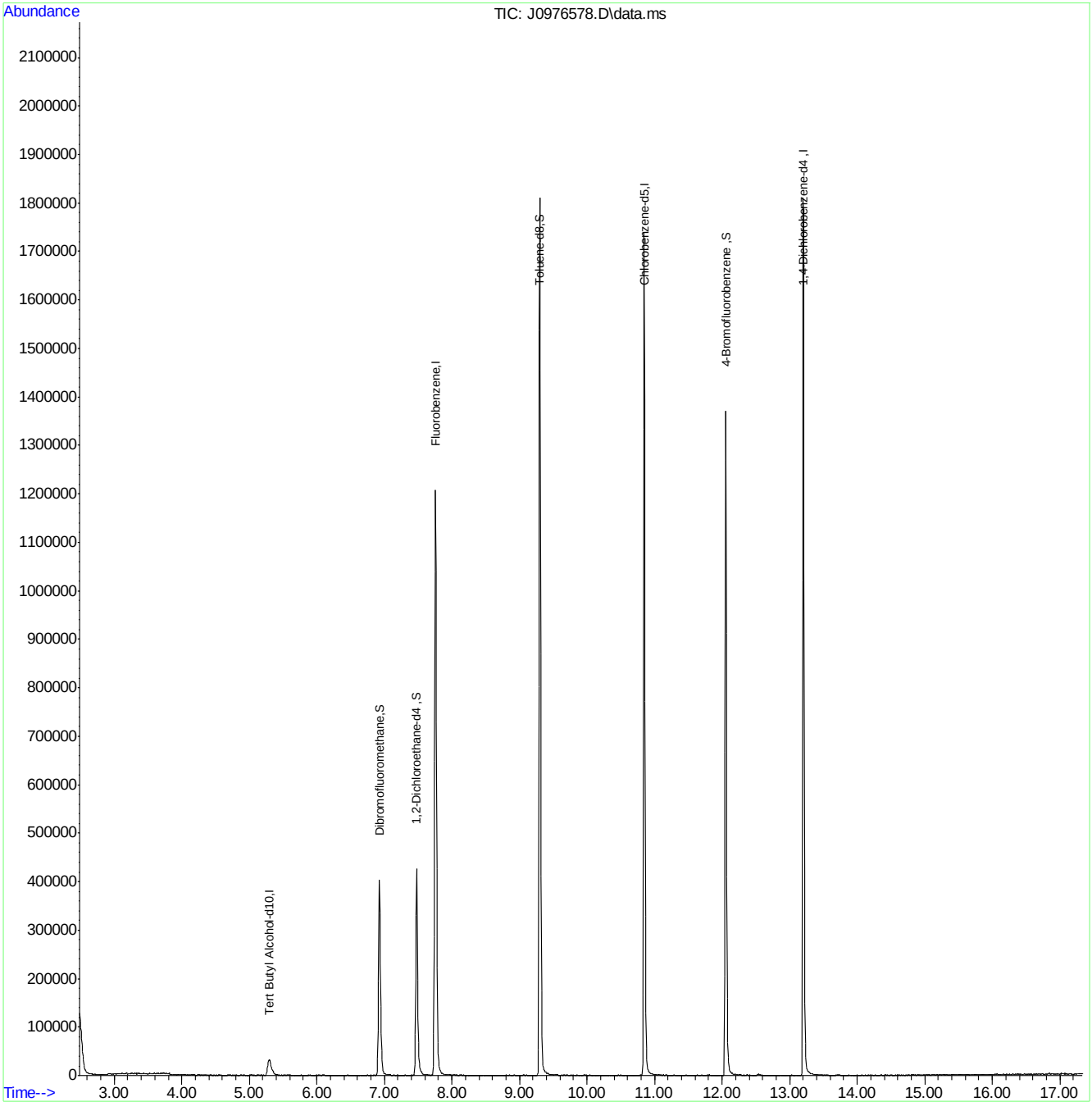
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976578.D
Acq On : 17 May 2016 6:27 pm
Operator : darshnap
Sample : fa33998-4 ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 18 08:20:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976557.D
Acq On : 17 May 2016 9:55 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 13:46:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1187199	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	892675	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	468767	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	72407	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	300643	50.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.08%			
46) 1,2-Dichloroethane-d4	7.476	65	355502	51.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.24%			
57) Toluene-d8	9.301	98	1197157	52.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.14%			
79) 4-Bromofluorobenzene	12.051	95	441131	51.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.22%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1

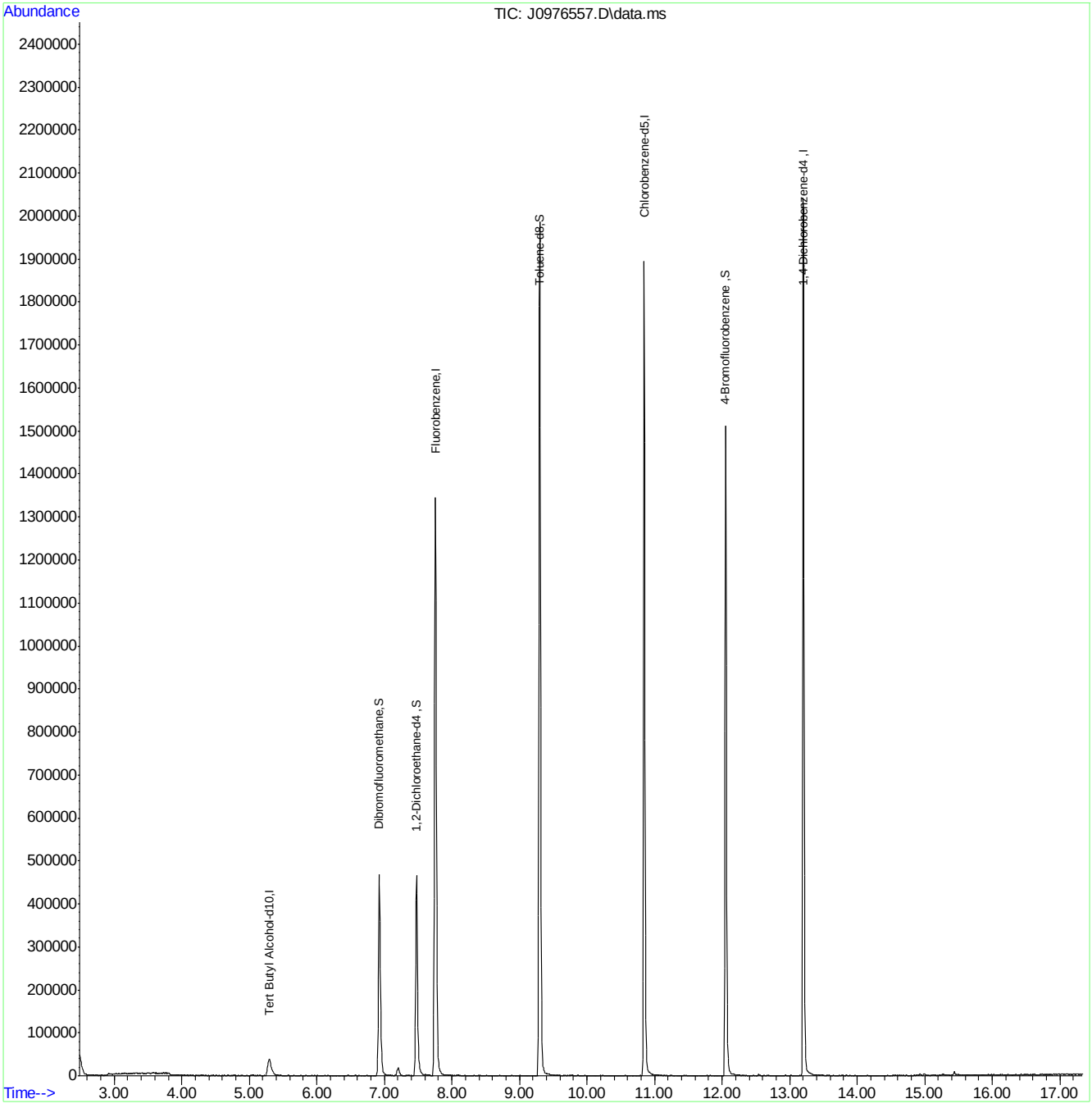
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976557.D
Acq On : 17 May 2016 9:55 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 13:46:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28624.D
Acq On : 17 May 2016 11:11 am
Operator : angied
Sample : MB MA Inst : MSVOA14
Misc : MS33901,VY1158,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 12:03:47 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.118	96	1127177	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.312	117	733325	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.679	152	313201	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.655	65	140458	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	256618	49.45	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.90%			
44) 1,2-Dichloroethane-d4	6.820	65	301391	54.73	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 109.46%			
55) Toluene-d8	8.743	98	1047678	50.70	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.40%			
77) 4-Bromofluorobenzene	11.535	174	232448	54.47	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 108.94%			

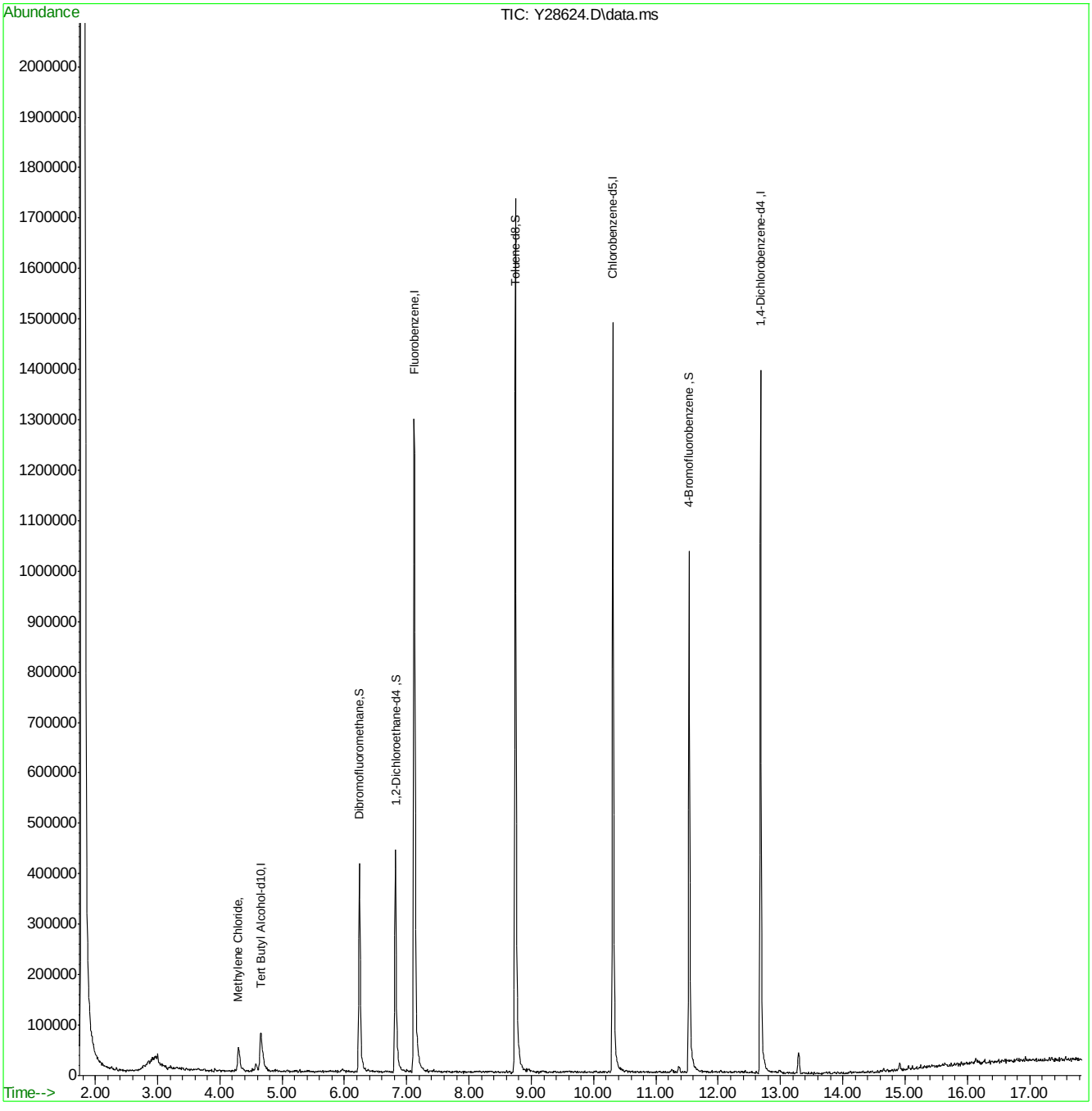
Target Compounds						Qvalue
15) Methylene Chloride	4.296	49	38966	4.01	ug/Kg	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28624.D
Acq On : 17 May 2016 11:11 am
Operator : angied
Sample : MB MA Inst : MSVOA14
Misc : MS33901,VY1158,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 12:03:47 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/18/16 10:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:35 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1298495	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1014928	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	574996	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	85106	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	323246	49.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.36%			
46) 1,2-Dichloroethane-d4	7.476	65	372765	49.01	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.02%			
57) Toluene-d8	9.301	98	1314888	50.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.60%			
79) 4-Bromofluorobenzene	12.051	95	530951	50.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	144274	28.36	ug/L	95
3) Chloromethane	2.895	50	191600	28.81	ug/L	97
4) Vinyl Chloride	3.035	62	204608	28.03	ug/L	99
5) 1,3-Butadiene	3.017	54	3531	19.63	ug/L #	56
6) Bromomethane	3.461	94	128343	28.14	ug/L	95
7) Chloroethane	3.619	64	98355	29.65	ug/L	98
8) Trichlorofluoromethane	3.844	101	284889m	30.65	ug/L	
9) Ethyl Ether	4.118	59	117832	22.78	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.367	67	211871	26.73	ug/L	96
11) 1,1-Dichloroethene	4.398	61	270149	28.20	ug/L	98
12) Freon 113	4.465	101	163660	24.71	ug/L	97
13) Carbon Disulfide	4.477	76	563292	26.20	ug/L	99
14) Iodomethane	4.586	142	259853	24.42	ug/L	98
15) Allyl chloride	4.927	41	218714	26.65	ug/L	96
16) Methylene Chloride	5.049	49	220339	25.15	ug/L	98
17) Acetone	5.073	58	42971	107.72	ug/L	96
18) Methyl acetate	5.195	74	83995	111.92	ug/L	95
19) trans-1,2-Dichloroethene	5.231	61	294971	33.33	ug/L	96
20) Hexane	5.304	56	157703	25.61	ug/L	99
21) Methyl Tert Butyl Ether	5.335	73	410870	21.58	ug/L	88
22) Acetonitrile	5.590	40	62496	256.20	ug/L	90
23) Di-isopropyl ether	5.718	45	475653	22.55	ug/L	98
24) Chloroprene	5.870	53	241609	28.16	ug/L	98
25) 1,1-Dichloroethane	5.900	63	322906	27.01	ug/L	97
26) Acrylonitrile	5.925	53	208581	131.96	ug/L	94
27) ETBE	6.119	59	483913	22.41	ug/L	98
28) Vinyl acetate	6.107	43	1143340	117.77	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	214042	28.07	ug/L	99
30) 2,2-Dichloropropane	6.600	77	265918	26.68	ug/L	98
31) Bromochloromethane	6.685	128	79493	22.19	ug/L	95
32) Cyclohexane	6.734	56	302183	27.04	ug/L	99
33) Chloroform	6.740	83	375711	28.74	ug/L	100
34) Ethyl acetate	6.807	43	434163	120.51	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:35 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	25953	23.71 ug/L	89
37) Carbon Tetrachloride	6.935	117	259430m	25.59 ug/L	
38) 1,1,1-Trichloroethane	6.989	97	331142	28.34 ug/L	98
39) 2-Butanone	7.026	43	194217	113.57 ug/L	99
40) 1,1-Dichloropropene	7.105	75	230916	25.38 ug/L	99
41) tert-Butyl Formate	7.184	59	729781	169.23 ug/L	97
42) Propionitrile	7.330	54	148584	256.92 ug/L #	73
43) Methacrylonitrile	7.360	41	652355	270.73 ug/L	98
44) Benzene	7.360	78	723217	24.83 ug/L	97
45) TAME	7.433	73	431280	21.62 ug/L	97
47) 1,2-Dichloroethane	7.549	62	251991	27.01 ug/L	97
48) Trichloroethene	7.938	95	216787	29.74 ug/L	97
49) Methylcyclohexane	7.957	83	351800	28.00 ug/L	95
50) Dibromomethane	8.364	93	95507	23.43 ug/L	96
51) 1,2-Dichloropropane	8.449	63	172651	24.30 ug/L	97
52) Bromodichloromethane	8.492	83	261211	27.82 ug/L	94
53) Methyl methacrylate	8.595	41	89383	25.27 ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	440986	125.83 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	262966	24.18 ug/L	97
58) Toluene	9.350	91	772590	25.31 ug/L	99
59) 2-Nitropropane	9.557	41	120229	107.47 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	472424	104.25 ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	243438	26.22 ug/L	96
62) Tetrachloroethene	9.757	166	227809	29.98 ug/L	98
63) Ethyl methacrylate	9.842	69	146522	21.46 ug/L	94
64) 1,1,2-Trichloroethane	9.903	83	139755	28.07 ug/L	95
65) Dibromochloromethane	10.098	129	183168	27.50 ug/L	98
66) 1,3-Dichloropropane	10.183	76	229802	22.63 ug/L	98
67) 1,2-Dibromoethane	10.360	107	129471	22.66 ug/L	94
68) 2-hexanone	10.487	43	322639	106.43 ug/L	96
69) 1-Chlorohexane	10.792	91	246926	27.36 ug/L	94
70) Ethylbenzene	10.858	91	909794	25.16 ug/L	98
71) Chlorobenzene	10.865	112	516656	24.75 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.913	131	174852	25.38 ug/L	98
73) m,p-Xylene	10.998	91	1399384	50.97 ug/L	96
74) o-Xylene	11.436	91	698858	25.65 ug/L	97
75) Styrene	11.485	104	535306	25.47 ug/L	99
76) Bromoform	11.546	173	114732	26.70 ug/L	98
77) Isopropylbenzene	11.741	105	873214	26.01 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.087	53	42364	24.25 ug/L	98
81) n-Propylbenzene	12.160	91	1086473	26.03 ug/L	97
82) Bromobenzene	12.185	156	221216	23.46 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.215	83	196652	26.21 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	768864	24.48 ug/L	100
85) 2-Chlorotoluene	12.349	91	741641	25.05 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.404	53	40672	24.46 ug/L #	76
87) 1,2,3-Trichloropropane	12.379	110	44862	22.53 ug/L	91
88) Cyclohexanone	12.446	55	16088	91.92 ug/L	95
89) 4-Chlorotoluene	12.519	91	670584	24.55 ug/L	98
90) a-Methyl Styrene	12.677	118	3732	0.24 ug/L #	1

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:35 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	429854	24.87	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	764698	24.39	ug/L	99
93) Pentachloroethane	12.738	167	149638	26.19	ug/L	96
94) sec-Butylbenzene	12.866	105	986356	26.24	ug/L	99
95) 4-Isopropyltoluene	13.000	119	818675	27.22	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	409627	24.68	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	416537	24.19	ug/L	99
98) n-Butylbenzene	13.432	92	456791	26.48	ug/L	98
99) Benzyl Chloride	13.450	126	62976	23.29	ug/L #	82
100) 1,2-Dichlorobenzene	13.645	146	367779	23.77	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	22643	22.80	ug/L	92
102) Hexachlorobutadiene	14.928	225	166951	25.26	ug/L	99
103) 1,2,4-Trichlorobenzene	14.971	180	236930	22.47	ug/L	99
104) Naphthalene	15.257	128	358833	23.34	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	199440	22.76	ug/L	98
107) Ethanol	4.306	45	20926m	497.24	ug/L	
108) acrolein	4.763	56	89262	111.24	ug/L	97
109) Tert Butyl Alcohol	5.377	59	102987	239.95	ug/L	97
110) tert Amyl alcohol	7.573	59	68392	198.10	ug/L	94
111) Isobutyl alcohol	7.452	42	67429	441.70	ug/L #	87
112) 1,4-Dioxane	8.668	88	20122	413.11	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	372991	986.91	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1

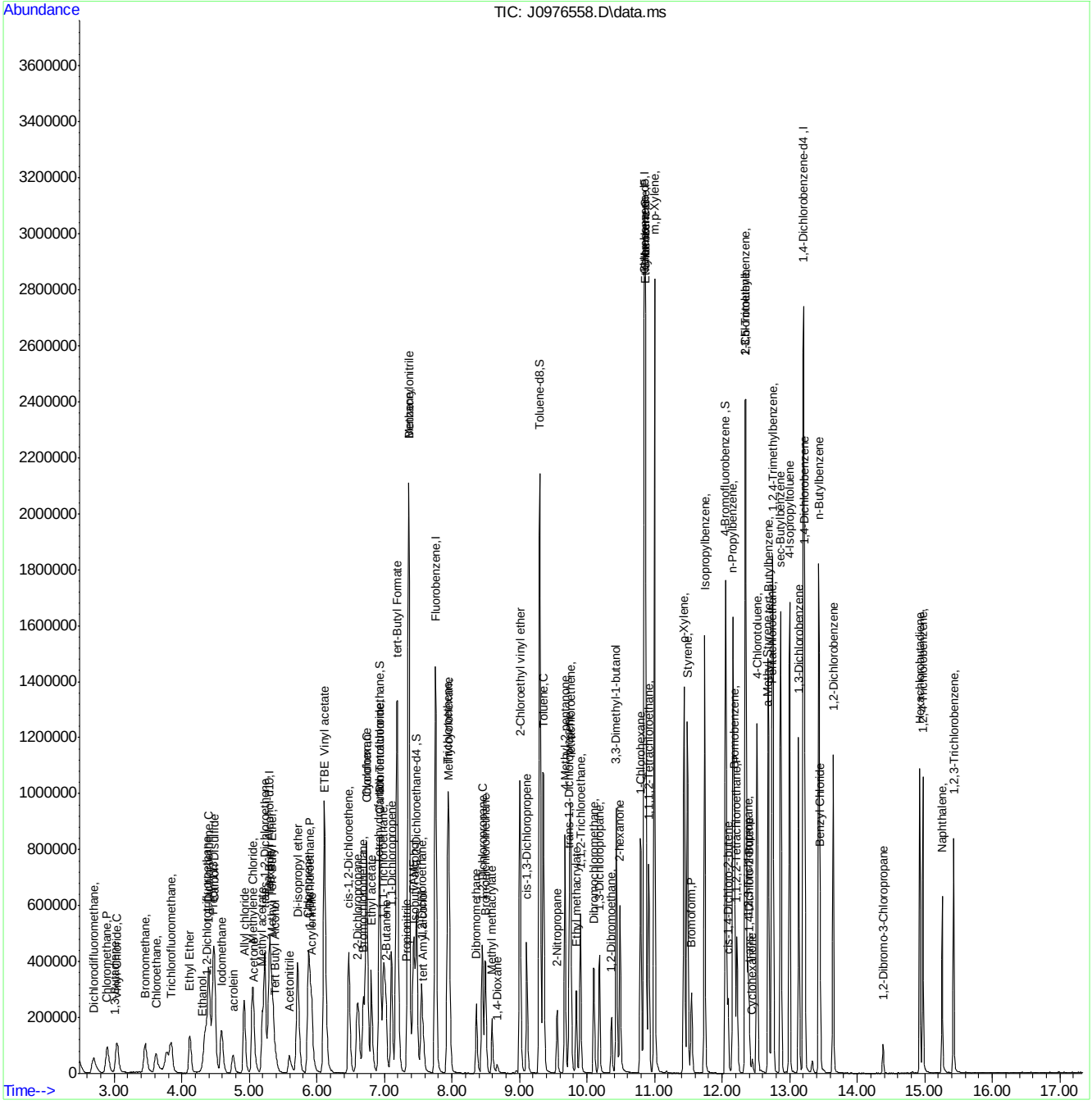
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:35 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



MSJ051216a.M Wed May 18 09:18:03 2016 Page: 4

SGS ACCUTEST FA33998

Manual Integration Approval Summary

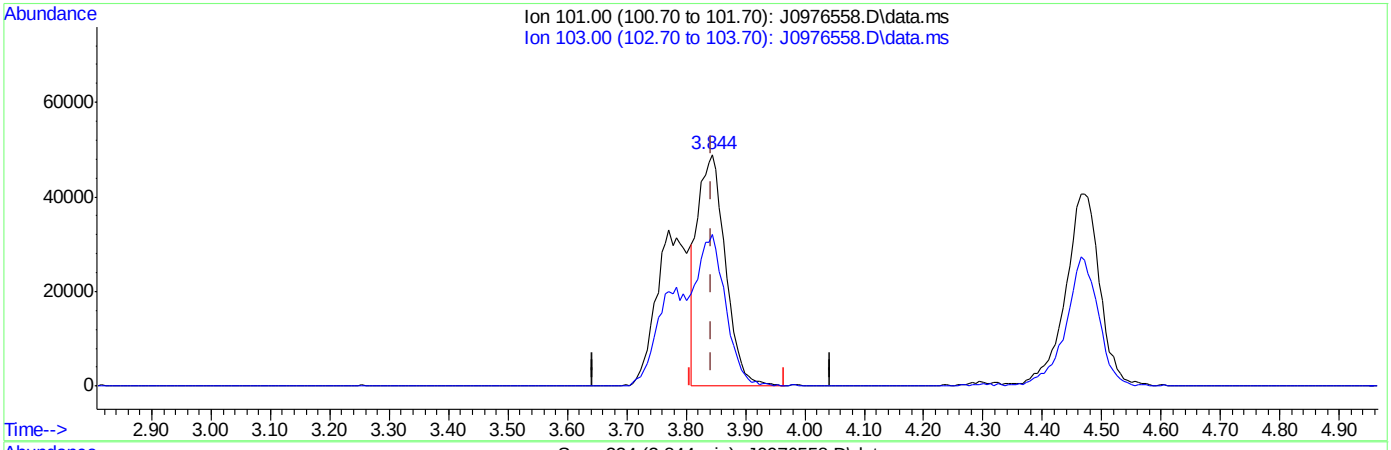
Sample Number:	VJ5302-BS	**Method:**	SW846 8260C
Lab FileID:	J0976558.D	**Analyst approved:**	05/18/16 09:47 Darshna Patel
Injection Time:	05/17/16 10:18	**Supervisor approved:**	05/18/16 10:40 Juan Garcia

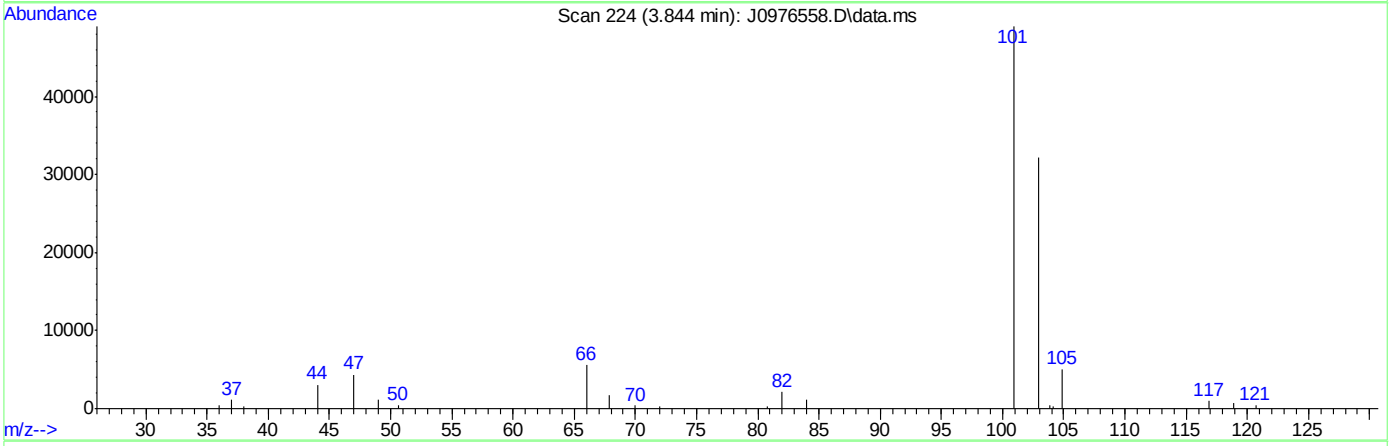
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.31	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976558.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 17.32ug/L

response 161005

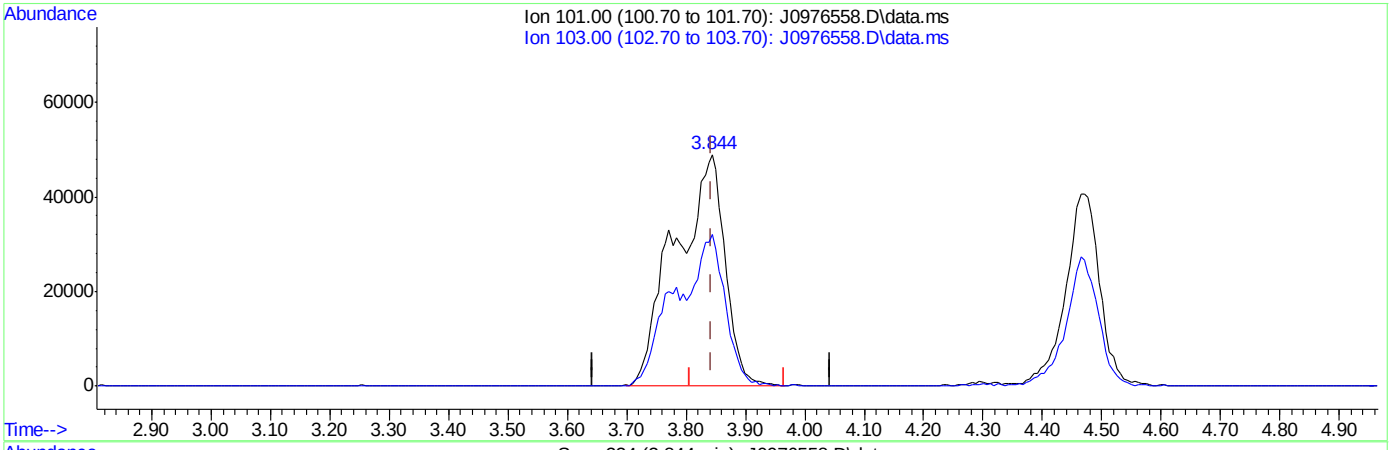
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	65.74
0.00	0.00	0.00
0.00	0.00	0.00

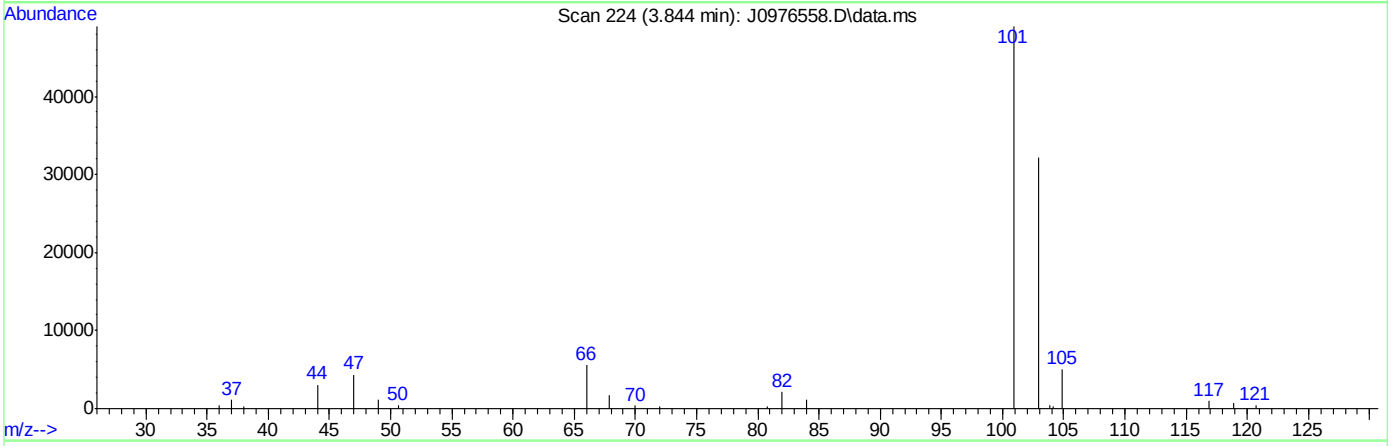
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976558.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 30.65ug/L m

response 284889

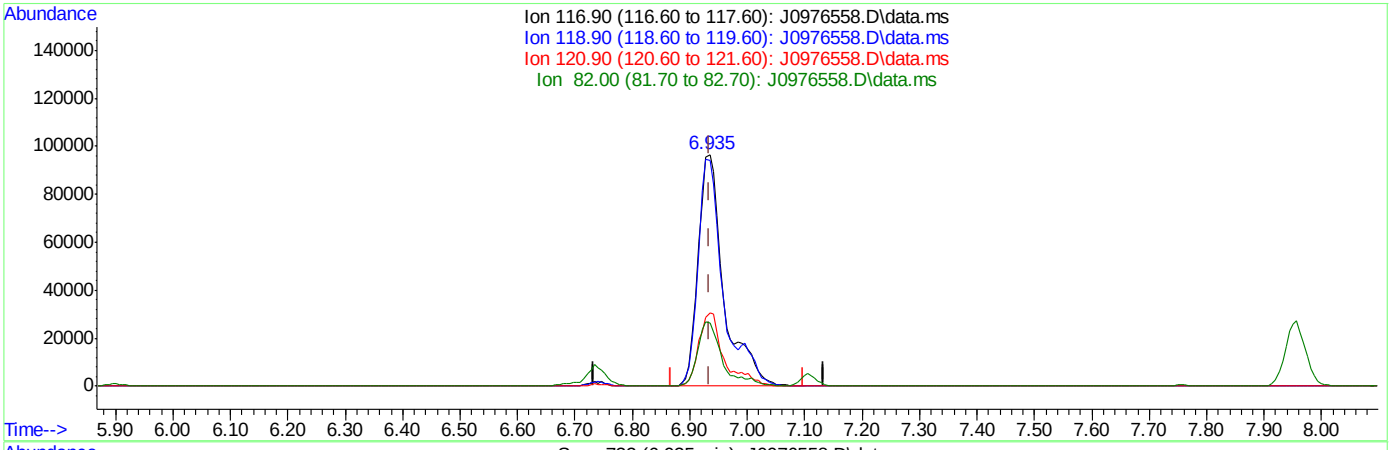
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	65.74
0.00	0.00	0.00
0.00	0.00	0.00

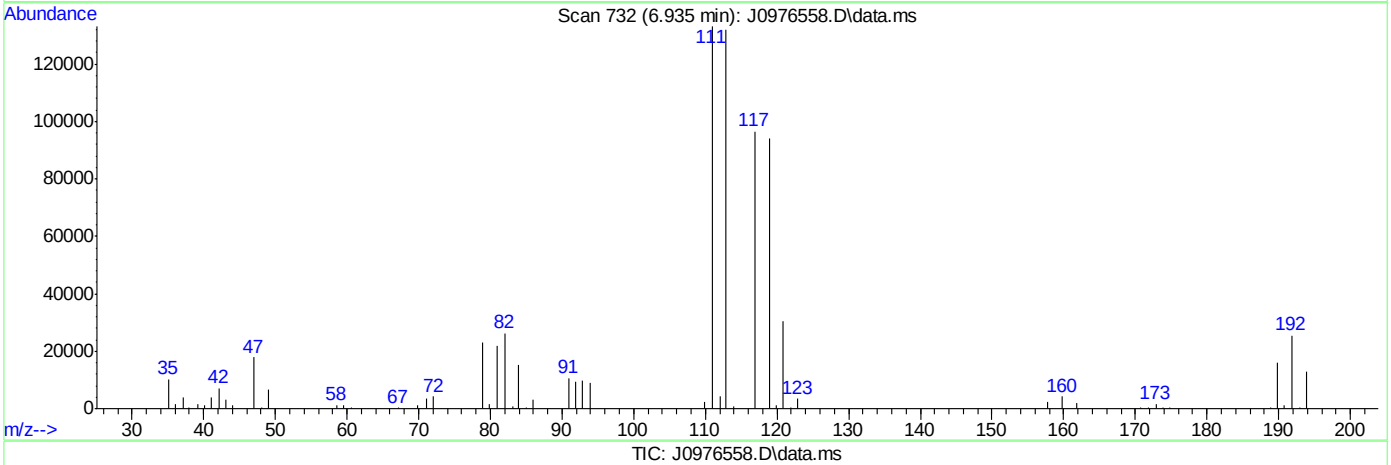
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976558.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 29.59ug/L

response 299953

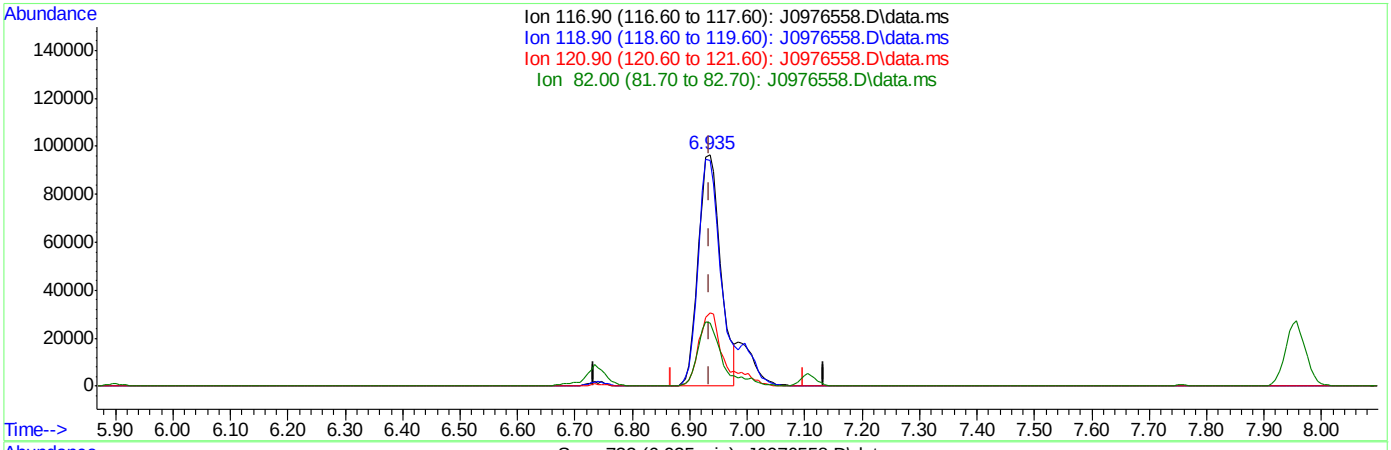
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.26
120.90	31.20	31.52
82.00	25.70	27.23

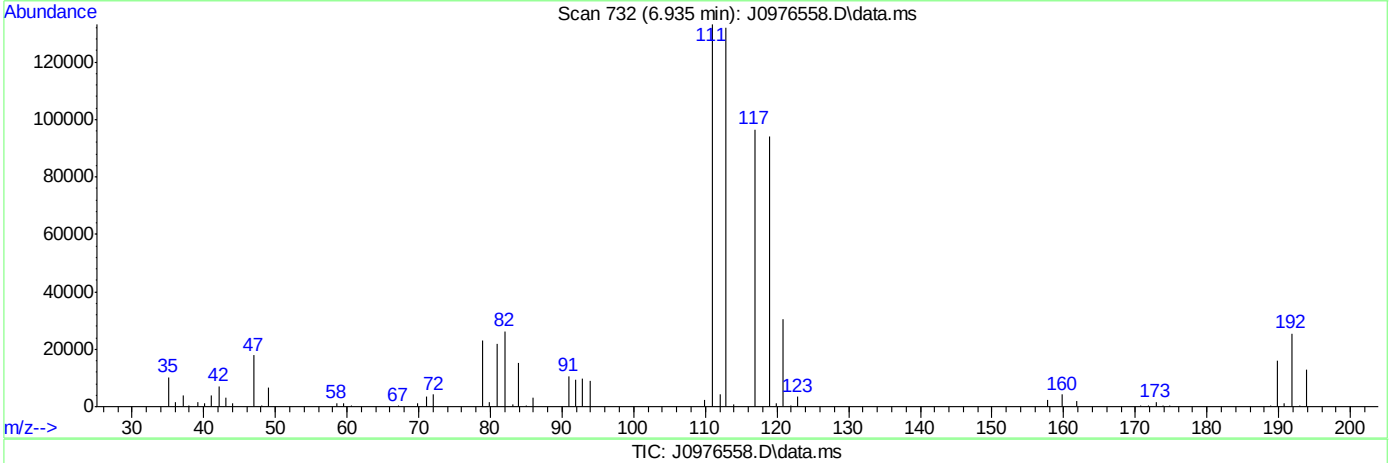
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976558.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 25.59ug/L m

response 259430

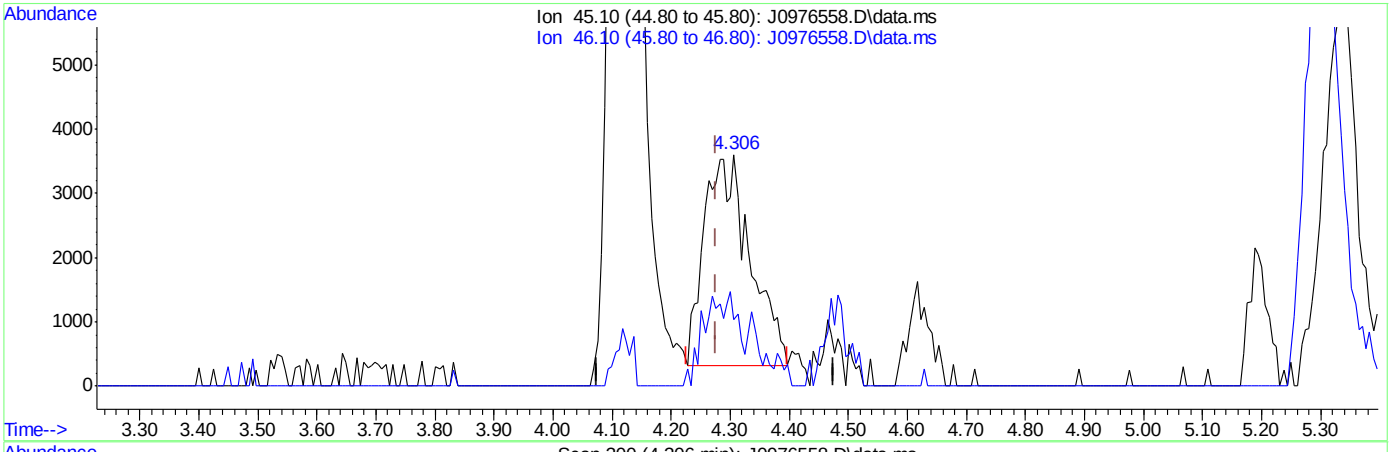
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.26
120.90	31.20	31.52
82.00	25.70	27.23

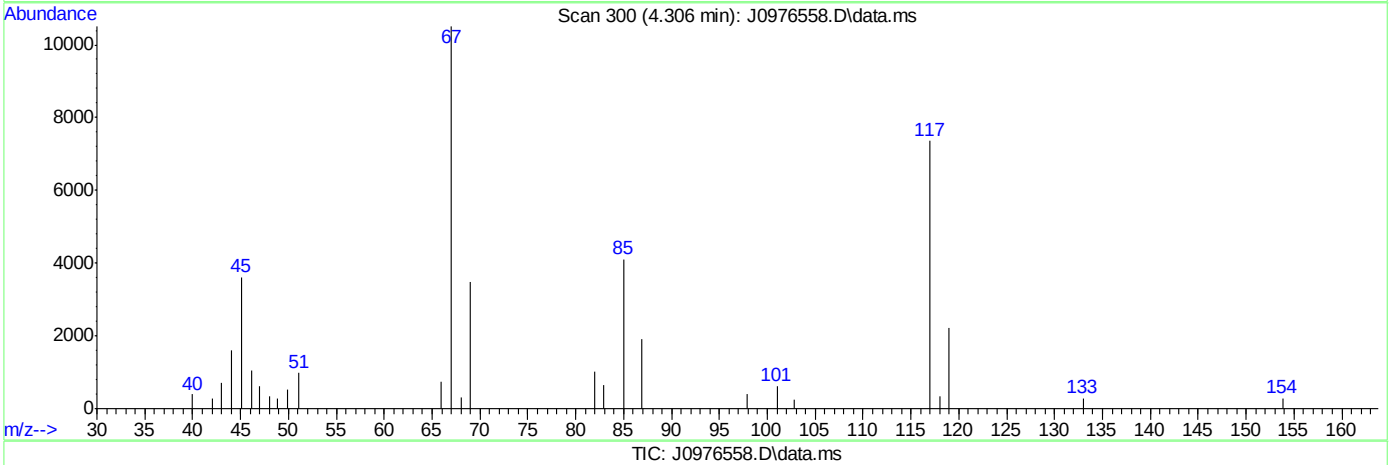
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976558.D\data.ms

(107) Ethanol

4.306min (+0.030) 416.24ug/L

response 17517

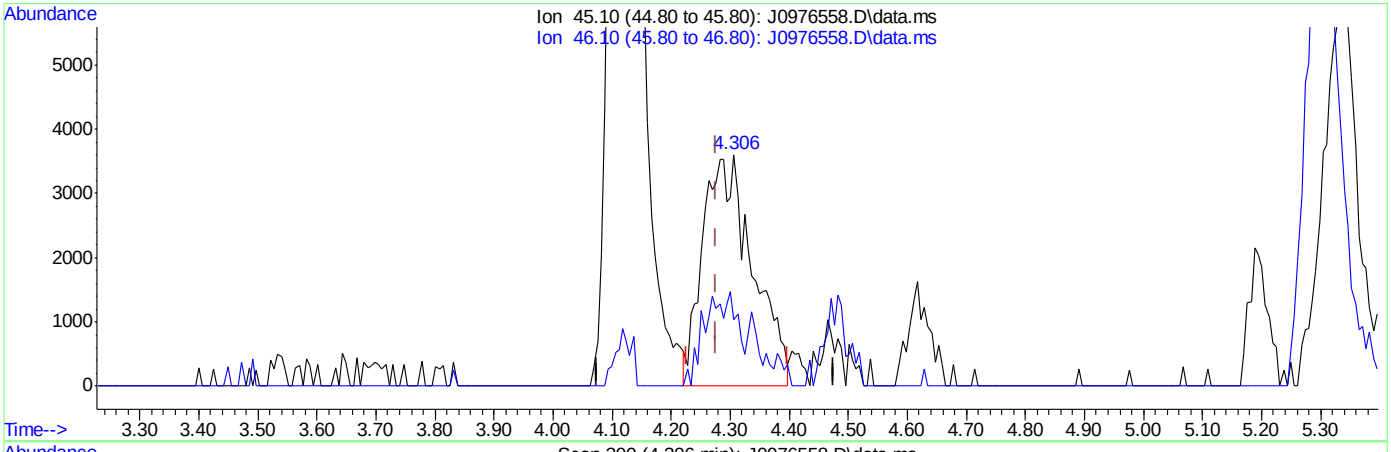
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	23.11
0.00	0.00	0.00
0.00	0.00	0.00

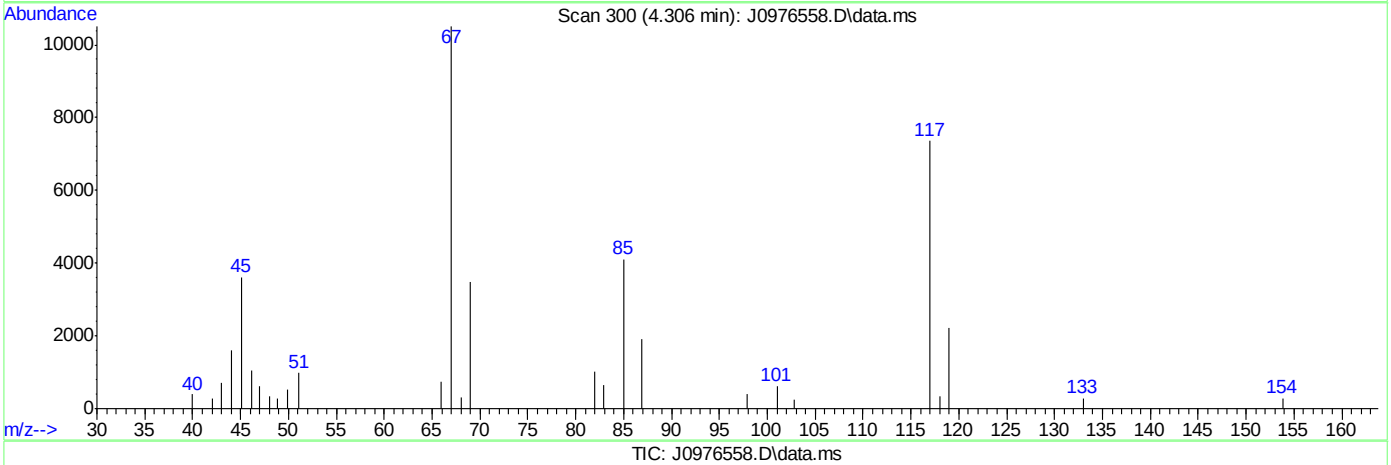
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976558.D
Acq On : 17 May 2016 10:18 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 10:36:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976558.D\data.ms

(107) Ethanol

4.306min (+0.030) 497.24ug/L m

response 20926

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	28.69
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28623.D
Acq On : 17 May 2016 10:45 am
Operator : angied
Sample : BS MA Inst : MSVOA14
Misc : MS33901,VY1158,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 17 11:26:32 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.118	96	1139112	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.305	117	763296	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	348678	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.629	65	125959	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	263161	50.18	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.36%			
44) 1,2-Dichloroethane-d4	6.819	65	276455	49.68	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.36%			
55) Toluene-d8	8.742	98	1075851	50.02	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.04%			
77) 4-Bromofluorobenzene	11.534	174	243723	51.30	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.983	85	536406	45.36	ug/Kg	95
3) Chloromethane	2.202	50	597269	50.28	ug/Kg	96
4) Vinyl Chloride	2.318	62	593610	49.72	ug/Kg	99
5) Bromomethane	2.719	94	278464	49.90	ug/Kg	98
6) Chloroethane	2.877	64	303885	51.91	ug/Kg	94
7) Trichlorofluoromethane	3.054	101	571346	50.77	ug/Kg	96
8) Ethyl Ether	3.407	59	298206	52.16	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.638	67	527474	53.79	ug/Kg	99
10) 1,1-Dichloroethene	3.650	61	685186	52.41	ug/Kg	98
11) Freon 113	3.705	101	389821	43.75	ug/Kg	99
12) Carbon Disulfide	3.693	76	1391583	50.93	ug/Kg	100
13) Iodomethane	3.808	142	578922	48.63	ug/Kg	96
14) Allyl chloride	4.179	41	510125	47.58	ug/Kg	93
15) Methylene Chloride	4.295	49	544258	56.59	ug/Kg	97
16) Acetone	4.343	43	394046	204.38	ug/Kg	95
17) Methyl acetate	4.483	43	981165	270.77	ug/Kg	95
18) trans-1,2-Dichloroethene	4.489	61	579954	57.48	ug/Kg	99
19) Hexane	4.581	56	323461	41.85	ug/Kg	96
20) Methyl Tert Butyl Ether	4.611	73	994432	51.89	ug/Kg#	27
21) Acetonitrile	4.848	41	302097	482.45	ug/Kg	97
22) Di-isopropyl ether	5.025	45	1187529	54.96	ug/Kg	91
23) Chloroprene	5.140	53	605556	49.56	ug/Kg	96
24) 1,1-Dichloroethane	5.159	63	752496	55.64	ug/Kg	98
25) Acrylonitrile	5.195	53	562716	268.92	ug/Kg	97
26) ETBE	5.426	59	1129549	52.89	ug/Kg	95
27) Vinyl acetate	5.420	43	2991224	285.63	ug/Kg	93
28) cis-1,2-Dichloroethene	5.749	96	429799	50.60	ug/Kg	97
29) 2,2-Dichloropropane	5.870	77	337411	56.89	ug/Kg	95
30) Bromochloromethane	5.968	128	177360	49.40	ug/Kg	89
31) Cyclohexane	6.004	84	679164	47.98	ug/Kg	94
32) Chloroform	6.041	83	708468	52.24	ug/Kg	98
33) Ethyl acetate	6.156	43	1236915	270.89	ug/Kg	96
34) Tetrahydrofuran	6.235	42	78685	47.30	ug/Kg	94
36) Carbon Tetrachloride	6.217	117	477008	50.81	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28623.D
Acq On : 17 May 2016 10:45 am
Operator : angied
Sample : BS MA Inst : MSVOA14
Misc : MS33901,VY1158,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 17 11:26:32 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.284	97	542935	52.13 ug/Kg	95
38) 2-Butanone	6.363	43	585253	223.28 ug/Kg	92
39) 1,1-Dichloropropene	6.418	75	564061	51.58 ug/Kg	96
40) Propionitrile	6.673	54	389061	495.12 ug/Kg	93
41) Methacrylonitrile	6.704	41	1467156	530.43 ug/Kg	92
42) Benzene	6.680	78	1598803	52.52 ug/Kg	94
43) TAME	6.801	73	980512	48.89 ug/Kg	96
45) 1,2-Dichloroethane	6.892	62	426932	50.65 ug/Kg	95
46) Trichloroethene	7.312	95	401977	51.12 ug/Kg	96
47) Methylcyclohexane	7.318	83	740417	47.63 ug/Kg	98
48) Dibromomethane	7.750	93	194572	52.23 ug/Kg	97
49) 1,2-Dichloropropane	7.841	63	400159	52.99 ug/Kg	97
50) Bromodichloromethane	7.908	83	468158	52.20 ug/Kg	96
51) Methyl methacrylate	8.048	41	195891	51.68 ug/Kg	93
52) 2-Chloroethyl vinyl ether	8.468	63	874681	254.05 ug/Kg	97
53) cis-1,3-Dichloropropene	8.547	75	600090	53.54 ug/Kg	100
56) Toluene	8.797	91	1597954	51.66 ug/Kg	97
57) 2-Nitropropane	9.003	41	294313	240.21 ug/Kg	93
58) 4-Methyl-2-pentanone	9.149	43	1184721	248.32 ug/Kg	93
59) trans-1,3-Dichloropropene	9.204	75	494388	57.51 ug/Kg	97
60) Tetrachloroethene	9.204	166	345182	47.92 ug/Kg	99
61) Ethyl methacrylate	9.344	69	301866	44.97 ug/Kg	93
62) 1,1,2-Trichloroethane	9.362	83	235662	49.85 ug/Kg	93
63) Dibromochloromethane	9.557	129	298057	52.58 ug/Kg	98
64) 1,3-Dichloropropane	9.642	76	497950	50.06 ug/Kg	99
65) 1,2-Dibromoethane	9.806	107	256254	49.62 ug/Kg	97
66) 2-hexanone	9.983	43	773885	229.42 ug/Kg	92
67) 1-Chlorohexane	10.287	91	467589	46.78 ug/Kg	90
68) Ethylbenzene	10.342	91	1673761	52.05 ug/Kg	96
69) Chlorobenzene	10.324	112	974806	51.49 ug/Kg	95
70) 1,1,1,2-Tetrachloroethane	10.384	131	332688	53.04 ug/Kg	97
71) m,p-Xylene	10.482	91	2468345	106.85 ug/Kg	93
72) o-Xylene	10.920	91	1300659	52.41 ug/Kg	99
73) Styrene	10.968	104	952645	52.59 ug/Kg	96
74) Bromoform	11.011	173	158091	52.40 ug/Kg	99
75) Isopropylbenzene	11.230	105	1597532	52.67 ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.577	53	86243	48.19 ug/Kg	88
79) n-Propylbenzene	11.650	91	1831636	53.96 ug/Kg	96
80) Bromobenzene	11.644	156	349902	52.51 ug/Kg	96
81) 1,1,2,2-Tetrachloroethane	11.711	83	342120	50.17 ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.844	105	1406328	53.63 ug/Kg	95
83) 2-Chlorotoluene	11.826	91	1276890	53.63 ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.893	53	88763	49.88 ug/Kg	88
85) 1,2,3-Trichloropropane	11.863	110	90458	49.60 ug/Kg	95
86) Cyclohexanone	11.911	55	60796	187.57 ug/Kg	96
87) 4-Chlorotoluene	11.990	91	1135568	52.53 ug/Kg	100
88) tert-Butylbenzene	12.173	91	840776	53.14 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.246	105	1352398	53.76 ug/Kg	96
90) Pentachloroethane	12.215	167	202194	52.80 ug/Kg	97
91) sec-Butylbenzene	12.355	105	1786848	53.30 ug/Kg	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28623.D
Acq On : 17 May 2016 10:45 am
Operator : angied
Sample : BS MA Inst : MSVOA14
Misc : MS33901,VY1158,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 17 11:26:32 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.495	119	1431842	52.30	ug/Kg	98
93) 1,3-Dichlorobenzene	12.605	146	683389	51.51	ug/Kg	98
94) 1,4-Dichlorobenzene	12.696	146	665438	49.06	ug/Kg	99
95) n-Butylbenzene	12.939	92	796763	49.69	ug/Kg	88
96) Benzyl Chloride	12.933	126	129821	51.25	ug/Kg#	48
97) 1,2-Dichlorobenzene	13.134	146	645738	51.33	ug/Kg	99
98) 1,2-Dibromo-3-Chloropr...	13.943	75	65289	52.84	ug/Kg	88
99) Hexachlorobutadiene	14.552	225	233180	47.76	ug/Kg	98
100) 1,2,4-Trichlorobenzene	14.588	180	428024	49.23	ug/Kg	97
101) Naphthalene	14.874	128	1099758	57.41	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.038	180	430828	51.51	ug/Kg	98
104) Ethanol	3.571	45	63002	918.88	ug/Kg	99
105) Acrolein	4.015	56	285286	242.84	ug/Kg	96
106) Tert butyl alcohol	4.708	59	340497	472.17	ug/Kg	91
107) Isobutyl alcohol	6.886	42	150019	937.57	ug/Kg	92
108) Tert Amyl Alcohol	6.996	59	259662	451.14	ug/Kg	90
109) 1,4-Dioxane	8.115	88	60299	852.95	ug/Kg	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.2

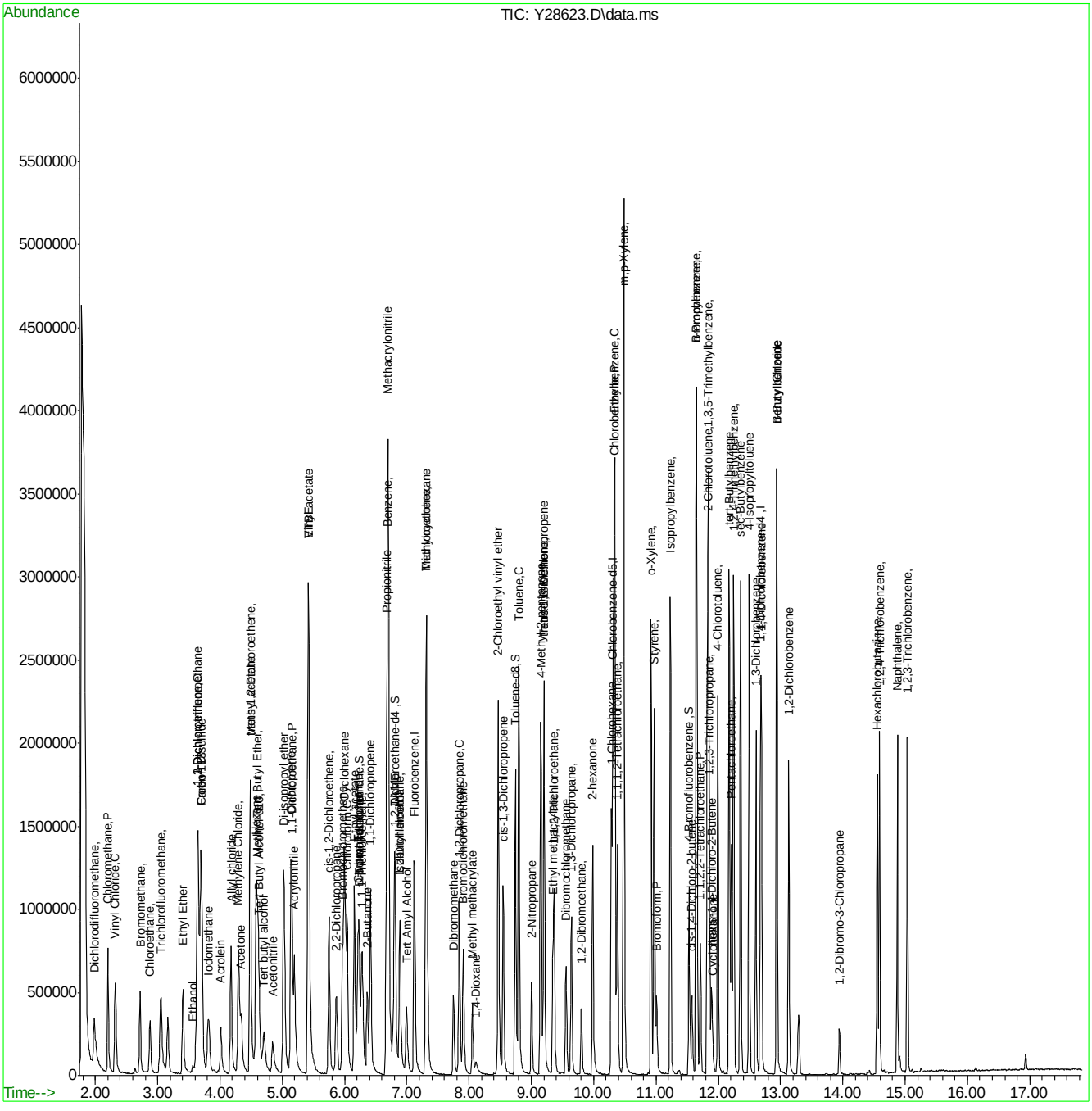
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28623.D
Acq On : 17 May 2016 10:45 am
Operator : angied
Sample : BS MA Inst : MSVOA14
Misc : MS33901,VY1158,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 17 11:26:32 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28638.D
Acq On : 17 May 2016 5:21 pm
Operator : angied
Sample : FA33998-2ms MA Inst : MSVOA14
Misc : MS33901,VY1158,4.14,,,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 18 08:46:07 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1140869	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	758654	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.682	152	319004	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.622	65	108682	250.00	ug/Kg	-0.02

System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	264774	50.41	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.82%			
44) 1,2-Dichloroethane-d4	6.818	65	266963	47.90	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.80%			
55) Toluene-d8	8.740	98	1081734	50.60	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.20%			
77) 4-Bromofluorobenzene	11.532	174	268130	61.69	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 123.38%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	416132	35.14	ug/Kg	99
3) Chloromethane	2.200	50	512448	43.07	ug/Kg	95
4) Vinyl Chloride	2.322	62	494779	41.38	ug/Kg	99
5) Bromomethane	2.718	94	235812	42.19	ug/Kg	93
6) Chloroethane	2.882	64	251715	42.93	ug/Kg	95
7) Trichlorofluoromethane	3.052	101	449664	39.89	ug/Kg	98
8) Ethyl Ether	3.405	59	277985	48.55	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.642	67	426844	43.46	ug/Kg	96
10) 1,1-Dichloroethene	3.654	61	623052	47.58	ug/Kg	95
11) Freon 113	3.709	101	328635	36.82	ug/Kg	96
12) Carbon Disulfide	3.691	76	1192346	43.57	ug/Kg	97
13) Iodomethane	3.825	142	539229	45.23	ug/Kg	96
14) Allyl chloride	4.178	41	452117	42.10	ug/Kg	91
15) Methylene Chloride	4.293	49	481000	49.80	ug/Kg	98
16) Acetone	4.342	43	550772	285.23	ug/Kg	99
17) Methyl acetate	4.488	43	973675	268.29	ug/Kg	93
18) trans-1,2-Dichloroethene	4.488	61	482734	47.77	ug/Kg	97
19) Hexane	4.585	56	249423	32.22	ug/Kg	95
20) Methyl Tert Butyl Ether	4.609	73	1213485	63.23	ug/Kg#	28
21) Acetonitrile	4.847	41	277296	442.16	ug/Kg	96
22) Di-isopropyl ether	5.023	45	1088608	50.30	ug/Kg	94
23) Chloroprene	5.139	53	527131	43.07	ug/Kg	97
24) 1,1-Dichloroethane	5.157	63	676384	49.93	ug/Kg	98
25) Acrylonitrile	5.194	53	503809	240.39	ug/Kg	100
26) ETBE	5.425	59	1083410	50.65	ug/Kg	97
27) Vinyl acetate	5.425	43	797775	76.06	ug/Kg	93
28) cis-1,2-Dichloroethene	5.753	96	394129	46.33	ug/Kg	94
29) 2,2-Dichloropropane	5.869	77	208350	35.07	ug/Kg	96
30) Bromochloromethane	5.966	128	176564	49.11	ug/Kg#	81
31) Cyclohexane	6.003	84	570436	40.24	ug/Kg	93
32) Chloroform	6.039	83	640511	47.16	ug/Kg	98
33) Ethyl acetate	6.161	43	1173408	256.58	ug/Kg	94
34) Tetrahydrofuran	6.234	42	70597	42.37	ug/Kg	87
36) Carbon Tetrachloride	6.222	117	392213	41.71	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28638.D
Acq On : 17 May 2016 5:21 pm
Operator : angied
Sample : FA33998-2ms MA Inst : MSVOA14
Misc : MS33901,VY1158,4.14,,,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 18 08:46:07 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	423315	40.58	ug/Kg	94
38) 2-Butanone	6.362	43	615579	234.49	ug/Kg	96
39) 1,1-Dichloropropene	6.416	75	486030	44.38	ug/Kg	97
40) Propionitrile	6.672	54	366758	466.02	ug/Kg	97
41) Methacrylonitrile	6.702	41	1351725	487.94	ug/Kg	92
42) Benzene	6.684	78	1468917	48.18	ug/Kg	97
43) TAME	6.806	73	984617	49.02	ug/Kg	97
45) 1,2-Dichloroethane	6.891	62	401908	47.61	ug/Kg	95
46) Trichloroethene	7.311	95	412393	52.36	ug/Kg	96
47) Methylcyclohexane	7.323	83	1112472	71.45	ug/Kg	98
48) Dibromomethane	7.749	93	180010	48.25	ug/Kg	94
49) 1,2-Dichloropropane	7.840	63	354015	46.81	ug/Kg	95
50) Bromodichloromethane	7.907	83	416244	46.34	ug/Kg	99
51) Methyl methacrylate	8.053	41	227722	59.49	ug/Kg	97
52) 2-Chloroethyl vinyl ether	8.466	63	895614	259.73	ug/Kg	97
53) cis-1,3-Dichloropropene	8.552	75	536264	47.77	ug/Kg	96
56) Toluene	8.795	91	1473975	47.95	ug/Kg	95
57) 2-Nitropropane	9.002	41	331732	272.41	ug/Kg	94
58) 4-Methyl-2-pentanone	9.154	43	2471914	521.29	ug/Kg	69
59) trans-1,3-Dichloropropene	9.203	75	435971	51.02	ug/Kg	95
60) Tetrachloroethene	9.203	166	553987	77.38	ug/Kg	98
61) Ethyl methacrylate	9.263	69	54858	8.22	ug/Kg	72
62) 1,1,2-Trichloroethane	9.403	83	2033259	432.75	ug/Kg#	6
63) Dibromochloromethane	9.555	129	277709	49.29	ug/Kg	99
64) 1,3-Dichloropropane	9.641	76	472247	47.77	ug/Kg#	63
65) 1,2-Dibromoethane	9.805	107	252362	49.16	ug/Kg	83
66) 2-hexanone	9.987	43	795295	237.21	ug/Kg	90
67) 1-Chlorohexane	10.285	91	443244	44.61	ug/Kg#	1
68) Ethylbenzene	10.340	91	5142472	160.89	ug/Kg	82
69) Chlorobenzene	10.328	112	907784	48.25	ug/Kg	83
70) 1,1,1,2-Tetrachloroethane	10.383	131	311157	49.91	ug/Kg	95
71) m,p-Xylene	10.486	91	3141156	136.81	ug/Kg	93
72) o-Xylene	10.924	91	1478116	59.93	ug/Kg	99
73) Styrene	10.973	104	923372	51.29	ug/Kg	98
74) Bromoform	11.015	173	154020	51.36	ug/Kg	95
75) Isopropylbenzene	11.234	105	3246931	107.70	ug/Kg	92
78) cis-1,4-Dichloro-2-butene	11.545	53	269382	164.53	ug/Kg#	3
79) n-Propylbenzene	11.654	91	3977138	128.07	ug/Kg	89
80) Bromobenzene	11.648	156	328589	53.90	ug/Kg	92
81) 1,1,2,2-Tetrachloroethane	11.703	83	2994098	479.92	ug/Kg#	41
82) 1,3,5-Trimethylbenzene	11.849	105	1096690	45.71	ug/Kg	99
83) 2-Chlorotoluene	11.831	91	1120608	51.45	ug/Kg	96
84) trans-1,4-Dichloro-2-B...	11.885	53	335964	206.34	ug/Kg#	11
85) 1,2,3-Trichloropropane	11.861	110	89787	53.81	ug/Kg#	33
86) Cyclohexanone	11.970	55	2501294	8434.79	ug/Kg#	68
87) 4-Chlorotoluene	11.995	91	986830	49.90	ug/Kg	99
88) tert-Butylbenzene	12.177	91	661538	45.70	ug/Kg#	50
89) 1,2,4-Trimethylbenzene	12.256	105	1045942	45.44	ug/Kg	95
90) Pentachloroethane	12.214	167	24394	6.96	ug/Kg#	35
91) sec-Butylbenzene	12.372	105	4327660	141.09	ug/Kg	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28638.D
Acq On : 17 May 2016 5:21 pm
Operator : angied
Sample : FA33998-2ms MA Inst : MSVOA14
Misc : MS33901,VY1158,4.14,,,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 18 08:46:07 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.506	119	853880	34.09	ug/Kg	97
93) 1,3-Dichlorobenzene	12.701	146	575523	47.42	ug/Kg	95
94) 1,4-Dichlorobenzene	12.701	146	590751	47.61	ug/Kg	91
95) n-Butylbenzene	12.950	92	2957545	201.60	ug/Kg#	54
96) Benzyl Chloride	12.938	126	206970	89.30	ug/Kg#	58
97) 1,2-Dichlorobenzene	13.139	146	536713	46.63	ug/Kg#	10
98) 1,2-Dibromo-3-Chloropr...	13.948	75	89078	78.79	ug/Kg#	68
99) Hexachlorobutadiene	14.568	225	48221	10.80	ug/Kg#	20
100) 1,2,4-Trichlorobenzene	14.599	180	219996	27.66	ug/Kg	92
101) Naphthalene	14.878	128	4058000	231.54	ug/Kg	87
102) 1,2,3-Trichlorobenzene	15.043	180	260376	34.03	ug/Kg#	45
104) Ethanol	3.563	45	50325	850.66	ug/Kg	82
105) Acrolein	4.013	56	103214	101.82	ug/Kg	100
106) Tert butyl alcohol	4.707	59	323096	519.27	ug/Kg	97
107) Isobutyl alcohol	6.885	42	142384	1031.32	ug/Kg	94
108) Tert Amyl Alcohol	6.994	59	263139	529.86	ug/Kg	98
109) 1,4-Dioxane	8.114	88	106563	1746.99	ug/Kg	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1

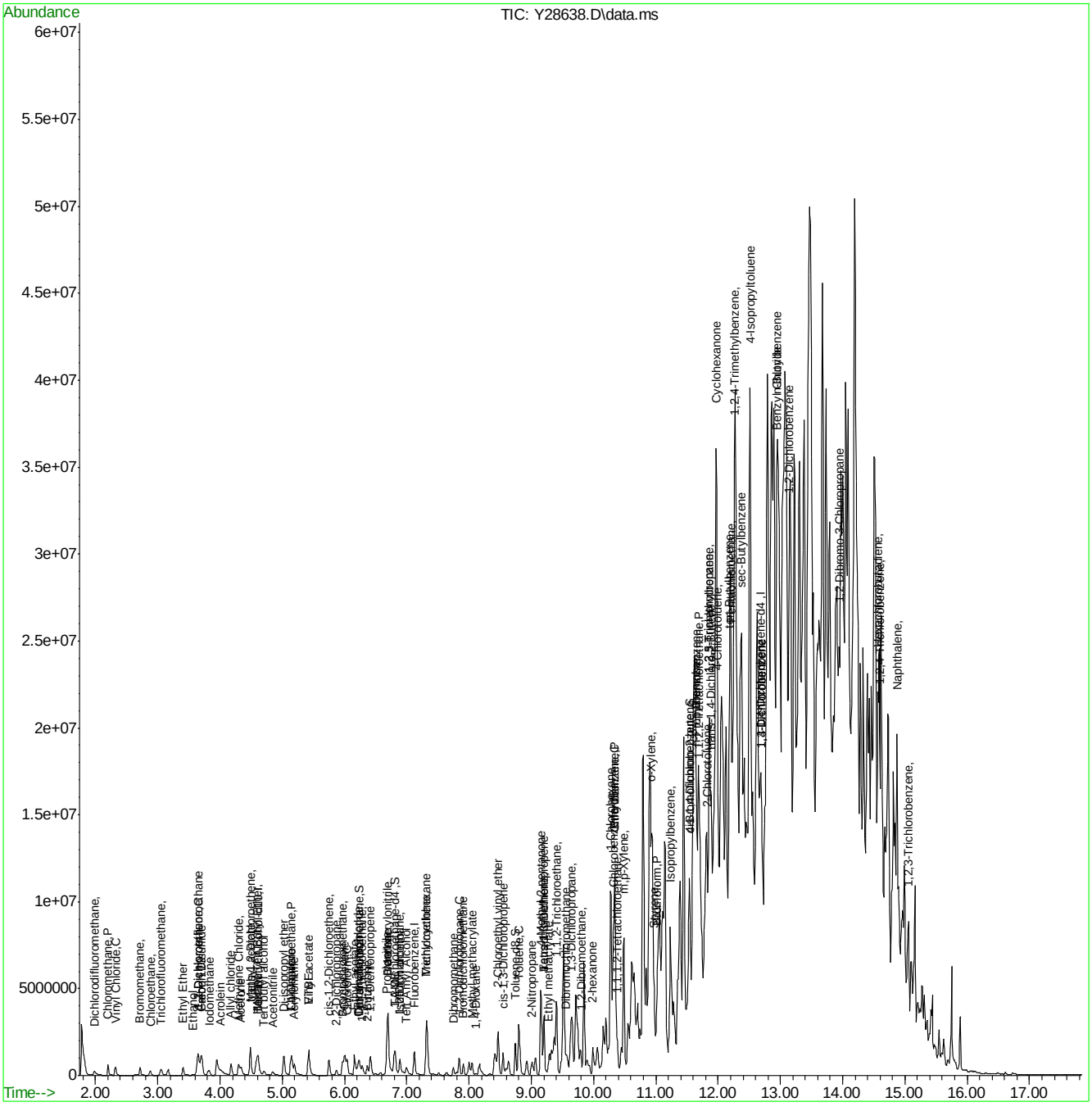
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28638.D
Acq On : 17 May 2016 5:21 pm
Operator : angied
Sample : FA33998-2ms MA Inst : MSVOA14
Misc : MS33901,VY1158,4.14,,,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 18 08:46:07 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28639.D
Acq On : 17 May 2016 5:47 pm
Operator : angied
Sample : FA33998-2msd MA Inst : MSVOA14
Misc : MS33901,VY1158,4.20,,,5,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:46:34 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1140918	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	756880	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.683	152	322120	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	97472	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	259649	49.43	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.86%			
44) 1,2-Dichloroethane-d4	6.818	65	265849	47.70	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.40%			
55) Toluene-d8	8.741	98	1075863	50.45	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.90%			
77) 4-Bromofluorobenzene	11.533	174	265846	60.57	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 121.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.982	85	384754	32.49	ug/Kg	98
3) Chloromethane	2.201	50	485648	40.82	ug/Kg	99
4) Vinyl Chloride	2.317	62	442566	37.01	ug/Kg	95
5) Bromomethane	2.718	94	228037	40.80	ug/Kg	97
6) Chloroethane	2.882	64	222304	37.91	ug/Kg	93
7) Trichlorofluoromethane	3.053	101	407092	36.12	ug/Kg	97
8) Ethyl Ether	3.406	59	244287	42.66	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.637	67	372234	37.90	ug/Kg	94
10) 1,1-Dichloroethene	3.649	61	550262	42.02	ug/Kg	94
11) Freon 113	3.710	101	295769	33.14	ug/Kg	96
12) Carbon Disulfide	3.691	76	1055431	38.56	ug/Kg	96
13) Iodomethane	3.825	142	506251	42.46	ug/Kg	99
14) Allyl chloride	4.178	41	390660	36.38	ug/Kg	89
15) Methylene Chloride	4.294	49	423827	43.76	ug/Kg	96
16) Acetone	4.342	43	455600	235.93	ug/Kg	94
17) Methyl acetate	4.488	43	845981	233.09	ug/Kg	91
18) trans-1,2-Dichloroethene	4.488	61	431543	42.70	ug/Kg	95
19) Hexane	4.580	56	223967	28.93	ug/Kg	87
20) Methyl Tert Butyl Ether	4.610	73	1120145	58.36	ug/Kg#	25
21) Acetonitrile	4.847	41	241675	385.34	ug/Kg	95
22) Di-isopropyl ether	5.024	45	1008254	46.58	ug/Kg	93
23) Chloroprene	5.139	53	491466	40.16	ug/Kg	99
24) 1,1-Dichloroethane	5.158	63	599368	44.25	ug/Kg	94
25) Acrylonitrile	5.194	53	449848	214.64	ug/Kg	98
26) ETBE	5.425	59	1027591	48.04	ug/Kg	95
27) Vinyl acetate	5.425	43	479526	45.72	ug/Kg	84
28) cis-1,2-Dichloroethene	5.754	96	378492	44.49	ug/Kg	98
29) 2,2-Dichloropropane	5.869	77	209387	35.25	ug/Kg	100
30) Bromochloromethane	5.967	128	170265	47.35	ug/Kg	88
31) Cyclohexane	6.003	84	573433	40.45	ug/Kg	95
32) Chloroform	6.040	83	630711	46.43	ug/Kg	98
33) Ethyl acetate	6.161	43	1184237	258.94	ug/Kg	92
34) Tetrahydrofuran	6.234	42	77988	46.80	ug/Kg	96
36) Carbon Tetrachloride	6.216	117	389803	41.45	ug/Kg	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28639.D
Acq On : 17 May 2016 5:47 pm
Operator : angied
Sample : FA33998-2msd MA Inst : MSVOA14
Misc : MS33901,VY1158,4.20,,,5,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:46:34 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.283	97	413776	39.67	ug/Kg	98
38) 2-Butanone	6.368	43	628086	239.25	ug/Kg	94
39) 1,1-Dichloropropene	6.417	75	482259	44.03	ug/Kg	98
40) Propionitrile	6.672	54	371256	471.72	ug/Kg	97
41) Methacrylonitrile	6.703	41	1364235	492.44	ug/Kg	95
42) Benzene	6.684	78	1440599	47.25	ug/Kg	94
43) TAME	6.800	73	995807	49.58	ug/Kg	98
45) 1,2-Dichloroethane	6.891	62	402936	47.73	ug/Kg	96
46) Trichloroethene	7.311	95	426146	54.10	ug/Kg	94
47) Methylcyclohexane	7.323	83	1121369	72.02	ug/Kg	94
48) Dibromomethane	7.749	93	180917	48.49	ug/Kg	93
49) 1,2-Dichloropropane	7.840	63	349453	46.20	ug/Kg	92
50) Bromodichloromethane	7.907	83	406082	45.21	ug/Kg	98
51) Methyl methacrylate	8.053	41	217912	57.07	ug/Kg	95
52) 2-Chloroethyl vinyl ether	8.467	63	915436	265.47	ug/Kg	96
53) cis-1,3-Dichloropropene	8.546	75	530622	47.26	ug/Kg	95
56) Toluene	8.795	91	1460110	47.61	ug/Kg	96
57) 2-Nitropropane	9.002	41	321058	264.27	ug/Kg	95
58) 4-Methyl-2-pentanone	9.154	43	2382431	503.60	ug/Kg	69
59) trans-1,3-Dichloropropene	9.203	75	428677	50.29	ug/Kg	98
60) Tetrachloroethene	9.203	166	556886	77.96	ug/Kg	98
61) Ethyl methacrylate	9.349	69	914541	137.41	ug/Kg#	66
62) 1,1,2-Trichloroethane	9.404	83	1953838	416.82	ug/Kg#	6
63) Dibromochloromethane	9.556	129	272925	48.55	ug/Kg	98
64) 1,3-Dichloropropane	9.641	76	466982	47.34	ug/Kg#	68
65) 1,2-Dibromoethane	9.805	107	252884	49.38	ug/Kg	89
66) 2-hexanone	9.988	43	794686	237.59	ug/Kg	91
67) 1-Chlorohexane	10.286	91	429496	43.33	ug/Kg#	1
68) Ethylbenzene	10.341	91	5183552	162.55	ug/Kg	82
69) Chlorobenzene	10.329	112	908177	48.38	ug/Kg	82
70) 1,1,1,2-Tetrachloroethane	10.383	131	304790	49.01	ug/Kg	99
71) m,p-Xylene	10.487	91	3113144	135.91	ug/Kg	92
72) o-Xylene	10.919	91	1435951	58.35	ug/Kg	98
73) Styrene	10.973	104	926220	51.57	ug/Kg	96
74) Bromoform	11.016	173	147537	49.31	ug/Kg	94
75) Isopropylbenzene	11.235	105	3154624	104.88	ug/Kg	91
78) cis-1,4-Dichloro-2-butene	11.624	53	783702	474.02	ug/Kg#	1
79) n-Propylbenzene	11.655	91	3936528	125.54	ug/Kg	89
80) Bromobenzene	11.649	156	331040	53.78	ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.703	83	2672197	424.18	ug/Kg#	40
82) 1,3,5-Trimethylbenzene	11.849	105	1066010	44.00	ug/Kg	95
83) 2-Chlorotoluene	11.831	91	1104159	50.20	ug/Kg	96
84) trans-1,4-Dichloro-2-B...	11.886	53	313925	190.93	ug/Kg#	17
85) 1,2,3-Trichloropropane	11.862	110	92608	54.96	ug/Kg#	36
86) Cyclohexanone	11.965	55	2407785	8040.92	ug/Kg#	75
87) 4-Chlorotoluene	11.995	91	1013602	50.76	ug/Kg	99
88) tert-Butylbenzene	12.178	91	625026	42.76	ug/Kg#	24
89) 1,2,4-Trimethylbenzene	12.251	105	1012522	43.57	ug/Kg	97
90) Pentachloroethane	12.214	167	14972	4.23	ug/Kg#	28
91) sec-Butylbenzene	12.366	105	4095600	132.23	ug/Kg	78

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28639.D
Acq On : 17 May 2016 5:47 pm
Operator : angied
Sample : FA33998-2msd MA Inst : MSVOA14
Misc : MS33901,VY1158,4.20,,,5,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:46:34 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.506	119	836439	33.07	ug/Kg	96
93) 1,3-Dichlorobenzene	12.701	146	562689	45.91	ug/Kg	94
94) 1,4-Dichlorobenzene	12.701	146	575859	45.96	ug/Kg	94
95) n-Butylbenzene	12.944	92	2763595	186.55	ug/Kg#	57
96) Benzyl Chloride	12.938	126	227745	97.32	ug/Kg#	62
97) 1,2-Dichlorobenzene	13.139	146	524995	45.17	ug/Kg#	23
98) 1,2-Dibromo-3-Chloropr...	13.948	75	75692	66.31	ug/Kg#	79
99) Hexachlorobutadiene	14.569	225	51792	11.48	ug/Kg#	3
100) 1,2,4-Trichlorobenzene	14.599	180	237092	29.52	ug/Kg	75
101) Naphthalene	14.879	128	4134656	233.63	ug/Kg	86
102) 1,2,3-Trichlorobenzene	15.043	180	447569	57.93	ug/Kg#	24
104) Ethanol	3.570	45	44423	837.26	ug/Kg	100
105) Acrolein	4.014	56	79164	87.08	ug/Kg	92
106) Tert butyl alcohol	4.707	59	303541	543.94	ug/Kg	89
107) Isobutyl alcohol	6.891	42	147714	1192.97	ug/Kg	95
108) Tert Amyl Alcohol	7.001	59	269607	605.32	ug/Kg	93
109) 1,4-Dioxane	8.114	88	103062	1883.91	ug/Kg	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.2

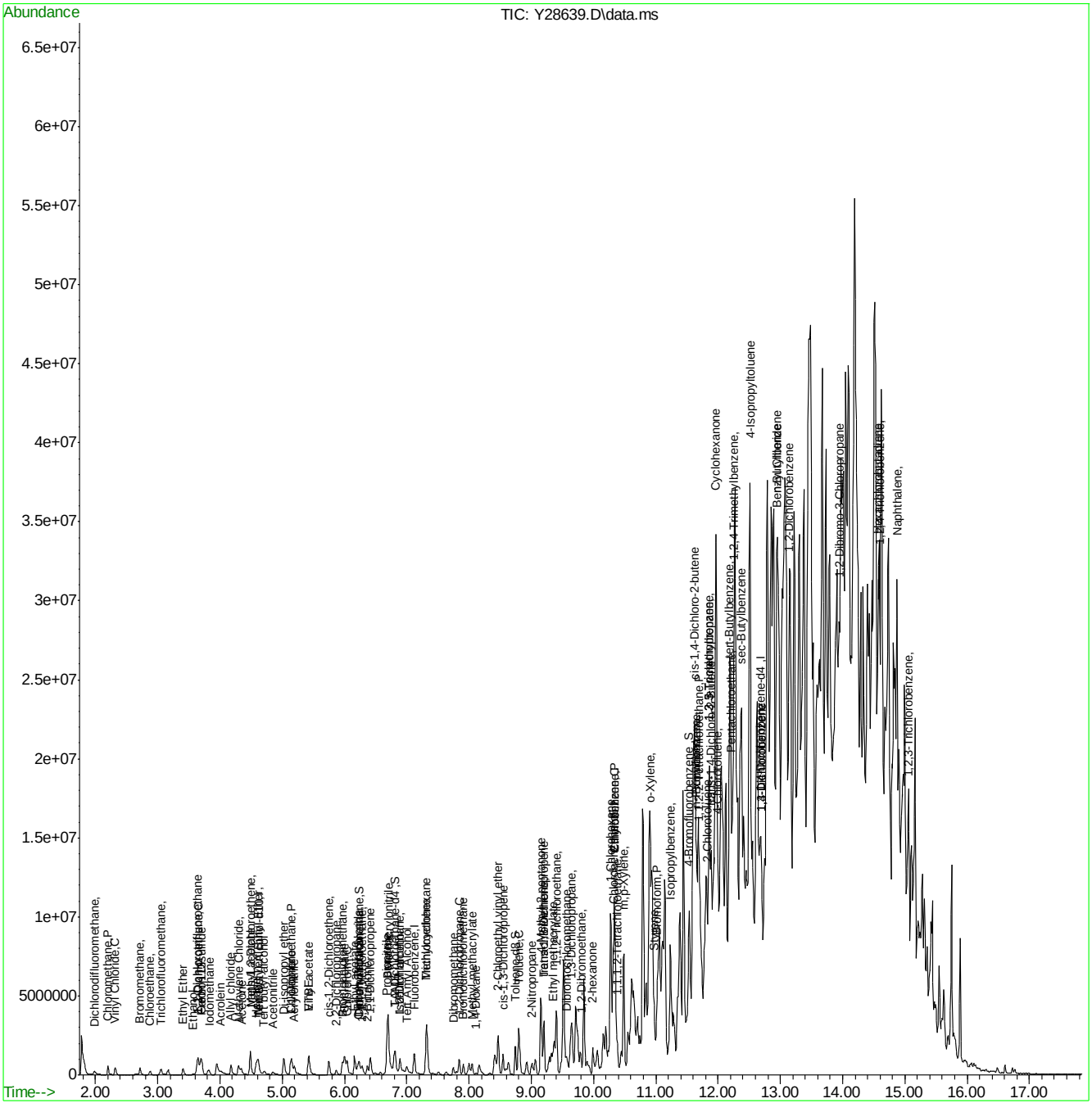
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28639.D
Acq On : 17 May 2016 5:47 pm
Operator : angied
Sample : FA33998-2msd MA Inst : MSVOA14
Misc : MS33901,VY1158,4.20,,,5,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:46:34 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/18/16 10:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:20:45 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	7.756	96	1263318	50.00 ug/L	0.00
56) Chlorobenzene-d5	10.846	117	996134	50.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	562478	50.00 ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	82396	250.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	6.928	113	315314	49.81 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.62%		
46) 1,2-Dichloroethane-d4	7.482	65	368142	49.75 ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.50%		
57) Toluene-d8	9.301	98	1263493	49.25 ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.50%		
79) 4-Bromofluorobenzene	12.051	95	510107	49.74 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.48%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.700	85	131050	26.55 ug/L	98
3) Chloromethane	2.895	50	179058	27.72 ug/L	96
4) Vinyl Chloride	3.047	62	194797	27.43 ug/L	95
5) 1,3-Butadiene	3.035	54	28721	Below Cal	91
6) Bromomethane	3.461	94	121247	27.24 ug/L	92
7) Chloroethane	3.619	64	98241	30.68 ug/L	99
8) Trichlorofluoromethane	3.844	101	274796m	30.39 ug/L	
9) Ethyl Ether	4.124	59	219305	43.80 ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.361	67	401052	52.00 ug/L	99
11) 1,1-Dichloroethene	4.404	61	494275	52.33 ug/L	96
12) Freon 113	4.471	101	296130	45.59 ug/L	97
13) Carbon Disulfide	4.477	76	943436	44.40 ug/L	99
14) Iodomethane	4.592	142	465529	44.21 ug/L	98
15) Allyl chloride	4.927	41	173894	21.93 ug/L	91
16) Methylene Chloride	5.048	49	402464	47.98 ug/L	97
17) Acetone	5.073	58	41145	106.01 ug/L	93
18) Methyl acetate	5.194	74	147207	201.61 ug/L	95
19) trans-1,2-Dichloroethene	5.231	61	480120	55.49 ug/L	98
20) Hexane	5.298	56	299645	50.01 ug/L	97
21) Methyl Tert Butyl Ether	5.334	73	810594	43.77 ug/L	81
22) Acetonitrile	5.602	40	54100	228.31 ug/L #	86
23) Di-isopropyl ether	5.718	45	898140	43.76 ug/L	99
24) Chloroprene	5.876	53	212582	25.62 ug/L	95
25) 1,1-Dichloroethane	5.900	63	585746	50.82 ug/L	95
26) Acrylonitrile	5.931	53	178736	116.23 ug/L	94
27) ETBE	6.119	59	881378	41.95 ug/L	97
28) Vinyl acetate	6.113	43	1032499	109.31 ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	344211	46.12 ug/L	97
30) 2,2-Dichloropropane	6.606	77	413075	42.60 ug/L	100
31) Bromochloromethane	6.685	128	150117	43.13 ug/L	93
32) Cyclohexane	6.734	56	575287	52.90 ug/L	97
33) Chloroform	6.740	83	607352	48.27 ug/L	100
34) Ethyl acetate	6.813	43	385414	109.95 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:20:45 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	49608	46.31	ug/L	89
37) Carbon Tetrachloride	6.934	117	478177m	48.48	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	529722	46.60	ug/L	97
39) 2-Butanone	7.026	43	183182	110.04	ug/L	99
40) 1,1-Dichloropropene	7.105	75	440191	49.73	ug/L	99
41) tert-Butyl Formate	7.190	59	23329	5.56	ug/L #	63
42) Propionitrile	7.336	54	132537	235.55	ug/L	96
43) Methacrylonitrile	7.360	41	567898	242.24	ug/L	87
44) Benzene	7.360	78	1335842	48.53	ug/L	90
45) TAME	7.433	73	767128	39.52	ug/L	94
47) 1,2-Dichloroethane	7.549	62	405759	46.14	ug/L	98
48) Trichloroethene	7.938	95	356664	50.80	ug/L	98
49) Methylcyclohexane	7.956	83	646977	52.93	ug/L	99
50) Dibromomethane	8.358	93	177330	44.72	ug/L	98
51) 1,2-Dichloropropane	8.449	63	318871	46.80	ug/L	97
52) Bromodichloromethane	8.498	83	418570	46.39	ug/L	97
53) Methyl methacrylate	8.595	41	81523	23.70	ug/L	98
54) 2-Chloroethyl vinyl ether	9.106	63	2751	0.79	ug/L #	42
55) cis-1,3-Dichloropropene	9.112	75	477560	45.13	ug/L	96
58) Toluene	9.356	91	1423673	49.06	ug/L	99
59) 2-Nitropropane	9.556	41	231253	214.71	ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	460707	103.56	ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	445165	48.86	ug/L	96
62) Tetrachloroethene	9.757	166	359138	48.16	ug/L	96
63) Ethyl methacrylate	9.842	69	131432	19.64	ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	226769	47.05	ug/L	96
65) Dibromochloromethane	10.104	129	269633	41.29	ug/L	98
66) 1,3-Dichloropropane	10.183	76	430612	44.15	ug/L	99
67) 1,2-Dibromoethane	10.359	107	250399	44.65	ug/L	98
68) 2-hexanone	10.487	43	317071	106.56	ug/L	96
69) 1-Chlorohexane	10.797	91	468260	52.87	ug/L	97
70) Ethylbenzene	10.858	91	1674588	49.85	ug/L	100
71) Chlorobenzene	10.864	112	975898	49.18	ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	330432	48.84	ug/L	98
73) m,p-Xylene	10.998	91	2534464	102.74	ug/L	100
74) o-Xylene	11.436	91	1305197	48.82	ug/L	98
75) Styrene	11.485	104	1009812	48.95	ug/L	100
76) Bromoform	11.546	173	160815	38.01	ug/L	98
77) Isopropylbenzene	11.740	105	1674816	52.72	ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	32953	19.28	ug/L	96
81) n-Propylbenzene	12.160	91	1992225	52.52	ug/L	99
82) Bromobenzene	12.185	156	423810	46.94	ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	321197	44.94	ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1437471	48.95	ug/L	99
85) 2-Chlorotoluene	12.349	91	1387007	50.77	ug/L	98
86) trans-1,4-Dichloro-2-B...	12.397	53	63755	39.20	ug/L	90
87) 1,2,3-Trichloropropane	12.379	110	86793	45.93	ug/L	88
88) Cyclohexanone	12.446	55	14366	83.93	ug/L	90
89) 4-Chlorotoluene	12.519	91	1245550	48.65	ug/L	99
90) a-Methyl Styrene	12.750	118	14870	0.97	ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:20:45 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	817486	49.57	ug/L	97
92) 1,2,4-Trimethylbenzene	12.750	105	1427096	48.77	ug/L	98
93) Pentachloroethane	12.738	167	135118	24.20	ug/L	95
94) sec-Butylbenzene	12.866	105	1808252	51.88	ug/L	100
95) 4-Isopropyltoluene	13.000	119	1518233	51.60	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	756745	47.59	ug/L	100
97) 1,4-Dichlorobenzene	13.219	146	769461	47.05	ug/L	99
98) n-Butylbenzene	13.432	92	843450	49.98	ug/L	96
99) Benzyl Chloride	13.450	126	93013	35.12	ug/L #	82
100) 1,2-Dichlorobenzene	13.645	146	687666	46.52	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	44063	45.08	ug/L	91
102) Hexachlorobutadiene	14.928	225	310796	47.31	ug/L	96
103) 1,2,4-Trichlorobenzene	14.971	180	457987	44.64	ug/L	97
104) Naphthalene	15.257	128	732016	48.69	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	382025	44.49	ug/L	99
107) Ethanol	4.276	45	22354	548.64	ug/L	93
108) acrolein	4.756	56	74866	96.37	ug/L	98
109) Tert Butyl Alcohol	5.377	59	221347	555.77	ug/L	93
110) tert Amyl alcohol	7.573	59	130756	401.88	ug/L	91
111) Isobutyl alcohol	7.452	42	77778	532.36	ug/L #	77
112) 1,4-Dioxane	8.668	88	104694	2496.70	ug/L	97
113) 3,3-Dimethyl-1-butanol	10.432	57	383532	1049.77	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.3

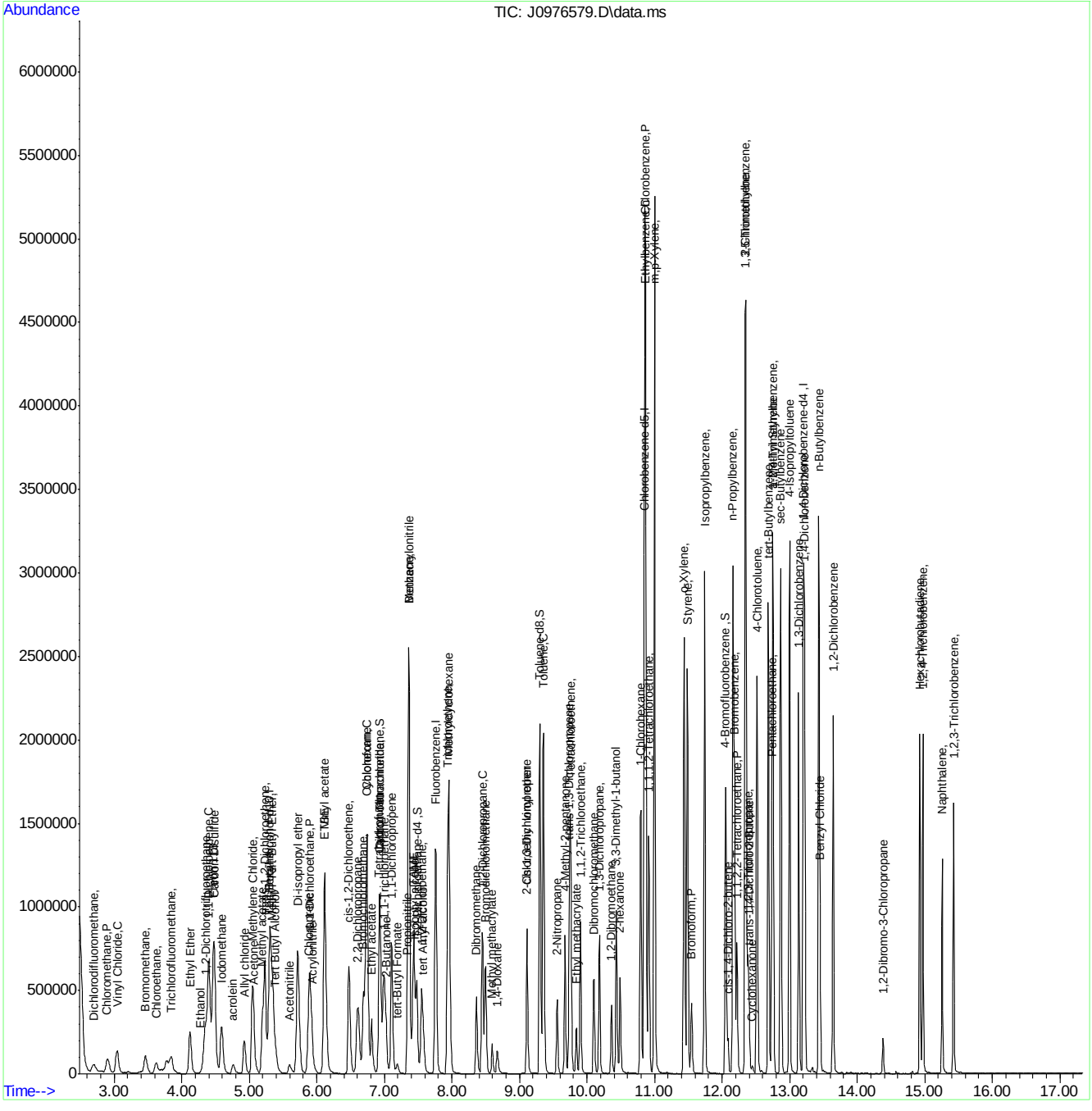
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:20:45 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

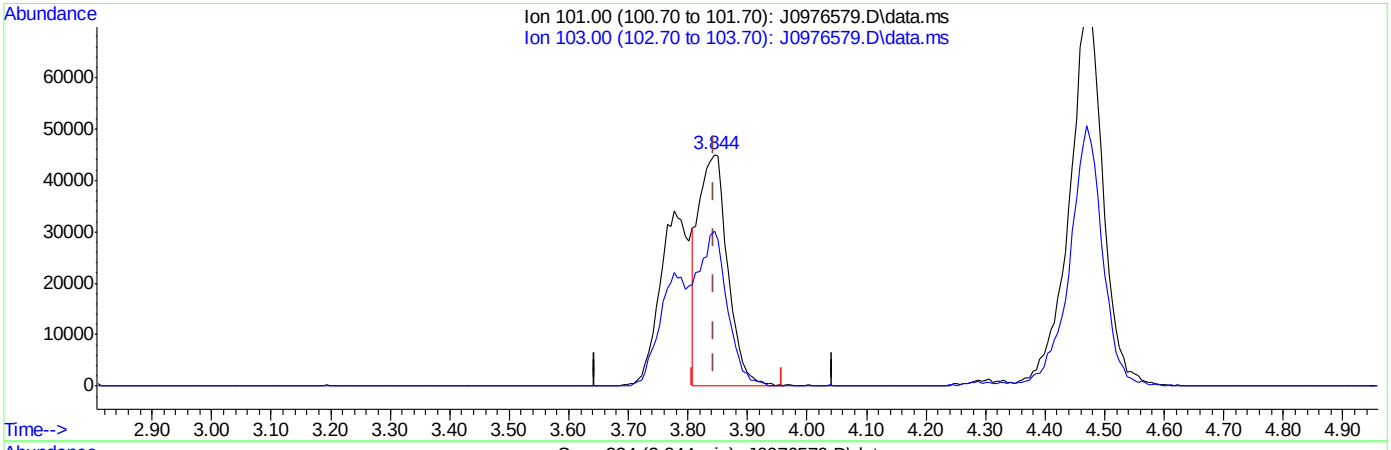
Sample Number:	FA33998-1MS	**Method:**	SW846 8260C
Lab FileID:	J0976579.D	**Analyst approved:**	05/18/16 09:47 Darshna Patel
Injection Time:	05/17/16 18:50	**Supervisor approved:**	05/18/16 10:40 Juan Garcia

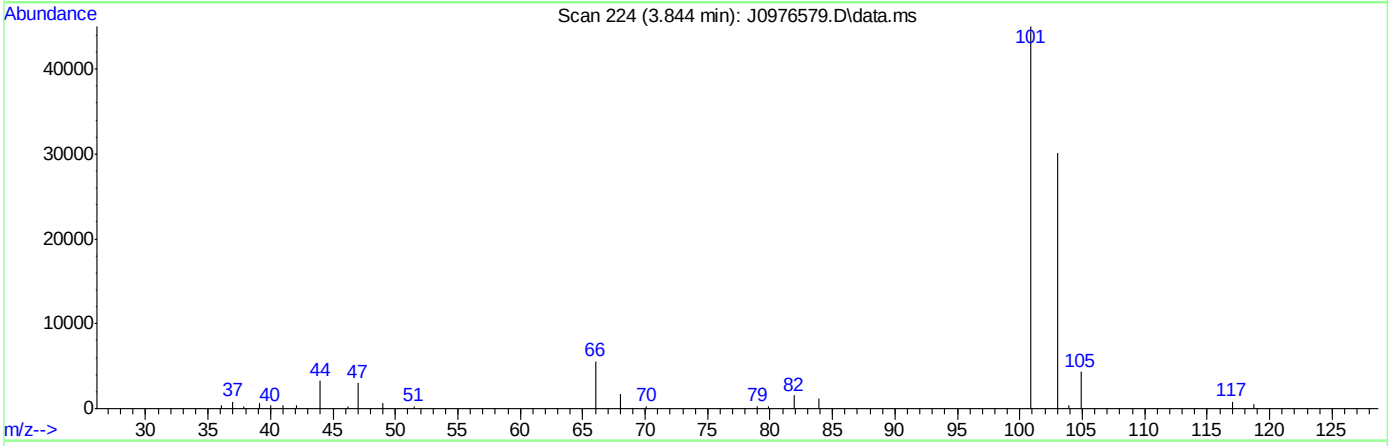
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976579.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (-0.000) 16.89ug/L

response 152752

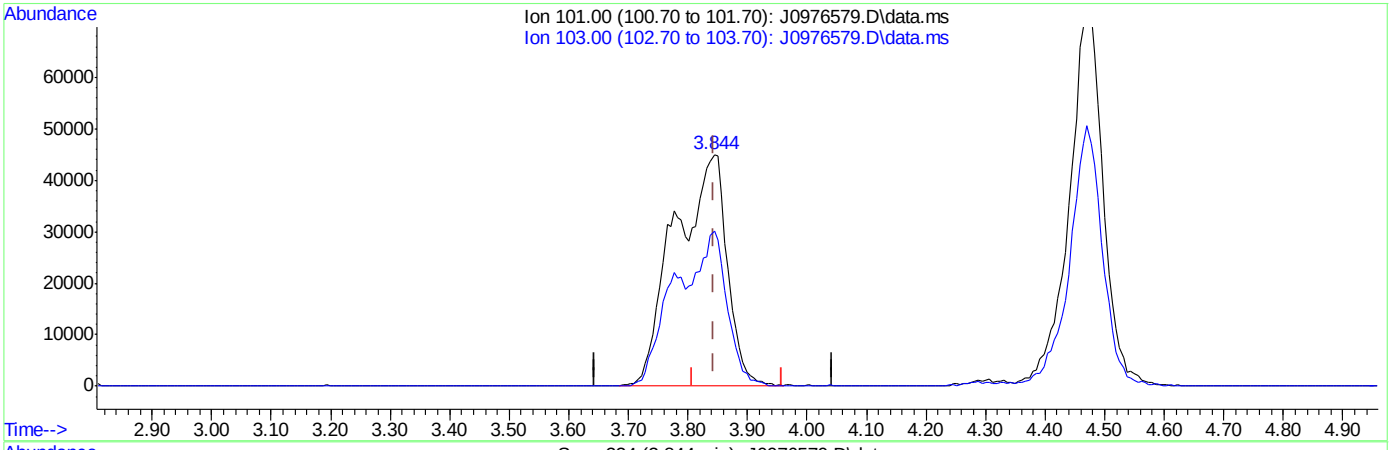
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	66.73
0.00	0.00	0.00
0.00	0.00	0.00

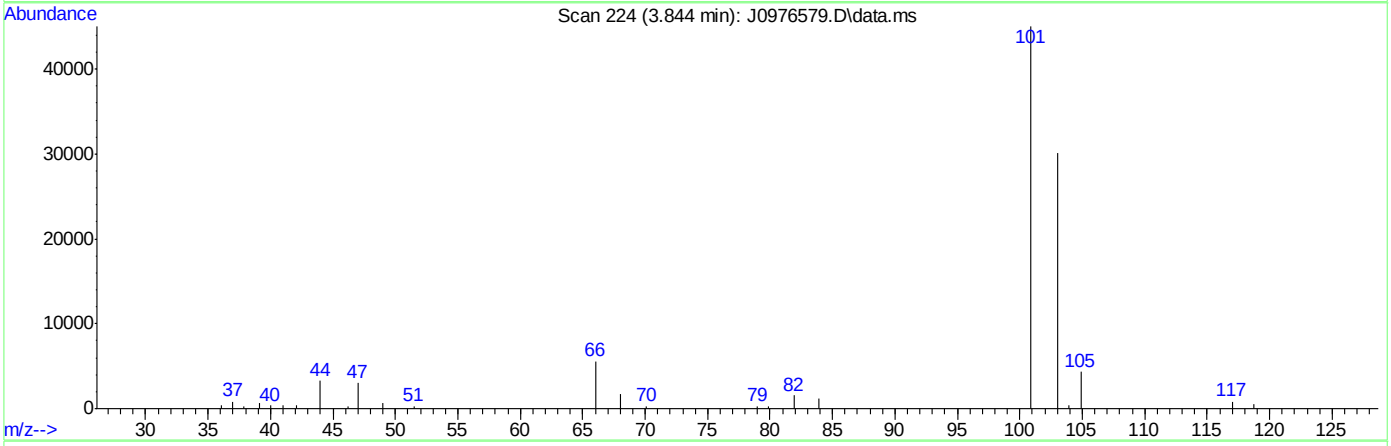
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (-0.000) 30.39ug/L m

response 274796

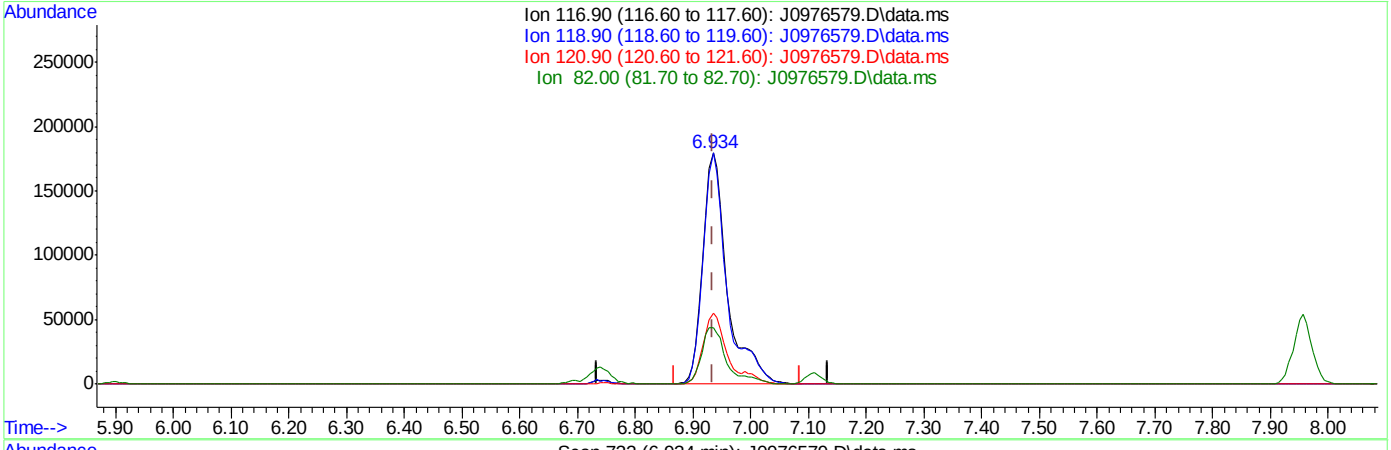
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	66.73
0.00	0.00	0.00
0.00	0.00	0.00

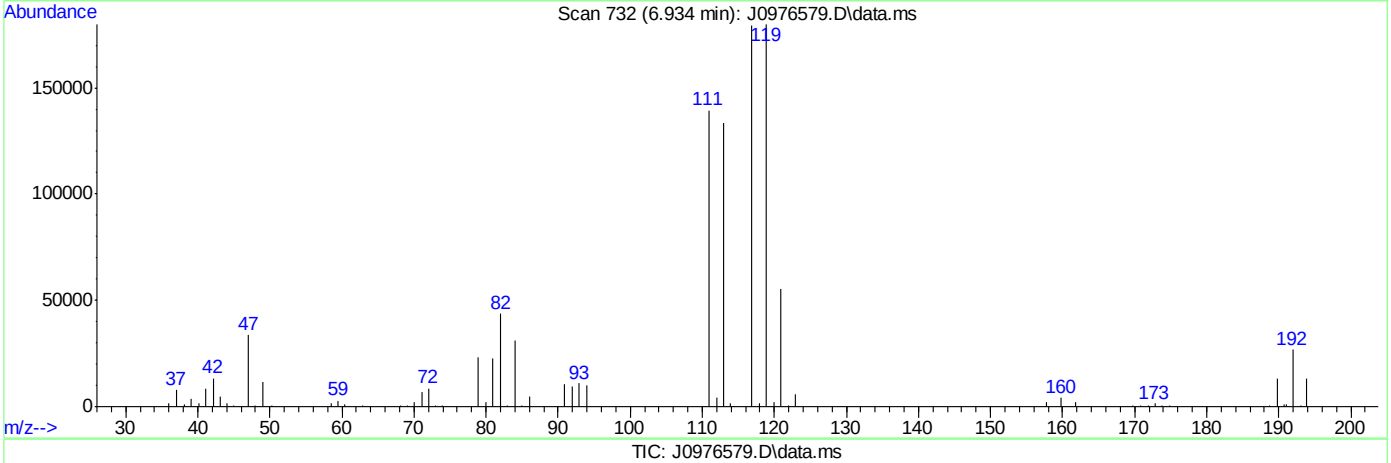
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976579.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 54.22ug/L

response 534762

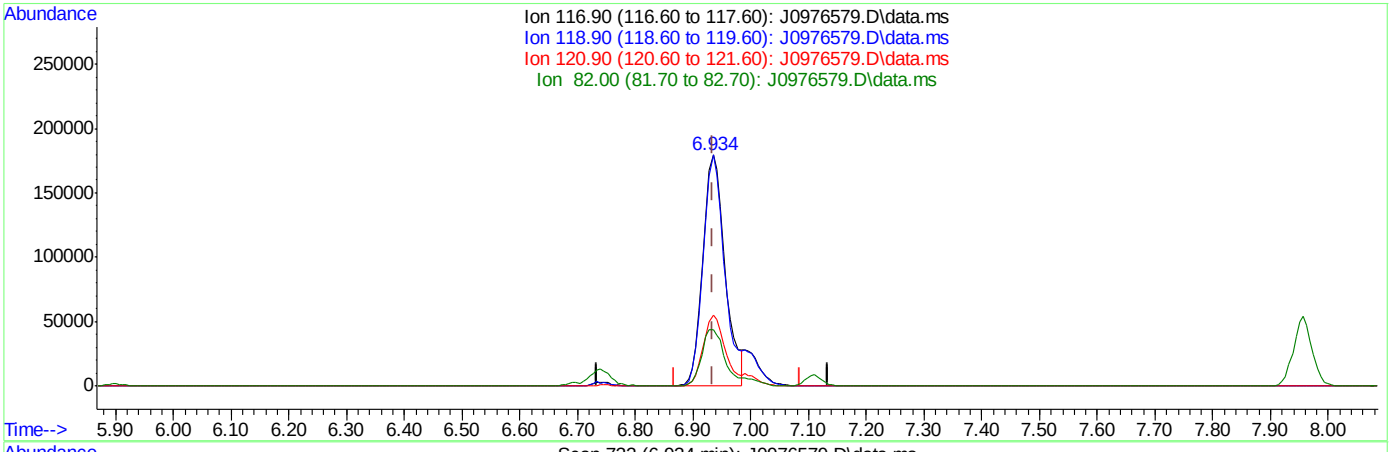
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	100.32
120.90	31.20	30.87
82.00	25.70	24.32

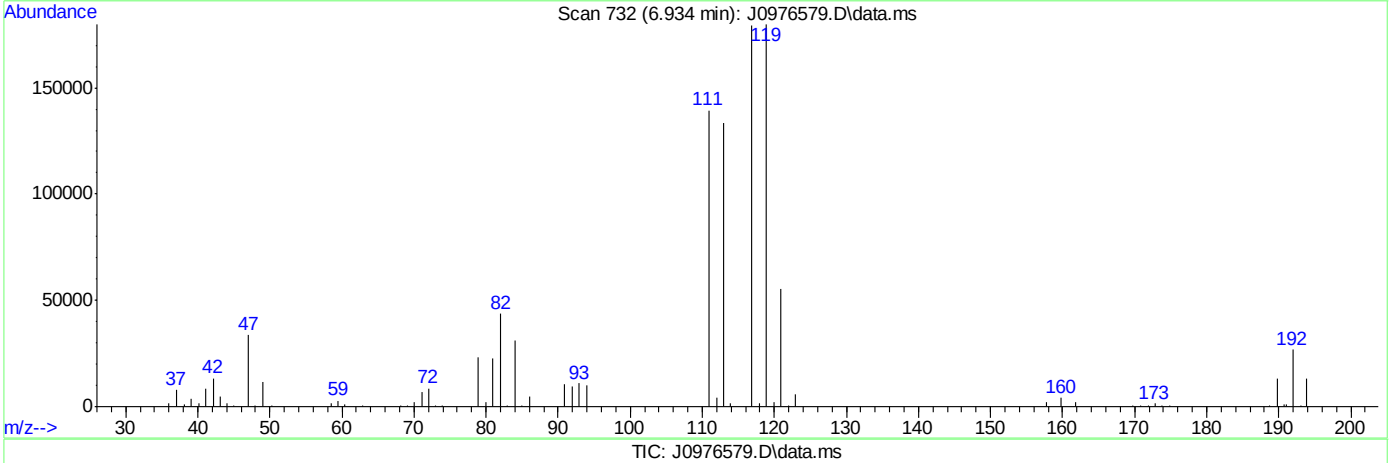
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976579.D
Acq On : 17 May 2016 6:50 pm
Operator : darshnap
Sample : fa33998-1ms ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:07 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976579.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 48.48ug/L m

response 478177

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	100.32
120.90	31.20	30.87
82.00	25.70	24.32

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/18/16 10:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:21:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1345946	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1055866	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	580227	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	89670	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	339706	50.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.74%			
46) 1,2-Dichloroethane-d4	7.482	65	380038	48.20	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.40%			
57) Toluene-d8	9.301	98	1345761	49.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.98%			
79) 4-Bromofluorobenzene	12.051	95	538584	50.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	155779	29.50	ug/L	98
3) Chloromethane	2.901	50	215415	31.15	ug/L	99
4) Vinyl Chloride	3.041	62	220045	29.08	ug/L	99
5) 1,3-Butadiene	3.047	54	30495	Below Cal #		85
6) Bromomethane	3.467	94	132091	27.92	ug/L	94
7) Chloroethane	3.619	64	105838	31.12	ug/L	95
8) Trichlorofluoromethane	3.844	101	304316m	31.59	ug/L	
9) Ethyl Ether	4.124	59	249710	46.85	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.367	67	429432	52.26	ug/L	98
11) 1,1-Dichloroethene	4.404	61	549207	54.51	ug/L	97
12) Freon 113	4.477	101	317947	45.94	ug/L	95
13) Carbon Disulfide	4.477	76	1012168	44.70	ug/L	100
14) Iodomethane	4.592	142	522612	46.50	ug/L	99
15) Allyl chloride	4.927	41	188746	22.33	ug/L	98
16) Methylene Chloride	5.048	49	440620	49.35	ug/L	98
17) Acetone	5.067	58	48993	118.48	ug/L	96
18) Methyl acetate	5.194	74	170418	219.07	ug/L	98
19) trans-1,2-Dichloroethene	5.231	61	516388	56.01	ug/L	95
20) Hexane	5.304	56	294687	46.16	ug/L	98
21) Methyl Tert Butyl Ether	5.334	73	909717	46.11	ug/L	86
22) Acetonitrile	5.602	40	59917	237.22	ug/L #	85
23) Di-isopropyl ether	5.718	45	992497	45.39	ug/L	99
24) Chloroprene	5.876	53	231519	26.15	ug/L	92
25) 1,1-Dichloroethane	5.900	63	644034	52.48	ug/L	96
26) Acrylonitrile	5.931	53	202860	123.81	ug/L	97
27) ETBE	6.119	59	960300	42.90	ug/L	97
28) Vinyl acetate	6.113	43	1140999	113.38	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	378360	47.56	ug/L	96
30) 2,2-Dichloropropane	6.606	77	444846	43.06	ug/L	100
31) Bromochloromethane	6.685	128	168655	45.49	ug/L	98
32) Cyclohexane	6.740	56	589595	50.89	ug/L	98
33) Chloroform	6.740	83	661486	49.37	ug/L	99
34) Ethyl acetate	6.807	43	442388	118.46	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:21:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.922	42	54503	47.74	ug/L		92
37) Carbon Tetrachloride	6.934	117	464695m	44.23	ug/L		
38) 1,1,1-Trichloroethane	6.995	97	561057	46.33	ug/L		96
39) 2-Butanone	7.026	43	199369	112.46	ug/L		99
40) 1,1-Dichloropropene	7.105	75	468250	49.65	ug/L		97
41) tert-Butyl Formate	7.190	59	20791	4.65	ug/L		92
42) Propionitrile	7.336	54	149672	249.68	ug/L		97
43) Methacrylonitrile	7.360	41	619264	247.93	ug/L		88
44) Benzene	7.360	78	1415892	48.27	ug/L		89
45) TAME	7.433	73	845566	40.89	ug/L		96
47) 1,2-Dichloroethane	7.549	62	442036	47.27	ug/L		97
48) Trichloroethene	7.938	95	385885	51.60	ug/L		99
49) Methylcyclohexane	7.956	83	657260	50.47	ug/L		98
50) Dibromomethane	8.364	93	194556	46.06	ug/L		96
51) 1,2-Dichloropropane	8.449	63	350190	48.29	ug/L		98
52) Bromodichloromethane	8.498	83	422033	43.82	ug/L		98
53) Methyl methacrylate	8.595	41	93362	25.46	ug/L		98
54) 2-Chloroethyl vinyl ether	9.118	63	2510	0.68	ug/L	#	36
55) cis-1,3-Dichloropropene	9.112	75	500543	44.40	ug/L		97
58) Toluene	9.356	91	1508894	49.06	ug/L		97
59) 2-Nitropropane	9.556	41	257581	226.09	ug/L		98
60) 4-Methyl-2-pentanone	9.672	43	507572	107.81	ug/L		98
61) trans-1,3-Dichloropropene	9.739	75	463477	47.99	ug/L		96
62) Tetrachloroethene	9.757	166	376400	47.62	ug/L		95
63) Ethyl methacrylate	9.842	69	153464	21.60	ug/L		93
64) 1,1,2-Trichloroethane	9.903	83	248074	48.61	ug/L		97
65) Dibromochloromethane	10.104	129	287476	41.53	ug/L		100
66) 1,3-Dichloropropane	10.183	76	478758	46.41	ug/L		99
67) 1,2-Dibromoethane	10.359	107	277302	46.64	ug/L		99
68) 2-hexanone	10.487	43	353750	112.16	ug/L		98
69) 1-Chlorohexane	10.797	91	489380	52.12	ug/L		99
70) Ethylbenzene	10.858	91	1767178	49.61	ug/L		98
71) Chlorobenzene	10.864	112	1024873	48.70	ug/L		96
72) 1,1,1,2-Tetrachloroethane	10.913	131	346273	48.28	ug/L		99
73) m,p-Xylene	10.998	91	2628256	100.03	ug/L		99
74) o-Xylene	11.436	91	1390678	49.07	ug/L		100
75) Styrene	11.485	104	1053111	48.16	ug/L		99
76) Bromoform	11.546	173	168880	37.66	ug/L		98
77) Isopropylbenzene	11.740	105	1748444	51.86	ug/L		99
80) cis-1,4-Dichloro-2-butene	12.087	53	34793	19.74	ug/L		97
81) n-Propylbenzene	12.160	91	2037548	52.00	ug/L		99
82) Bromobenzene	12.185	156	444124	47.72	ug/L		98
83) 1,1,2,2-Tetrachloroethane	12.221	83	348349	47.41	ug/L		96
84) 1,3,5-Trimethylbenzene	12.343	105	1474658	48.65	ug/L		100
85) 2-Chlorotoluene	12.349	91	1425443	50.55	ug/L		99
86) trans-1,4-Dichloro-2-B...	12.397	53	66712	39.76	ug/L	#	86
87) 1,2,3-Trichloropropane	12.379	110	92776	47.70	ug/L		97
88) Cyclohexanone	12.452	55	16033	90.78	ug/L		94
89) 4-Chlorotoluene	12.519	91	1295228	49.08	ug/L		98
90) a-Methyl Styrene	12.750	118	14138	0.89	ug/L	#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:21:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	851969	50.11	ug/L		97
92)	1,2,4-Trimethylbenzene	12.750	105	1469405	48.67	ug/L		98
93)	Pentachloroethane	12.738	167	135118	23.47	ug/L		93
94)	sec-Butylbenzene	12.866	105	1855404	51.57	ug/L		100
95)	4-Isopropyltoluene	13.000	119	1544601	50.89	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	789394	48.15	ug/L		99
97)	1,4-Dichlorobenzene	13.219	146	790929	46.87	ug/L		99
98)	n-Butylbenzene	13.432	92	854224	49.07	ug/L		96
99)	Benzyl Chloride	13.450	126	97823	35.80	ug/L	#	74
100)	1,2-Dichlorobenzene	13.645	146	725740	47.65	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	46527	46.14	ug/L		96
102)	Hexachlorobutadiene	14.928	225	320826	47.34	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	494424	46.74	ug/L		98
104)	Naphthalene	15.257	128	838666	54.08	ug/L		97
105)	1,2,3-Trichlorobenzene	15.427	180	424951	47.96	ug/L		98
107)	Ethanol	4.282	45	25338m	571.43	ug/L		
108)	acrolein	4.763	56	83022	98.19	ug/L		91
109)	Tert Butyl Alcohol	5.377	59	258218	599.33	ug/L		91
110)	tert Amyl alcohol	7.573	59	152280	431.80	ug/L		95
111)	Isobutyl alcohol	7.451	42	86601	545.59	ug/L	#	80
112)	1,4-Dioxane	8.674	88	121897	2704.80	ug/L		96
113)	3,3-Dimethyl-1-butanol	10.432	57	436087	1098.07	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

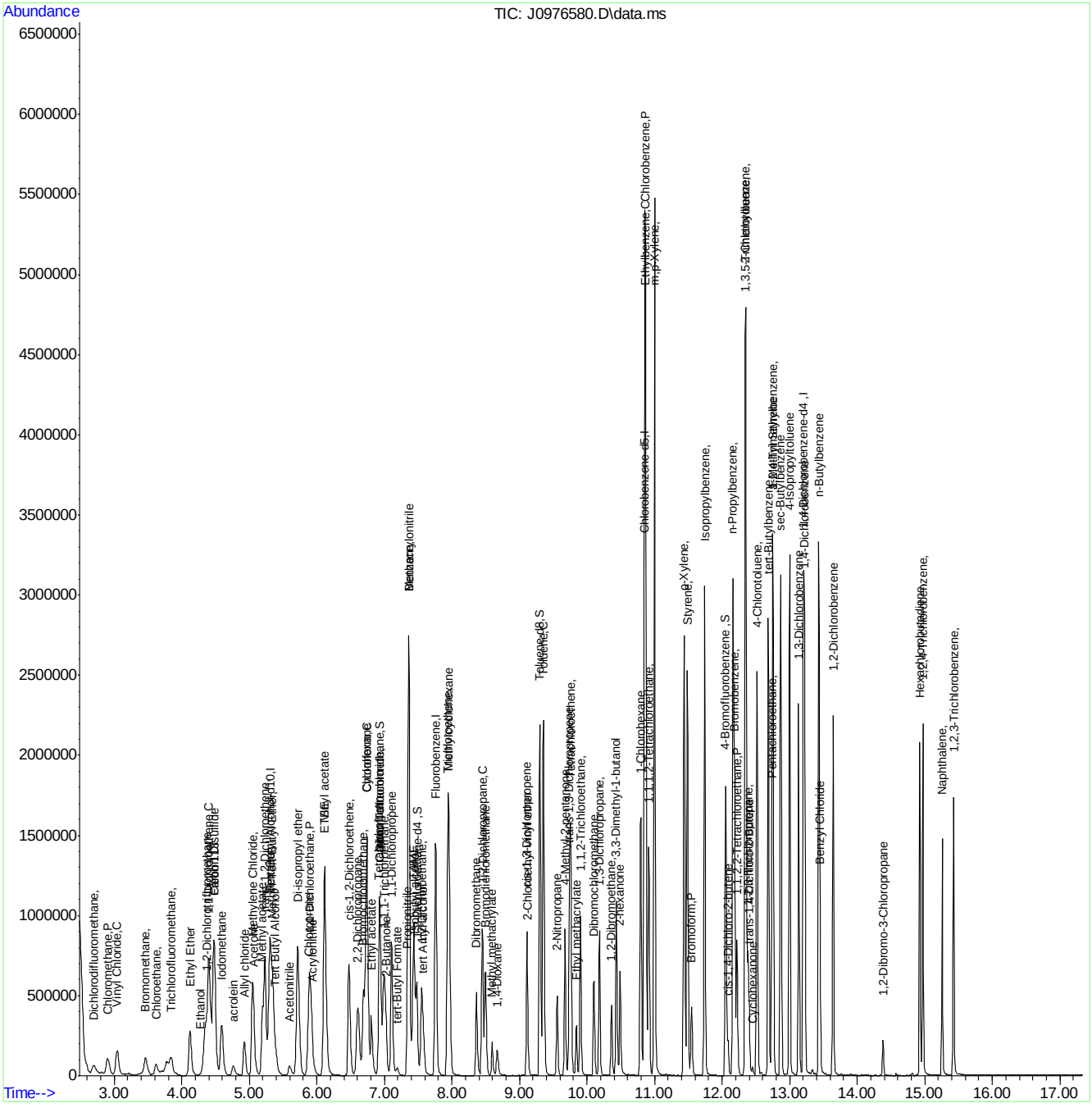
7.4.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:21:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

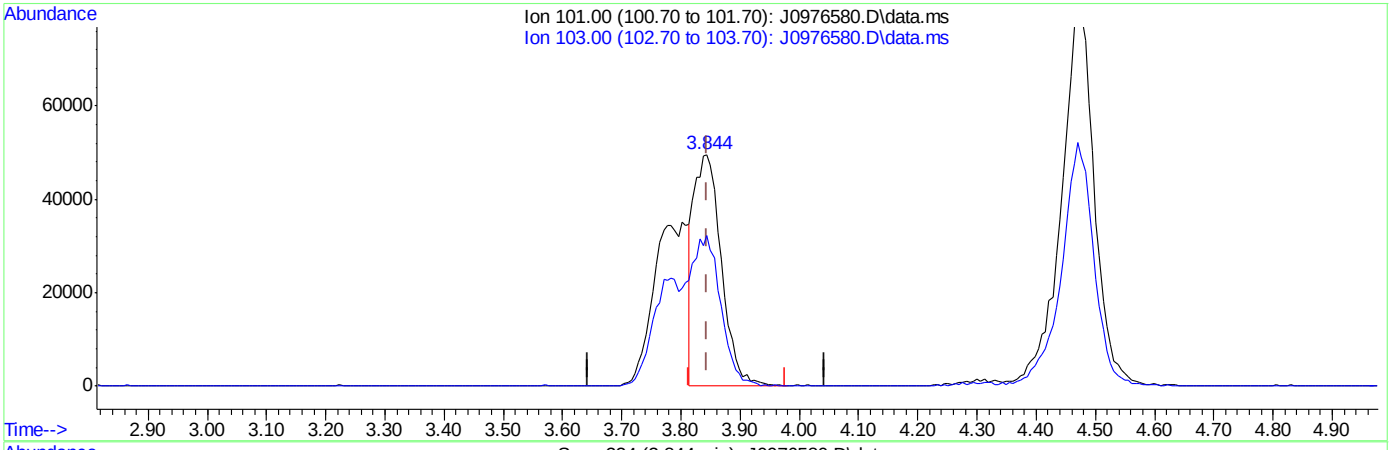
Sample Number:	FA33998-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0976580.D	**Analyst approved:**	05/18/16 09:47 Darshna Patel
Injection Time:	05/17/16 19:13	**Supervisor approved:**	05/18/16 10:40 Juan Garcia

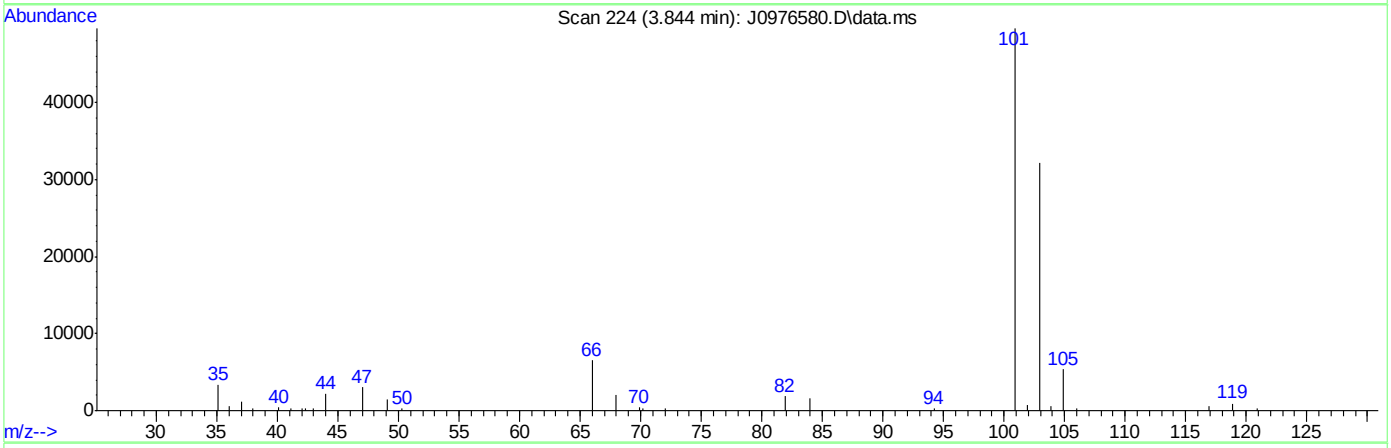
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:10 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (-0.000) 16.67ug/L

response 160540

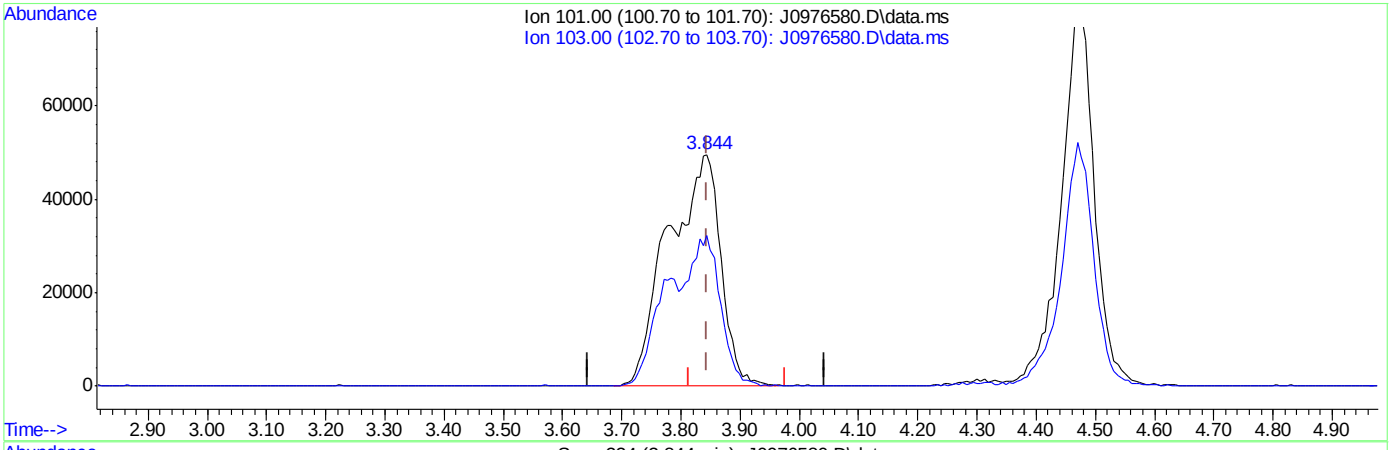
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.89
0.00	0.00	0.00
0.00	0.00	0.00

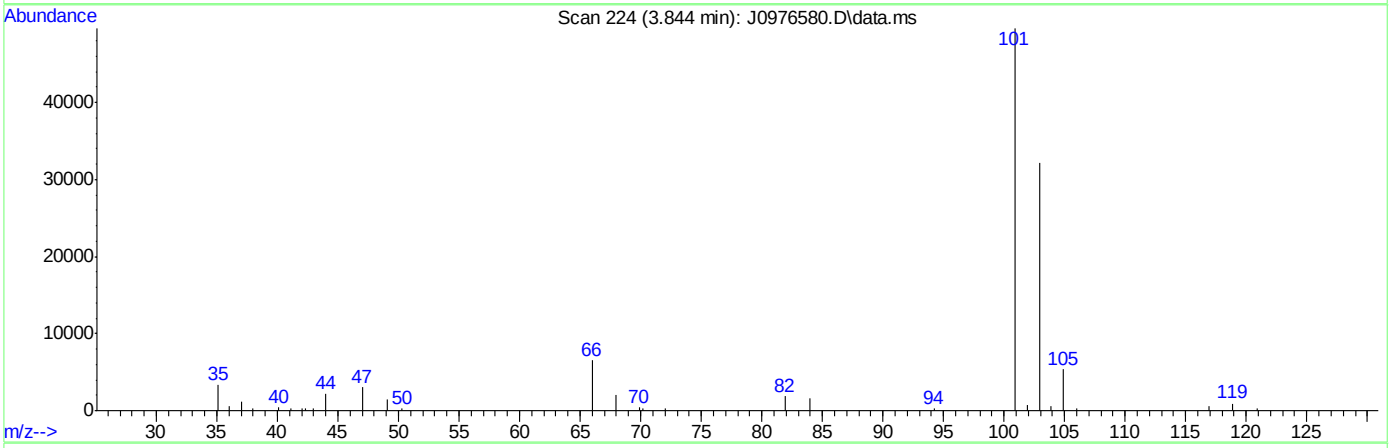
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:10 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (-0.000) 31.59ug/L m

response 304316

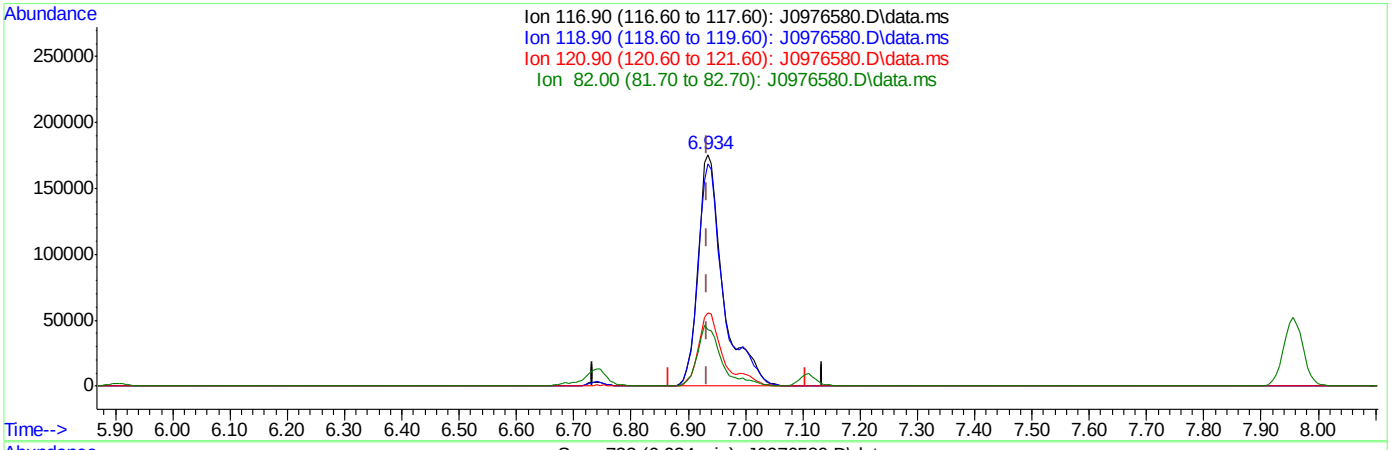
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.89
0.00	0.00	0.00
0.00	0.00	0.00

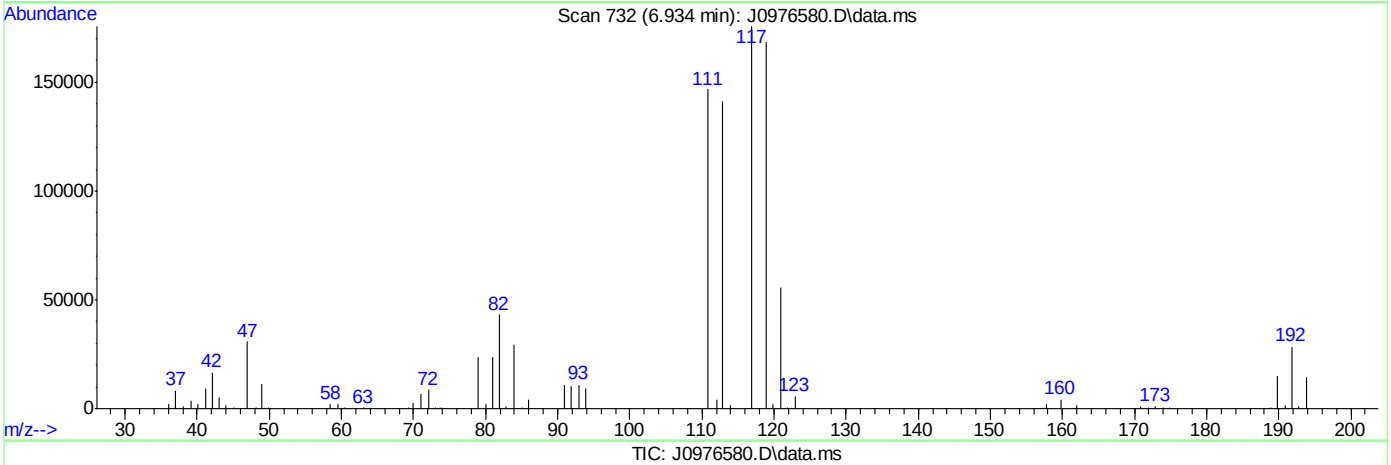
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:10 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976580.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 51.06ug/L

response 536492

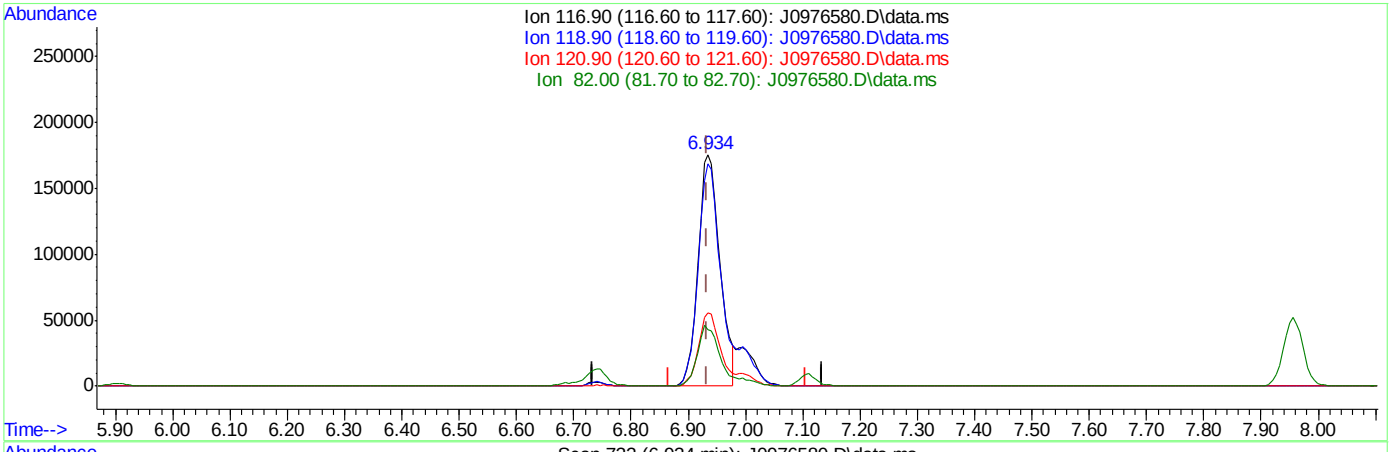
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	95.77
120.90	31.20	31.60
82.00	25.70	24.53

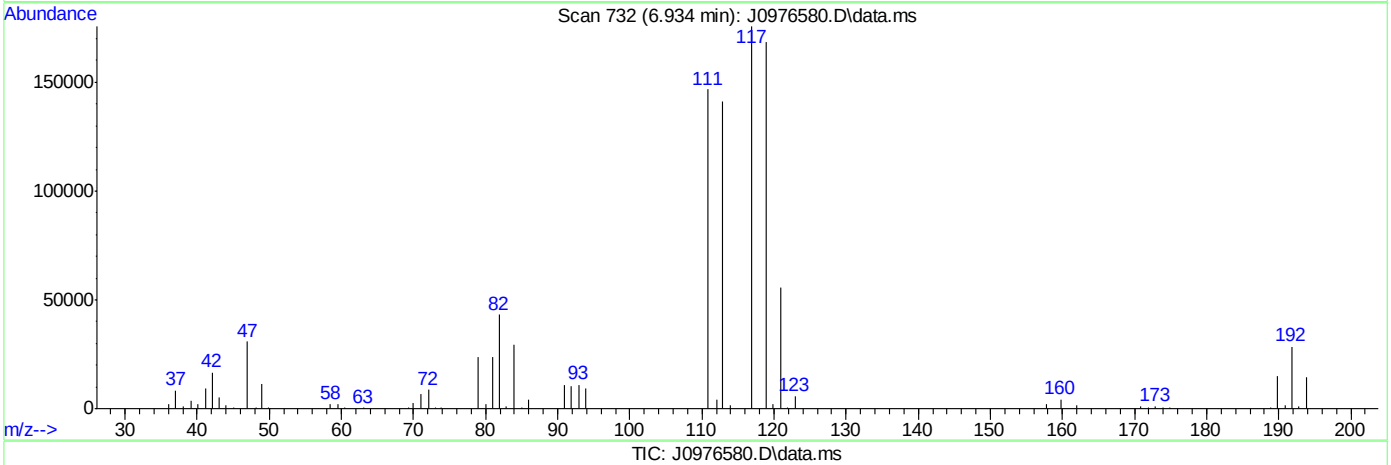
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:10 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976580.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 44.23ug/L m

response 464695

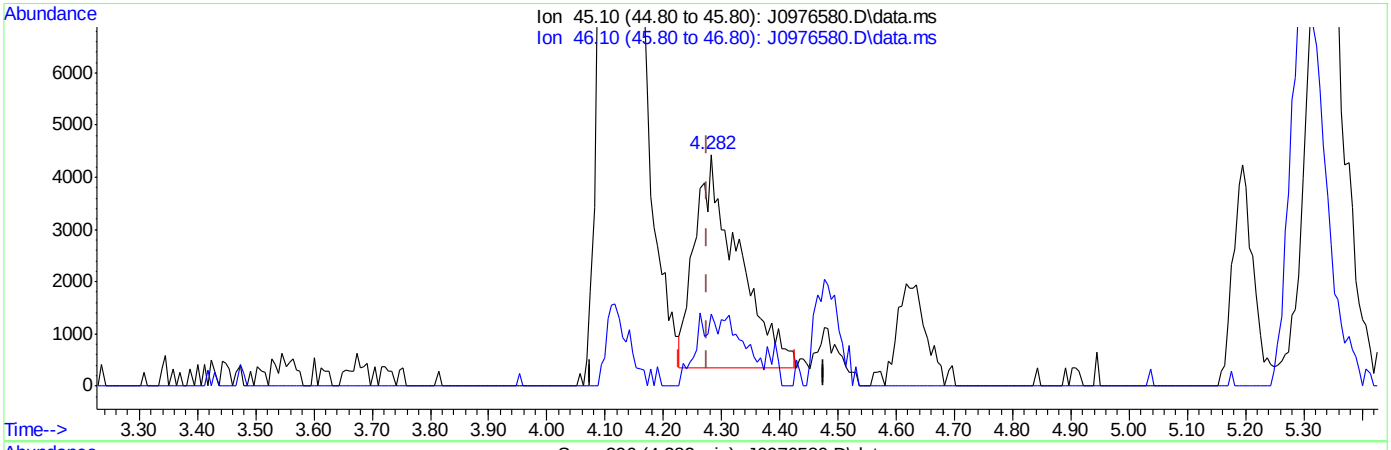
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	95.77
120.90	31.20	31.60
82.00	25.70	24.53

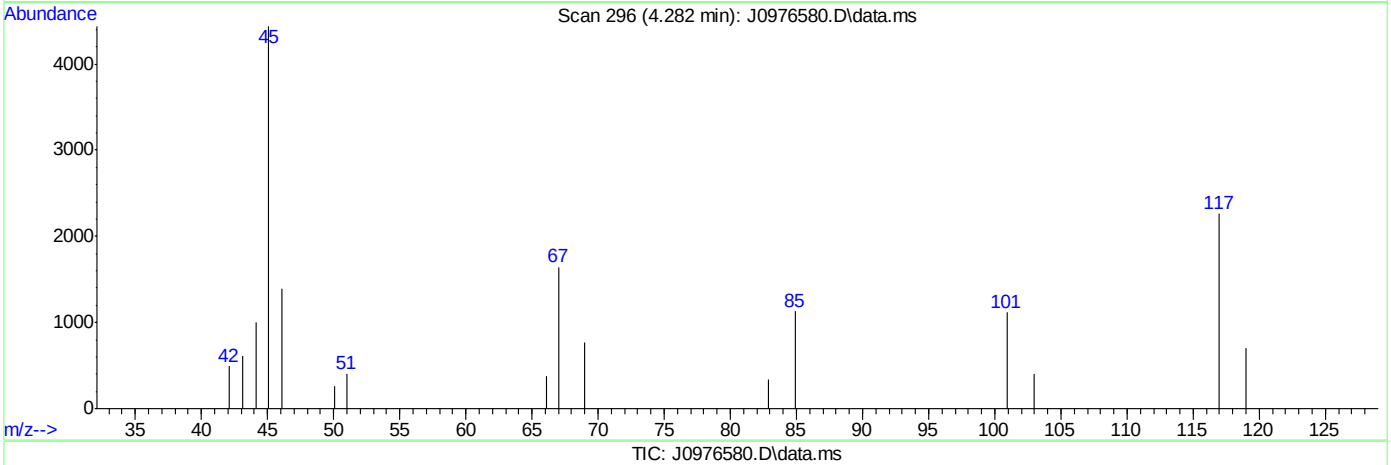
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:10 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976580.D\data.ms

(107) Ethanol

4.282min (+0.006) 478.27ug/L

response 21207

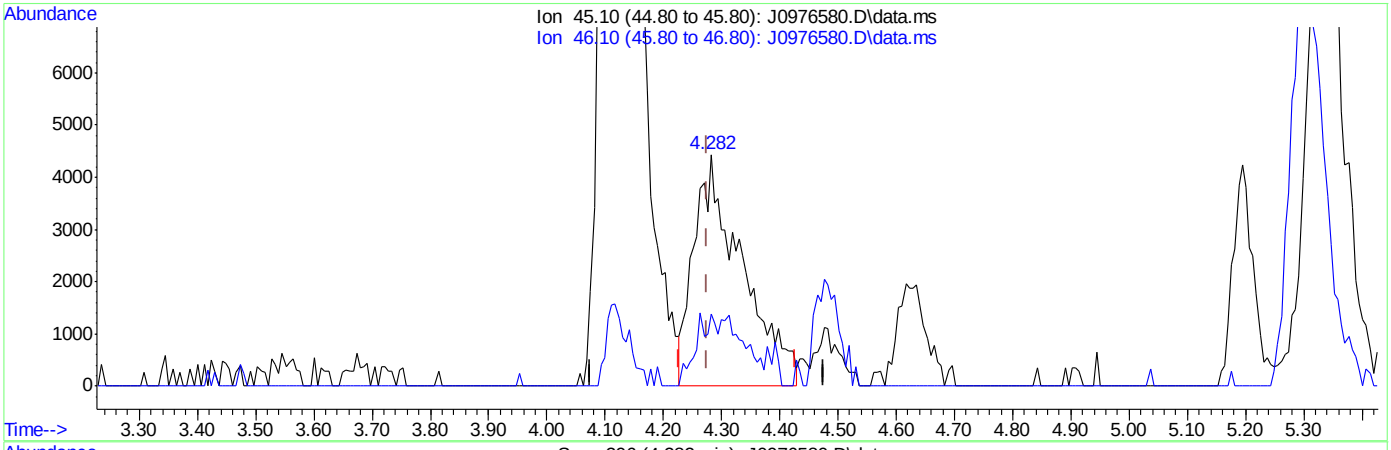
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	33.91
0.00	0.00	0.00
0.00	0.00	0.00

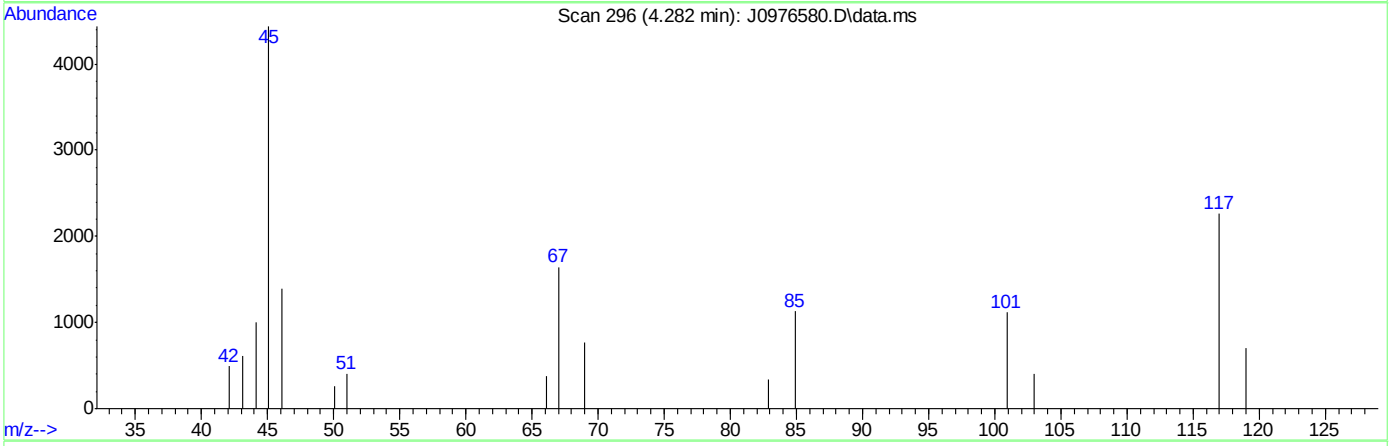
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976580.D
Acq On : 17 May 2016 7:13 pm
Operator : darshnap
Sample : fa33998-1msd ma Inst : MSVOA6
Misc : MS33903,VJ5302,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 18 08:10:10 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976580.D\data.ms

(107) Ethanol

4.282min (+0.006) 571.43ug/L m

response 25338

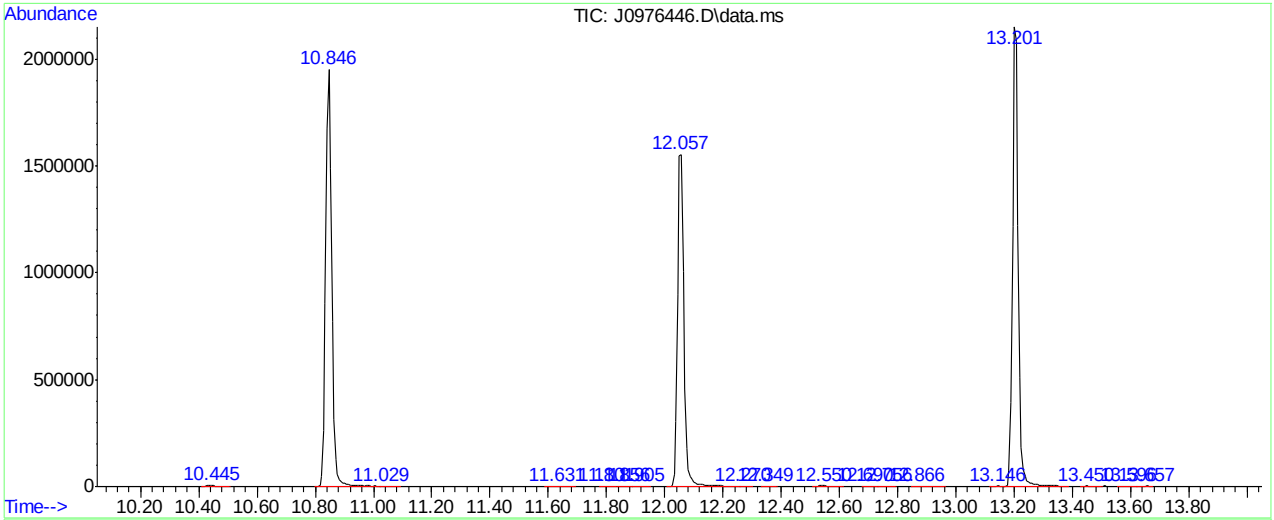
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	31.29
0.00	0.00	0.00
0.00	0.00	0.00

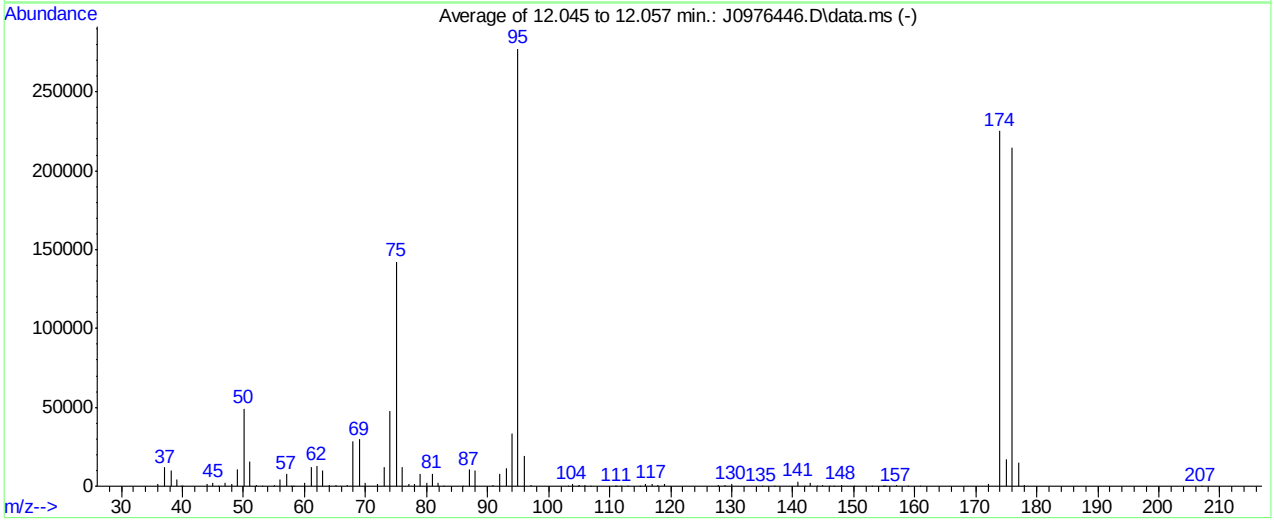
SGS ACCUTEST FA33998

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\051216\J0976446.D Vial: 1
Acq On : 12 May 2016 9:48 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS33839,VJ5295,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1566

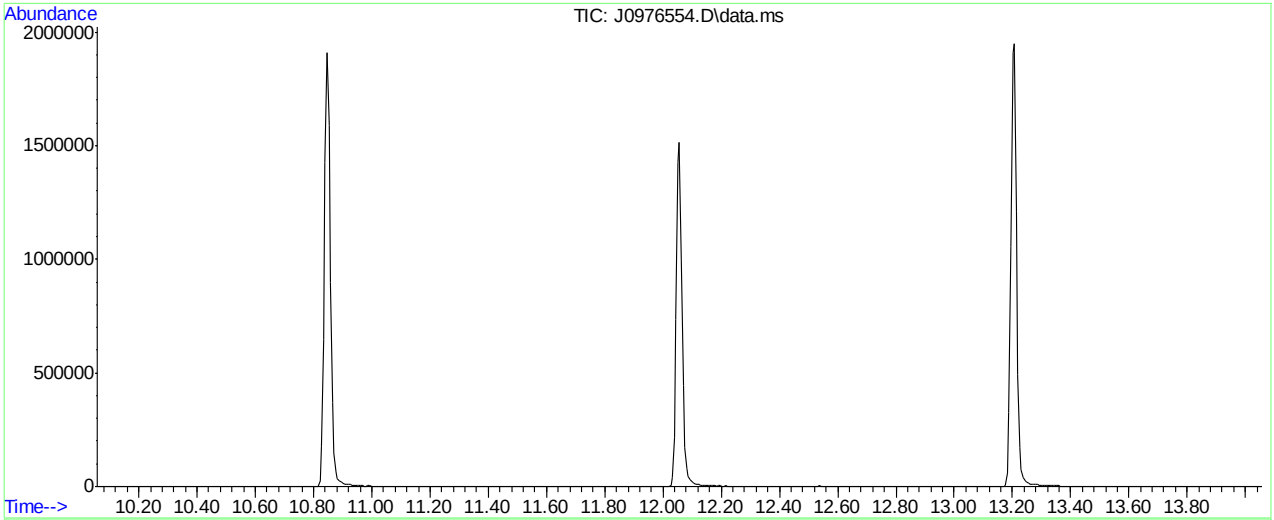
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	49040	PASS
75	95	30	60	51.3	142333	PASS
95	95	100	100	100.0	277525	PASS
96	95	5	9	7.0	19428	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.1	224981	PASS
175	174	5	9	7.6	16995	PASS
176	174	95	101	95.3	214451	PASS
177	176	5	9	7.0	14970	PASS

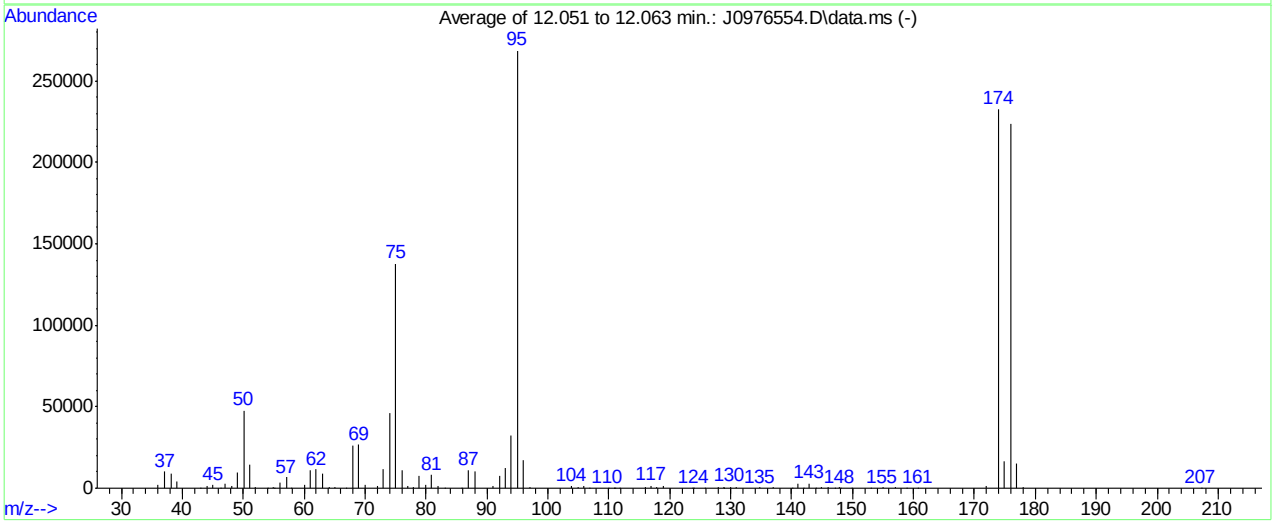
J0976446.D MSJ051216a.M Fri May 13 07:51:47 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\051716\J0976554.D Vial: 1
Acq On : 17 May 2016 8:07 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS33882,VJ5301,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1566

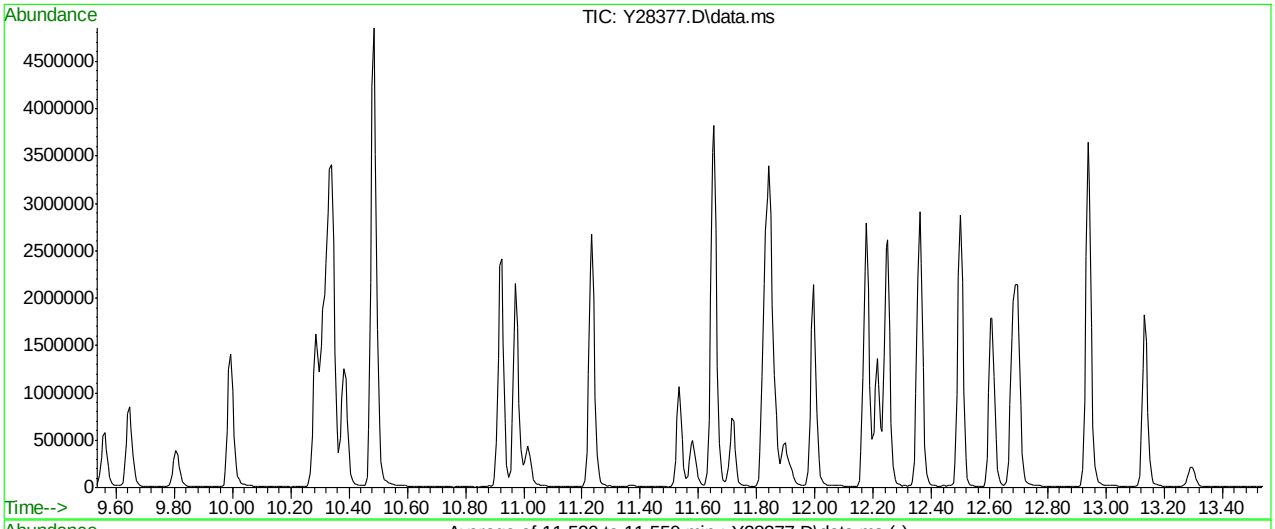
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	47600	PASS
75	95	30	60	51.3	137851	PASS
95	95	100	100	100.0	268672	PASS
96	95	5	9	6.4	17181	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.6	232661	PASS
175	174	5	9	7.2	16768	PASS
176	174	95	101	96.2	223872	PASS
177	176	5	9	6.8	15208	PASS

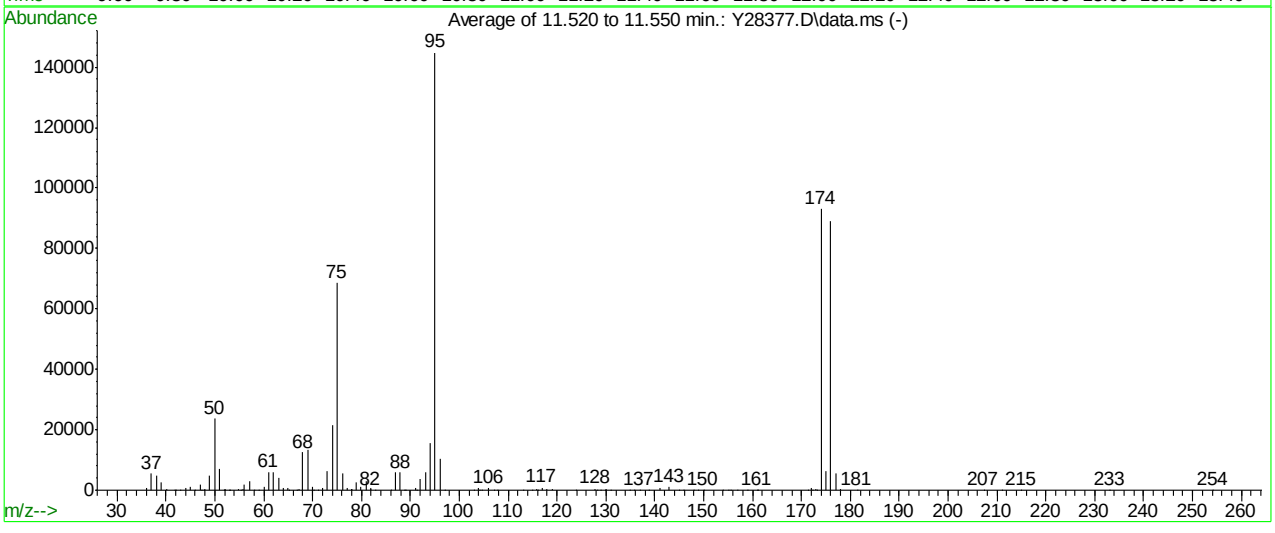
J0976554.D MSJ051216a.M Wed May 18 08:27:28 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\050616\Y28377.D Vial: 7
Acq On : 6 May 2016 11:32 am Operator: ericp
Sample : BFB,CC1133-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\050616APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 11.520 to 11.550 min.

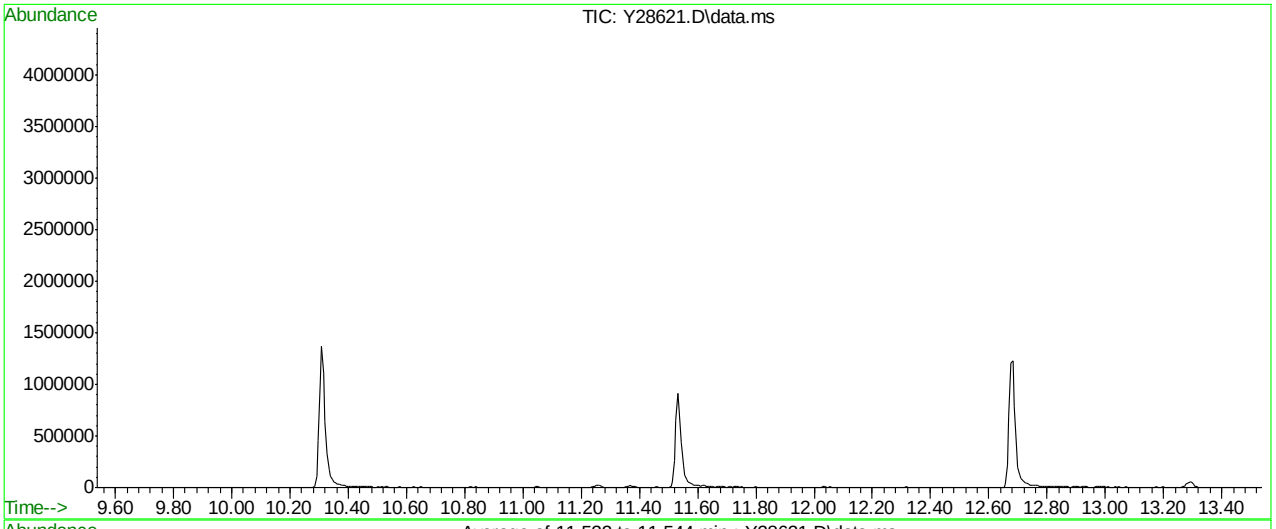
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	23691	PASS
75	95	30	60	47.4	68609	PASS
95	95	100	100	100.0	144834	PASS
96	95	5	9	7.1	10278	PASS
173	174	0.00	2	0.4	330	PASS
174	95	50	100	64.2	92970	PASS
175	174	5	9	7.0	6489	PASS
176	174	95	101	95.8	89094	PASS
177	176	5	9	6.1	5471	PASS

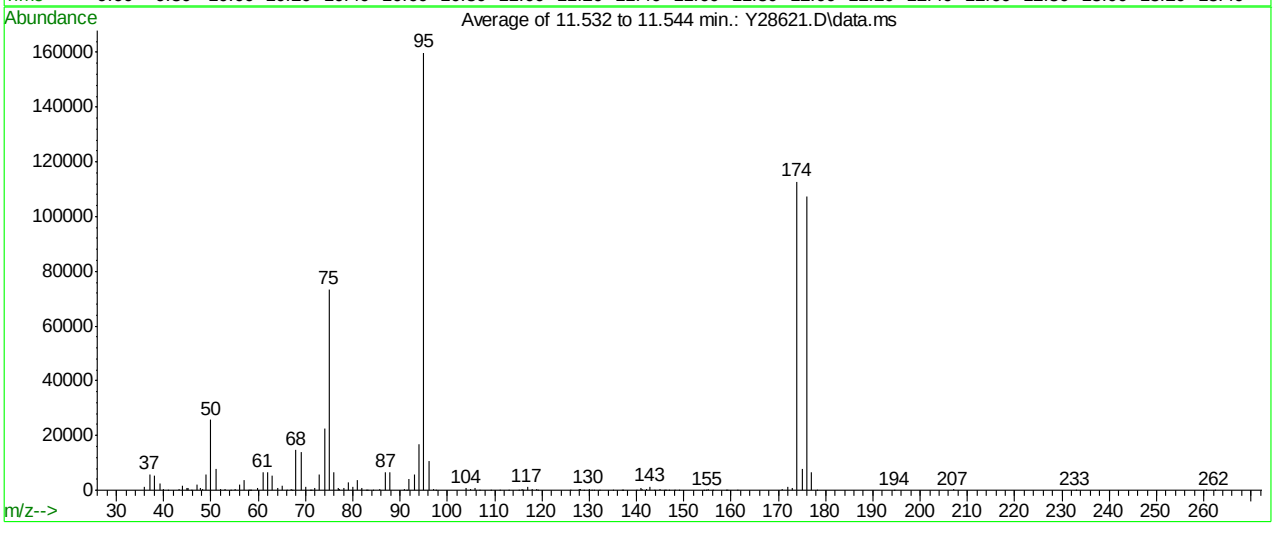
Y28377.D 050616APP9-Y.m Sat May 07 05:53:40 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\051716\Y28621.D Vial: 5
Acq On : 17 May 2016 9:52 am Operator: angied
Sample : BFB Inst : MSVOA14
Misc : MS33876,VY1157,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\050616APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 11.532 to 11.544 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	25649	PASS
75	95	30	60	45.9	73418	PASS
95	95	100	100	100.0	159954	PASS
96	95	5	9	6.7	10787	PASS
173	174	0.00	2	0.8	942	PASS
174	95	50	100	70.4	112669	PASS
175	174	5	9	7.0	7870	PASS
176	174	95	101	95.3	107400	PASS
177	176	5	9	6.0	6478	PASS

Y28621.D 050616APP9-Y.m Wed May 18 09:16:49 2016

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1220480	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	931486	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	506821	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	78596	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	318172	51.01	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.02%			
46) 1,2-Dichloroethane-d4	7.476	65	376867	50.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.04%			
57) Toluene-d8	9.301	98	1225922	49.73	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.46%			
79) 4-Bromofluorobenzene	12.051	95	468698	48.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.676	85	3524	0.43	ug/L #	43
3) Chloromethane	2.877	50	8426	1.05	ug/L	98
4) Vinyl Chloride	3.011	62	7927	0.95	ug/L	83
6) Bromomethane	3.455	94	9395	1.68	ug/L	77
7) Chloroethane	3.607	64	4756	1.01	ug/L	88
8) Trichlorofluoromethane	3.826	101	8379m	0.78	ug/L	
9) Ethyl Ether	4.124	59	6220	1.23	ug/L	87
10) 1,2-Dichlorotrifluoroe...	4.343	67	8753	1.22	ug/L #	80
11) 1,1-Dichloroethene	4.398	61	11746	1.30	ug/L	95
12) Freon 113	4.477	101	6252	1.03	ug/L	95
13) Carbon Disulfide	4.471	76	27905	1.45	ug/L	93
14) Iodomethane	4.586	142	14675	1.48	ug/L	91
15) Allyl chloride	4.921	41	10457	1.23	ug/L	87
16) Methylene Chloride	5.049	49	28024	3.37	ug/L	98
17) Acetone	5.079	58	2129	6.23	ug/L #	70
18) Methyl acetate	5.219	74	3393	4.70	ug/L #	52
19) trans-1,2-Dichloroethene	5.225	61	11557	1.31	ug/L	93
20) Hexane	5.298	56	6249	1.14	ug/L #	79
21) Methyl Tert Butyl Ether	5.334	73	20511	1.25	ug/L	79
22) Acetonitrile	5.614	40	2674	10.39	ug/L #	86
23) Di-isopropyl ether	5.718	45	23578	1.24	ug/L	94
24) Chloroprene	5.876	53	10397	1.11	ug/L	92
25) 1,1-Dichloroethane	5.888	63	15075	1.32	ug/L	85
26) Acrylonitrile	5.937	53	6331m	4.00	ug/L	
27) ETBE	6.107	59	21785	1.15	ug/L	86
28) Vinyl acetate	6.113	43	41381	4.36	ug/L	89
29) cis-1,2-Dichloroethene	6.472	96	9418	1.29	ug/L	85
30) 2,2-Dichloropropane	6.606	77	10514	1.23	ug/L	84
31) Bromochloromethane	6.691	128	4378	1.30	ug/L	95
32) Cyclohexane	6.734	56	9278	0.91	ug/L	90
33) Chloroform	6.734	83	17113	1.37	ug/L	98
34) Ethyl acetate	6.819	43	17301	4.56	ug/L	96
35) Tetrahydrofuran	6.922	42	1401	1.29	ug/L #	56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) Carbon Tetrachloride	6.928	117	10840	1.25 ug/L #	70
38) 1,1,1-Trichloroethane	6.995	97	12325	1.18 ug/L	92
39) 2-Butanone	7.032	43	9966	6.00 ug/L	96
40) 1,1-Dichloropropene	7.099	75	9482	1.09 ug/L	89
41) tert-Butyl Formate	7.184	59	40108	10.47 ug/L #	62
42) Propionitrile	7.342	54	5869	10.17 ug/L #	63
43) Methacrylonitrile	7.360	41	26402	9.65 ug/L	86
44) Benzene	7.354	78	34358	1.30 ug/L	91
45) TAME	7.427	73	21506	1.28 ug/L	96
47) 1,2-Dichloroethane	7.549	62	12505	1.37 ug/L	91
48) Trichloroethene	7.938	95	9147	1.31 ug/L	93
49) Methylcyclohexane	7.950	83	10886	0.99 ug/L	86
50) Dibromomethane	8.364	93	4508	1.24 ug/L	86
51) 1,2-Dichloropropane	8.449	63	8437	1.30 ug/L	95
52) Bromodichloromethane	8.498	83	11616	1.39 ug/L	97
53) Methyl methacrylate	8.614	41	1947	0.56 ug/L #	72
54) 2-Chloroethyl vinyl ether	9.015	63	12060	3.42 ug/L	97
55) cis-1,3-Dichloropropene	9.112	75	11141	1.18 ug/L	92
58) Toluene	9.350	91	39216	1.33 ug/L	89
59) 2-Nitropropane	9.563	41	5959	5.25 ug/L #	77
60) 4-Methyl-2-pentanone	9.678	43	25427	6.26 ug/L	94
61) trans-1,3-Dichloropropene	9.739	75	8906	1.11 ug/L	96
62) Tetrachloroethene	9.757	166	8127	1.03 ug/L	90
63) Ethyl methacrylate	9.848	69	4276	0.61 ug/L #	79
64) 1,1,2-Trichloroethane	9.903	83	5996	1.31 ug/L	82
65) Dibromochloromethane	10.098	129	7335	1.25 ug/L	96
66) 1,3-Dichloropropane	10.183	76	12134	1.30 ug/L	97
67) 1,2-Dibromoethane	10.366	107	5995	1.20 ug/L	78
68) 2-hexanone	10.499	43	15188	5.50 ug/L	88
69) 1-Chlorohexane	10.798	91	7297	0.85 ug/L #	74
70) Ethylbenzene	10.864	91	44101	1.28 ug/L	98
71) Chlorobenzene	10.864	112	26522	1.41 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.913	131	8215	1.38 ug/L	78
73) m,p-Xylene	10.998	91	61575	2.27 ug/L	97
74) o-Xylene	11.436	91	28062	1.15 ug/L	91
75) Styrene	11.491	104	19148	1.06 ug/L	95
76) Bromoform	11.546	173	4545	1.42 ug/L	95
77) Isopropylbenzene	11.747	105	32392	1.04 ug/L	93
80) cis-1,4-Dichloro-2-butene	12.099	53	1572	1.18 ug/L	84
81) n-Propylbenzene	12.166	91	46692	1.32 ug/L	100
82) Bromobenzene	12.185	156	11469	1.40 ug/L	88
83) 1,1,2,2-Tetrachloroethane	12.221	83	8670	1.44 ug/L	92
84) 1,3,5-Trimethylbenzene	12.343	105	31821	1.21 ug/L	95
85) 2-Chlorotoluene	12.355	91	34501	1.35 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.410	53	1304	1.06 ug/L #	42
87) 1,2,3-Trichloropropane	12.385	110	2224	1.35 ug/L	79
88) Cyclohexanone	12.470	55	391	3.88 ug/L #	30
89) 4-Chlorotoluene	12.519	91	30168	1.28 ug/L	98
90) a-Methyl Styrene	12.610	118	12199	1.66 ug/L #	89
91) tert-Butylbenzene	12.683	91	18906	1.22 ug/L	96

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.756	105	31971	1.21	ug/L	96
93) Pentachloroethane	12.738	167	6190	1.72	ug/L #	81
94) sec-Butylbenzene	12.872	105	38289	1.22	ug/L	98
95) 4-Isopropyltoluene	13.000	119	28907	1.11	ug/L	96
96) 1,3-Dichlorobenzene	13.140	146	20532	1.46	ug/L	94
97) 1,4-Dichlorobenzene	13.225	146	23681	1.59	ug/L	88
98) n-Butylbenzene	13.438	92	16805	1.12	ug/L	91
99) Benzyl Chloride	13.450	126	2068	1.24	ug/L #	89
100) 1,2-Dichlorobenzene	13.645	146	19524	1.53	ug/L	93
101) 1,2-Dibromo-3-Chloropr...	14.393	75	935	1.85	ug/L #	72
102) Hexachlorobutadiene	14.928	225	9860	2.44	ug/L	92
103) 1,2,4-Trichlorobenzene	14.977	180	13085	2.97	ug/L	93
104) Naphthalene	15.263	128	13542	2.66	ug/L	92
105) 1,2,3-Trichlorobenzene	15.433	180	11557	4.30	ug/L	95
108) acrolein	4.769	56	4663	5.38	ug/L	99
109) Tert Butyl Alcohol	5.371	59	5423	14.85	ug/L	76
110) tert Amyl alcohol	7.573	59	2714	9.97	ug/L #	64
111) Isobutyl alcohol	7.445	42	2128	14.19	ug/L #	66
112) 1,4-Dioxane	8.680	88	737	21.18	ug/L	83
113) 3,3-Dimethyl-1-butanol	10.439	57	12850	43.34	ug/L	84

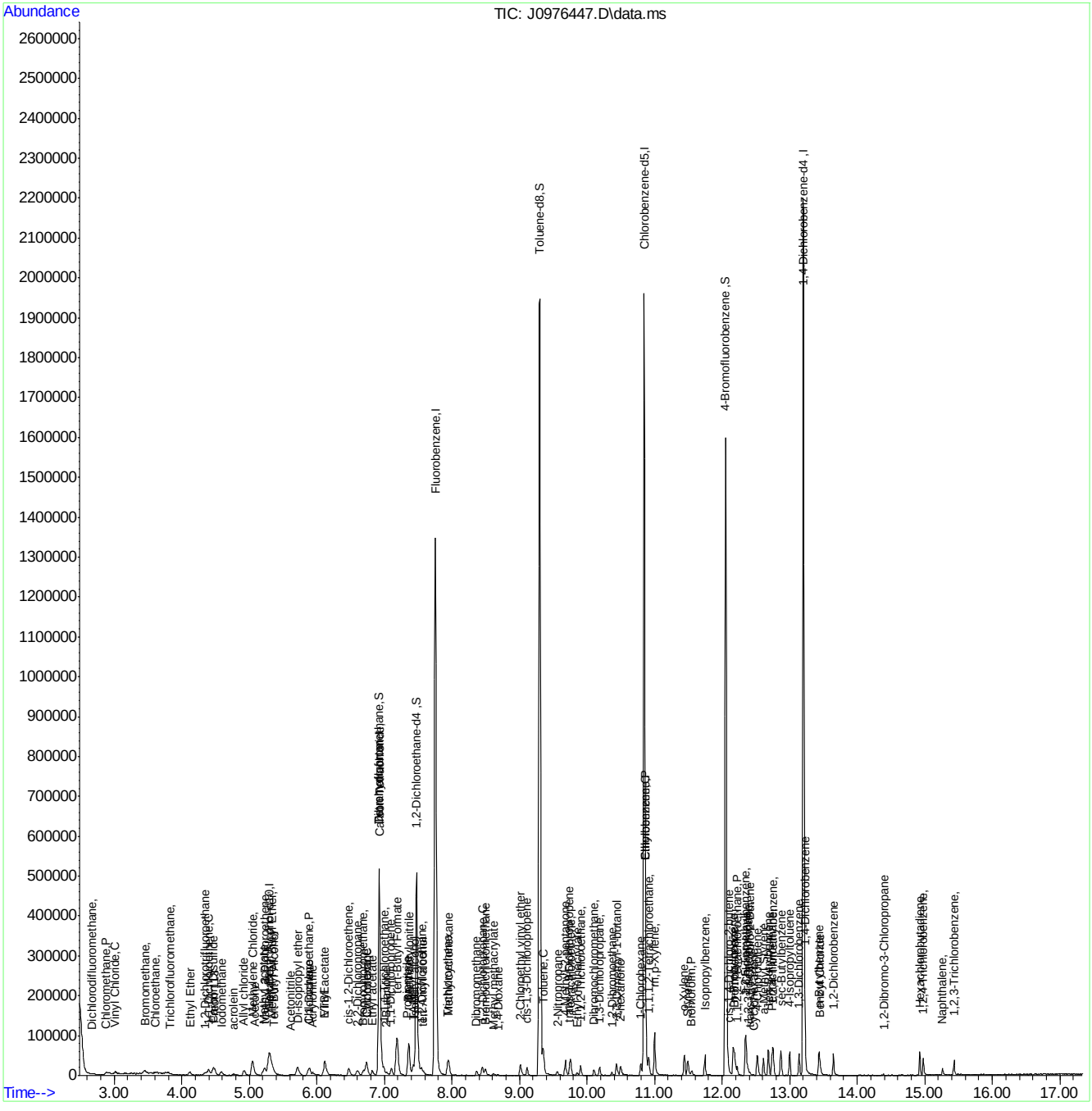
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

Sample Number:	VJ5295-IC5295	**Method:**	SW846 8260B
Lab FileID:	J0976447.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 10:20	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

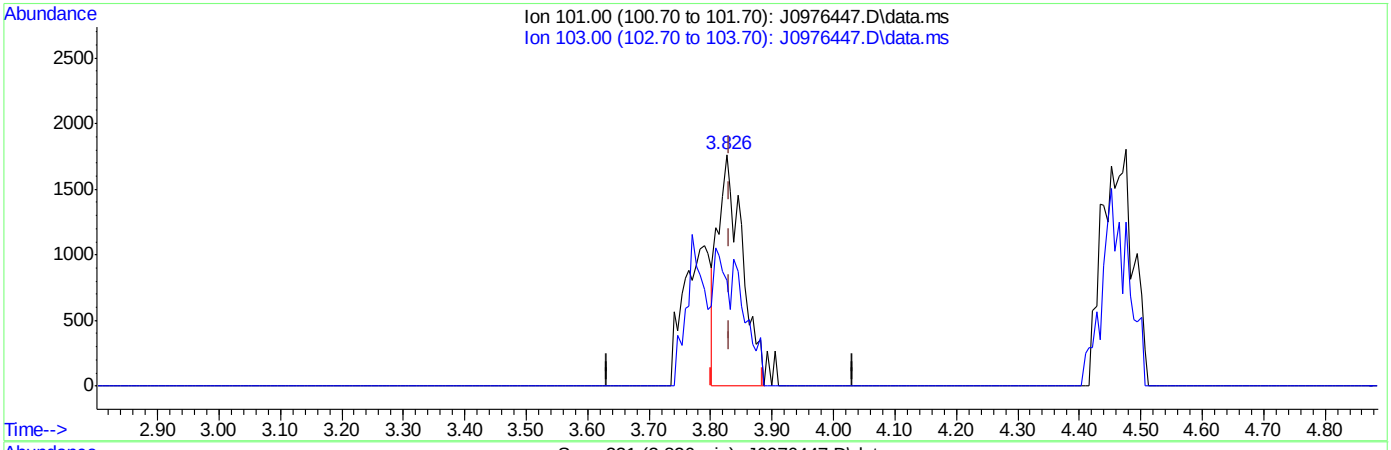
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Acrylonitrile	107-13-1		5.94	Poor instrument integration

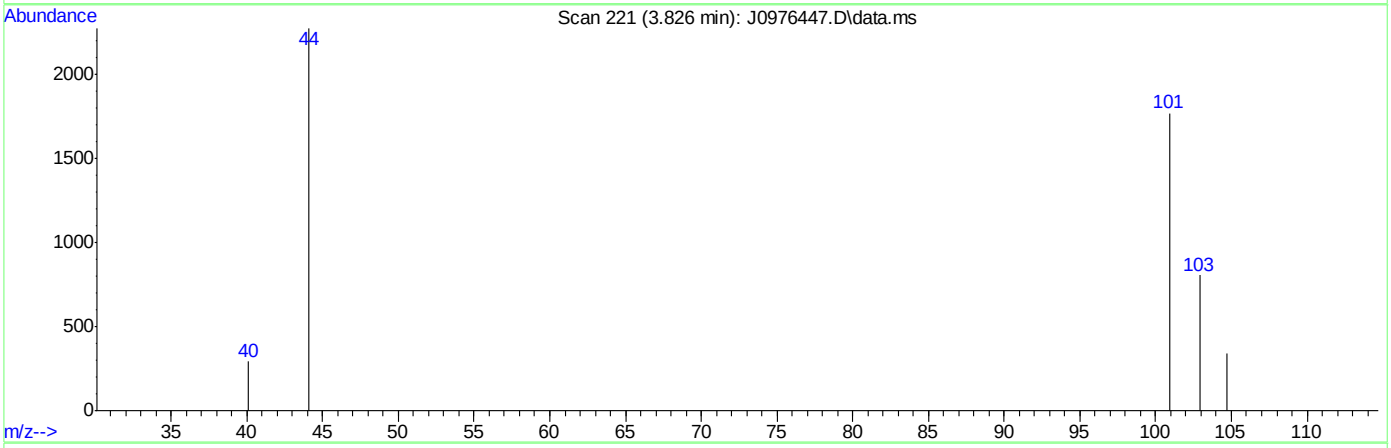
SGS ACCUTEST
FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976447.D\data.ms

(8) Trichlorofluoromethane ( )

3.826min (-0.006) 0.45ug/L

response 4845

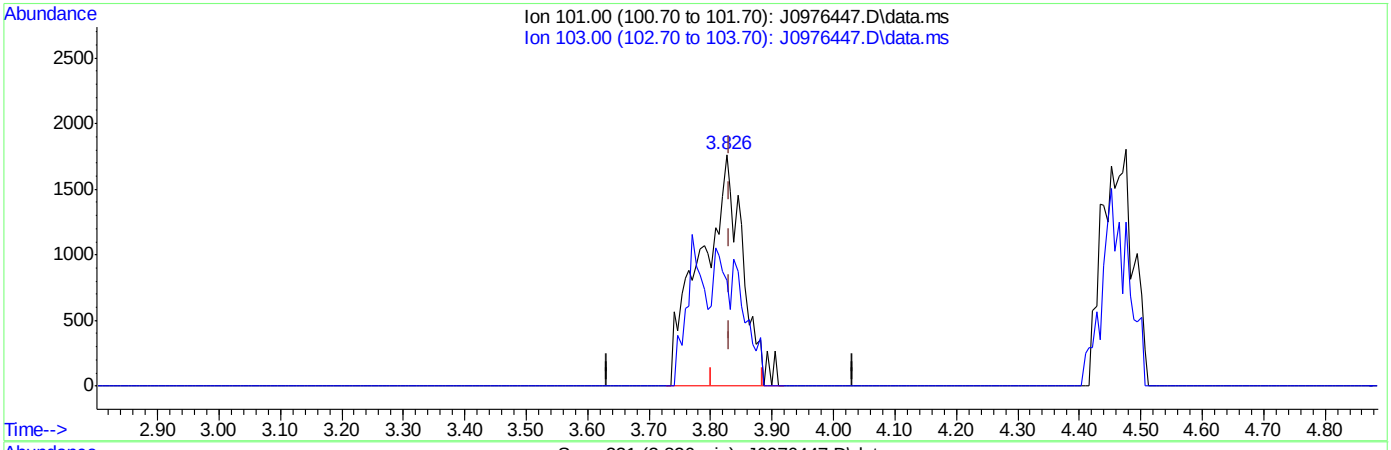
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	45.50
0.00	0.00	0.00
0.00	0.00	0.00

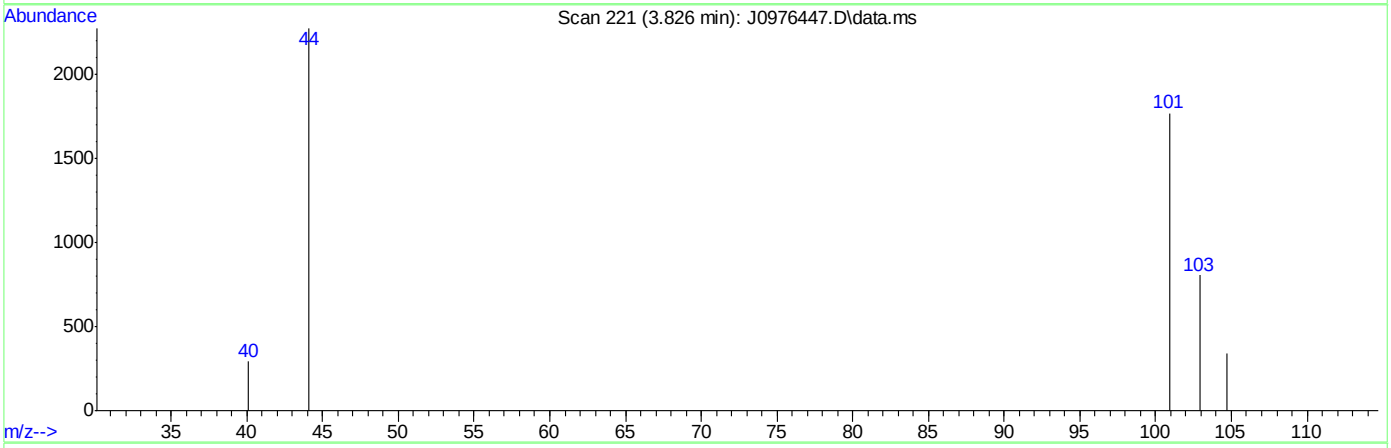
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976447.D\data.ms

(8) Trichlorofluoromethane ( )

3.826min (-0.006) 0.78ug/L m

response 8379

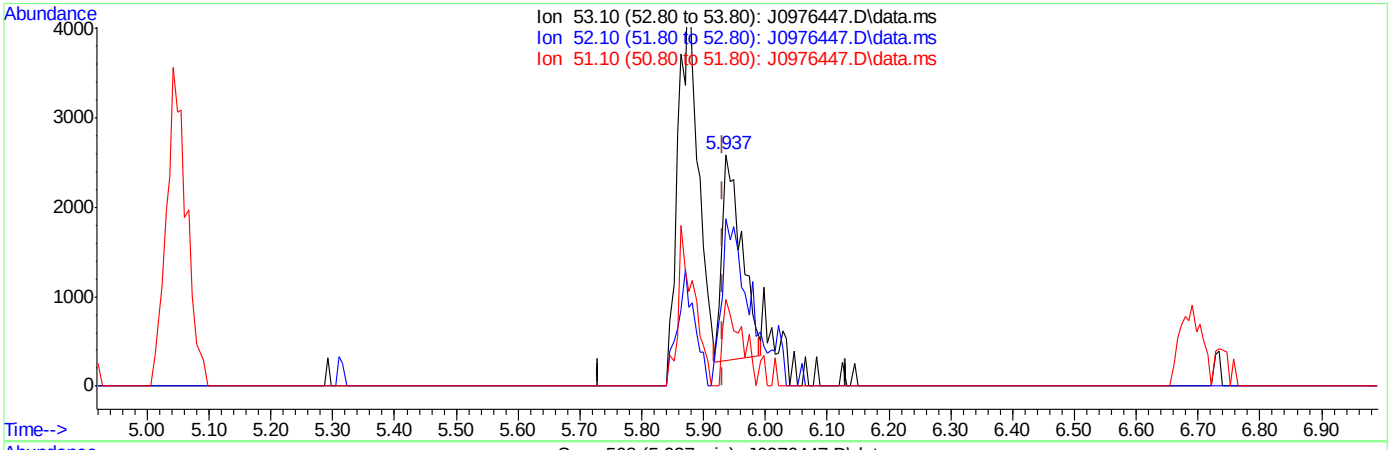
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	45.50
0.00	0.00	0.00
0.00	0.00	0.00

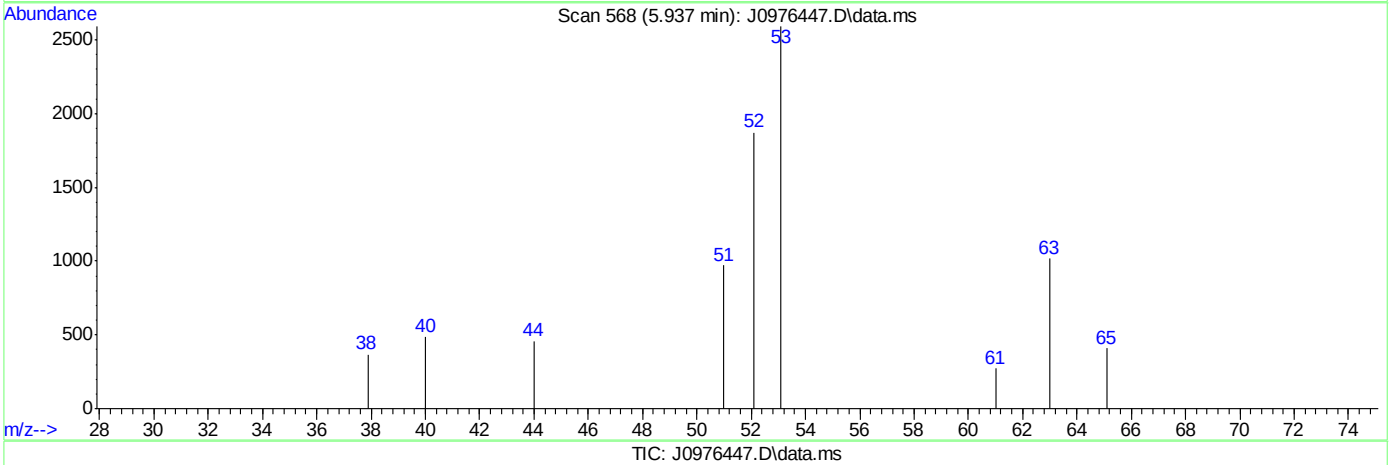
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976447.D\data.ms

(26) Acrylonitrile

5.937min (+0.006) 3.20ug/L

response 5056

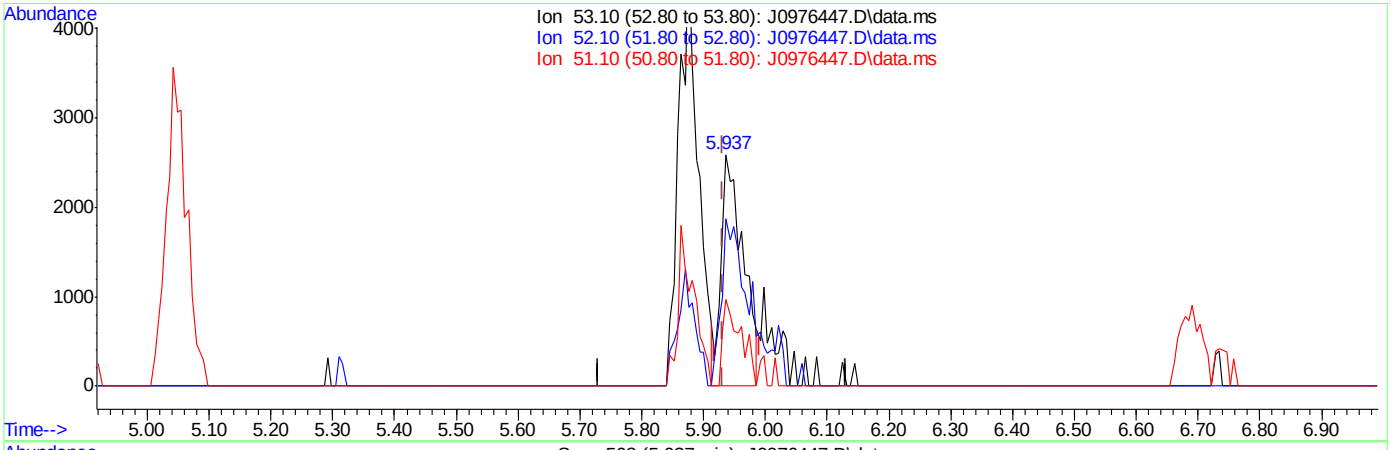
Ion	Exp%	Act%
53.10	100	100
52.10	82.70	68.32
51.10	36.10	43.08
0.00	0.00	0.00

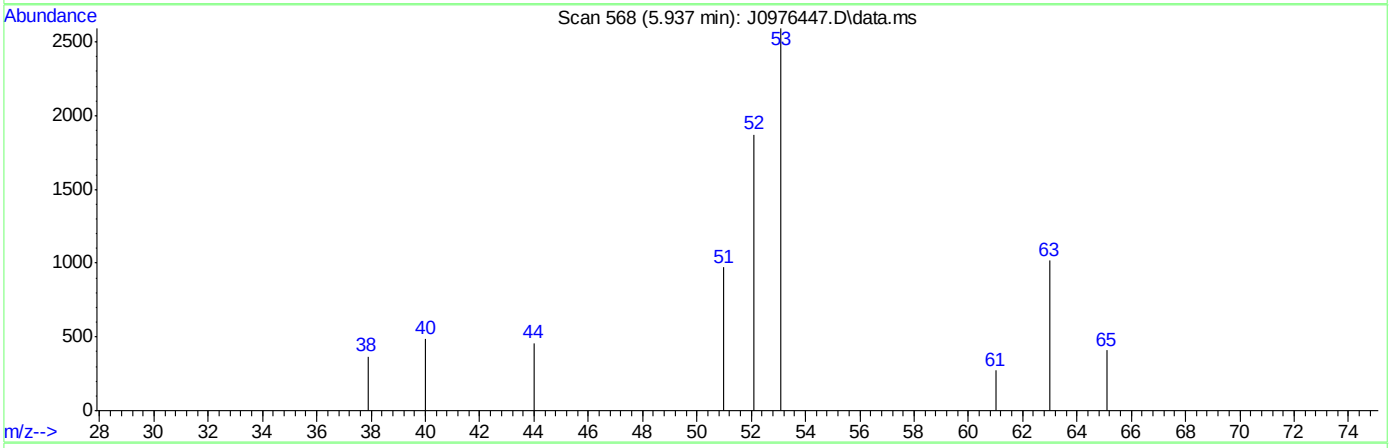
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976447.D\data.ms

(26) Acrylonitrile

5.937min (+0.006) 4.00ug/L m

response 6331

Ion	Exp%	Act%
53.10	100	100
52.10	82.70	72.22
51.10	36.10	37.46
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1198921	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	917884	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	508006	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	75916	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	311191	50.79	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.58%			
46) 1,2-Dichloroethane-d4	7.476	65	367468	49.65	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.30%			
57) Toluene-d8	9.301	98	1216925	50.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.20%			
79) 4-Bromofluorobenzene	12.051	95	466962	47.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	19655	2.45	ug/L	88
3) Chloromethane	2.877	50	28359	3.59	ug/L	96
4) Vinyl Chloride	3.017	62	29279	3.56	ug/L	94
6) Bromomethane	3.443	94	27485	5.07	ug/L	99
7) Chloroethane	3.607	64	16827	3.68	ug/L	91
8) Trichlorofluoromethane	3.838	101	36438m	3.46	ug/L	
9) Ethyl Ether	4.124	59	28715	5.77	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.355	67	40280	5.72	ug/L	98
11) 1,1-Dichloroethene	4.392	61	53960	6.07	ug/L	89
12) Freon 113	4.465	101	37702	6.35	ug/L	93
13) Carbon Disulfide	4.477	76	115423	6.12	ug/L	96
14) Iodomethane	4.586	142	60486	6.22	ug/L	96
15) Allyl chloride	4.927	41	30484	3.64	ug/L	92
16) Methylene Chloride	5.049	49	65702	8.07	ug/L	92
17) Acetone	5.079	58	10015	29.78	ug/L #	77
18) Methyl acetate	5.189	74	19844	27.99	ug/L #	90
19) trans-1,2-Dichloroethene	5.231	61	47719	5.51	ug/L	95
20) Hexane	5.298	56	31932	5.93	ug/L #	89
21) Methyl Tert Butyl Ether	5.329	73	100588	6.22	ug/L	88
22) Acetonitrile	5.596	40	8823	34.98	ug/L #	87
23) Di-isopropyl ether	5.712	45	106623	5.72	ug/L	95
24) Chloroprene	5.870	53	28867	3.14	ug/L	90
25) 1,1-Dichloroethane	5.900	63	63884	5.70	ug/L	96
26) Acrylonitrile	5.937	53	37328	24.02	ug/L	92
27) ETBE	6.113	59	112065	6.01	ug/L	95
28) Vinyl acetate	6.113	43	236117	25.31	ug/L	93
29) cis-1,2-Dichloroethene	6.478	96	40601	5.68	ug/L	93
30) 2,2-Dichloropropane	6.606	77	49975	5.94	ug/L	99
31) Bromochloromethane	6.685	128	19750	5.95	ug/L	95
32) Cyclohexane	6.734	56	52123	5.21	ug/L	92
33) Chloroform	6.740	83	75083	6.13	ug/L	97
34) Ethyl acetate	6.813	43	84425	22.66	ug/L	95
35) Tetrahydrofuran	6.916	42	6777	6.34	ug/L #	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	Carbon Tetrachloride	6.928	117	51124m	6.02	ug/L		
38)	1,1,1-Trichloroethane	6.989	97	58824	5.71	ug/L		94
39)	2-Butanone	7.032	43	41839	25.63	ug/L		95
40)	1,1-Dichloropropene	7.105	75	44271	5.19	ug/L		97
41)	tert-Butyl Formate	7.184	59	208675	55.41	ug/L	#	86
42)	Propionitrile	7.336	54	23793	41.97	ug/L	#	70
43)	Methacrylonitrile	7.360	41	102223	38.21	ug/L		90
44)	Benzene	7.354	78	146939	5.65	ug/L		94
45)	TAME	7.427	73	99239	6.03	ug/L		93
47)	1,2-Dichloroethane	7.549	62	53753	5.99	ug/L		96
48)	Trichloroethene	7.938	95	37266	5.44	ug/L		97
49)	Methylcyclohexane	7.957	83	60178	5.56	ug/L		98
50)	Dibromomethane	8.358	93	21304	5.97	ug/L		94
51)	1,2-Dichloropropane	8.449	63	35327	5.52	ug/L		92
52)	Bromodichloromethane	8.492	83	48760	5.92	ug/L		98
53)	Methyl methacrylate	8.601	41	12180	3.54	ug/L		97
54)	2-Chloroethyl vinyl ether	9.009	63	60893	17.63	ug/L		97
55)	cis-1,3-Dichloropropene	9.112	75	53768	5.79	ug/L		94
58)	Toluene	9.356	91	158750	5.51	ug/L		95
59)	2-Nitropropane	9.557	41	29047	25.96	ug/L		92
60)	4-Methyl-2-pentanone	9.672	43	105509	26.36	ug/L		98
61)	trans-1,3-Dichloropropene	9.739	75	45900	5.81	ug/L		94
62)	Tetrachloroethene	9.757	166	36165	4.63	ug/L		97
63)	Ethyl methacrylate	9.843	69	20916	3.05	ug/L		97
64)	1,1,2-Trichloroethane	9.903	83	26208	5.81	ug/L		95
65)	Dibromochloromethane	10.104	129	33121	5.71	ug/L		95
66)	1,3-Dichloropropane	10.183	76	53771	5.82	ug/L		93
67)	1,2-Dibromoethane	10.360	107	28959	5.89	ug/L		87
68)	2-hexanone	10.493	43	72038	26.46	ug/L		92
69)	1-Chlorohexane	10.798	91	40517	4.80	ug/L		93
70)	Ethylbenzene	10.858	91	186881	5.54	ug/L		90
71)	Chlorobenzene	10.865	112	106646	5.76	ug/L		94
72)	1,1,1,2-Tetrachloroethane	10.913	131	34486	5.87	ug/L		96
73)	m,p-Xylene	10.998	91	270358	10.25	ug/L		97
74)	o-Xylene	11.436	91	129759	5.39	ug/L		98
75)	Styrene	11.485	104	96972	5.45	ug/L		99
76)	Bromoform	11.546	173	20997	6.60	ug/L		96
77)	Isopropylbenzene	11.741	105	151855	4.96	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.087	53	6568	4.93	ug/L		89
81)	n-Propylbenzene	12.160	91	196215	5.54	ug/L		98
82)	Bromobenzene	12.185	156	48748	5.93	ug/L		96
83)	1,1,2,2-Tetrachloroethane	12.221	83	37246	6.18	ug/L		93
84)	1,3,5-Trimethylbenzene	12.343	105	140367	5.32	ug/L		98
85)	2-Chlorotoluene	12.349	91	144879	5.65	ug/L		99
86)	trans-1,4-Dichloro-2-B...	12.404	53	7919	6.38	ug/L	#	63
87)	1,2,3-Trichloropropane	12.379	110	9870	5.96	ug/L		90
88)	Cyclohexanone	12.446	55	3599	35.64	ug/L		91
89)	4-Chlorotoluene	12.519	91	129628	5.50	ug/L		100
90)	a-Methyl Styrene	12.611	118	45641	6.20	ug/L		97
91)	tert-Butylbenzene	12.684	91	80074	5.15	ug/L		94

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	146198	5.53	ug/L	98
93) Pentachloroethane	12.738	167	20422	5.59	ug/L	91
94) sec-Butylbenzene	12.866	105	168704	5.37	ug/L	99
95) 4-Isopropyltoluene	13.000	119	138206	5.28	ug/L	95
96) 1,3-Dichlorobenzene	13.134	146	83316	5.92	ug/L	93
97) 1,4-Dichlorobenzene	13.219	146	88840	5.94	ug/L	92
98) n-Butylbenzene	13.432	92	76502	5.10	ug/L	97
99) Benzyl Chloride	13.450	126	11137	6.56	ug/L #	72
100) 1,2-Dichlorobenzene	13.645	146	78190	6.11	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	4963	9.67	ug/L	81
102) Hexachlorobutadiene	14.928	225	33756	8.27	ug/L	95
103) 1,2,4-Trichlorobenzene	14.977	180	49773	11.08	ug/L	97
104) Naphthalene	15.257	128	64131	12.01	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	43826	15.47	ug/L	92
107) Ethanol	4.276	45	3488m	105.94	ug/L	
108) acrolein	4.757	56	16510	19.72	ug/L	93
109) Tert Butyl Alcohol	5.377	59	23268	65.98	ug/L	92
110) tert Amyl alcohol	7.573	59	14619	55.57	ug/L	92
111) Isobutyl alcohol	7.458	42	13258	92.14	ug/L #	86
112) 1,4-Dioxane	8.668	88	4588	136.48	ug/L	93
113) 3,3-Dimethyl-1-butanol	10.433	57	68847	238.19	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.2

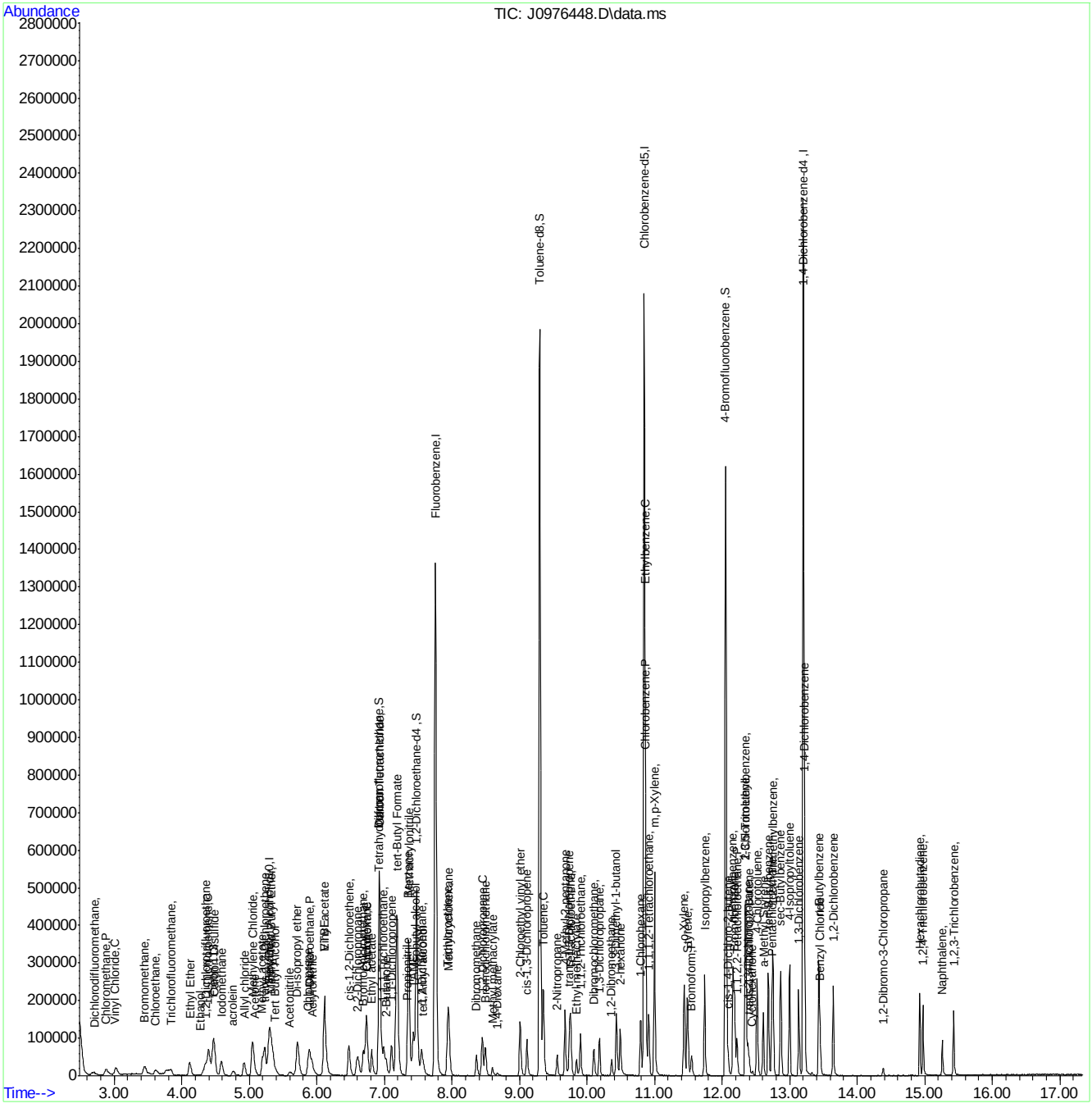
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



MSJ051216a.M Fri May 13 07:49:39 2016 Page: 4

Manual Integration Approval Summary

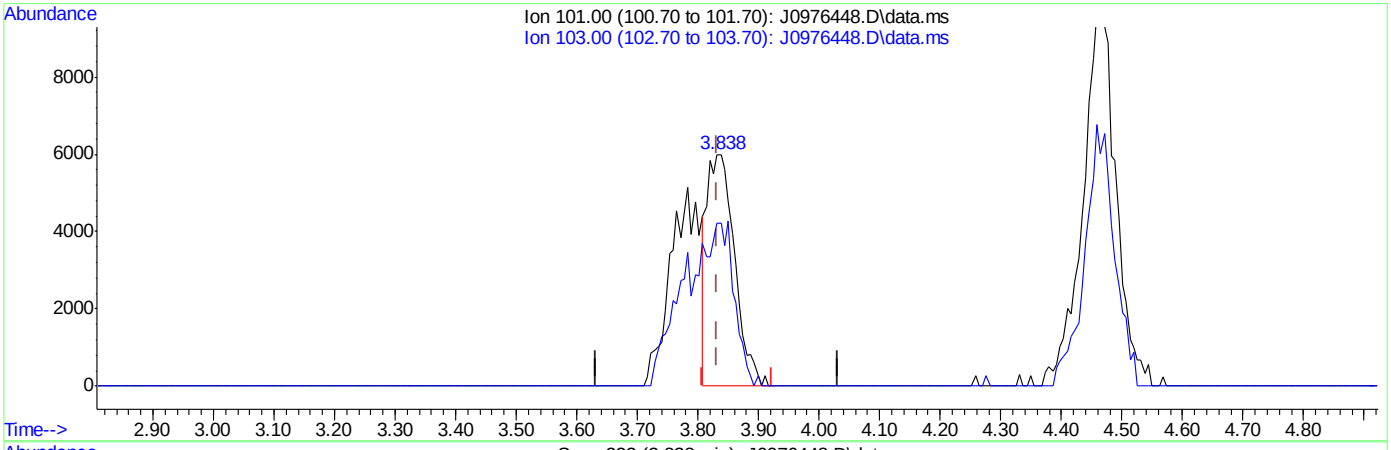
Sample Number:	VJ5295-IC5295	**Method:**	SW846 8260B
Lab FileID:	J0976448.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 10:43	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

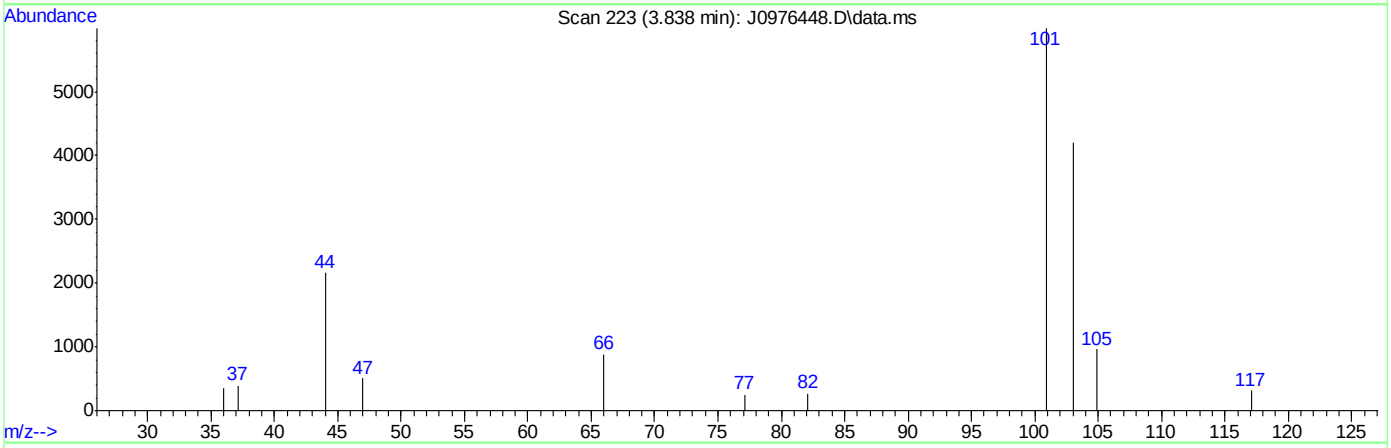
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976448.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 1.79ug/L

response 18868

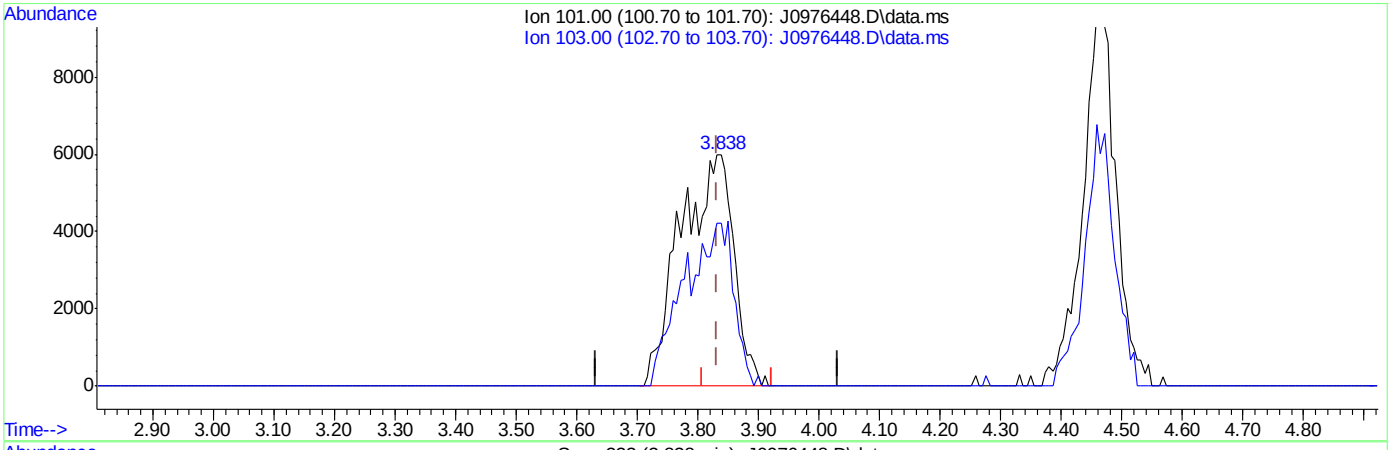
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	70.14
0.00	0.00	0.00
0.00	0.00	0.00

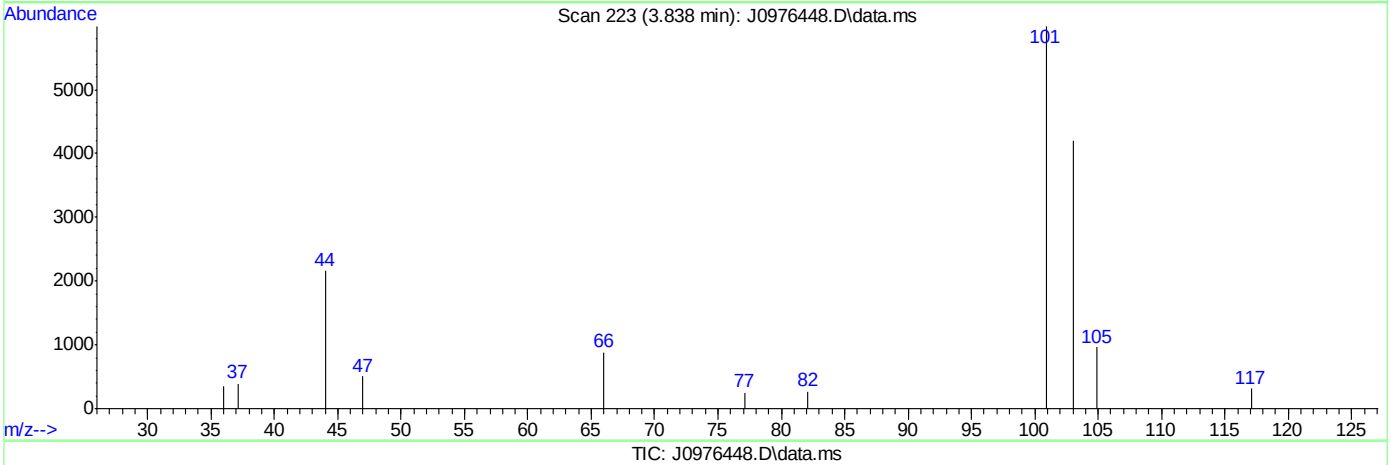
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976448.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 3.46ug/L m

response 36438

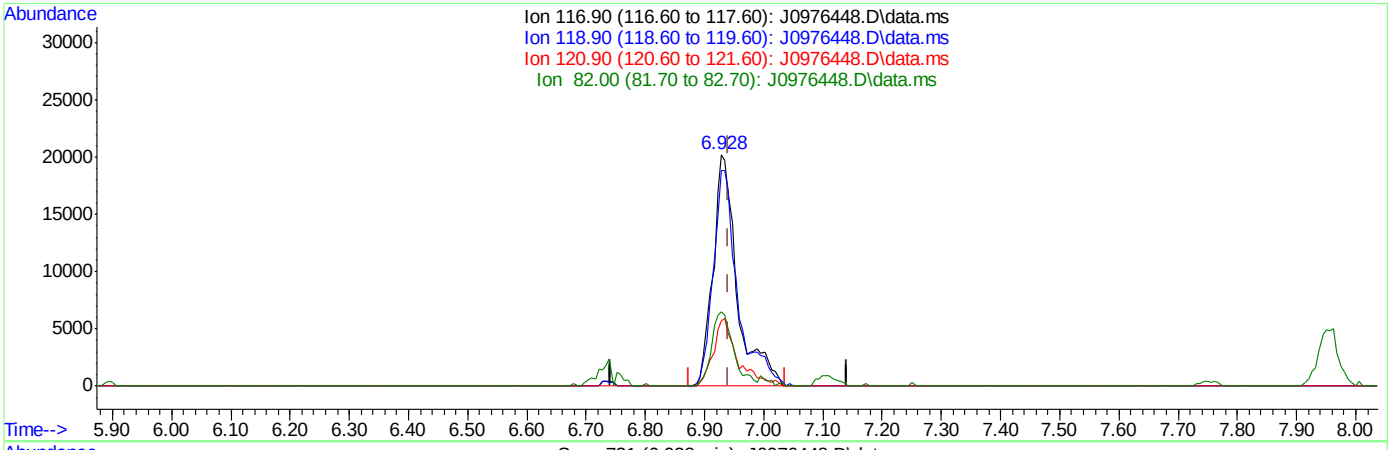
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	70.14
0.00	0.00	0.00
0.00	0.00	0.00

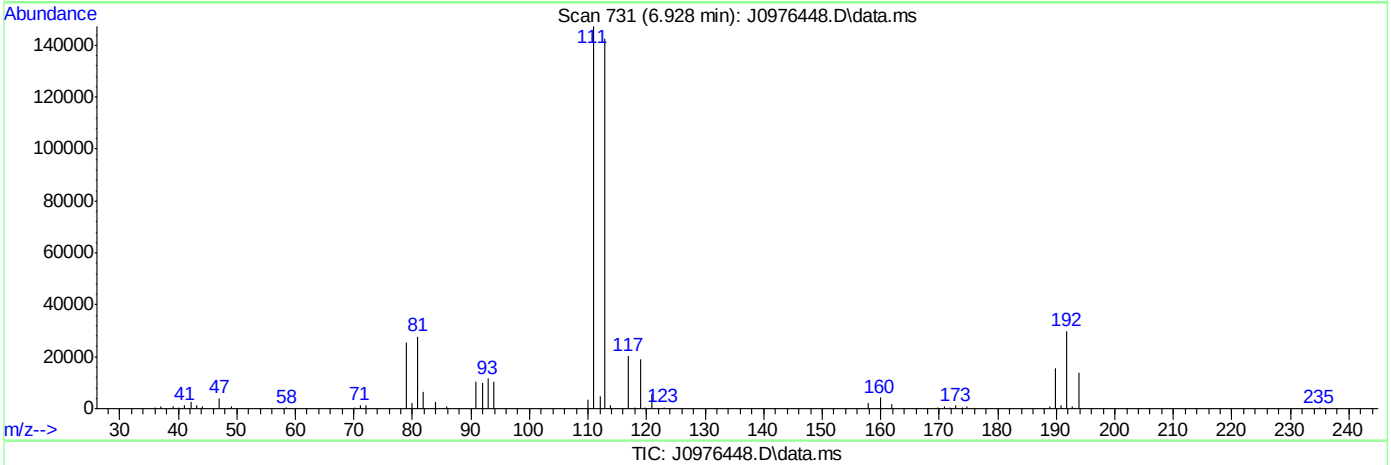
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976448.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 6.79ug/L

response 57631

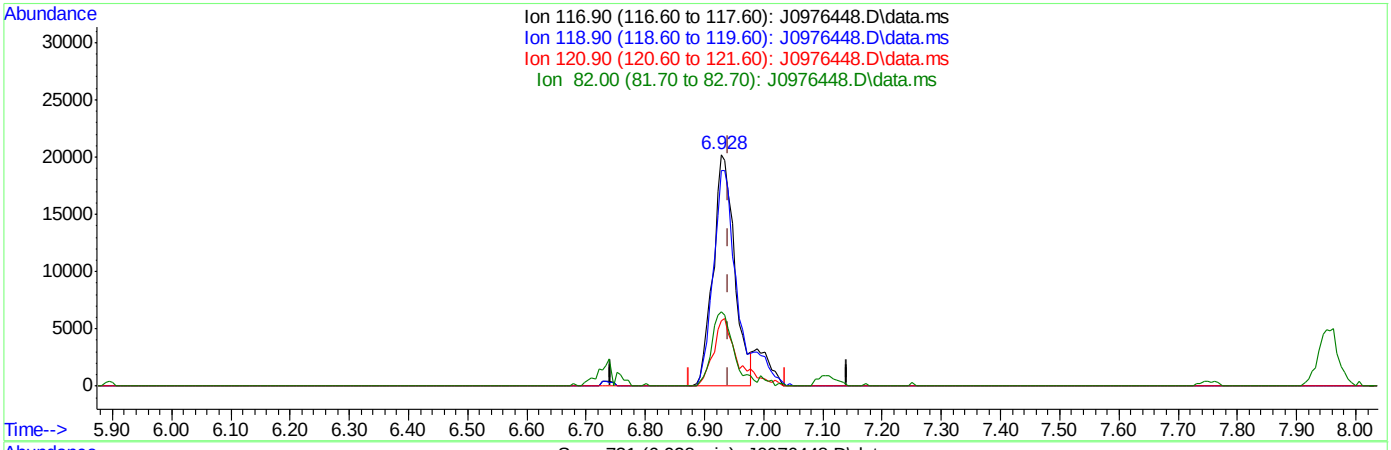
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	93.16
120.90	31.80	28.31
82.00	25.40	31.91

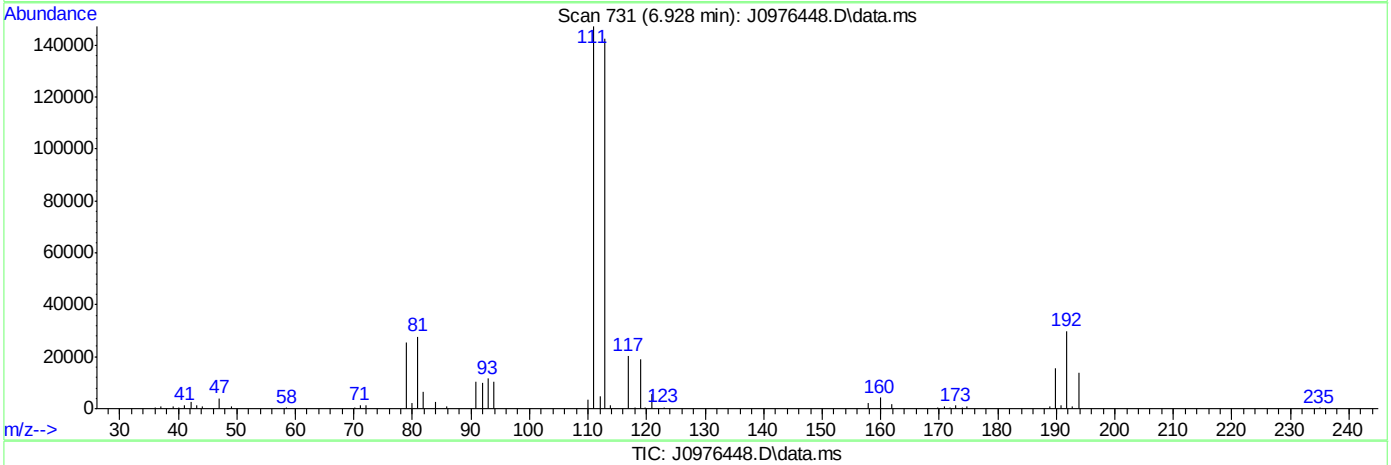
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976448.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 6.02ug/L m

response 51124

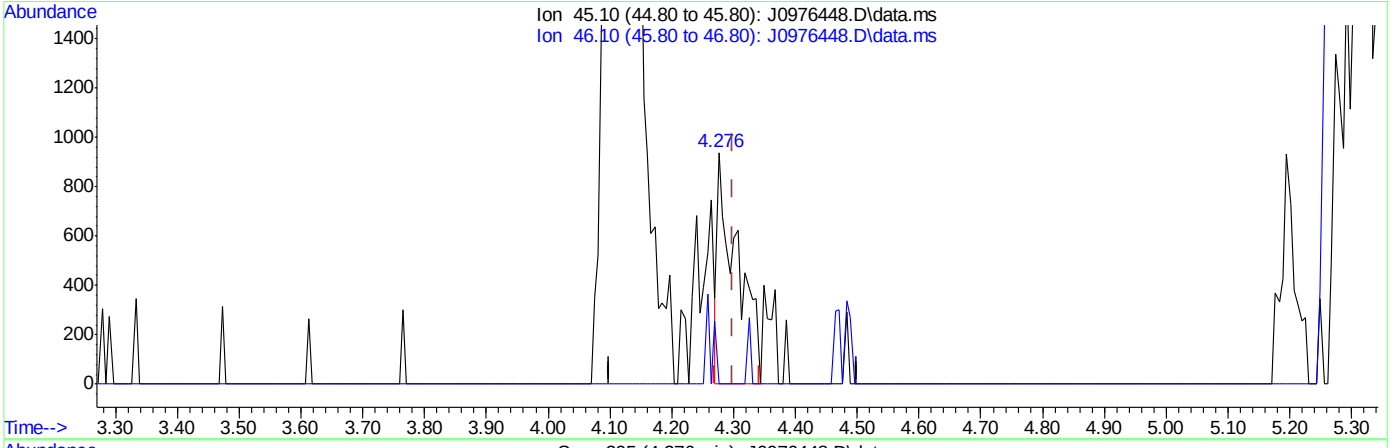
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	93.16
120.90	31.80	28.31
82.00	25.40	31.91

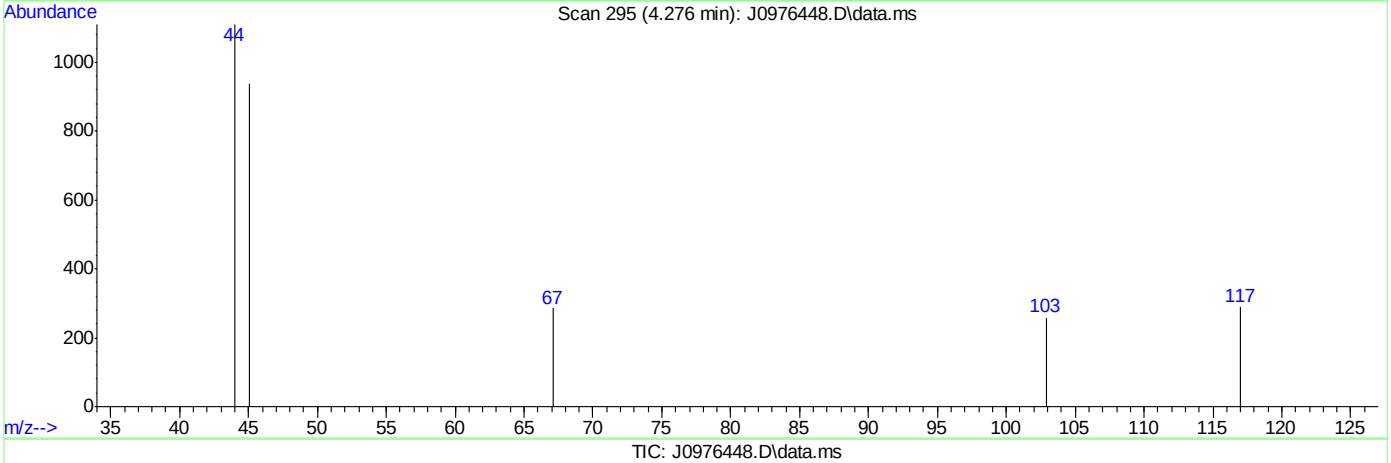
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976448.D\data.ms

(107) Ethanol

4.276min (-0.024) 62.51ug/L

response 2058

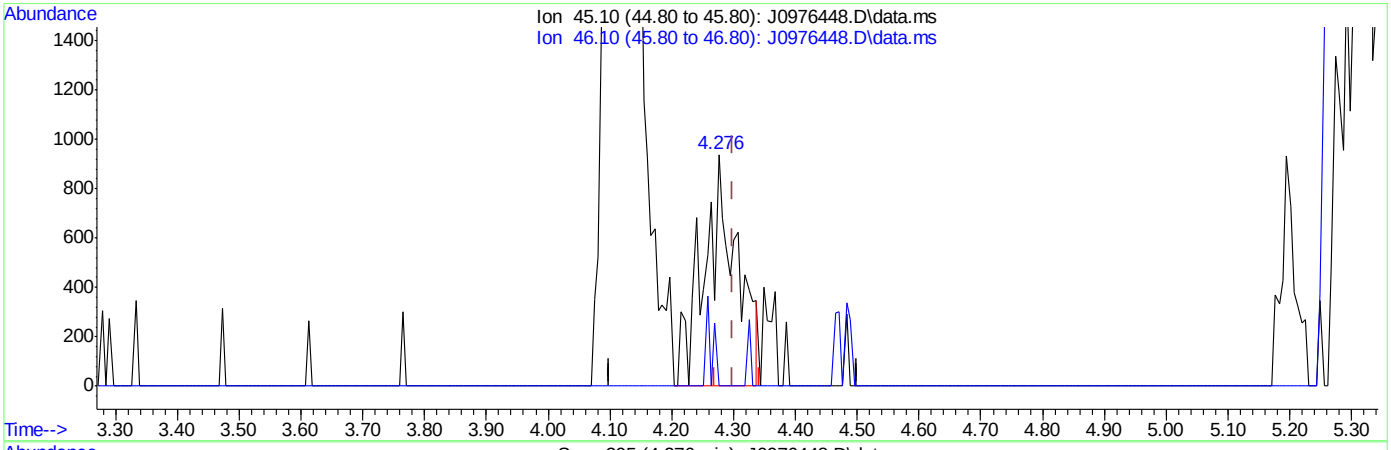
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

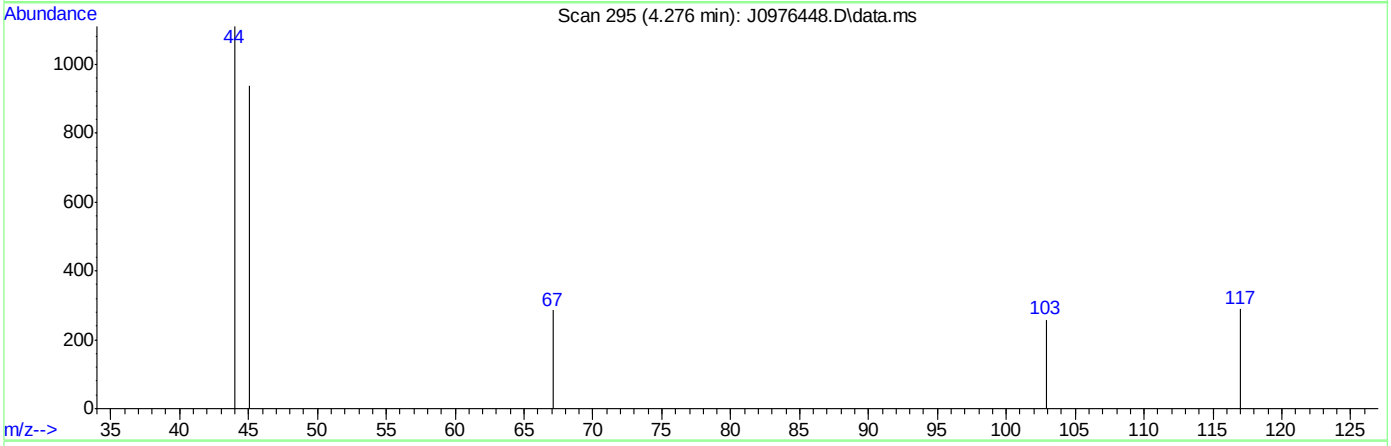
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976448.D\data.ms

(107) Ethanol

4.276min (-0.024) 105.94ug/L m

response 3488

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1208102	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	951117	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	540954	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	78525	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	306418	49.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.26%			
46) 1,2-Dichloroethane-d4	7.476	65	368277	49.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.76%			
57) Toluene-d8	9.301	98	1237162	49.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.30%			
79) 4-Bromofluorobenzene	12.051	95	487139	46.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	54087	6.70	ug/L	96
3) Chloromethane	2.883	50	71086	8.96	ug/L	99
4) Vinyl Chloride	3.029	62	77812	9.39	ug/L	99
6) Bromomethane	3.449	94	59026	11.05	ug/L	91
7) Chloroethane	3.613	64	42222	9.38	ug/L	90
8) Trichlorofluoromethane	3.832	101	98299m	9.26	ug/L	
9) Ethyl Ether	4.118	59	45432	9.06	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.343	67	72239	10.19	ug/L	92
11) 1,1-Dichloroethene	4.398	61	91897	10.26	ug/L	95
12) Freon 113	4.458	101	68183	11.40	ug/L	96
13) Carbon Disulfide	4.477	76	206507	10.87	ug/L	97
14) Iodomethane	4.586	142	99350	10.13	ug/L	98
15) Allyl chloride	4.921	41	79158	9.39	ug/L	90
16) Methylene Chloride	5.043	49	81350	9.93	ug/L	97
17) Acetone	5.067	58	17460	51.42	ug/L	92
18) Methyl acetate	5.195	74	31639	44.29	ug/L #	90
19) trans-1,2-Dichloroethene	5.231	61	80811	9.27	ug/L	93
20) Hexane	5.298	56	56432	10.40	ug/L	96
21) Methyl Tert Butyl Ether	5.328	73	157646	9.67	ug/L	91
22) Acetonitrile	5.596	40	26248	103.94	ug/L	89
23) Di-isopropyl ether	5.718	45	171345	9.12	ug/L	95
24) Chloroprene	5.876	53	84716	9.16	ug/L	95
25) 1,1-Dichloroethane	5.894	63	104200	9.22	ug/L	98
26) Acrylonitrile	5.925	53	74700	47.70	ug/L	96
27) ETBE	6.113	59	176048	9.36	ug/L	97
28) Vinyl acetate	6.107	43	463524	49.31	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	64774	8.99	ug/L	95
30) 2,2-Dichloropropane	6.600	77	87682	10.34	ug/L	91
31) Bromochloromethane	6.685	128	31663	9.46	ug/L	91
32) Cyclohexane	6.728	56	100544	9.96	ug/L	97
33) Chloroform	6.740	83	115384	9.35	ug/L	98
34) Ethyl acetate	6.807	43	168643	44.91	ug/L	95
35) Tetrahydrofuran	6.916	42	10877	10.09	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Carbon Tetrachloride	6.935	117	88661m	10.36	ug/L	
38) 1,1,1-Trichloroethane	6.989	97	102620	9.89	ug/L	95
39) 2-Butanone	7.032	43	77302	47.00	ug/L	89
40) 1,1-Dichloropropene	7.105	75	77863	9.06	ug/L	95
41) tert-Butyl Formate	7.184	59	374659	98.67	ug/L	91
42) Propionitrile	7.330	54	55465	97.09	ug/L	77
43) Methacrylonitrile	7.360	41	232285	86.89	ug/L	98
44) Benzene	7.354	78	237505	9.07	ug/L	99
45) TAME	7.433	73	154834	9.34	ug/L	92
47) 1,2-Dichloroethane	7.549	62	80557	8.91	ug/L	98
48) Trichloroethene	7.938	95	62795	9.09	ug/L	97
49) Methylcyclohexane	7.950	83	107348	9.85	ug/L	97
50) Dibromomethane	8.364	93	32193	8.96	ug/L	96
51) 1,2-Dichloropropane	8.449	63	56095	8.71	ug/L	96
52) Bromodichloromethane	8.492	83	74941	9.03	ug/L	96
53) Methyl methacrylate	8.595	41	29857	8.61	ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	148300	42.74	ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	86808	9.27	ug/L	95
58) Toluene	9.356	91	261059	8.78	ug/L	99
59) 2-Nitropropane	9.557	41	42575	36.72	ug/L	95
60) 4-Methyl-2-pentanone	9.672	43	201073	48.47	ug/L	97
61) trans-1,3-Dichloropropene	9.739	75	74039	9.04	ug/L	95
62) Tetrachloroethene	9.757	166	64141	7.92	ug/L	95
63) Ethyl methacrylate	9.842	69	55426	7.79	ug/L	94
64) 1,1,2-Trichloroethane	9.903	83	39733	8.49	ug/L	97
65) Dibromochloromethane	10.104	129	52004	8.65	ug/L	99
66) 1,3-Dichloropropane	10.183	76	82420	8.62	ug/L	97
67) 1,2-Dibromoethane	10.366	107	45790	8.98	ug/L	86
68) 2-hexanone	10.493	43	138835	49.21	ug/L	97
69) 1-Chlorohexane	10.798	91	78478	8.98	ug/L	98
70) Ethylbenzene	10.858	91	314574	9.06	ug/L	95
71) Chlorobenzene	10.865	112	175803	9.18	ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.913	131	56097	9.21	ug/L	98
73) m,p-Xylene	10.998	91	467747	17.32	ug/L	96
74) o-Xylene	11.436	91	223281	8.96	ug/L	98
75) Styrene	11.485	104	169015	9.17	ug/L	98
76) Bromoform	11.546	173	30934	9.36	ug/L	99
77) Isopropylbenzene	11.741	105	266343	8.45	ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	15250	10.75	ug/L #	82
81) n-Propylbenzene	12.160	91	342702	9.08	ug/L	99
82) Bromobenzene	12.185	156	76189	8.70	ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	59818	9.32	ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	251522	8.95	ug/L	100
85) 2-Chlorotoluene	12.349	91	245687	8.99	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.404	53	13211	9.95	ug/L	88
87) 1,2,3-Trichloropropane	12.385	110	15939	9.04	ug/L	94
88) Cyclohexanone	12.446	55	6087	56.61	ug/L	89
89) 4-Chlorotoluene	12.519	91	214705	8.56	ug/L	98
90) a-Methyl Styrene	12.610	118	131165	16.72	ug/L	99
91) tert-Butylbenzene	12.684	91	144545	8.73	ug/L	96

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	249916	8.89	ug/L	99
93) Pentachloroethane	12.738	167	51519	13.01	ug/L	96
94) sec-Butylbenzene	12.866	105	306812	9.17	ug/L	98
95) 4-Isopropyltoluene	13.000	119	251972	9.04	ug/L	97
96) 1,3-Dichlorobenzene	13.134	146	132293	8.83	ug/L	96
97) 1,4-Dichlorobenzene	13.219	146	140933	8.86	ug/L	94
98) n-Butylbenzene	13.432	92	139038	8.71	ug/L	90
99) Benzyl Chloride	13.450	126	17170	9.43	ug/L	97
100) 1,2-Dichlorobenzene	13.645	146	123540	9.07	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	7072	12.87	ug/L	91
102) Hexachlorobutadiene	14.928	225	61318	14.02	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	83313	17.17	ug/L	98
104) Naphthalene	15.257	128	110727	18.87	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	71128	22.84	ug/L	98
107) Ethanol	4.264	45	8664	254.40	ug/L	75
108) acrolein	4.757	56	34862	40.26	ug/L	94
109) Tert Butyl Alcohol	5.371	59	34528	94.66	ug/L	88
110) tert Amyl alcohol	7.573	59	23027	84.63	ug/L	85
111) Isobutyl alcohol	7.458	42	25574	173.00	ug/L	91
112) 1,4-Dioxane	8.674	88	6683	192.19	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.433	57	131766	436.63	ug/L	96

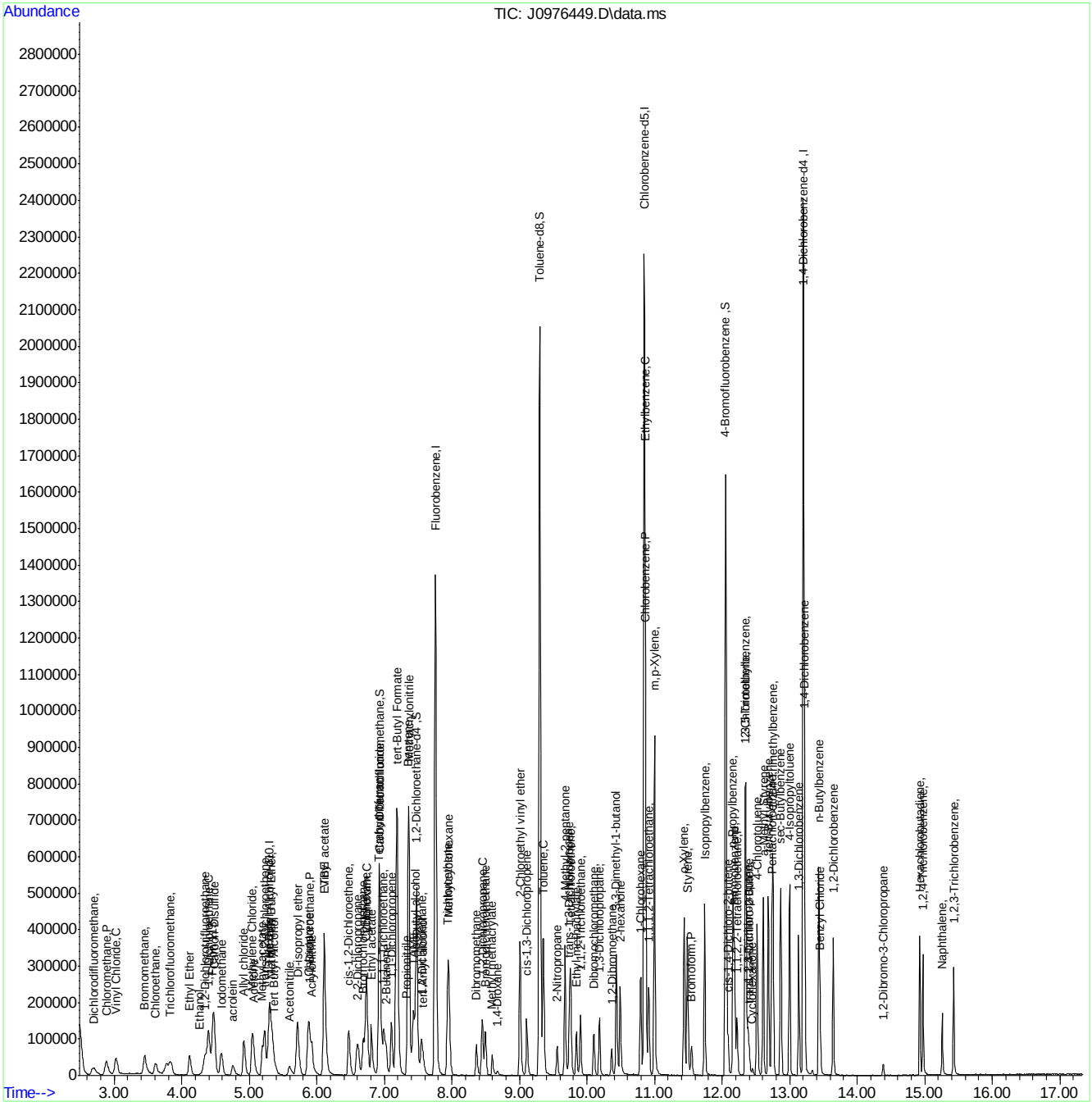
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

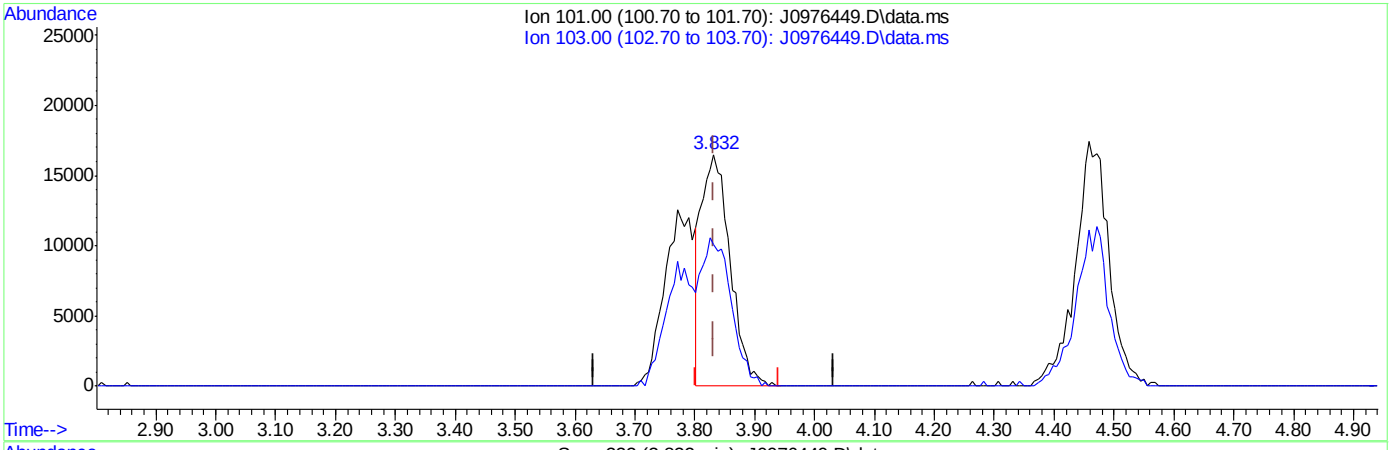
Sample Number:	VJ5295-IC5295	**Method:**	SW846 8260B
Lab FileID:	J0976449.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 11:06	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

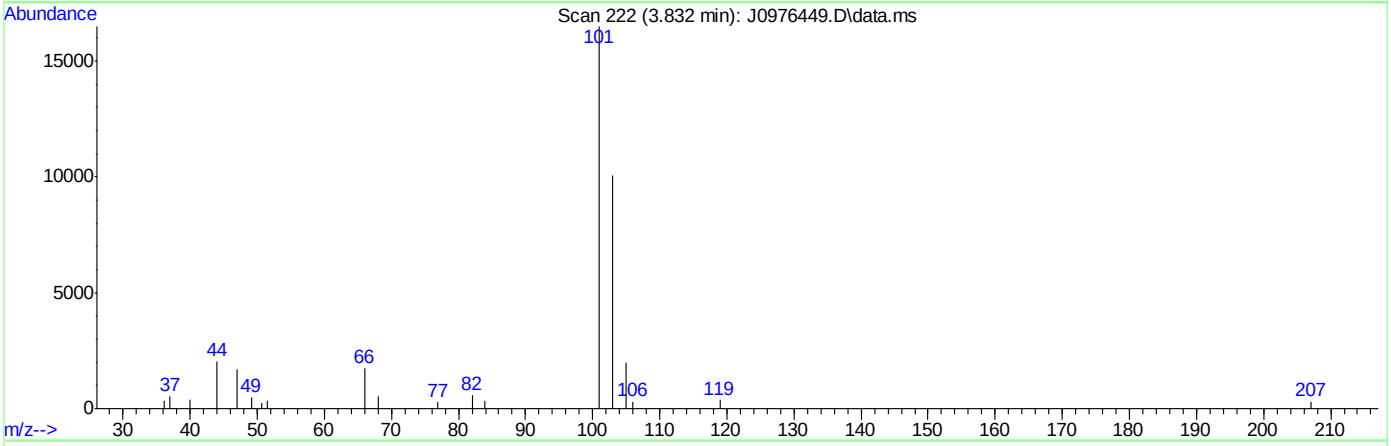
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976449.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 5.19ug/L

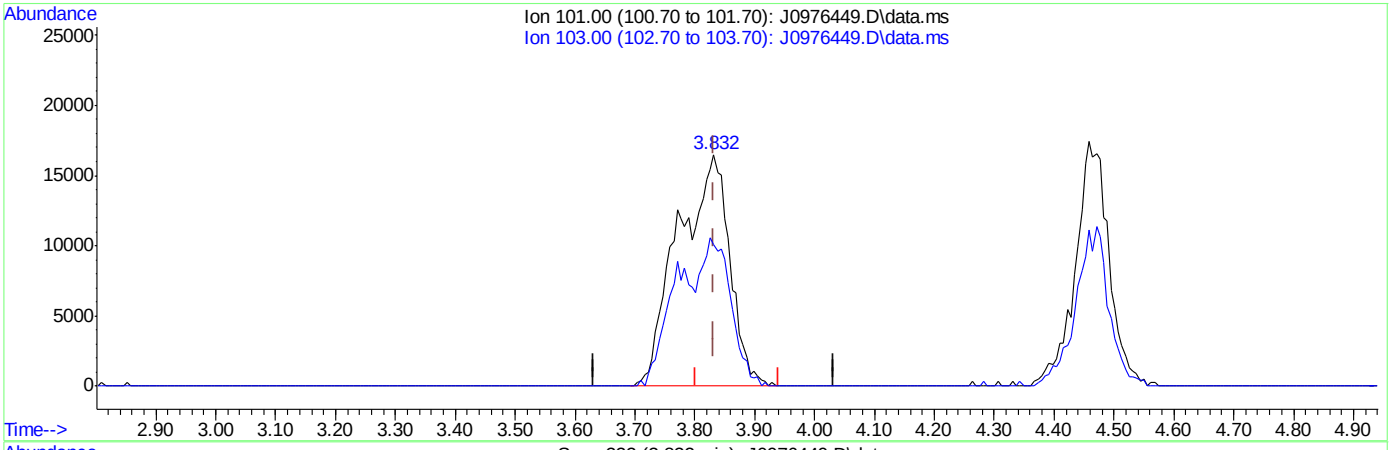
response 55116

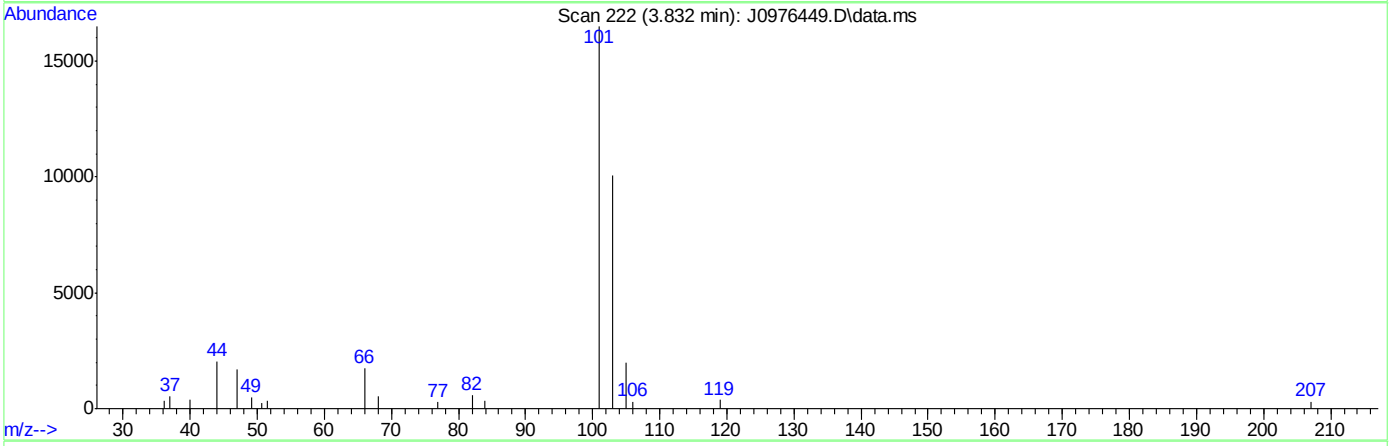
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	61.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976449.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 9.26ug/L m

response 98299

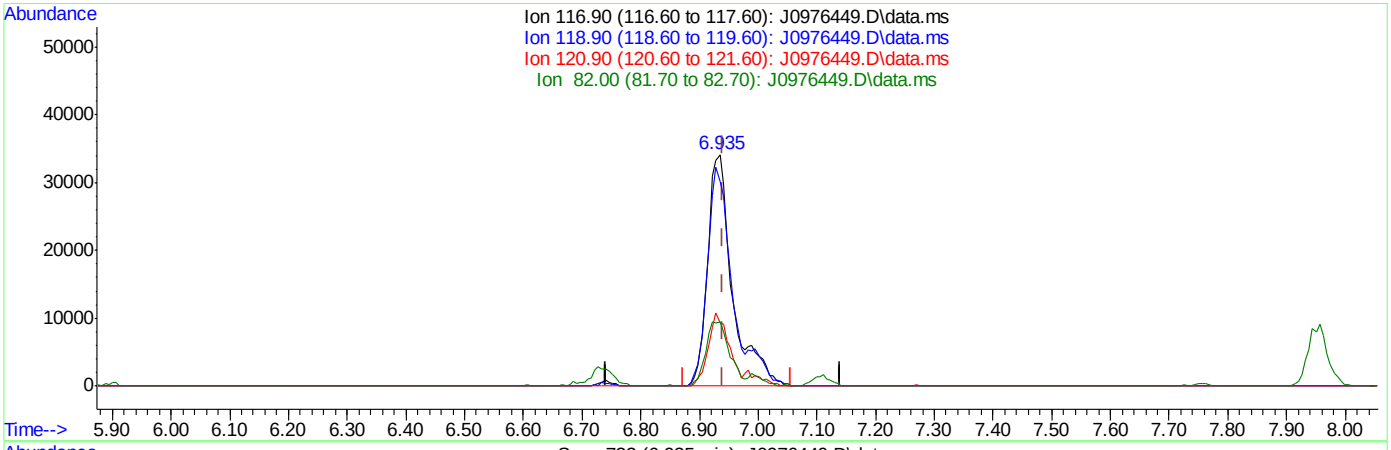
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	61.02
0.00	0.00	0.00
0.00	0.00	0.00

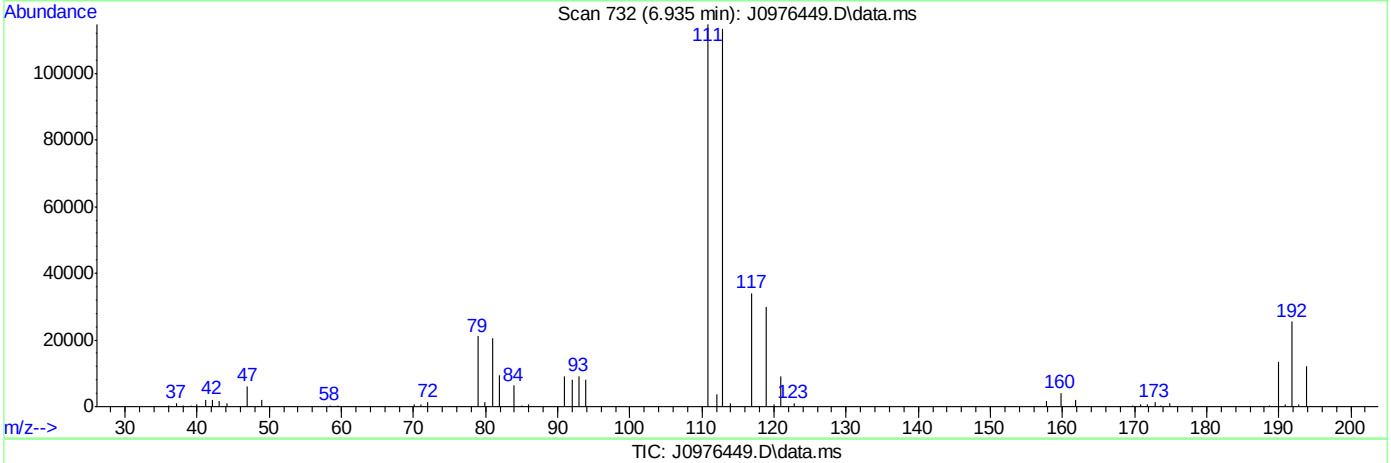
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976449.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 11.76ug/L

response 100635

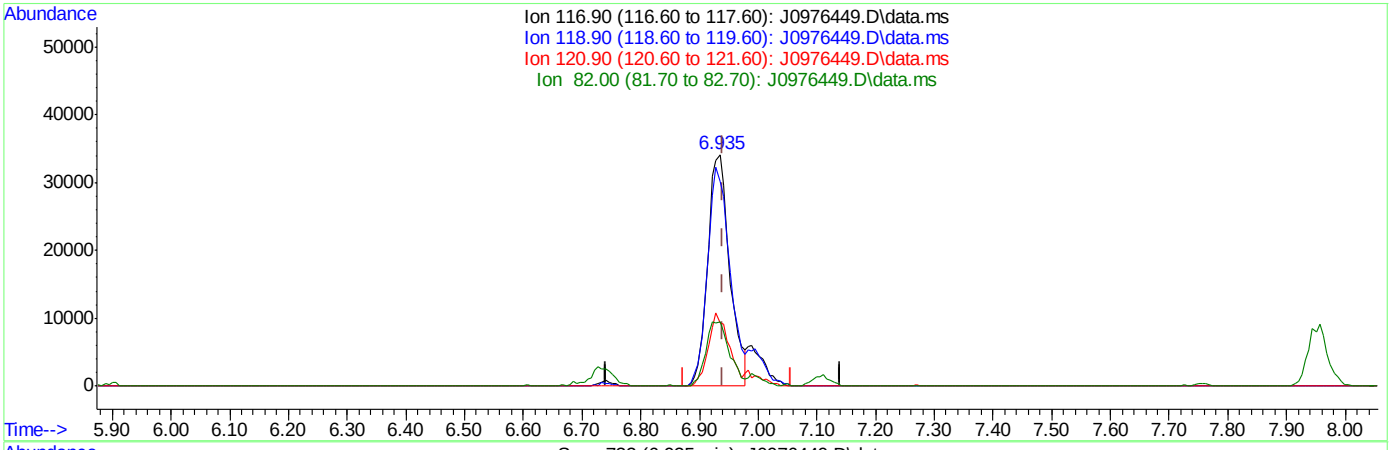
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	88.16
120.90	31.80	27.12
82.00	25.40	27.53

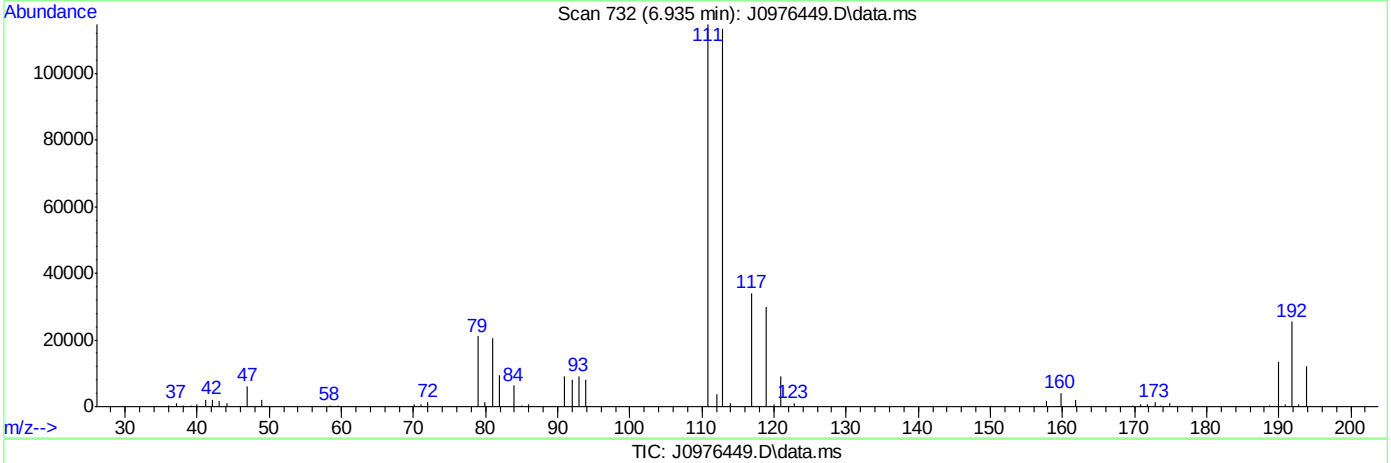
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976449.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 10.36ug/L m

response 88661

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	88.16
120.90	31.80	27.12
82.00	25.40	27.53

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1312783	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1054653	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.200	152	588586	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	85411	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	320342	47.75	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.50%			
46) 1,2-Dichloroethane-d4	7.476	65	385964	47.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.24%			
57) Toluene-d8	9.301	98	1341322	48.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.12%			
79) 4-Bromofluorobenzene	12.051	95	541843	47.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.682	85	119601	13.63	ug/L	97
3) Chloromethane	2.883	50	163185	19.00	ug/L	93
4) Vinyl Chloride	3.035	62	167420	18.60	ug/L	96
5) 1,3-Butadiene	3.023	54	5266	0.73	ug/L #	67
6) Bromomethane	3.449	94	117942	21.13	ug/L	94
7) Chloroethane	3.613	64	83552	17.74	ug/L	96
8) Trichlorofluoromethane	3.832	101	222044m	19.26	ug/L	
9) Ethyl Ether	4.118	59	126518	23.22	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.349	67	179901	23.34	ug/L	99
11) 1,1-Dichloroethene	4.398	61	234473	24.09	ug/L	96
12) Freon 113	4.464	101	158117	24.33	ug/L	91
13) Carbon Disulfide	4.471	76	528183	25.59	ug/L	98
14) Iodomethane	4.586	142	266743	25.03	ug/L	98
15) Allyl chloride	4.915	41	209957	22.92	ug/L	94
16) Methylene Chloride	5.042	49	217395	24.67	ug/L	97
17) Acetone	5.067	58	45797	123.25	ug/L	94
18) Methyl acetate	5.188	74	91925	118.43	ug/L	92
19) trans-1,2-Dichloroethene	5.225	61	213774	22.56	ug/L	97
20) Hexane	5.298	56	140690	23.86	ug/L	96
21) Methyl Tert Butyl Ether	5.334	73	444687	25.11	ug/L	82
22) Acetonitrile	5.590	40	64556	238.28	ug/L	99
23) Di-isopropyl ether	5.712	45	493821	24.20	ug/L	97
24) Chloroprene	5.870	53	214824	21.37	ug/L	97
25) 1,1-Dichloroethane	5.894	63	284702	23.19	ug/L	98
26) Acrylonitrile	5.925	53	203691	119.70	ug/L	96
27) ETBE	6.113	59	525869	25.74	ug/L	99
28) Vinyl acetate	6.107	43	1324238	129.63	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	176980	22.60	ug/L	98
30) 2,2-Dichloropropane	6.600	77	225195	24.44	ug/L	98
31) Bromochloromethane	6.679	128	85062	23.39	ug/L	96
32) Cyclohexane	6.728	56	262357	23.93	ug/L	97
33) Chloroform	6.734	83	312348	23.30	ug/L	99
34) Ethyl acetate	6.807	43	456304	111.84	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	26255	22.35 ug/L	93
37) Carbon Tetrachloride	6.928	117	231974m	24.94 ug/L	
38) 1,1,1-Trichloroethane	6.989	97	269107	23.86 ug/L	94
39) 2-Butanone	7.020	43	205123	114.79 ug/L	94
40) 1,1-Dichloropropene	7.105	75	207277	22.19 ug/L	98
41) tert-Butyl Formate	7.184	59	1106447	267.53 ug/L	94
42) Propionitrile	7.330	54	149661	241.08 ug/L	82
43) Methacrylonitrile	7.354	41	651563	230.05 ug/L	97
44) Benzene	7.354	78	692560	24.34 ug/L	98
45) TAME	7.433	73	486305	26.99 ug/L	97
47) 1,2-Dichloroethane	7.543	62	228022	23.21 ug/L	99
48) Trichloroethene	7.932	95	172302	22.96 ug/L	95
49) Methylcyclohexane	7.956	83	299305	25.27 ug/L	99
50) Dibromomethane	8.358	93	98600	25.25 ug/L	97
51) 1,2-Dichloropropane	8.449	63	167146	23.87 ug/L	93
52) Bromodichloromethane	8.492	83	222490	24.67 ug/L	99
53) Methyl methacrylate	8.595	41	89082	23.63 ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	441464	118.21 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	259029	25.46 ug/L	97
58) Toluene	9.350	91	733685	22.71 ug/L	99
59) 2-Nitropropane	9.556	41	138110	107.42 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	558993	121.53 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	232608	25.62 ug/L	97
62) Tetrachloroethene	9.757	166	174012	19.39 ug/L	99
63) Ethyl methacrylate	9.836	69	175159	22.19 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	122893	23.69 ug/L	97
65) Dibromochloromethane	10.098	129	161241	24.07 ug/L	96
66) 1,3-Dichloropropane	10.183	76	246520	23.24 ug/L	99
67) 1,2-Dibromoethane	10.359	107	137858	24.38 ug/L	99
68) 2-hexanone	10.487	43	390423	124.79 ug/L	100
69) 1-Chlorohexane	10.797	91	220659	22.77 ug/L	99
70) Ethylbenzene	10.858	91	880544	23.58 ug/L	100
71) Chlorobenzene	10.864	112	510597	24.26 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.913	131	170216	25.20 ug/L	98
73) m,p-Xylene	10.998	91	1345333	47.37 ug/L	99
74) o-Xylene	11.436	91	678323	24.54 ug/L	99
75) Styrene	11.485	104	546469	26.74 ug/L	99
76) Bromoform	11.546	173	102523	27.41 ug/L	95
77) Isopropylbenzene	11.740	105	801484	23.49 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	47961	31.06 ug/L	96
81) n-Propylbenzene	12.160	91	985312	24.00 ug/L	99
82) Bromobenzene	12.185	156	226990	23.83 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	182918	26.20 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	743003	24.31 ug/L	98
85) 2-Chlorotoluene	12.349	91	716233	24.10 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.397	53	42819	28.84 ug/L #	82
87) 1,2,3-Trichloropropane	12.379	110	49681	25.89 ug/L	94
88) Cyclohexanone	12.446	55	20875	178.44 ug/L	91
89) 4-Chlorotoluene	12.519	91	658157	24.12 ug/L	99
90) a-Methyl Styrene	12.604	118	400190	46.90 ug/L	98

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	412099	22.87	ug/L		99
92)	1,2,4-Trimethylbenzene	12.750	105	757028	24.74	ug/L		99
93)	Pentachloroethane	12.738	167	149085	33.01	ug/L		96
94)	sec-Butylbenzene	12.866	105	884063	24.28	ug/L		100
95)	4-Isopropyltoluene	13.000	119	758100	24.99	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	394336	24.18	ug/L		97
97)	1,4-Dichlorobenzene	13.219	146	421717	24.35	ug/L		97
98)	n-Butylbenzene	13.432	92	426173	24.53	ug/L		98
99)	Benzyl Chloride	13.444	126	63975	30.61	ug/L	#	63
100)	1,2-Dichlorobenzene	13.645	146	373815	25.23	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.381	75	23086	36.95	ug/L		93
102)	Hexachlorobutadiene	14.928	225	152696	31.47	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	240911	43.13	ug/L		98
104)	Naphthalene	15.257	128	353157	48.72	ug/L		99
105)	1,2,3-Trichlorobenzene	15.427	180	204474	53.42	ug/L		98
107)	Ethanol	4.276	45	21322m	575.60	ug/L		
108)	acrolein	4.756	56	97667	103.71	ug/L		93
109)	Tert Butyl Alcohol	5.377	59	100544	253.43	ug/L		94
110)	tert Amyl alcohol	7.573	59	77472	261.76	ug/L		96
111)	Isobutyl alcohol	7.458	42	73357	467.88	ug/L	#	90
112)	1,4-Dioxane	8.674	88	21577	570.49	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.432	57	436944	1280.55	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.4

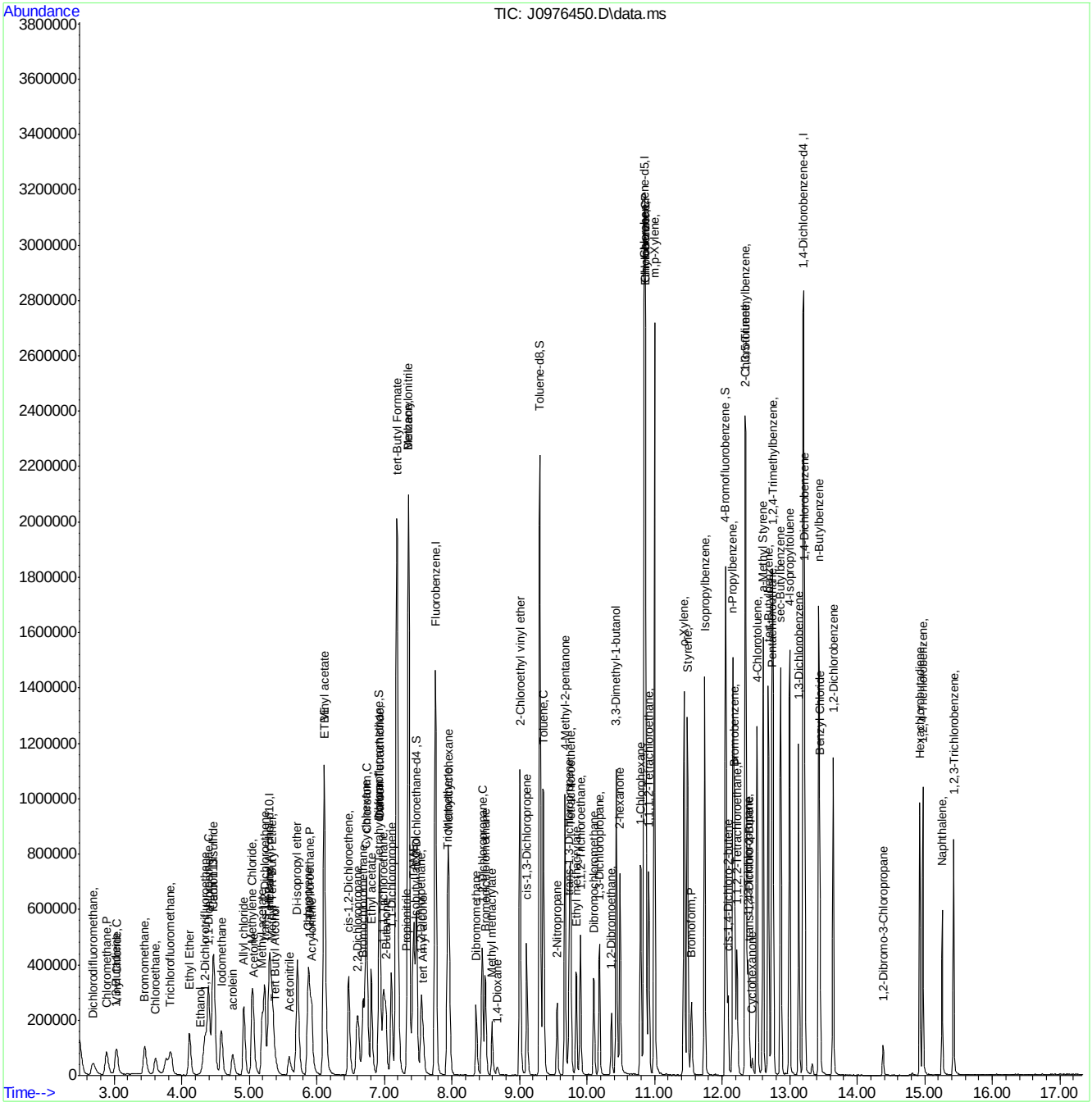
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



Manual Integration Approval Summary

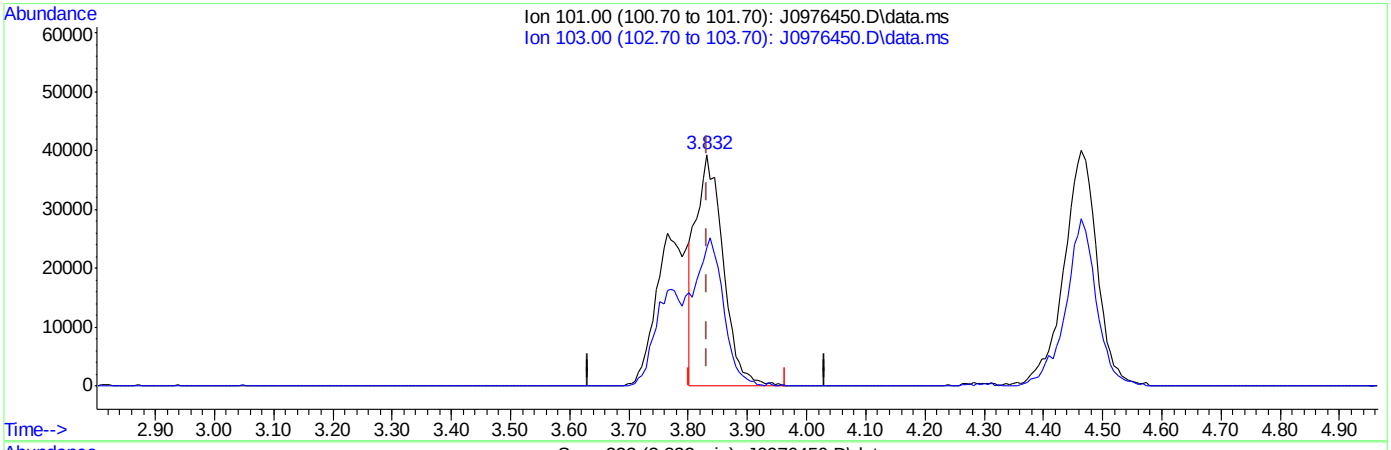
Sample Number:	VJ5295-IC5295	**Method:**	SW846 8260B
Lab FileID:	J0976450.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 11:29	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

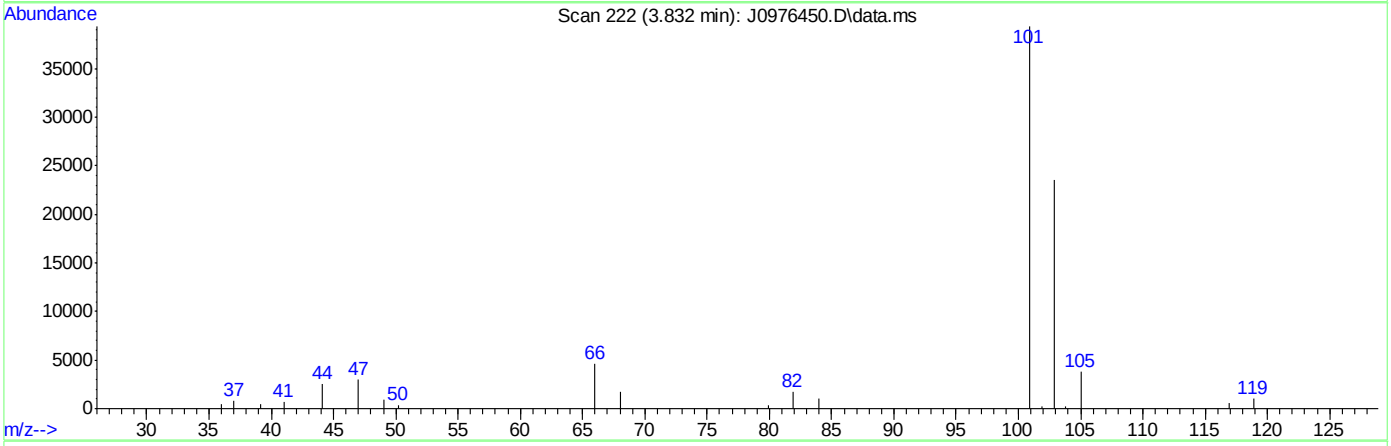
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976450.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 11.03ug/L

response 127210

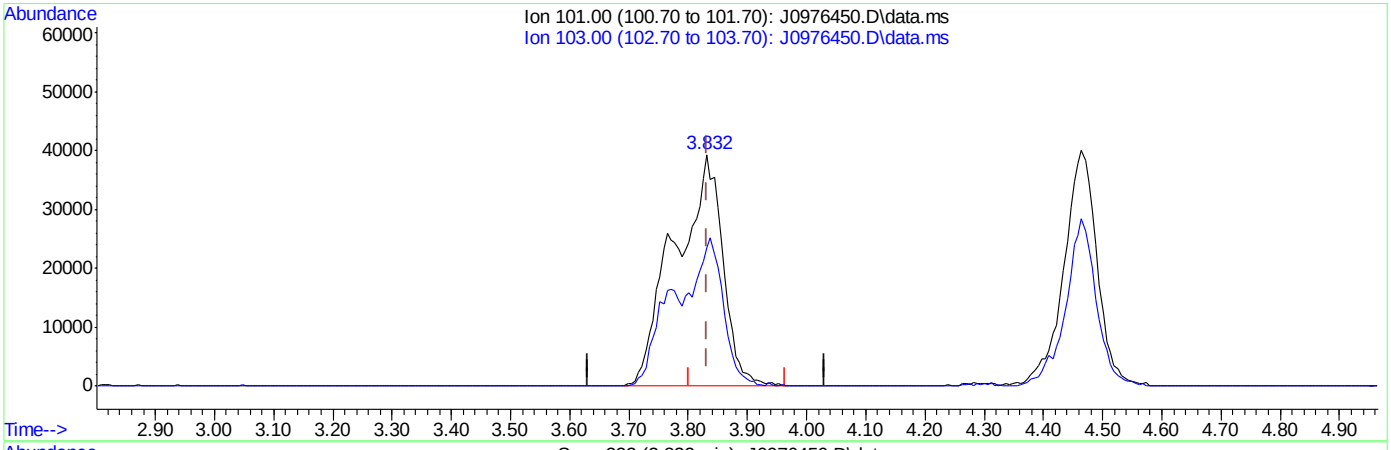
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	59.87
0.00	0.00	0.00
0.00	0.00	0.00

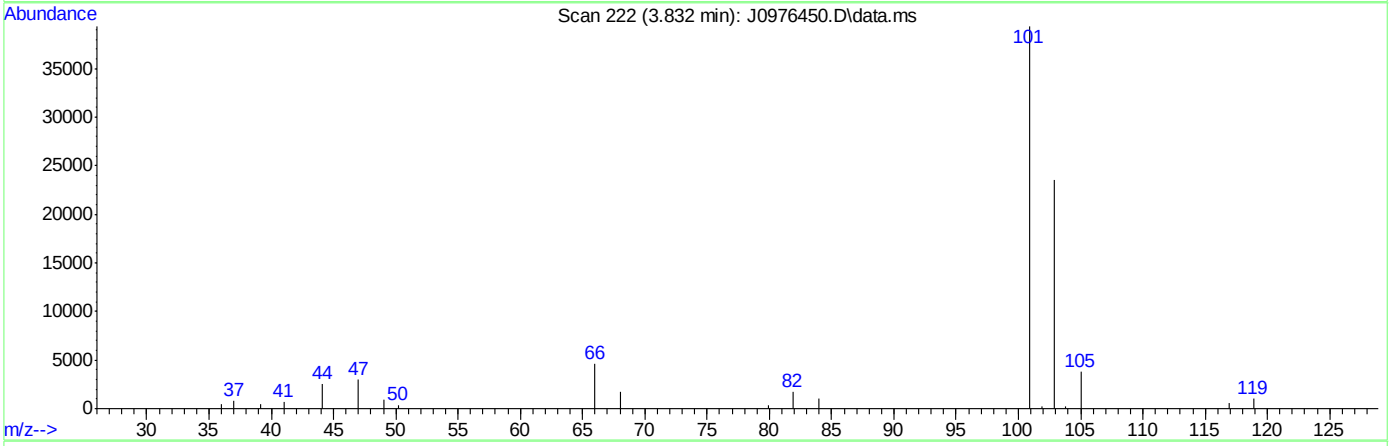
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976450.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 19.26ug/L m

response 222044

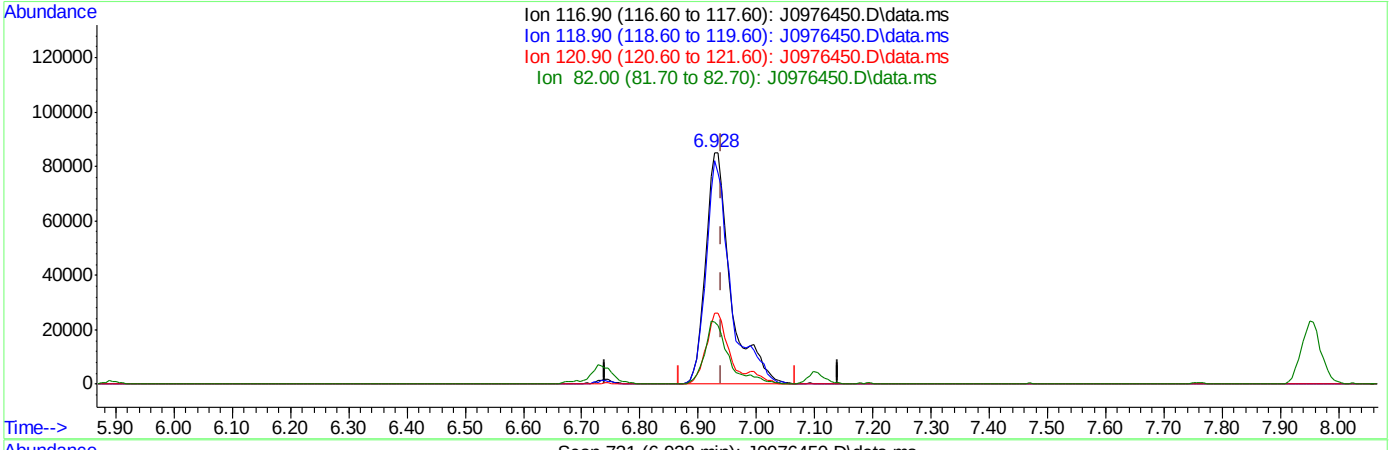
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	59.87
0.00	0.00	0.00
0.00	0.00	0.00

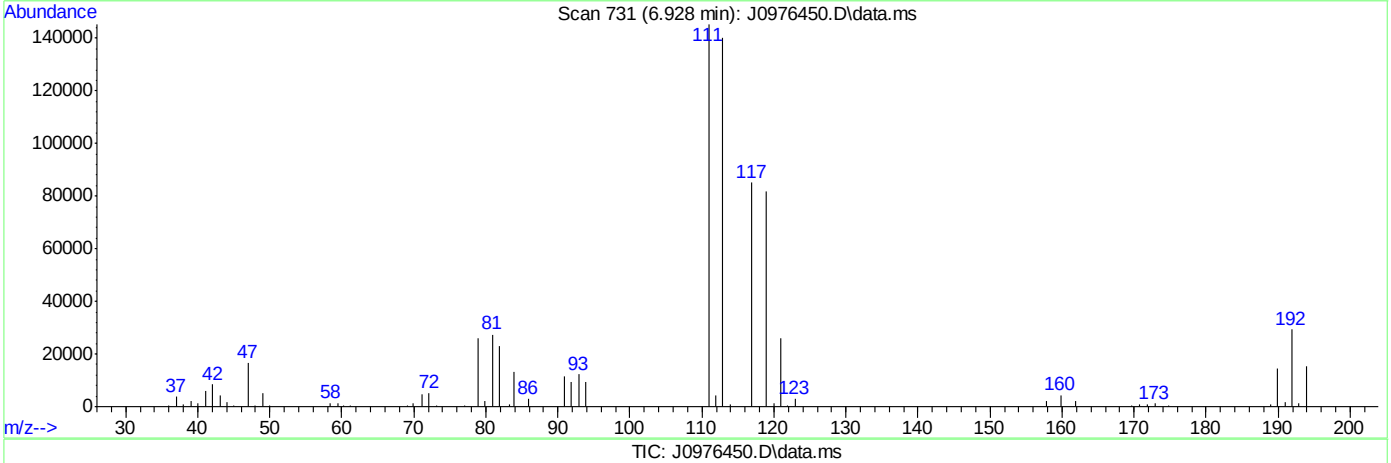
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976450.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 27.69ug/L

response 257526

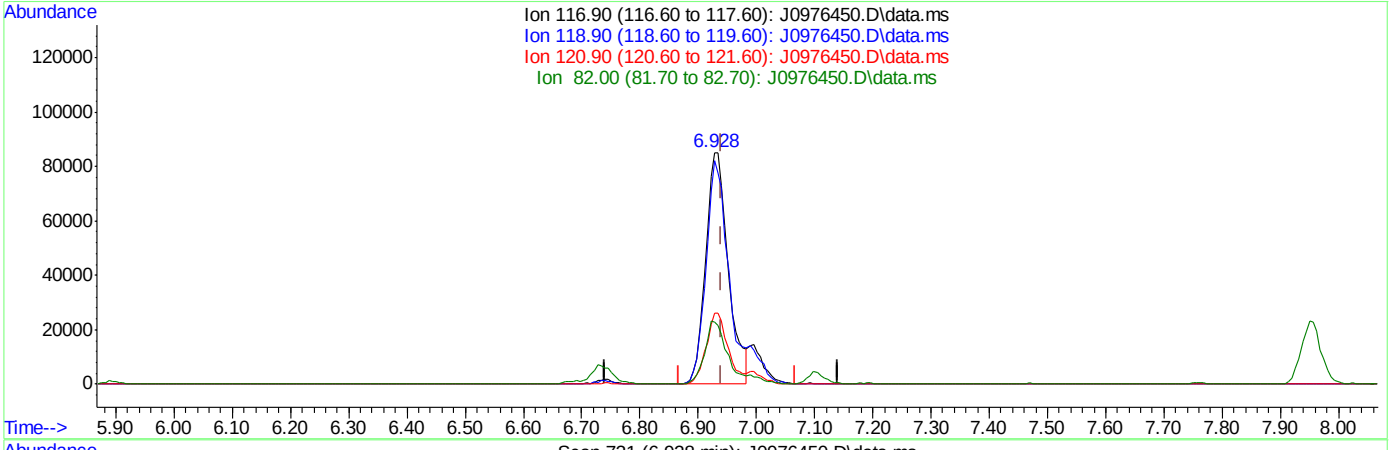
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.26
120.90	31.80	30.75
82.00	25.40	26.95

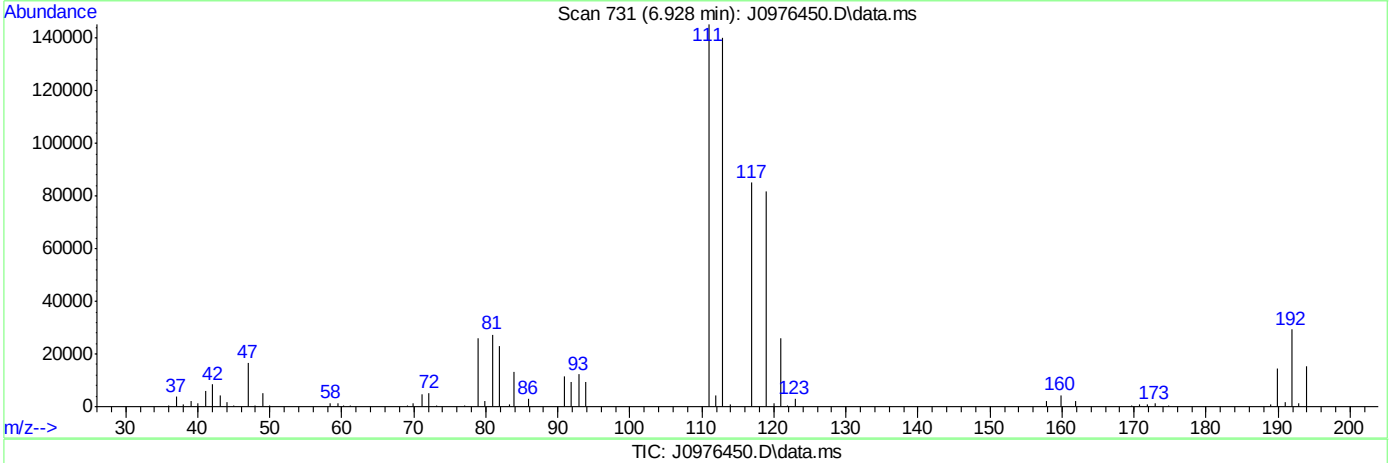
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976450.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 24.94ug/L m

response 231974

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.26
120.90	31.80	30.75
82.00	25.40	26.95

SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
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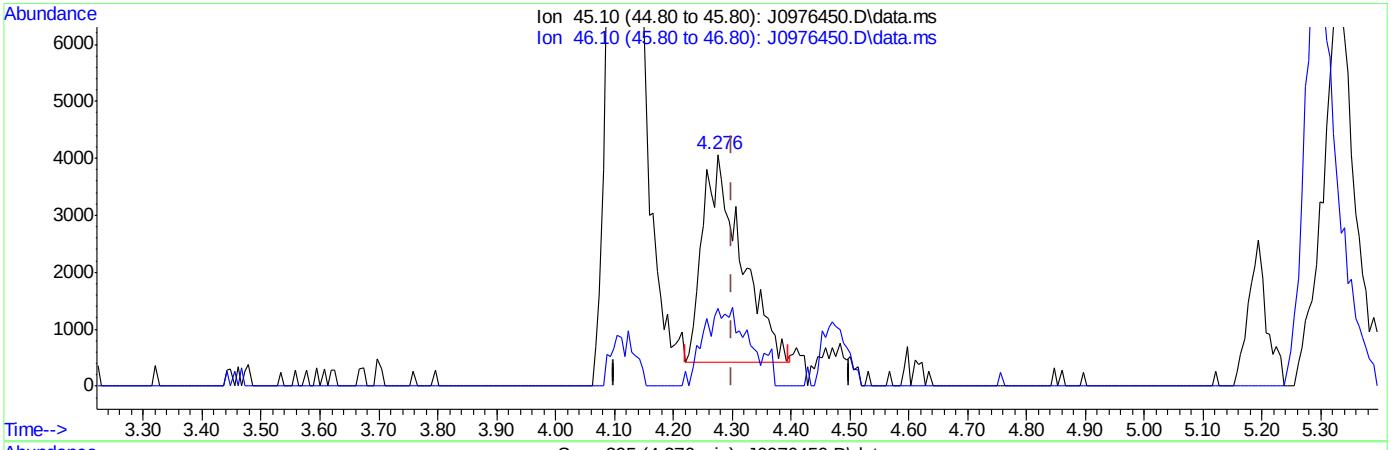
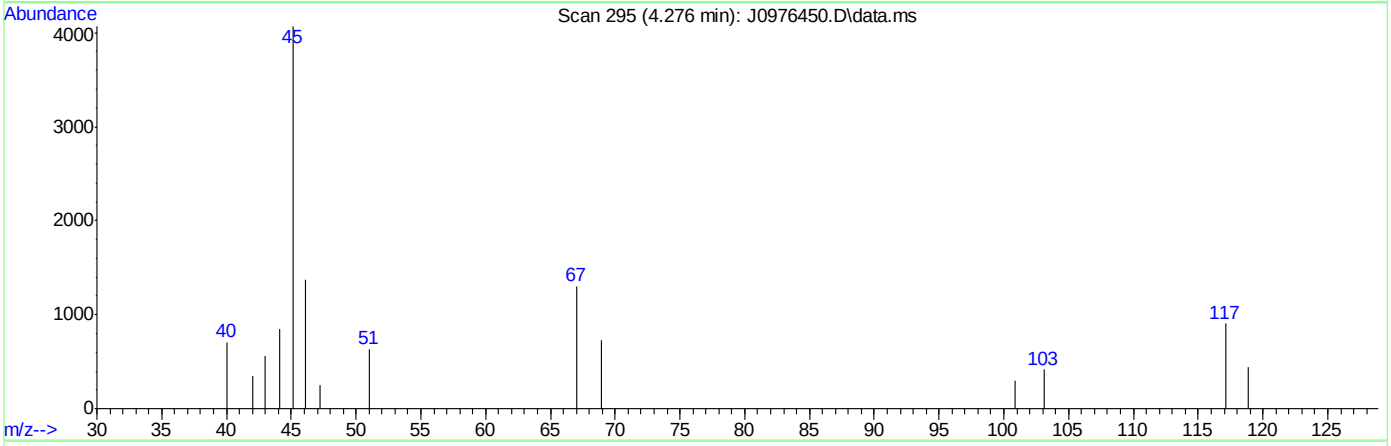
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976450.D\data.ms

(107) Ethanol

4.276min (-0.024) 452.15ug/L

response 16749

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	37.51
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
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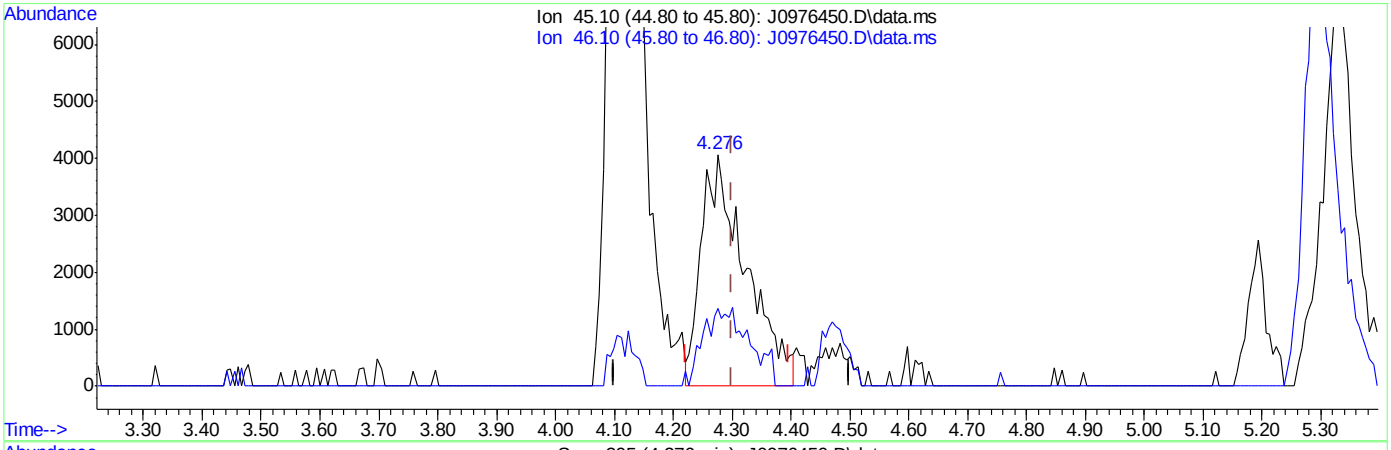
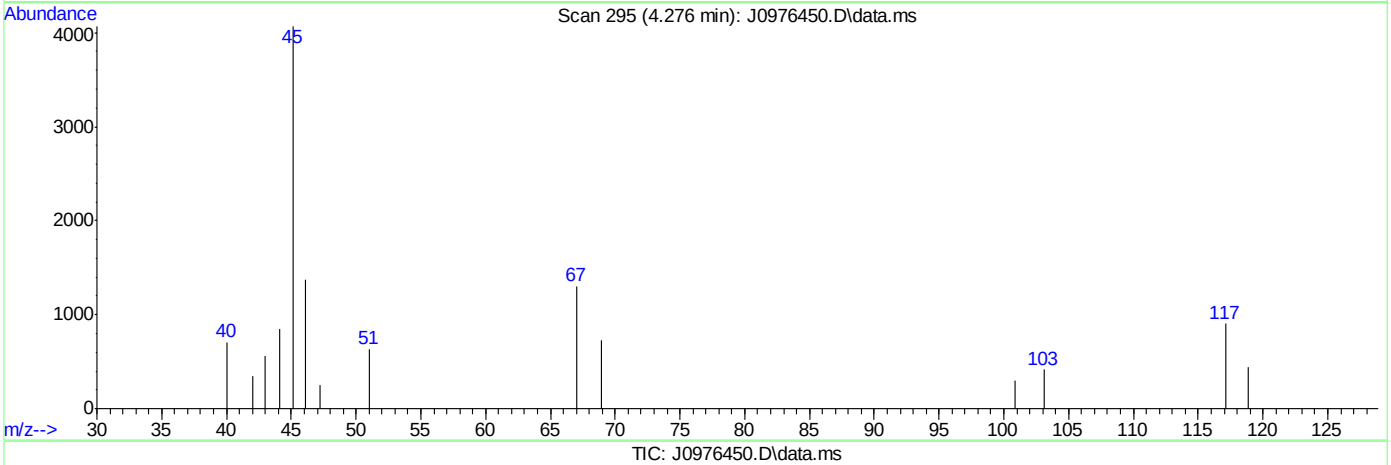




TIC: J0976450.D\data.ms

(107) Ethanol

4.276min (-0.024) 575.60ug/L m

response 21322

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	33.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1404396	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1101438	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	623205	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	87230	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	343111	47.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.60%			
46) 1,2-Dichloroethane-d4	7.476	65	399943	46.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 92.26%			
57) Toluene-d8	9.301	98	1395225	47.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.74%			
79) 4-Bromofluorobenzene	12.051	95	570899	47.70	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	215473	22.95	ug/L	97
3) Chloromethane	2.895	50	292950	32.05	ug/L	99
4) Vinyl Chloride	3.047	62	305445	31.72	ug/L	97
5) 1,3-Butadiene	3.023	54	6376	0.82	ug/L	89
6) Bromomethane	3.461	94	188477	33.11	ug/L	98
7) Chloroethane	3.619	64	132032	27.42	ug/L	97
8) Trichlorofluoromethane	3.844	101	394494m	31.98	ug/L	
9) Ethyl Ether	4.118	59	229998	39.46	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.361	67	330633	40.10	ug/L	98
11) 1,1-Dichloroethene	4.398	61	422249	40.56	ug/L	97
12) Freon 113	4.464	101	290175	41.73	ug/L	95
13) Carbon Disulfide	4.477	76	962139	43.57	ug/L	97
14) Iodomethane	4.586	142	477984	41.93	ug/L	99
15) Allyl chloride	4.921	41	351145	35.83	ug/L	98
16) Methylene Chloride	5.042	49	378948	40.65	ug/L	98
17) Acetone	5.067	58	86685	216.11	ug/L	93
18) Methyl acetate	5.194	74	162805	196.07	ug/L	97
19) trans-1,2-Dichloroethene	5.225	61	383412	37.83	ug/L	98
20) Hexane	5.298	56	258553	40.99	ug/L	97
21) Methyl Tert Butyl Ether	5.340	73	806322	42.56	ug/L	78
22) Acetonitrile	5.590	40	99685	347.56	ug/L	94
23) Di-isopropyl ether	5.718	45	902917	41.36	ug/L	97
24) Chloroprene	5.870	53	376030	34.97	ug/L	100
25) 1,1-Dichloroethane	5.894	63	524710	39.95	ug/L	96
26) Acrylonitrile	5.925	53	359130	197.28	ug/L	100
27) ETBE	6.119	59	967040	44.24	ug/L	99
28) Vinyl acetate	6.107	43	2222795	203.40	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	335718	40.07	ug/L	96
30) 2,2-Dichloropropane	6.606	77	419870	42.60	ug/L	97
31) Bromochloromethane	6.685	128	156462	40.22	ug/L	97
32) Cyclohexane	6.734	56	507615	43.28	ug/L	97
33) Chloroform	6.740	83	575133	40.11	ug/L	97
34) Ethyl acetate	6.807	43	781067	178.95	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	48217	38.19 ug/L	97
37) Carbon Tetrachloride	6.934	117	426841m	42.90 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	490967	40.69 ug/L	95
39) 2-Butanone	7.026	43	374672	196.06 ug/L	100
40) 1,1-Dichloropropene	7.105	75	393020	39.33 ug/L	99
41) tert-Butyl Formate	7.190	59	1891187	426.52 ug/L	99
42) Propionitrile	7.336	54	243730	366.99 ug/L	94
43) Methacrylonitrile	7.360	41	1023305	344.83 ug/L	97
44) Benzene	7.360	78	1268206	41.66 ug/L	94
45) TAME	7.433	73	890217	46.19 ug/L	95
47) 1,2-Dichloroethane	7.549	62	403460	38.39 ug/L	99
48) Trichloroethene	7.932	95	318398	39.66 ug/L	95
49) Methylcyclohexane	7.956	83	568976	44.90 ug/L	98
50) Dibromomethane	8.358	93	176109	42.16 ug/L	98
51) 1,2-Dichloropropane	8.449	63	311497	41.59 ug/L	97
52) Bromodichloromethane	8.492	83	410208	42.51 ug/L	99
53) Methyl methacrylate	8.589	41	148289	36.78 ug/L	99
54) 2-Chloroethyl vinyl ether	9.009	63	730668	184.43 ug/L	95
55) cis-1,3-Dichloropropene	9.106	75	494265	45.41 ug/L	99
58) Toluene	9.356	91	1332415	40.53 ug/L	99
59) 2-Nitropropane	9.556	41	250079	186.24 ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	988102	205.70 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	427934	45.14 ug/L	95
62) Tetrachloroethene	9.757	166	330707	35.28 ug/L	97
63) Ethyl methacrylate	9.836	69	293836	35.61 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	220918	40.78 ug/L	97
65) Dibromochloromethane	10.098	129	295867	42.06 ug/L	98
66) 1,3-Dichloropropane	10.183	76	444514	40.12 ug/L	98
67) 1,2-Dibromoethane	10.359	107	252389	42.74 ug/L	96
68) 2-hexanone	10.487	43	685166	209.70 ug/L	99
69) 1-Chlorohexane	10.797	91	422577	41.75 ug/L	96
70) Ethylbenzene	10.858	91	1554498	41.39 ug/L	98
71) Chlorobenzene	10.864	112	917204	42.20 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	310952	44.08 ug/L	97
73) m,p-Xylene	10.998	91	2343064	84.73 ug/L	96
74) o-Xylene	11.436	91	1252288	43.38 ug/L	98
75) Styrene	11.485	104	999003	46.81 ug/L	99
76) Bromoform	11.546	173	194584	48.65 ug/L	98
77) Isopropylbenzene	11.740	105	1477605	42.83 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	77885	47.63 ug/L	97
81) n-Propylbenzene	12.160	91	1795922	41.32 ug/L	97
82) Bromobenzene	12.185	156	413415	40.99 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.221	83	330492	44.71 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1373393	42.44 ug/L	99
85) 2-Chlorotoluene	12.349	91	1283251	40.77 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.397	53	79793	49.33 ug/L #	86
87) 1,2,3-Trichloropropane	12.385	110	85851	42.25 ug/L	93
88) Cyclohexanone	12.446	55	38392	309.95 ug/L	92
89) 4-Chlorotoluene	12.519	91	1192984	41.29 ug/L	98
90) a-Methyl Styrene	12.604	118	676651	74.89 ug/L	99

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	758504	39.76	ug/L		98
92)	1,2,4-Trimethylbenzene	12.750	105	1365433	42.14	ug/L		99
93)	Pentachloroethane	12.738	167	243976	49.18	ug/L		96
94)	sec-Butylbenzene	12.866	105	1631628	42.32	ug/L		99
95)	4-Isopropyltoluene	13.000	119	1403972	43.71	ug/L		98
96)	1,3-Dichlorobenzene	13.134	146	732917	42.44	ug/L		98
97)	1,4-Dichlorobenzene	13.219	146	749462	40.88	ug/L		97
98)	n-Butylbenzene	13.432	92	796614	43.30	ug/L		98
99)	Benzyl Chloride	13.450	126	125958	53.86	ug/L	#	59
100)	1,2-Dichlorobenzene	13.645	146	682272	43.48	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	44962	64.76	ug/L		94
102)	Hexachlorobutadiene	14.928	225	296699	56.22	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	471325	74.71	ug/L		98
104)	Naphthalene	15.257	128	693290	80.23	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	396112	86.86	ug/L		97
107)	Ethanol	4.276	45	35826m	946.98	ug/L		
108)	acrolein	4.756	56	164096	170.61	ug/L		95
109)	Tert Butyl Alcohol	5.377	59	179413	442.80	ug/L		95
110)	tert Amyl alcohol	7.573	59	145429	481.13	ug/L		97
111)	Isobutyl alcohol	7.451	42	121838	782.17	ug/L		88
112)	1,4-Dioxane	8.674	88	39973	1034.84	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.432	57	778241	2149.13	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.5

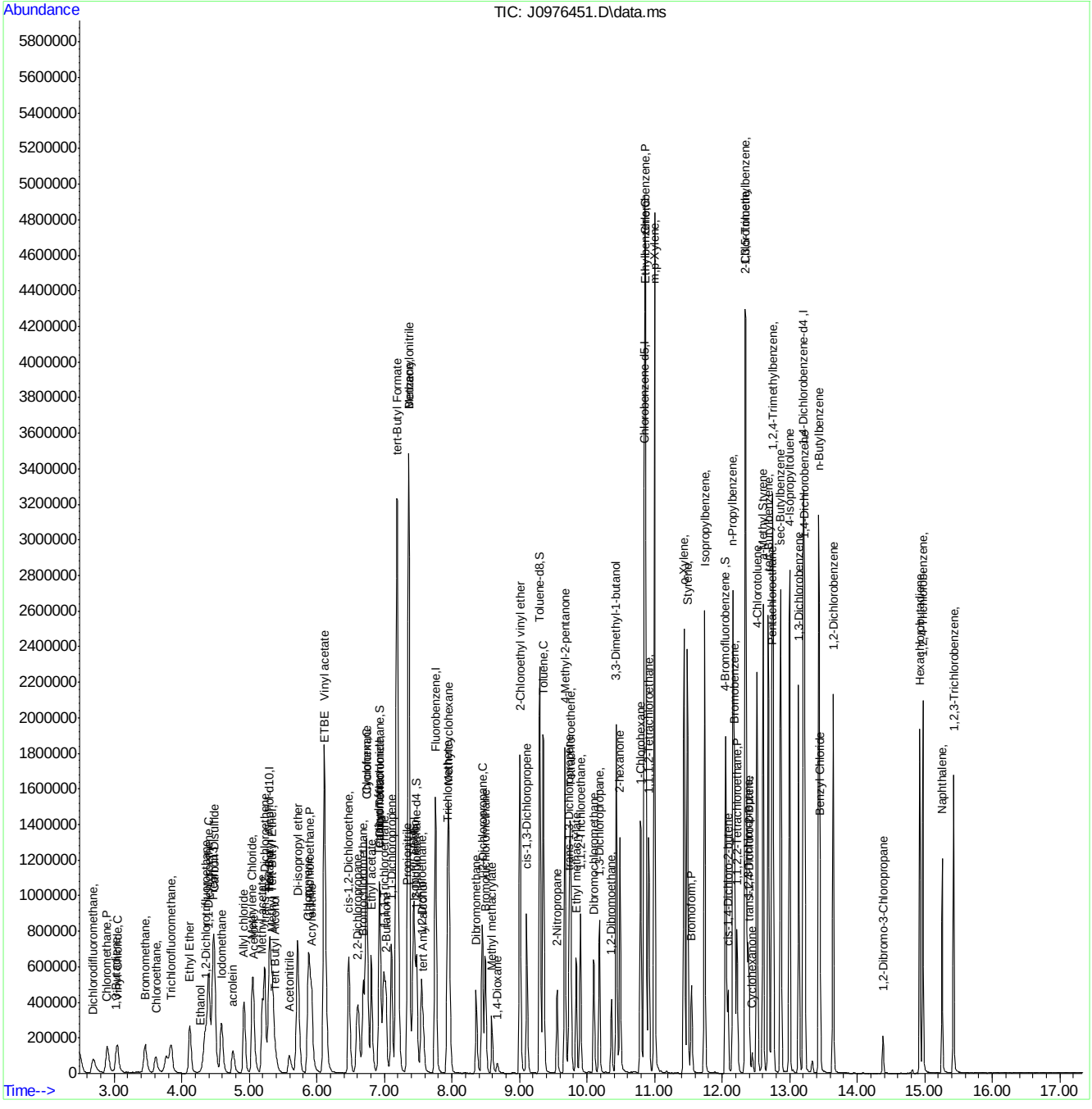
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



MSJ051216a.M Fri May 13 07:49:45 2016 Page: 4

Manual Integration Approval Summary

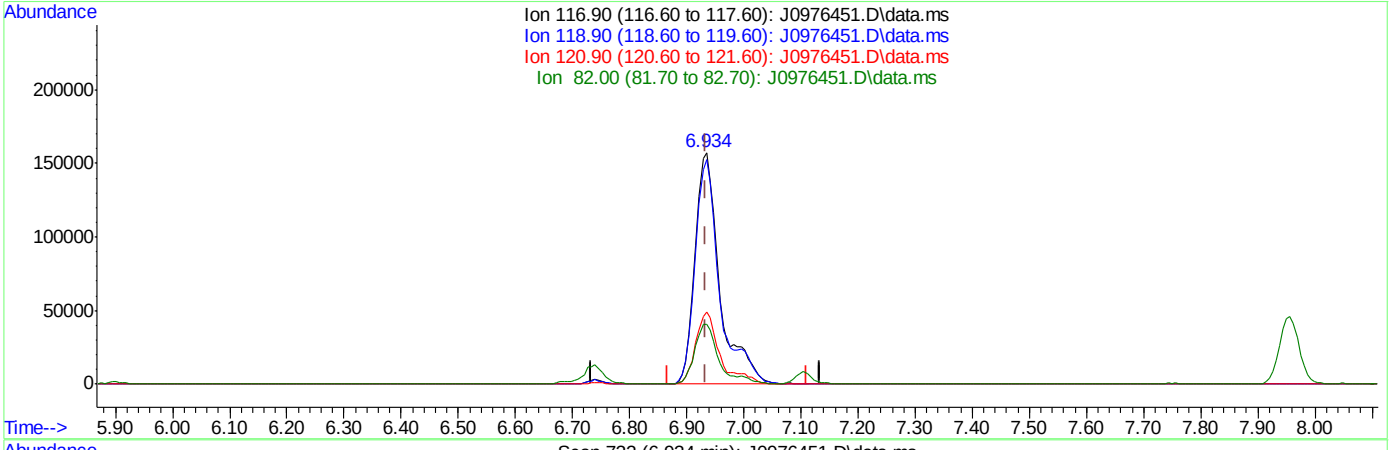
Sample Number:	VJ5295-ICC5295	**Method:**	SW846 8260B
Lab FileID:	J0976451.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 11:51	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

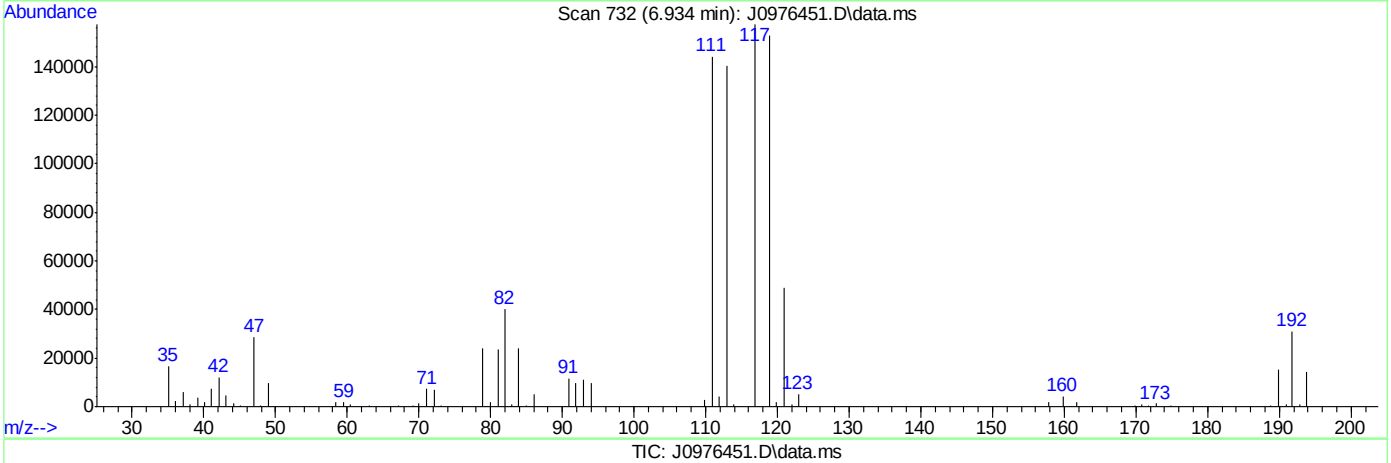
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 12:34:52 2016
Quant Method : C:\msdchem\2\methods\MSJ051216.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 49.51ug/L

response 476384

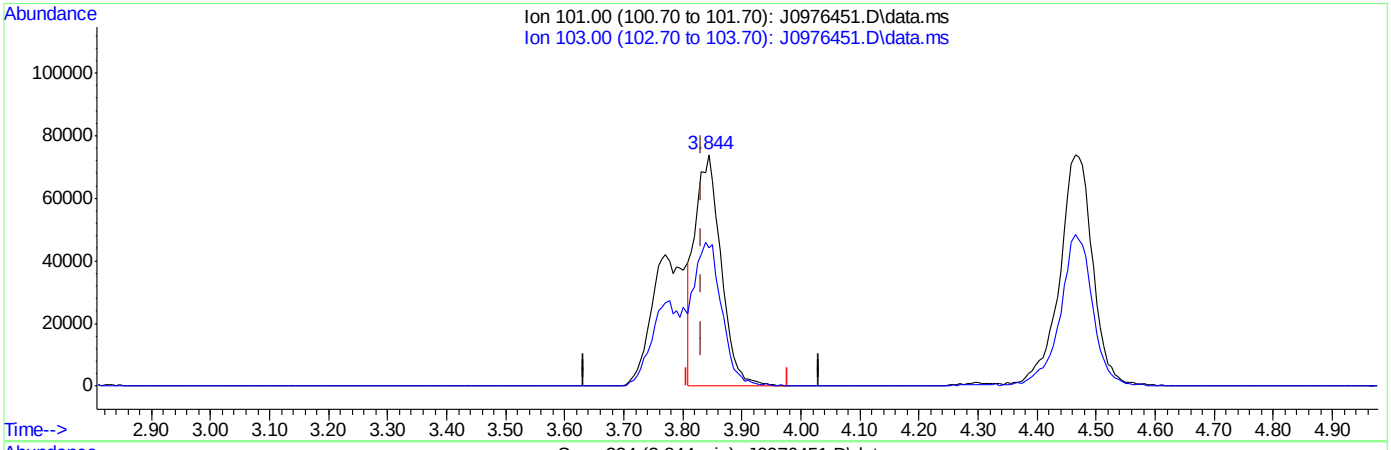
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	97.07
120.90	31.80	31.19
82.00	25.40	25.66

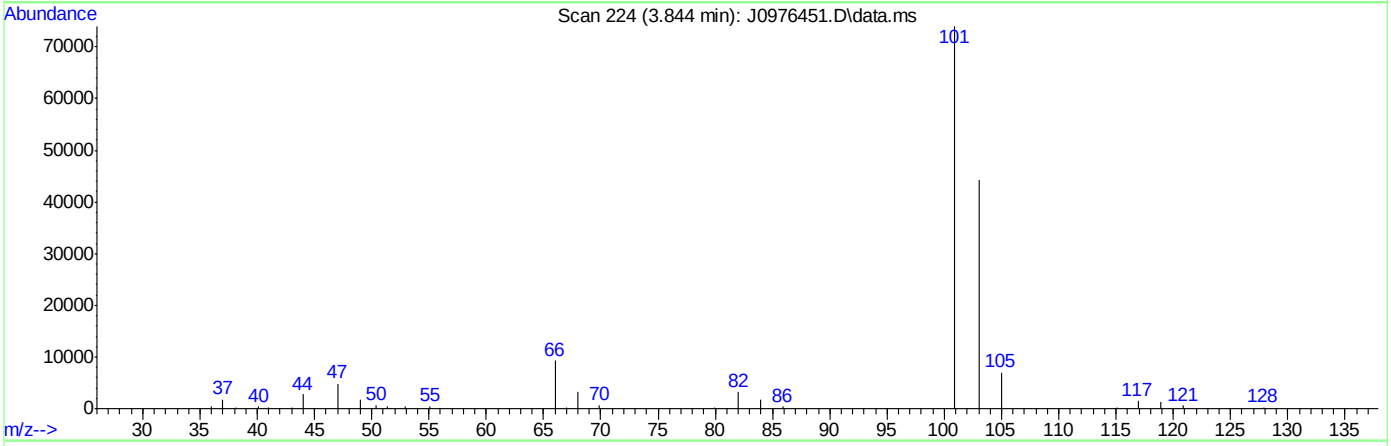
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 18.49ug/L

response 228067

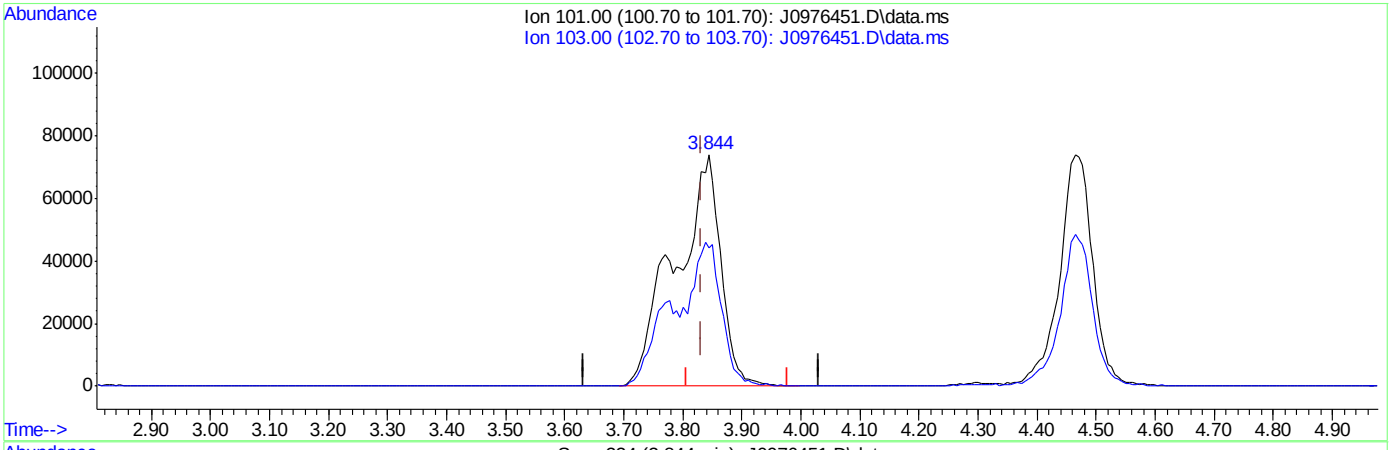
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	59.74
0.00	0.00	0.00
0.00	0.00	0.00

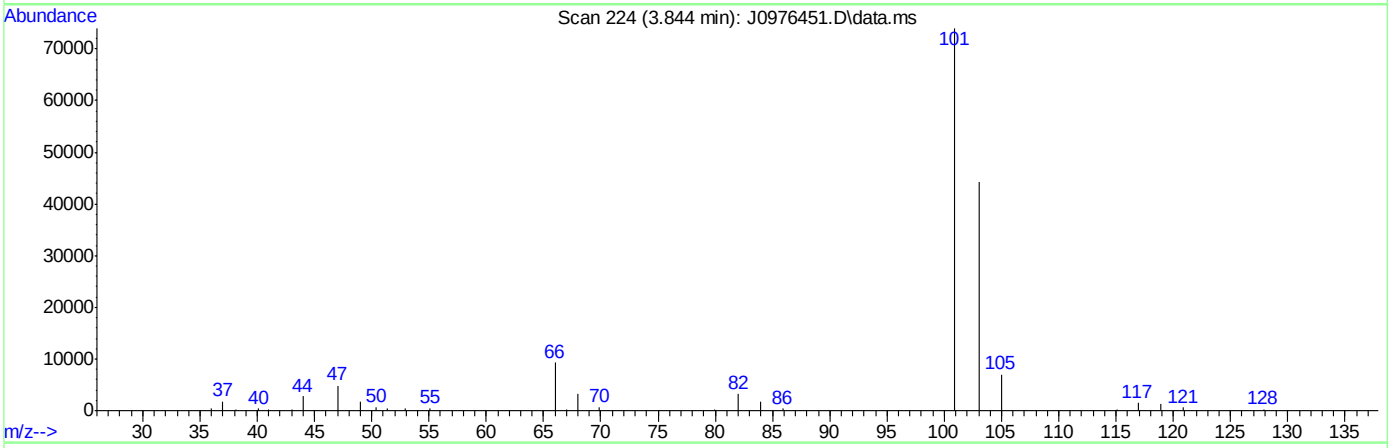
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 31.98ug/L m

response 394494

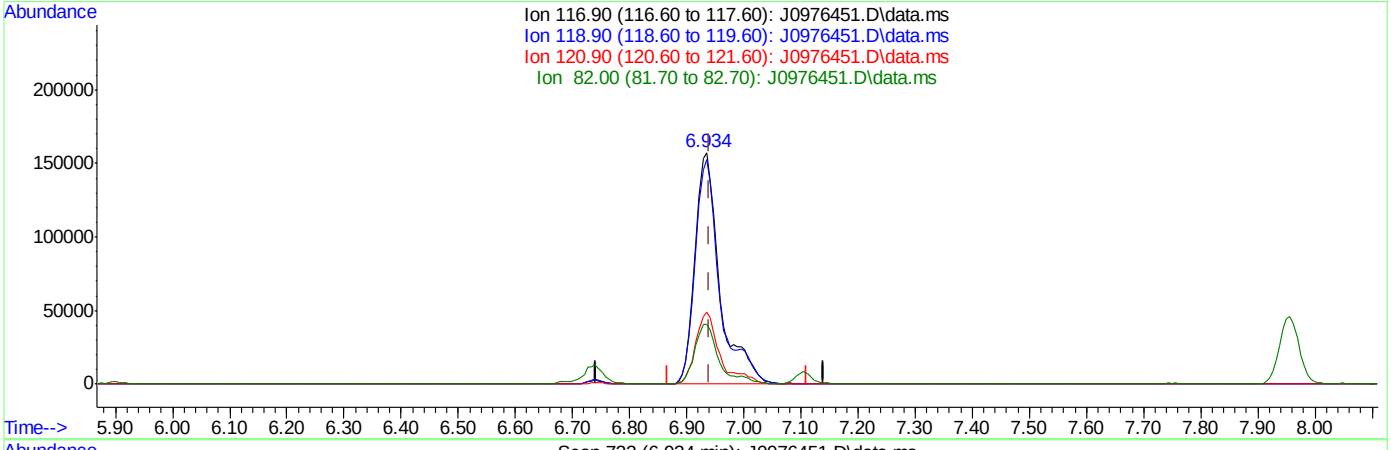
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	59.74
0.00	0.00	0.00
0.00	0.00	0.00

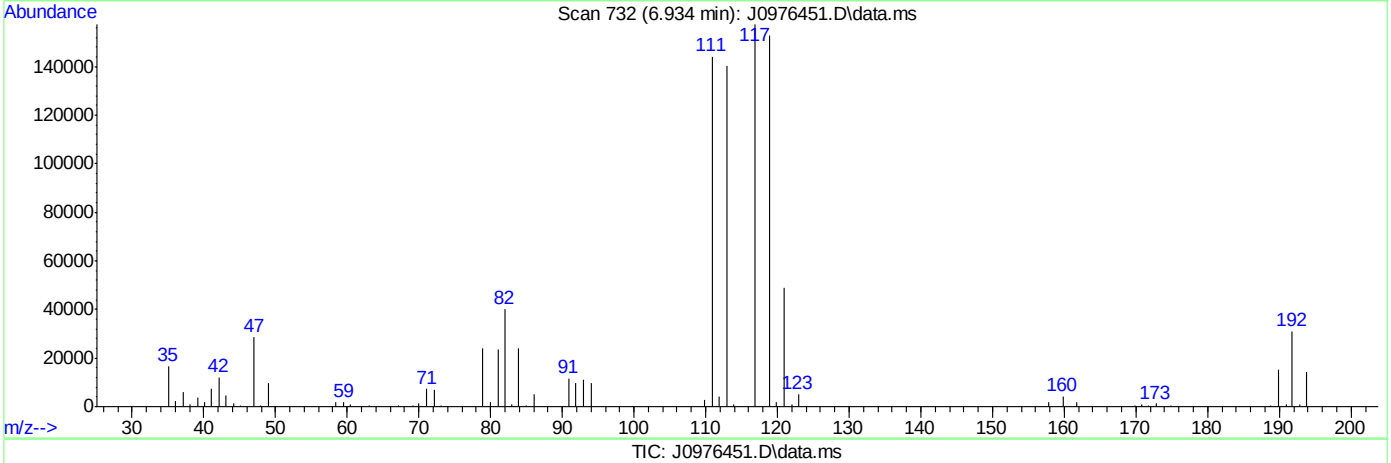
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 47.88ug/L

response 476384

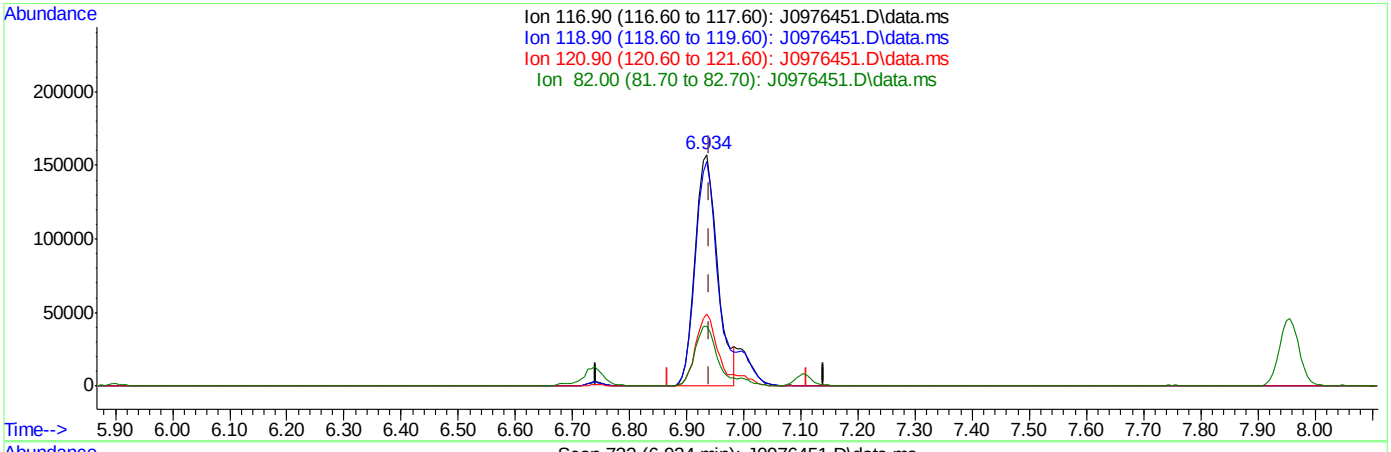
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	97.07
120.90	31.80	31.19
82.00	25.40	25.66

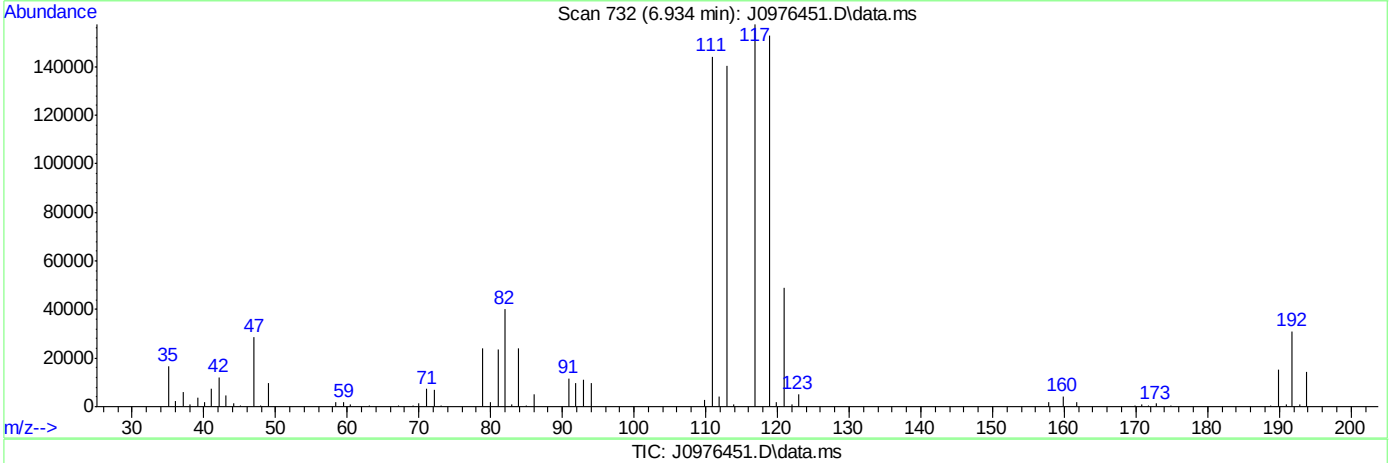
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 42.90ug/L m

response 426841

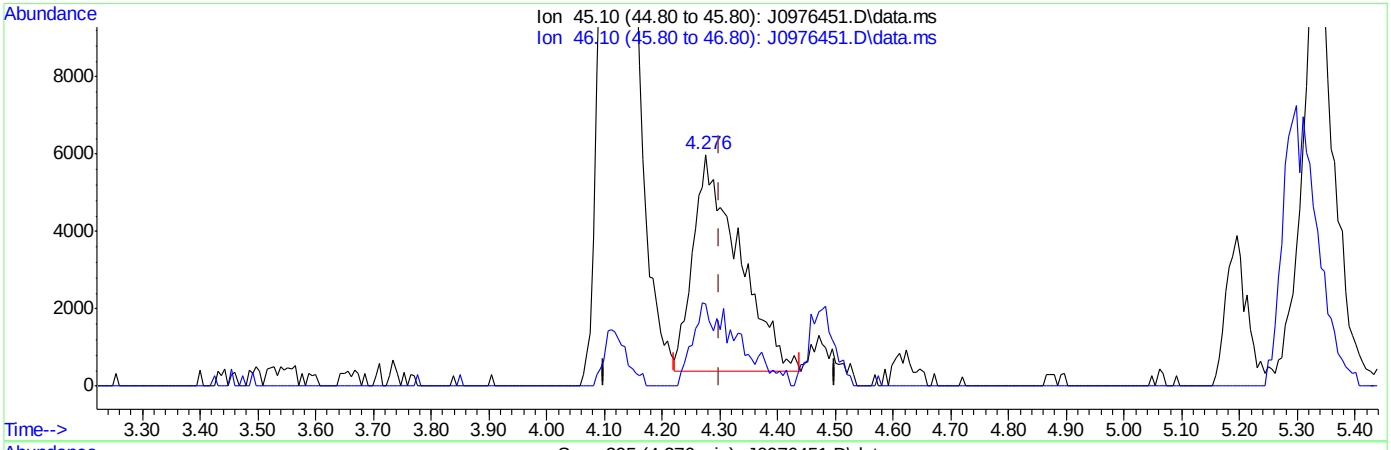
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	97.07
120.90	31.80	31.19
82.00	25.40	25.66

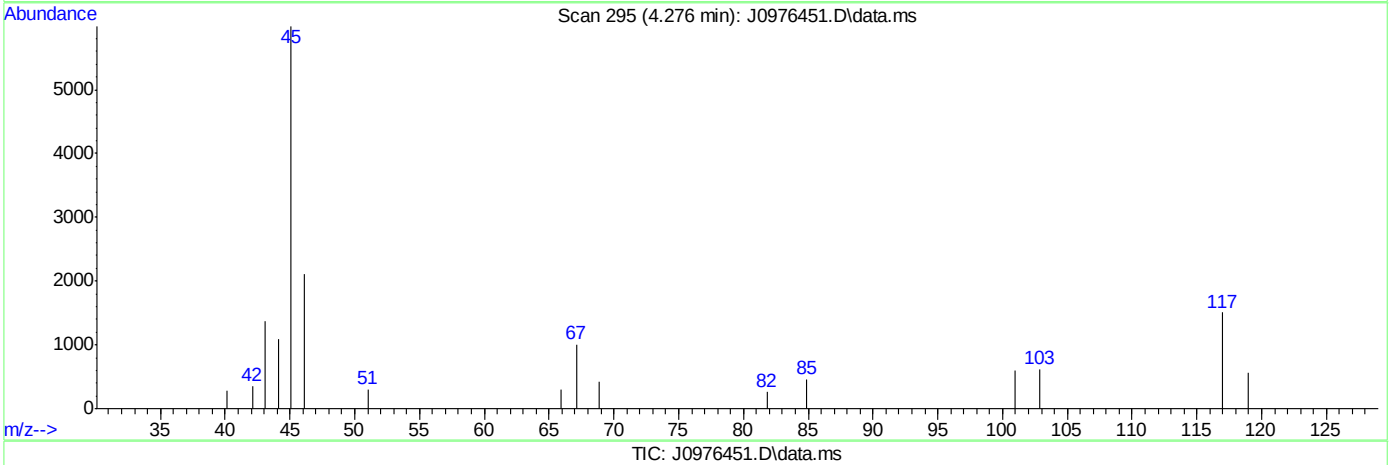
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(107) Ethanol

4.276min (-0.024) 810.11ug/L

response 30648

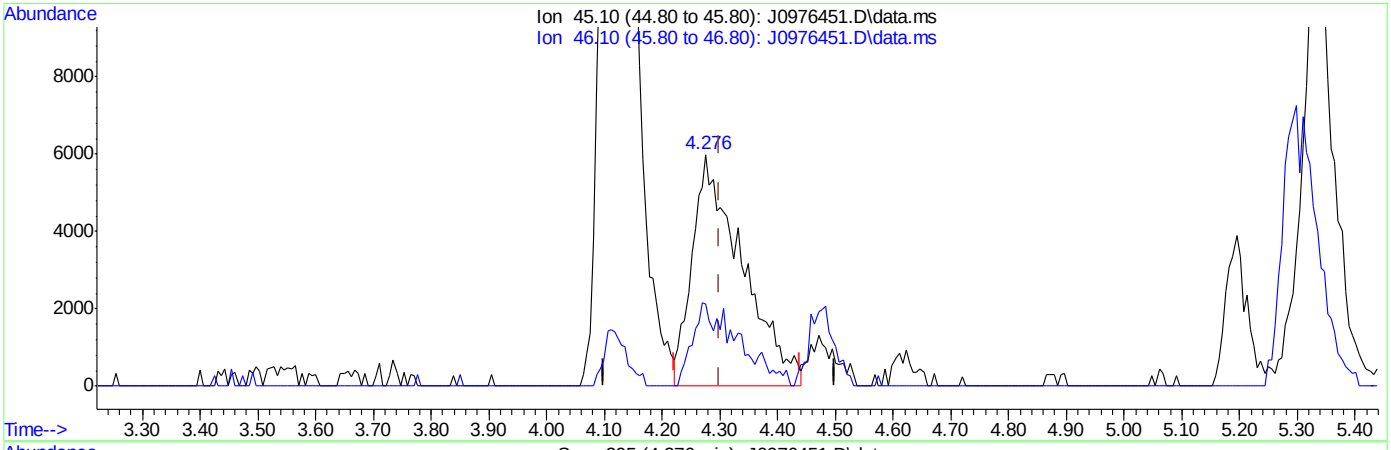
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	37.76
0.00	0.00	0.00
0.00	0.00	0.00

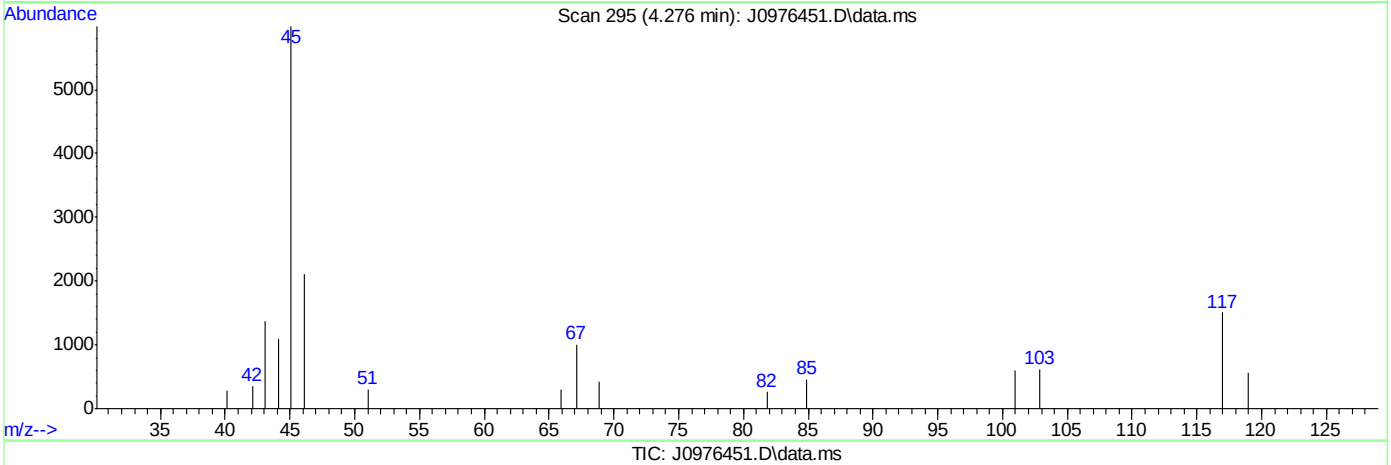
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976451.D\data.ms

(107) Ethanol

4.276min (-0.024) 946.98ug/L m

response 35826

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	35.27
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1481870	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1167051	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	662174	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	98159	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	363868	48.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.10%			
46) 1,2-Dichloroethane-d4	7.482	65	415939	45.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 90.92%			
57) Toluene-d8	9.301	98	1469389	47.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.16%			
79) 4-Bromofluorobenzene	12.051	95	601037	47.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	446025	45.02	ug/L	99
3) Chloromethane	2.907	50	560774	58.77	ug/L	98
4) Vinyl Chloride	3.053	62	607558	59.80	ug/L	100
5) 1,3-Butadiene	3.029	54	9567	1.17	ug/L #	62
6) Bromomethane	3.461	94	306103	56.35	ug/L	95
7) Chloroethane	3.619	64	186526	38.84	ug/L	98
8) Trichlorofluoromethane	3.838	101	802730m	61.68	ug/L	
9) Ethyl Ether	4.118	59	404076	65.70	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	589815	67.80	ug/L	99
11) 1,1-Dichloroethene	4.398	61	779369	70.94	ug/L	96
12) Freon 113	4.471	101	539624	73.55	ug/L	98
13) Carbon Disulfide	4.477	76	1761891	75.62	ug/L	99
14) Iodomethane	4.586	142	867396	72.11	ug/L	100
15) Allyl chloride	4.921	41	705792	68.24	ug/L	97
16) Methylene Chloride	5.048	49	670099	69.53	ug/L	94
17) Acetone	5.073	58	151070	352.29	ug/L	96
18) Methyl acetate	5.194	74	301967	344.65	ug/L	94
19) trans-1,2-Dichloroethene	5.231	61	720791	67.40	ug/L	99
20) Hexane	5.298	56	481361	72.32	ug/L	97
21) Methyl Tert Butyl Ether	5.340	73	1446400	72.35	ug/L	79
22) Acetonitrile	5.590	40	203464	695.64	ug/L	98
23) Di-isopropyl ether	5.718	45	1631325	70.81	ug/L	99
24) Chloroprene	5.870	53	755288	66.56	ug/L	97
25) 1,1-Dichloroethane	5.900	63	946769	68.31	ug/L	98
26) Acrylonitrile	5.925	53	663523	345.43	ug/L	96
27) ETBE	6.119	59	1690833	73.31	ug/L	97
28) Vinyl acetate	6.107	43	3826815	331.87	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	629180	71.18	ug/L	97
30) 2,2-Dichloropropane	6.606	77	786837	75.66	ug/L	97
31) Bromochloromethane	6.685	128	288757	70.35	ug/L	97
32) Cyclohexane	6.734	56	969850	78.36	ug/L	96
33) Chloroform	6.740	83	1023711	67.66	ug/L	97
34) Ethyl acetate	6.807	43	1436457	311.89	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	88242	65.74 ug/L	91
37) Carbon Tetrachloride	6.934	117	799023m	76.12 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	917330	72.06 ug/L	98
39) 2-Butanone	7.026	43	659451	327.20 ug/L	100
40) 1,1-Dichloropropene	7.105	75	744820	70.63 ug/L	98
41) tert-Butyl Formate	7.190	59	3495989	744.01 ug/L	97
42) Propionitrile	7.336	54	472654	674.48 ug/L	99
43) Methacrylonitrile	7.360	41	1832335	615.65 ug/L	95
44) Benzene	7.360	78	2222784	69.19 ug/L	96
45) TAME	7.433	73	1566921	77.05 ug/L	94
47) 1,2-Dichloroethane	7.549	62	693522	62.55 ug/L	97
48) Trichloroethene	7.938	95	580119	68.47 ug/L	98
49) Methylcyclohexane	7.956	83	1074035	80.32 ug/L	98
50) Dibromomethane	8.358	93	312906	70.99 ug/L	98
51) 1,2-Dichloropropane	8.449	63	559766	70.82 ug/L	97
52) Bromodichloromethane	8.498	83	741408	72.82 ug/L	99
53) Methyl methacrylate	8.589	41	295085	69.36 ug/L	96
54) 2-Chloroethyl vinyl ether	9.009	63	1403378	342.66 ug/L	96
55) cis-1,3-Dichloropropene	9.112	75	882726	76.86 ug/L	97
58) Toluene	9.356	91	2341062	70.33 ug/L	97
59) 2-Nitropropane	9.556	41	428296	301.02 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	1637352	321.69 ug/L	96
61) trans-1,3-Dichloropropene	9.739	75	754779	75.13 ug/L	99
62) Tetrachloroethene	9.757	166	614633	61.88 ug/L	98
63) Ethyl methacrylate	9.836	69	589587	67.30 ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	390246	67.99 ug/L	97
65) Dibromochloromethane	10.104	129	542258	72.09 ug/L	99
66) 1,3-Dichloropropane	10.183	76	787055	67.05 ug/L	97
67) 1,2-Dibromoethane	10.359	107	451849	72.22 ug/L	99
68) 2-hexanone	10.487	43	1154102	333.37 ug/L	95
69) 1-Chlorohexane	10.797	91	799233	74.52 ug/L	90
70) Ethylbenzene	10.864	91	2656813	71.40 ug/L	93
71) Chlorobenzene	10.864	112	1587555	70.19 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	552971	73.99 ug/L	99
73) m,p-Xylene	10.998	91	3808260	148.21 ug/L	87
74) o-Xylene	11.436	91	2169886	70.94 ug/L	96
75) Styrene	11.485	104	1764304	78.02 ug/L	98
76) Bromoform	11.546	173	354421	80.77 ug/L	99
77) Isopropylbenzene	11.740	105	2585930	74.76 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.087	53	149076	85.81 ug/L	92
81) n-Propylbenzene	12.160	91	3022593	65.45 ug/L	92
82) Bromobenzene	12.185	156	734208	68.51 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	568821	72.42 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	2351610	68.39 ug/L	95
85) 2-Chlorotoluene	12.349	91	2160334	64.60 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.397	53	139788	78.24 ug/L #	84
87) 1,2,3-Trichloropropane	12.379	110	151516	70.18 ug/L	95
88) Cyclohexanone	12.446	55	73414	557.82 ug/L	92
89) 4-Chlorotoluene	12.519	91	2043251	66.55 ug/L	95
90) a-Methyl Styrene	12.604	118	1343518	139.95 ug/L	99

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	1345971	66.39	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	2325918	67.55	ug/L	93
93) Pentachloroethane	12.738	167	476717	83.94	ug/L	97
94) sec-Butylbenzene	12.866	105	2815019	68.72	ug/L	95
95) 4-Isopropyltoluene	13.000	119	2420392	70.92	ug/L	95
96) 1,3-Dichlorobenzene	13.134	146	1296124	70.63	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	1313026	67.40	ug/L	97
98) n-Butylbenzene	13.432	92	1428526	73.08	ug/L	91
99) Benzyl Chloride	13.444	126	218703	82.53	ug/L #	74
100) 1,2-Dichlorobenzene	13.645	146	1192316	71.52	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	82362	104.60	ug/L	88
102) Hexachlorobutadiene	14.928	225	556463	95.28	ug/L	96
103) 1,2,4-Trichlorobenzene	14.971	180	856798	117.76	ug/L	99
104) Naphthalene	15.257	128	1265144	120.55	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	713895	129.15	ug/L	99
107) Ethanol	4.288	45	65518m	1539.00	ug/L	
108) acrolein	4.756	56	315898	291.87	ug/L	89
109) Tert Butyl Alcohol	5.389	59	325500	713.90	ug/L	86
110) tert Amyl alcohol	7.573	59	264776	778.45	ug/L	96
111) Isobutyl alcohol	7.458	42	218502	1307.69	ug/L	94
112) 1,4-Dioxane	8.674	88	77498	1782.92	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.432	57	1468924	3416.98	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.6

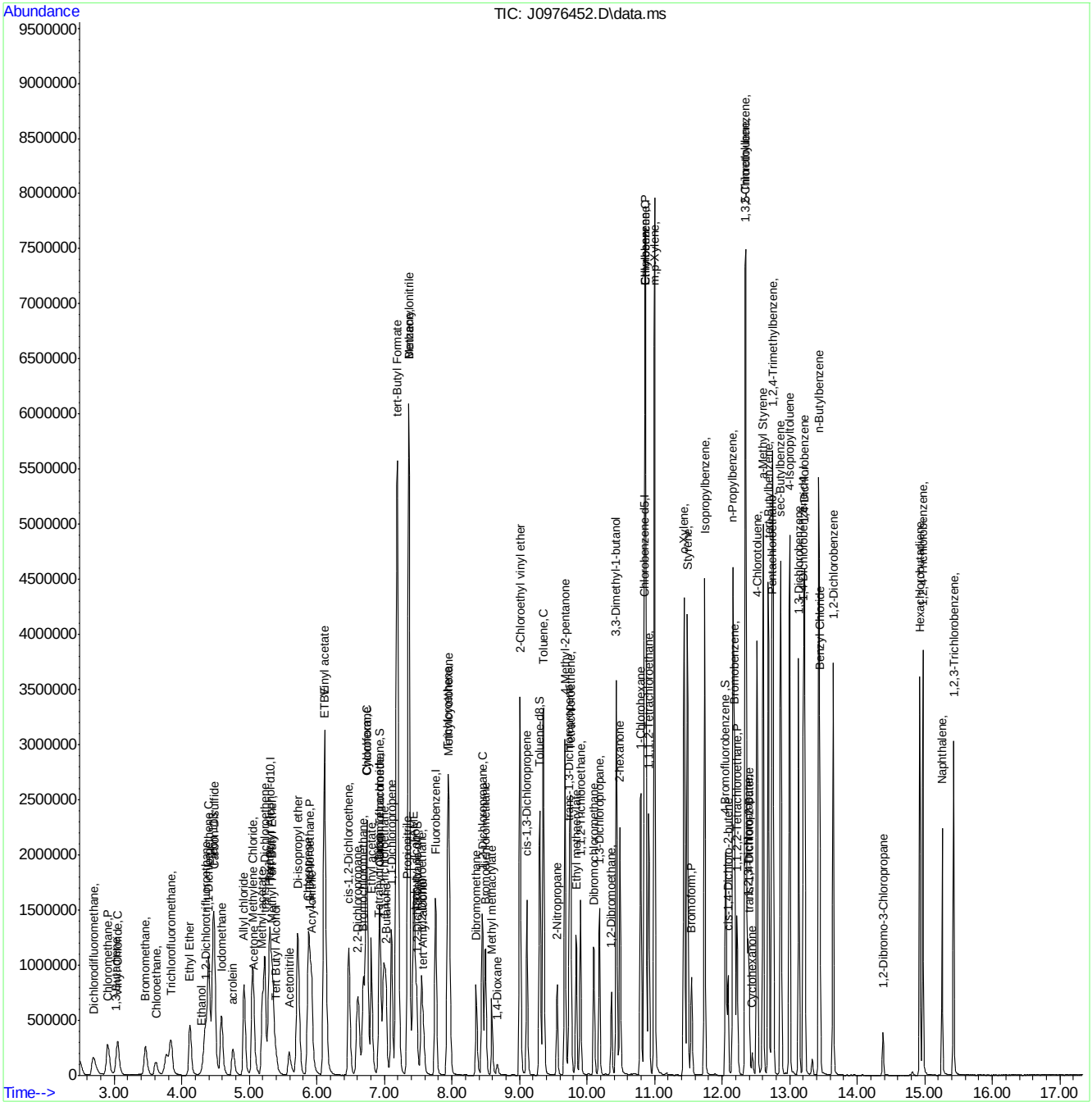
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

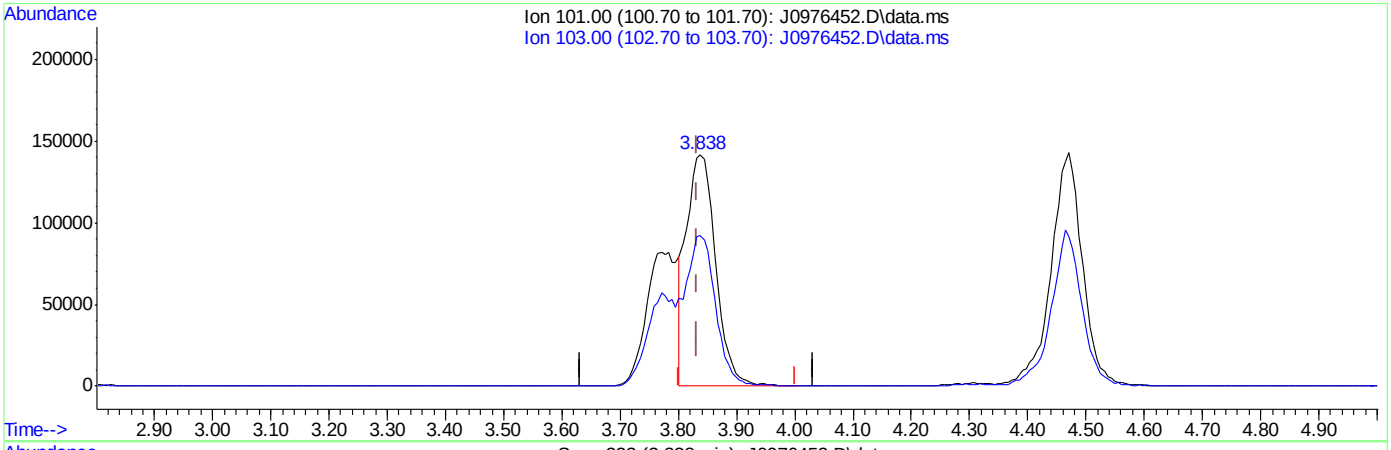
Sample Number:	VJ5295-IC5295	**Method:**	SW846 8260B
Lab FileID:	J0976452.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 12:14	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

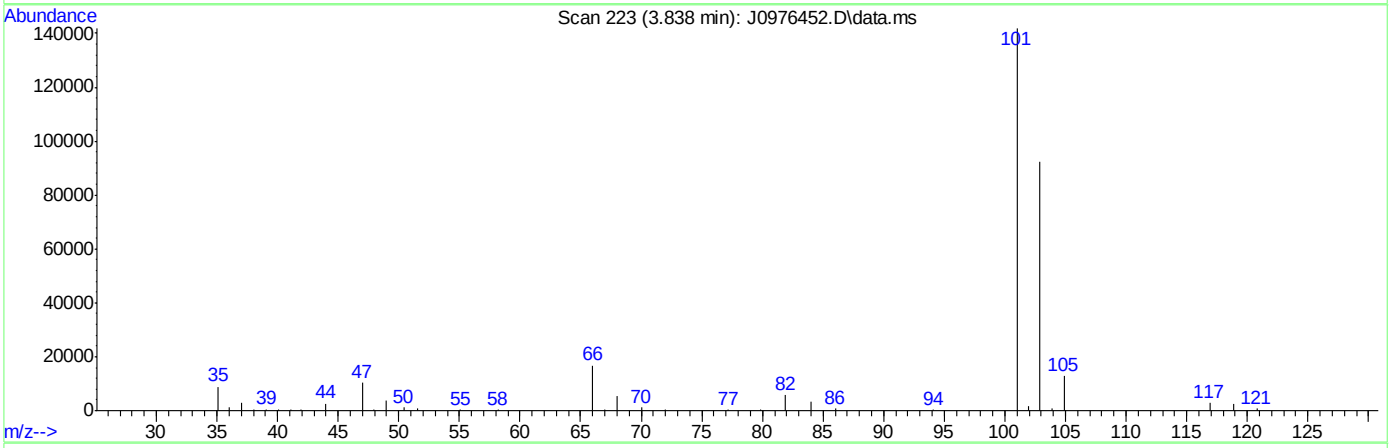
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976452.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 37.80ug/L

response 492022

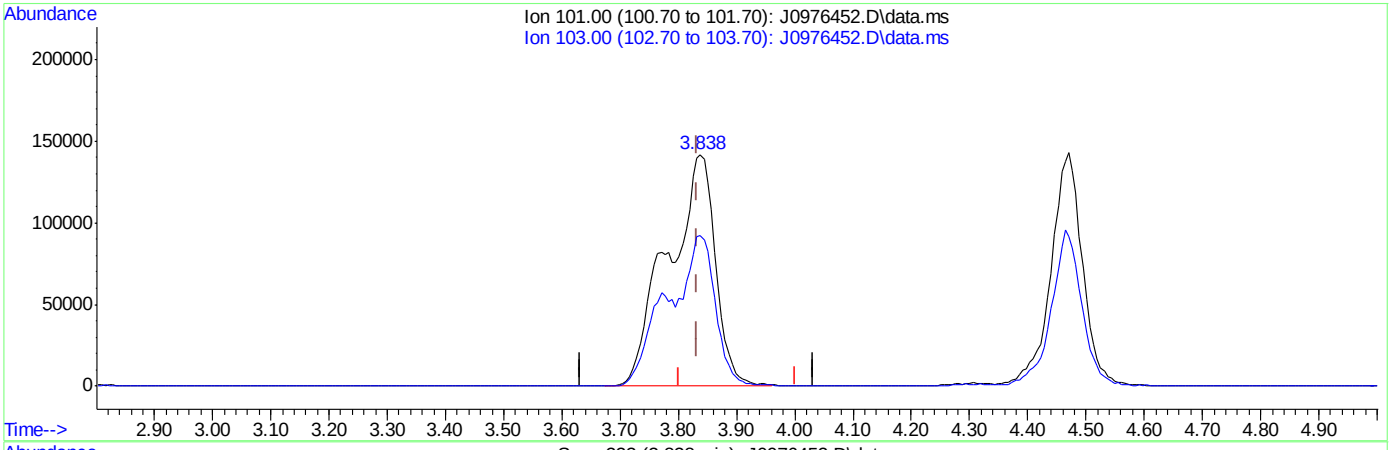
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.13
0.00	0.00	0.00
0.00	0.00	0.00

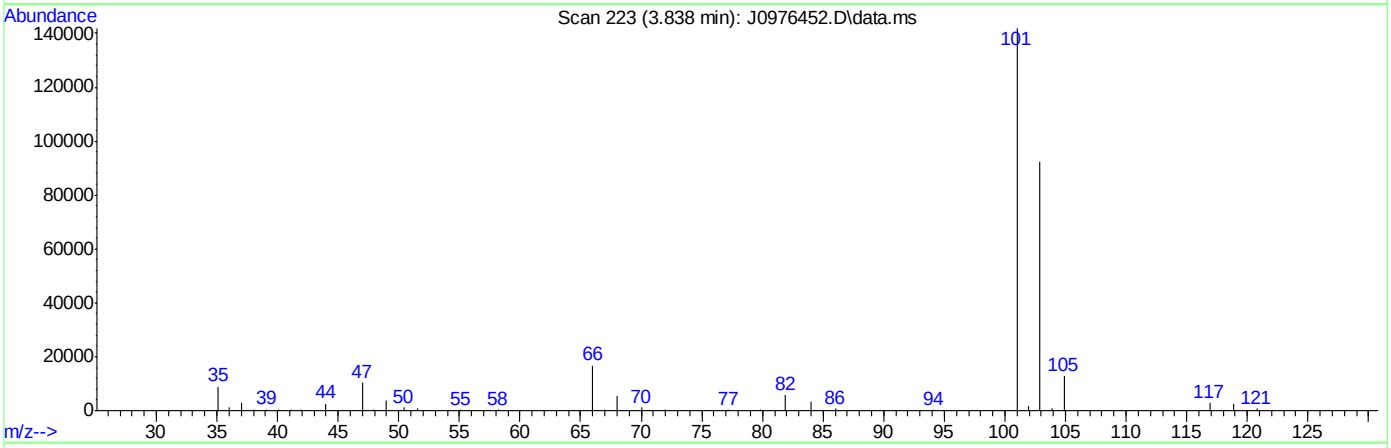
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976452.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 61.68ug/L m

response 802730

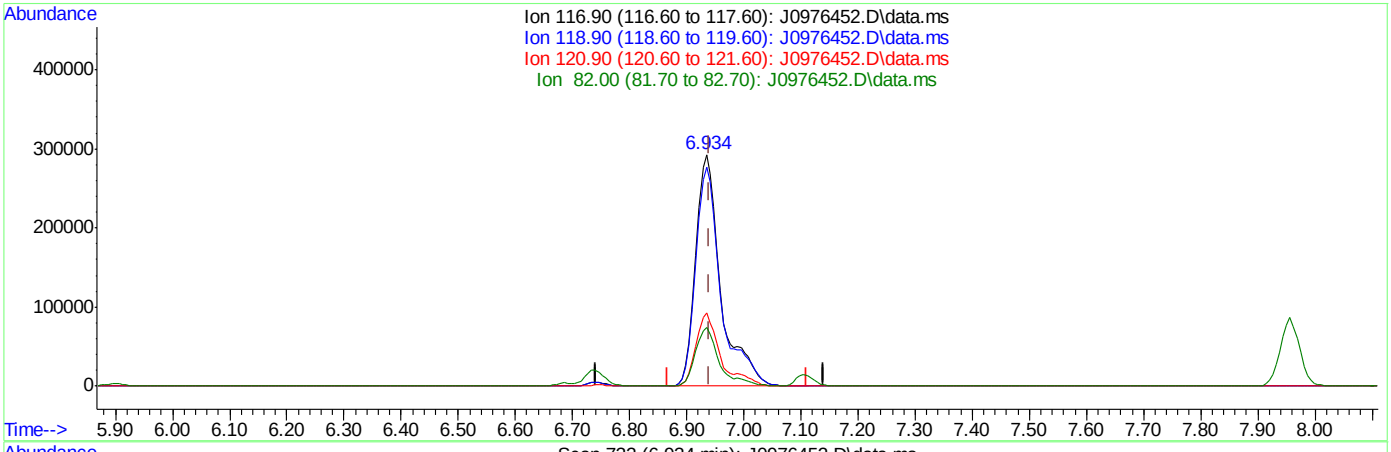
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.22
0.00	0.00	0.00
0.00	0.00	0.00

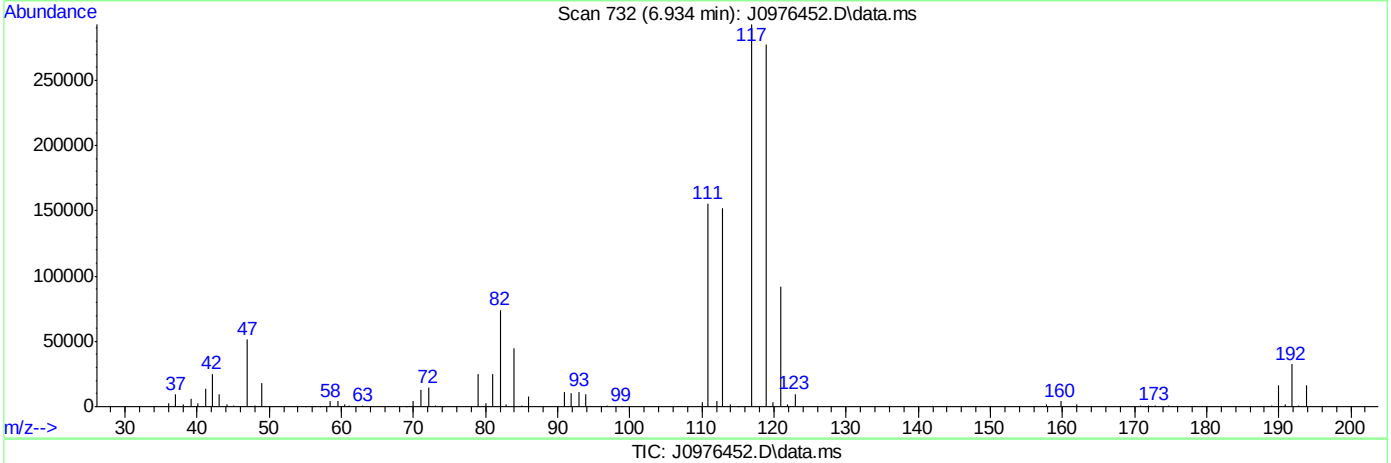
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976452.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 85.39ug/L

response 896400

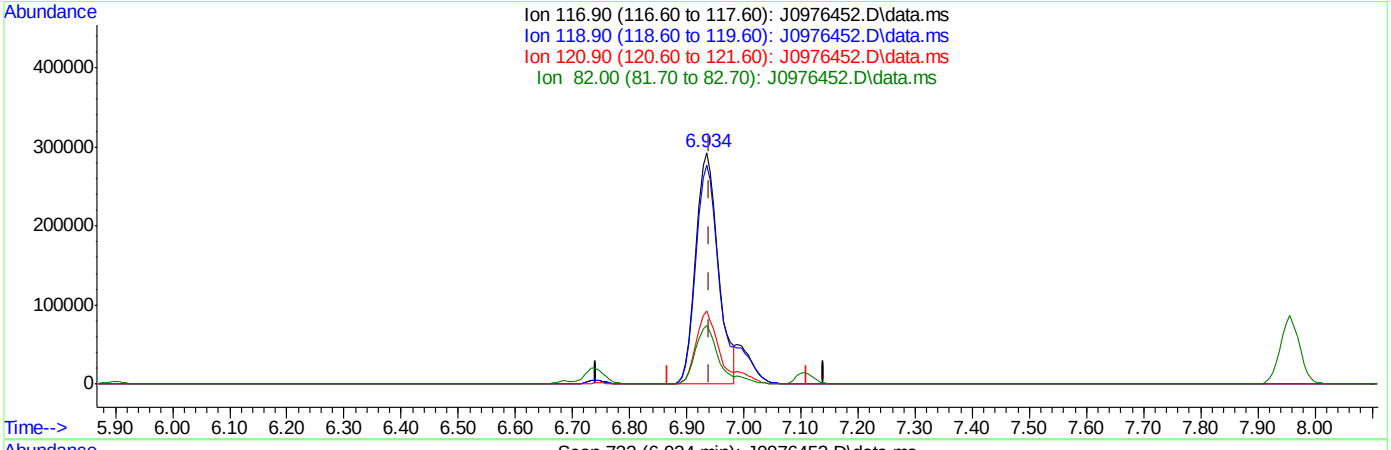
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.71
120.90	31.80	31.52
82.00	25.40	25.26

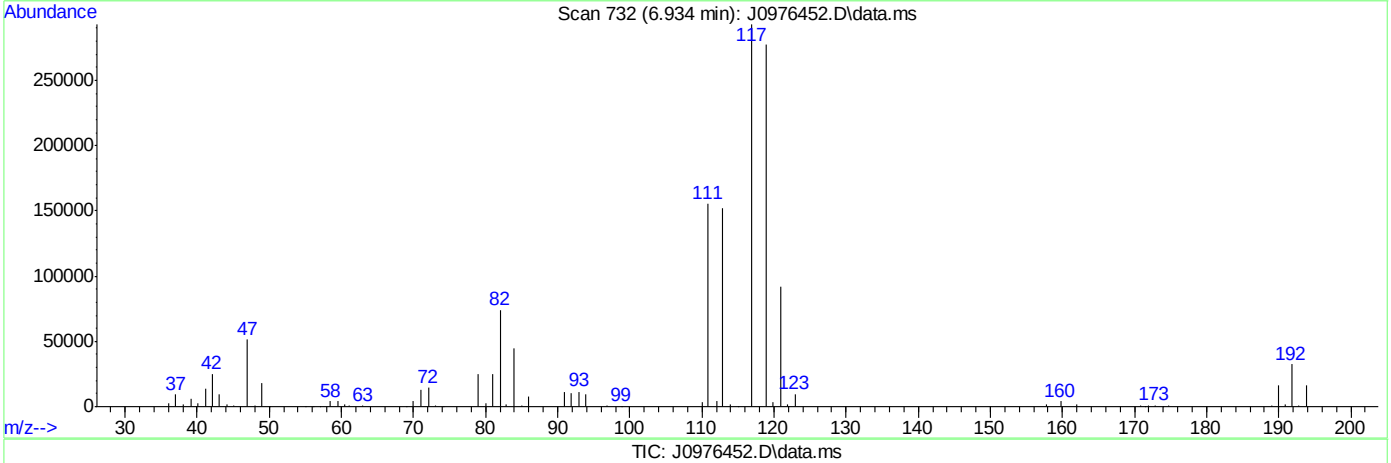
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976452.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 76.12ug/L m

response 799023

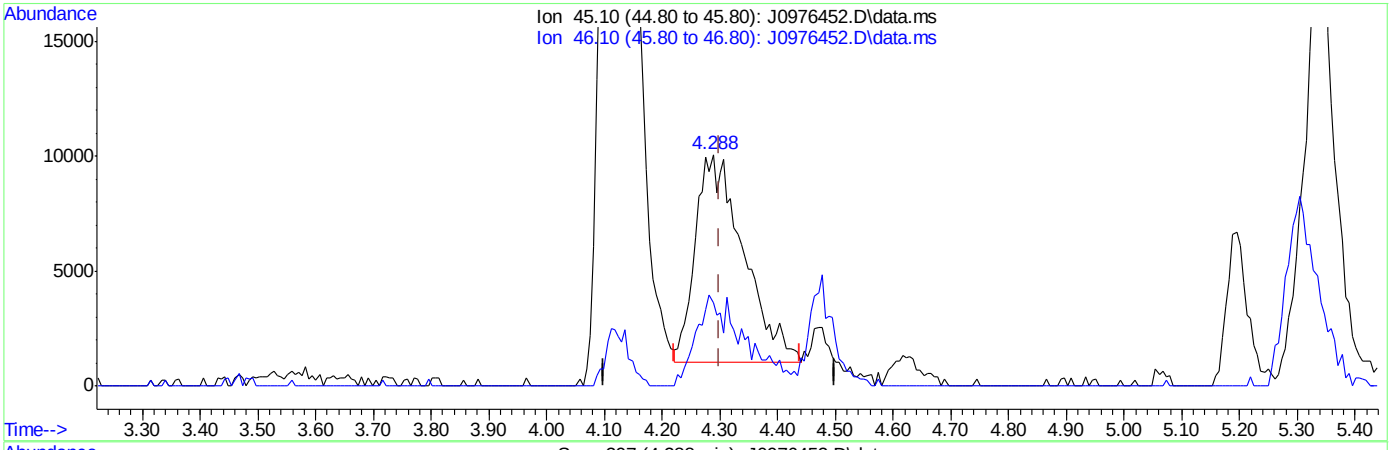
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.71
120.90	31.80	31.52
82.00	25.40	25.26

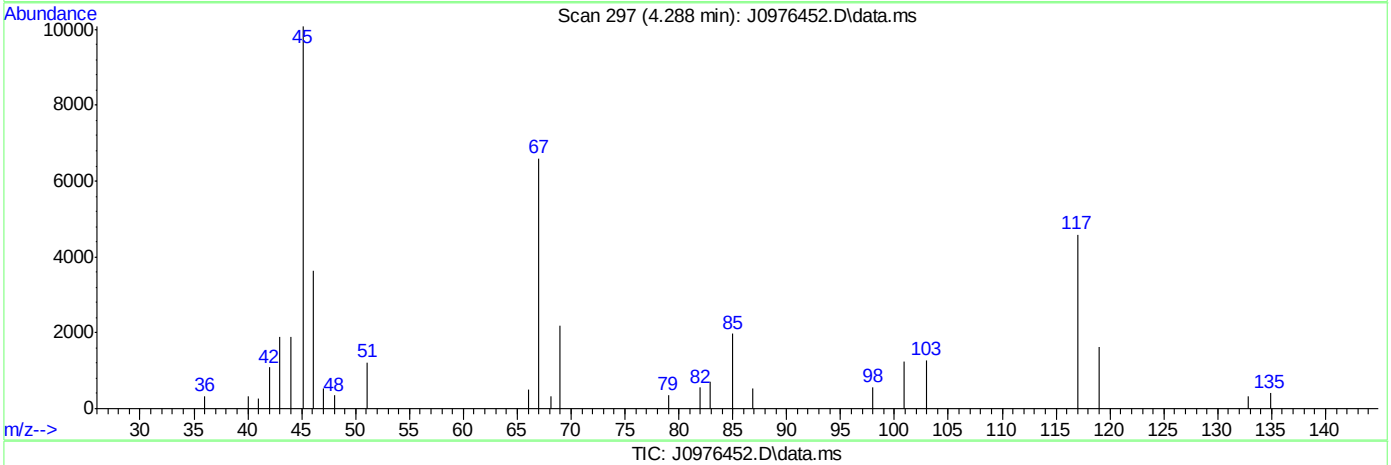
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976452.D\data.ms

(107) Ethanol

4.288min (-0.012) 1222.71ug/L

response 52053

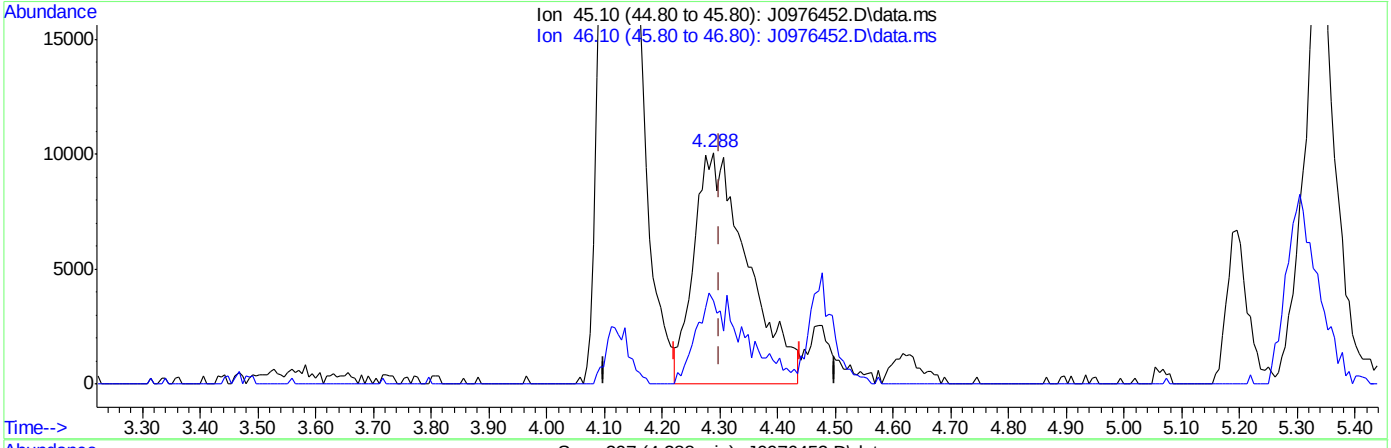
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	40.24
0.00	0.00	0.00
0.00	0.00	0.00

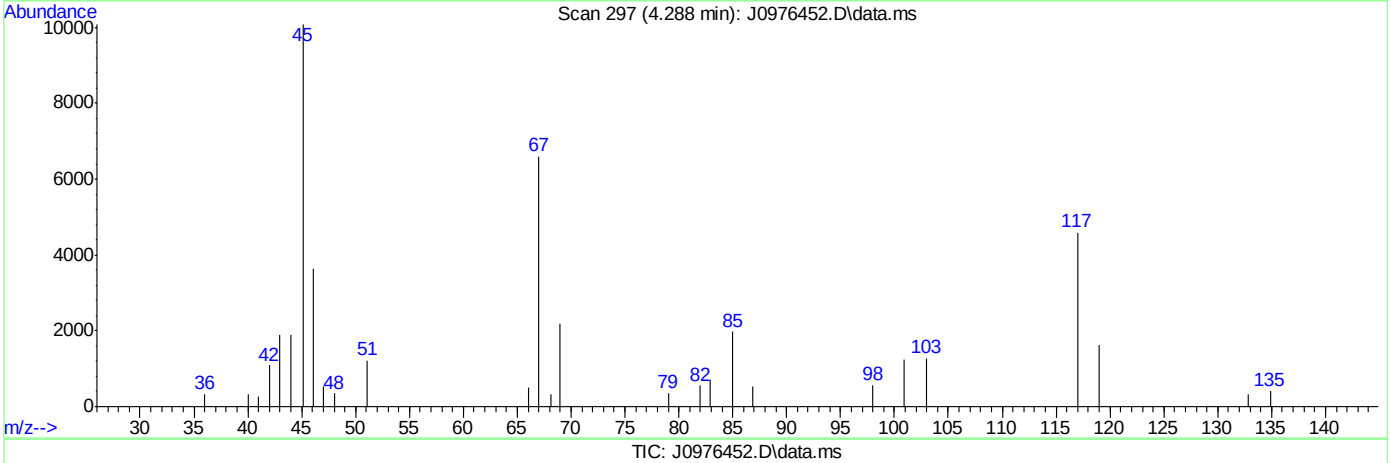
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976452.D\data.ms

(107) Ethanol

4.288min (-0.012) 1539.00ug/L m

response 65518

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	36.04
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

J0976453.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1518797	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1178824	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	680208	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	108562	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	373460	48.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.22%			
46) 1,2-Dichloroethane-d4	7.476	65	411127	43.85	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 87.70%			
57) Toluene-d8	9.301	98	1501610	48.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.28%			
79) 4-Bromofluorobenzene	12.051	95	607280	46.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.682	85	651299	64.14	ug/L	94
3) Chloromethane	2.901	50	859311	88.93	ug/L	96
4) Vinyl Chloride	3.047	62	841123	80.77	ug/L	99
5) 1,3-Butadiene	3.029	54	10354	1.24	ug/L #	81
6) Bromomethane	3.461	94	414058	85.91	ug/L	99
7) Chloroethane	3.601	64	216960	45.65	ug/L	99
8) Trichlorofluoromethane	3.832	101	1138092m	85.32	ug/L	
9) Ethyl Ether	4.118	59	594982	94.39	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.355	67	882332	98.96	ug/L	97
11) 1,1-Dichloroethene	4.392	61	1166631	103.61	ug/L	95
12) Freon 113	4.465	101	796908	105.98	ug/L	98
13) Carbon Disulfide	4.471	76	2683455	112.37	ug/L	99
14) Iodomethane	4.580	142	1331742	108.03	ug/L	99
15) Allyl chloride	4.921	41	1058938	99.90	ug/L	97
16) Methylene Chloride	5.042	49	974953	100.96	ug/L	92
17) Acetone	5.067	58	227432	509.81	ug/L	96
18) Methyl acetate	5.188	74	441906	492.11	ug/L	93
19) trans-1,2-Dichloroethene	5.225	61	1047043	95.52	ug/L	96
20) Hexane	5.298	56	691548	101.38	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	2146633	104.76	ug/L	78
22) Acetonitrile	5.584	40	296160	1021.09	ug/L	96
23) Di-isopropyl ether	5.712	45	2368068	100.30	ug/L	98
24) Chloroprene	5.870	53	1166107	100.27	ug/L	96
25) 1,1-Dichloroethane	5.894	63	1355242	95.41	ug/L	99
26) Acrylonitrile	5.925	53	913137	463.82	ug/L	96
27) ETBE	6.113	59	2393724	101.27	ug/L	97
28) Vinyl acetate	6.107	43	5044762	426.85	ug/L	96
29) cis-1,2-Dichloroethene	6.472	96	907885	100.21	ug/L	98
30) 2,2-Dichloropropane	6.600	77	1153876	108.26	ug/L	99
31) Bromochloromethane	6.685	128	415153	98.69	ug/L	93
32) Cyclohexane	6.734	56	1405538	110.80	ug/L	92
33) Chloroform	6.734	83	1467556	94.64	ug/L	96
34) Ethyl acetate	6.807	43	2010635	425.95	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	130669	94.24	ug/L	97
37) Carbon Tetrachloride	6.934	117	1143543m	106.29	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	1335984	102.39	ug/L	99
39) 2-Butanone	7.020	43	942113	456.31	ug/L	99
40) 1,1-Dichloropropene	7.105	75	1056163	97.72	ug/L	96
41) tert-Butyl Formate	7.190	59	4966696	1027.34	ug/L	96
42) Propionitrile	7.330	54	661097	920.46	ug/L	83
43) Methacrylonitrile	7.360	41	2468872	847.06	ug/L	95
44) Benzene	7.354	78	3084333	93.68	ug/L	95
45) TAME	7.433	73	2246440	107.77	ug/L	96
47) 1,2-Dichloroethane	7.549	62	960565	84.52	ug/L	99
48) Trichloroethene	7.932	95	819732	94.41	ug/L	98
49) Methylcyclohexane	7.957	83	1560913	113.89	ug/L	96
50) Dibromomethane	8.358	93	440789	97.57	ug/L	95
51) 1,2-Dichloropropane	8.449	63	786413	97.08	ug/L	96
52) Bromodichloromethane	8.492	83	1039385	99.61	ug/L	98
53) Methyl methacrylate	8.589	41	417509	95.75	ug/L	96
54) 2-Chloroethyl vinyl ether	9.009	63	1941087	470.27	ug/L	95
55) cis-1,3-Dichloropropene	9.106	75	1237691	105.14	ug/L	97
58) Toluene	9.350	91	3178652	98.93	ug/L	92
59) 2-Nitropropane	9.556	41	604202	420.40	ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	2239097	435.52	ug/L	93
61) trans-1,3-Dichloropropene	9.733	75	1050185	103.49	ug/L	97
62) Tetrachloroethene	9.757	166	875580	87.27	ug/L	98
63) Ethyl methacrylate	9.836	69	836118	94.32	ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	546950	94.34	ug/L	95
65) Dibromochloromethane	10.098	129	765262	99.88	ug/L	97
66) 1,3-Dichloropropane	10.183	76	1085050	91.51	ug/L	97
67) 1,2-Dibromoethane	10.360	107	632383	100.07	ug/L	99
68) 2-hexanone	10.487	43	1586642	453.73	ug/L	93
69) 1-Chlorohexane	10.798	91	1130116	104.32	ug/L	90
70) Ethylbenzene	10.858	91	3503961	99.77	ug/L	89
71) Chlorobenzene	10.864	112	2184913	97.34	ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	801668	106.19	ug/L	98
73) m,p-Xylene	10.998	91	4804369	220.10	ug/L	76
74) o-Xylene	11.436	91	2982677	96.54	ug/L	90
75) Styrene	11.485	104	2417815	105.86	ug/L	97
76) Bromoform	11.546	173	506735	110.80	ug/L	98
77) Isopropylbenzene	11.741	105	3488353	105.66	ug/L	89
80) cis-1,4-Dichloro-2-butene	12.087	53	215060	120.51	ug/L	88
81) n-Propylbenzene	12.160	91	3929152	82.83	ug/L	84
82) Bromobenzene	12.185	156	1034822	94.00	ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	794664	98.50	ug/L	100
84) 1,3,5-Trimethylbenzene	12.343	105	3192934	90.40	ug/L	88
85) 2-Chlorotoluene	12.349	91	2915956	84.89	ug/L	94
86) trans-1,4-Dichloro-2-B...	12.398	53	202737	106.50	ug/L #	88
87) 1,2,3-Trichloropropane	12.379	110	211871	95.53	ug/L	98
88) Cyclohexanone	12.446	55	103606	766.35	ug/L	93
89) 4-Chlorotoluene	12.519	91	2797209	88.70	ug/L	90
90) a-Methyl Styrene	12.604	118	1916887	194.38	ug/L	98

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	1882953	90.42	ug/L	97
92) 1,2,4-Trimethylbenzene	12.750	105	3168286	89.58	ug/L	89
93) Pentachloroethane	12.738	167	699264	113.06	ug/L	96
94) sec-Butylbenzene	12.866	105	3750373	89.13	ug/L	89
95) 4-Isopropyltoluene	13.000	119	3271222	93.31	ug/L	88
96) 1,3-Dichlorobenzene	13.134	146	1821398	96.63	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	1836230	91.75	ug/L	95
98) n-Butylbenzene	13.432	92	1993389	99.28	ug/L	83
99) Benzyl Chloride	13.444	126	322095	111.35	ug/L	94
100) 1,2-Dichlorobenzene	13.645	146	1684058	98.34	ug/L	95
101) 1,2-Dibromo-3-Chloropr...	14.381	75	119242	139.66	ug/L	85
102) Hexachlorobutadiene	14.928	225	821299	131.95	ug/L	95
103) 1,2,4-Trichlorobenzene	14.971	180	1214521	152.74	ug/L	98
104) Naphthalene	15.257	128	1801574	152.17	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	1038632	165.41	ug/L	99
107) Ethanol	4.276	45	101265m	2150.75	ug/L	
108) acrolein	4.750	56	478151	399.44	ug/L	95
109) Tert Butyl Alcohol	5.383	59	491986	975.65	ug/L	89
110) tert Amyl alcohol	7.573	59	391318	1040.24	ug/L	94
111) Isobutyl alcohol	7.452	42	311367	1759.00	ug/L	96
112) 1,4-Dioxane	8.668	88	112250	2334.96	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.433	57	2157655	4367.51	ug/L	96

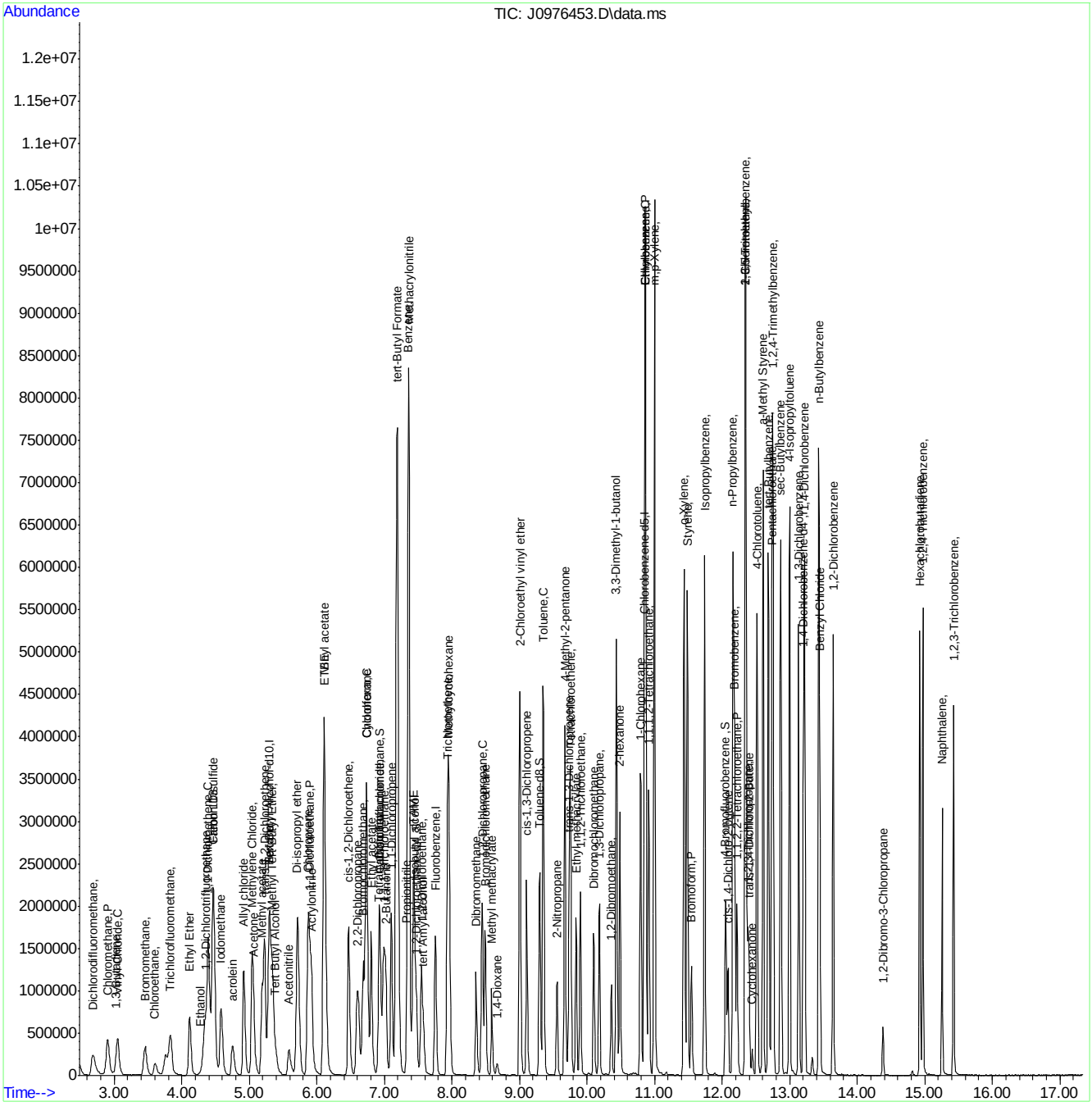
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



MSJ051216a.M Fri May 13 07:49:49 2016 Page: 4

Manual Integration Approval Summary

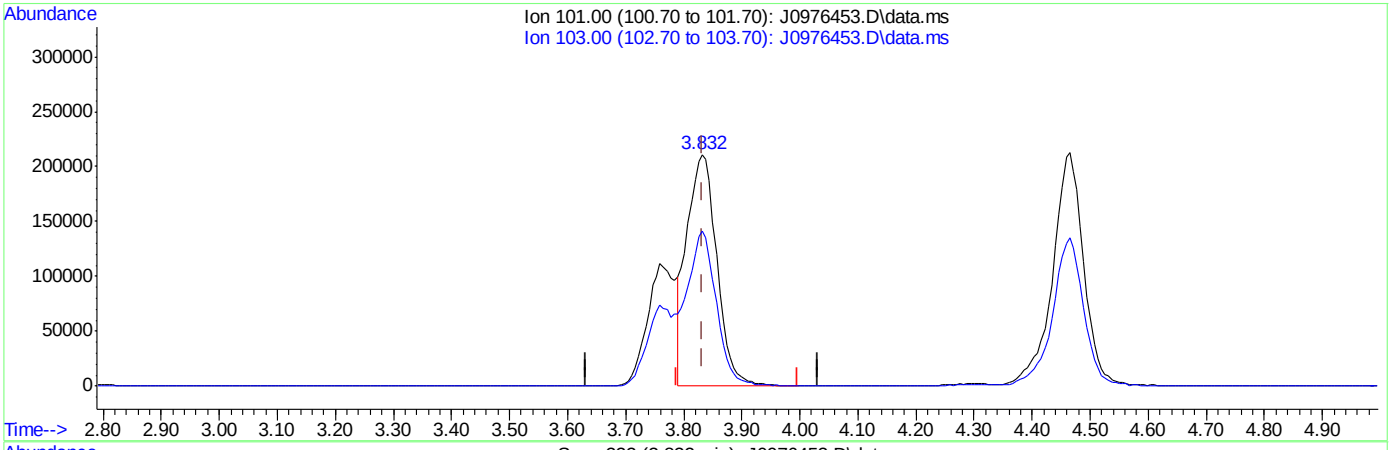
Sample Number:	VJ5295-IC5295	**Method:**	SW846 8260B
Lab FileID:	J0976453.D	**Analyst approved:**	05/13/16 07:53 Darshna Patel
Injection Time:	05/12/16 12:37	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

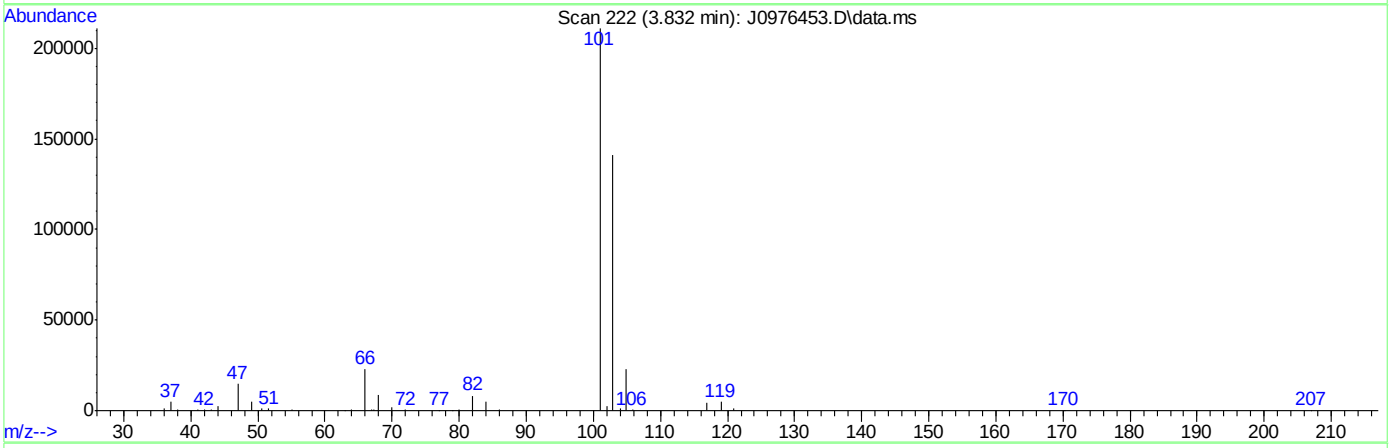
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976453.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 56.96ug/L

response 759883

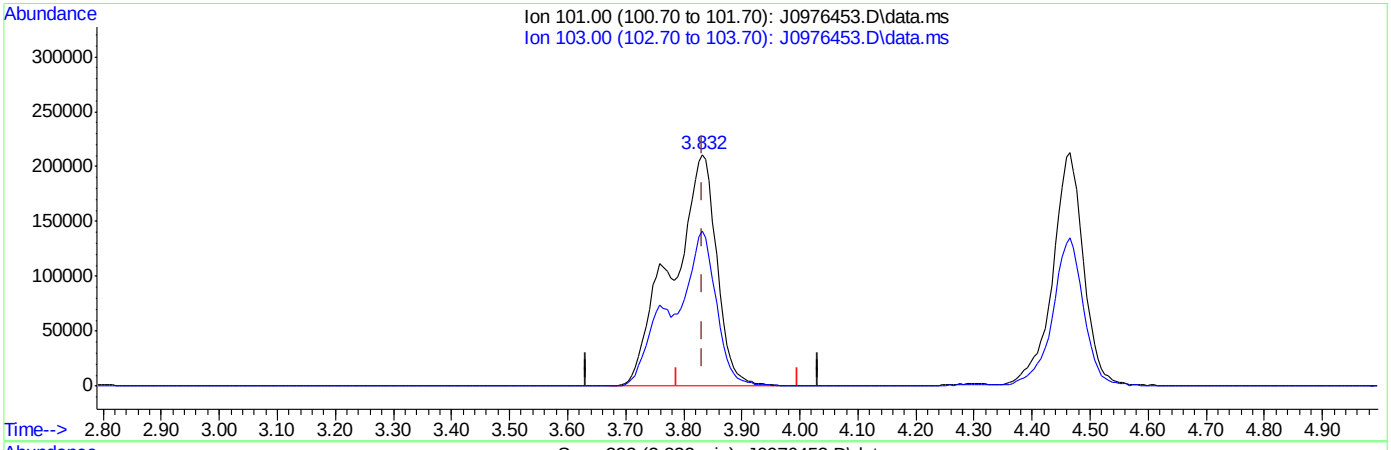
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	66.60
0.00	0.00	0.00
0.00	0.00	0.00

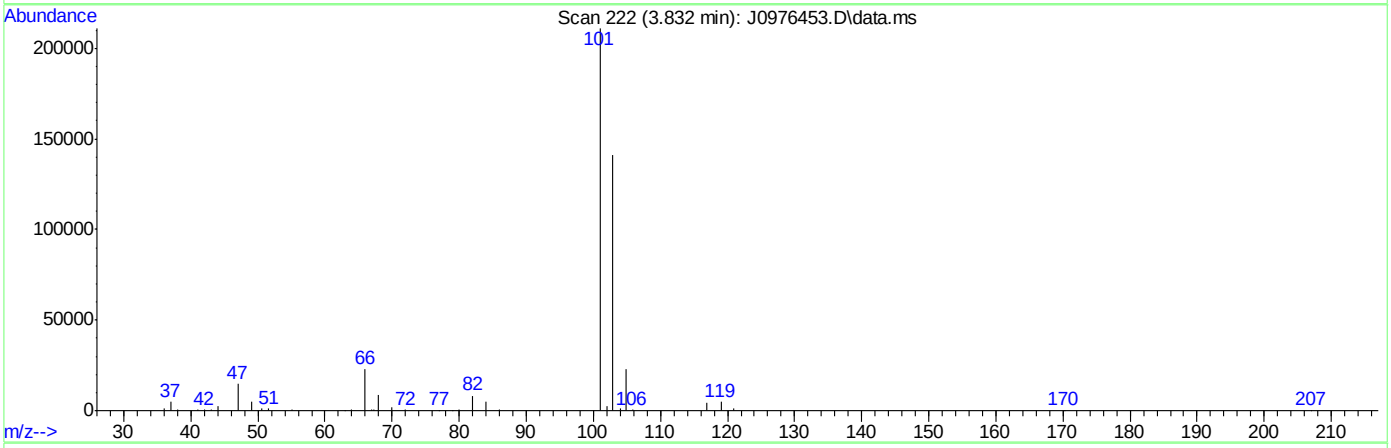
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976453.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 85.32ug/L m

response 1138092

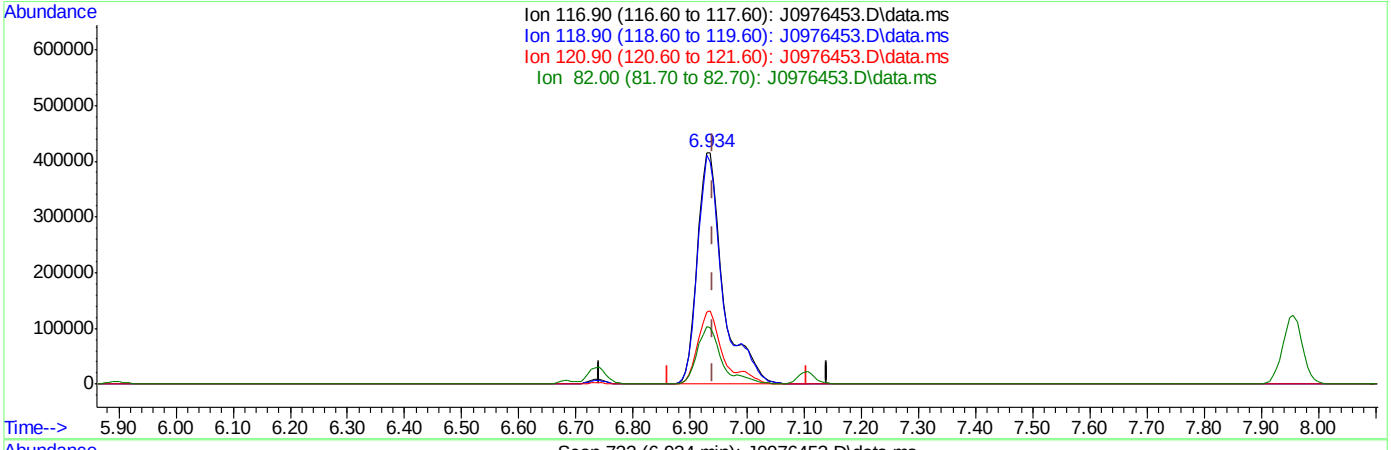
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	66.73
0.00	0.00	0.00
0.00	0.00	0.00

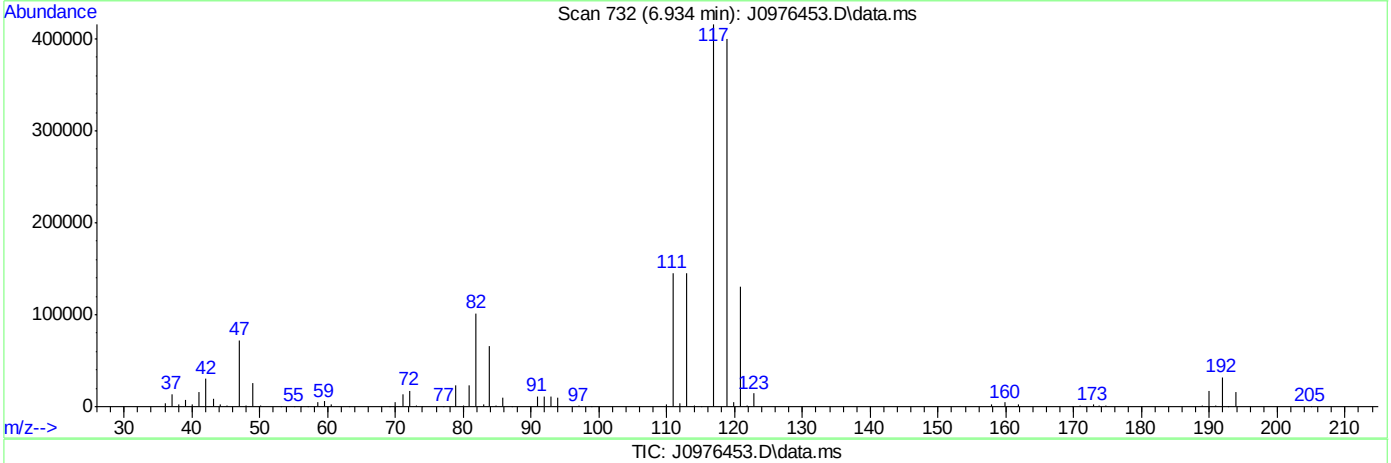
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976453.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 121.02ug/L

response 1302070

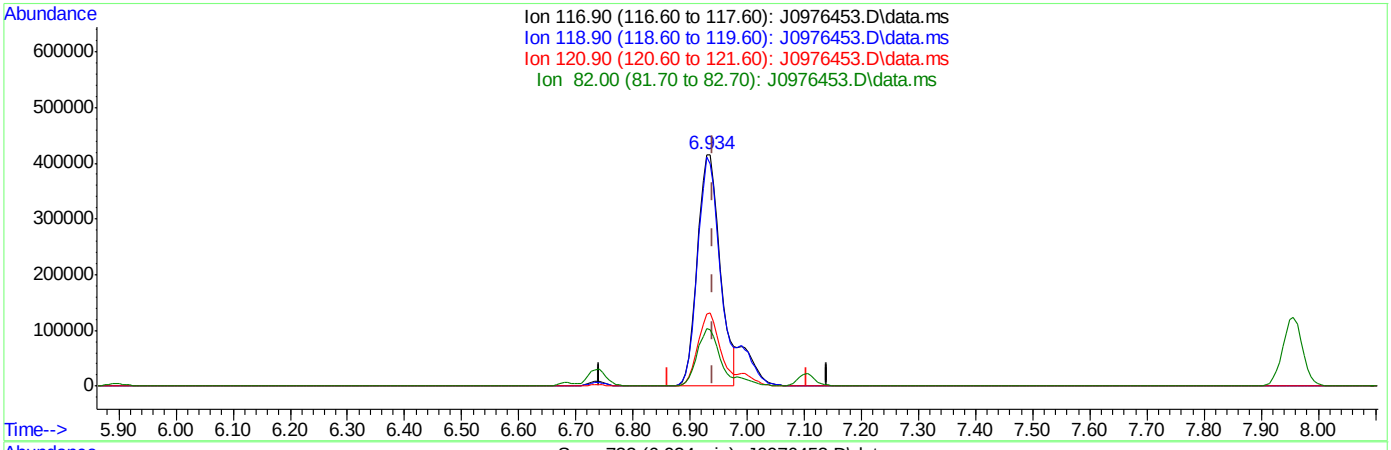
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.15
120.90	31.80	31.53
82.00	25.40	24.38

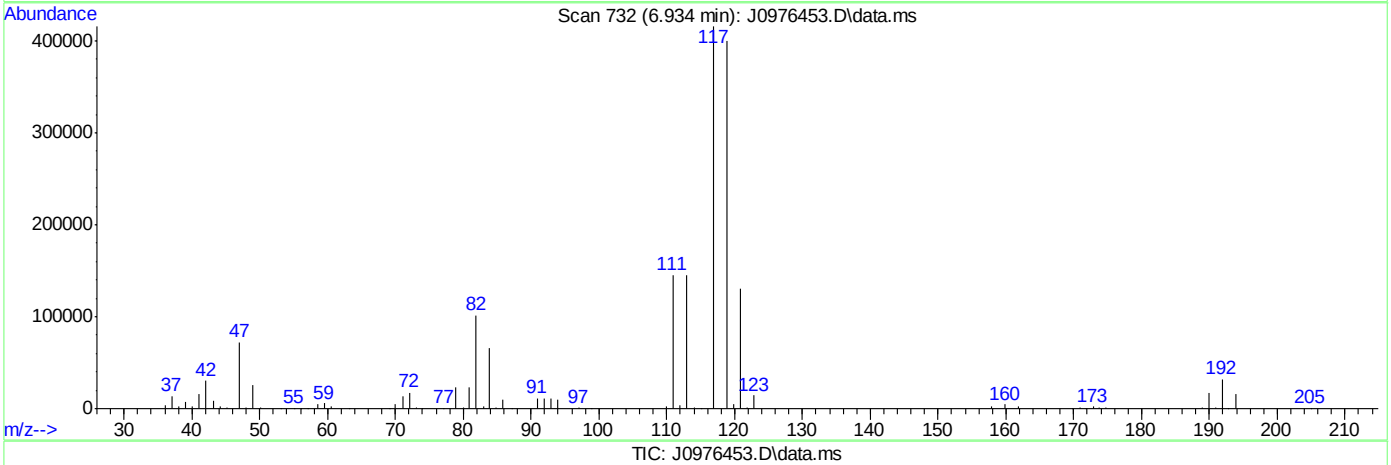
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976453.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 106.29ug/L m

response 1143543

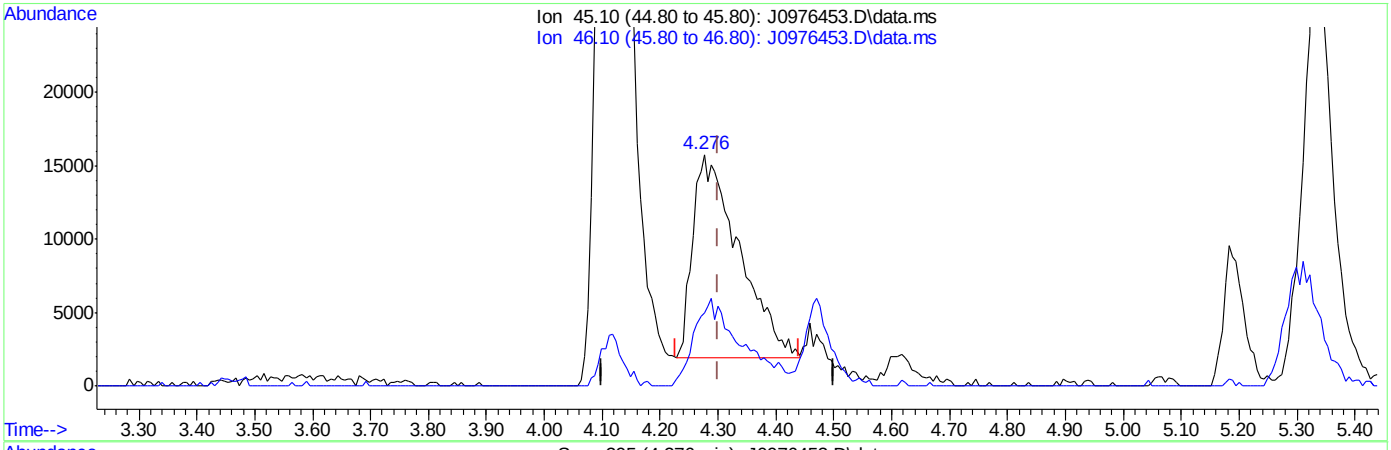
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.15
120.90	31.80	31.53
82.00	25.40	24.38

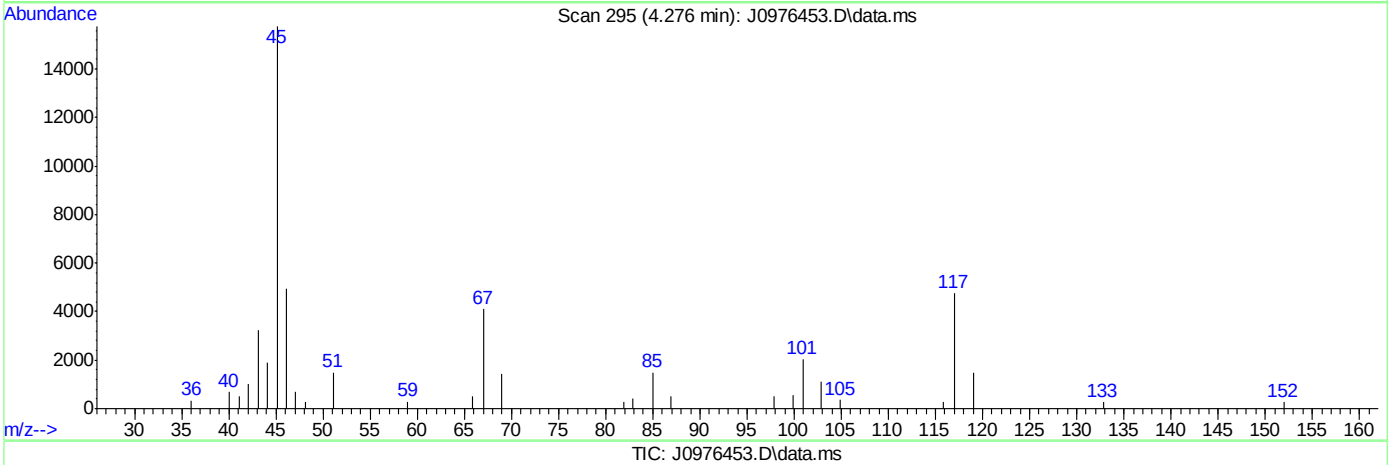
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976453.D\data.ms

(107) Ethanol

4.276min (-0.024) 1615.94ug/L

response 76084

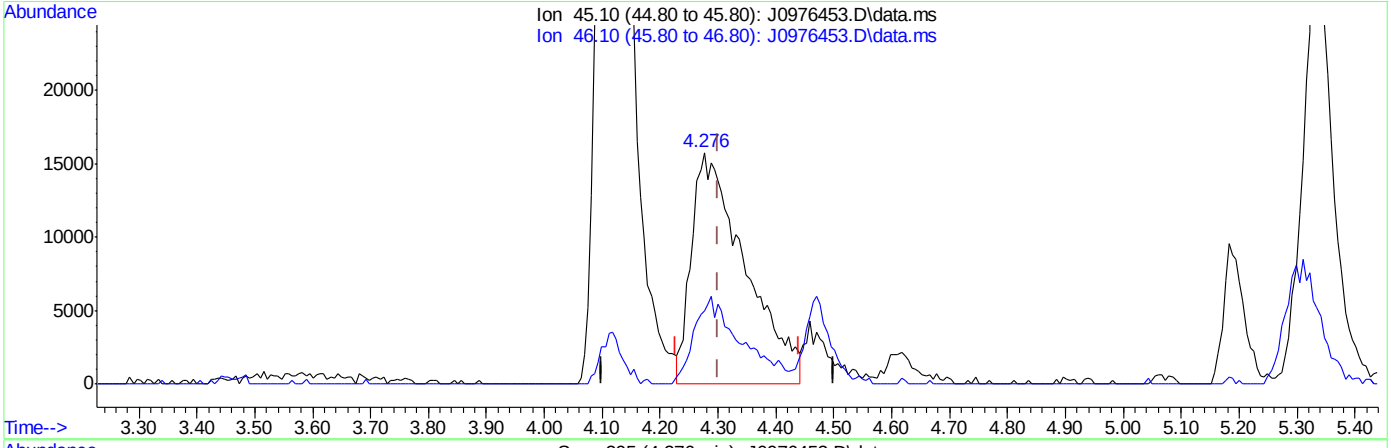
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	32.70
0.00	0.00	0.00
0.00	0.00	0.00

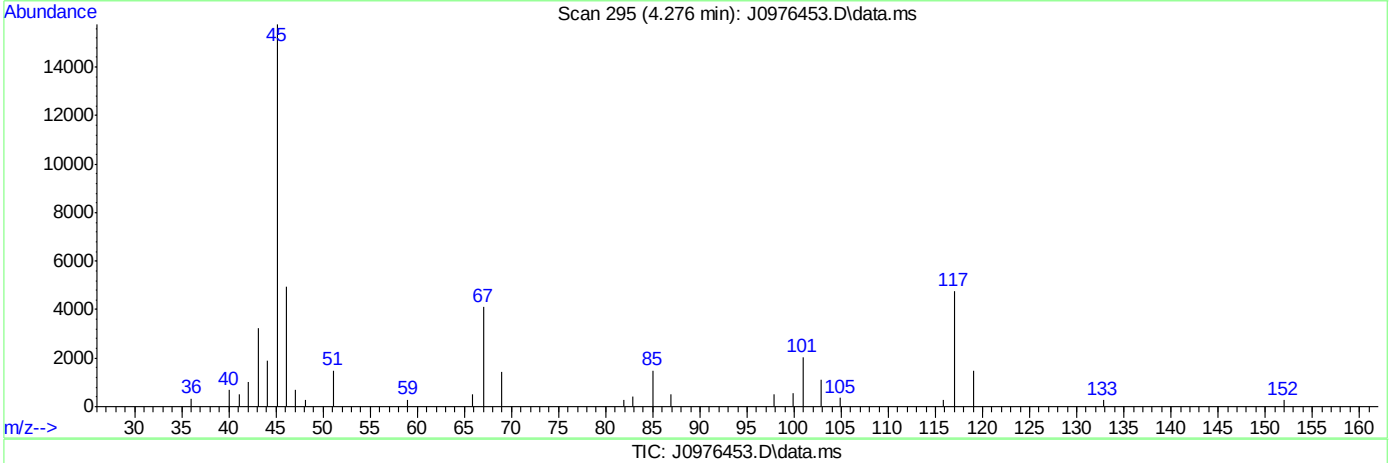
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0976453.D\data.ms

(107) Ethanol

4.276min (-0.024) 2150.75ug/L m

response 101265

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	31.50
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1427928	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1121704	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	632527	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	92953	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	349664	48.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.74%			
46) 1,2-Dichloroethane-d4	7.476	65	413676	49.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.90%			
57) Toluene-d8	9.301	98	1431767	49.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.12%			
79) 4-Bromofluorobenzene	12.051	95	580759	50.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	247252	43.27	ug/L	91
3) Chloromethane	2.901	50	304995	40.98	ug/L	97
4) Vinyl Chloride	3.047	62	338012	42.14	ug/L	97
5) 1,3-Butadiene	3.023	54	5495	29.69	ug/L #	82
6) Bromomethane	3.467	94	195037	40.50	ug/L	98
7) Chloroethane	3.619	64	135395	40.28	ug/L	95
8) Trichlorofluoromethane	3.838	101	445148m	43.56	ug/L	
9) Ethyl Ether	4.118	59	211926	37.39	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.355	67	307161	35.24	ug/L	98
11) 1,1-Dichloroethene	4.404	61	396705	37.46	ug/L	99
12) Freon 113	4.477	101	238367	32.63	ug/L	95
13) Carbon Disulfide	4.477	76	822601	34.54	ug/L	100
14) Iodomethane	4.592	142	430204	36.39	ug/L	98
15) Allyl chloride	4.927	41	317737	34.80	ug/L	91
16) Methylene Chloride	5.049	49	356821	37.35	ug/L	98
17) Acetone	5.073	58	76348	174.04	ug/L #	70
18) Methyl acetate	5.195	74	156420	189.53	ug/L	96
19) trans-1,2-Dichloroethene	5.231	61	393694	40.39	ug/L	98
20) Hexane	5.304	56	226999	33.52	ug/L	94
21) Methyl Tert Butyl Ether	5.341	73	732479	34.99	ug/L	96
22) Acetonitrile	5.590	40	98073	363.43	ug/L	89
23) Di-isopropyl ether	5.718	45	819004	35.30	ug/L	99
24) Chloroprene	5.876	53	344929	35.92	ug/L	99
25) 1,1-Dichloroethane	5.900	63	504251	38.52	ug/L	96
26) Acrylonitrile	5.925	53	355294	204.40	ug/L	96
27) ETBE	6.119	59	871950	36.72	ug/L	98
28) Vinyl acetate	6.107	43	2069895	193.88	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	305172	36.29	ug/L	95
30) 2,2-Dichloropropane	6.606	77	406302	37.07	ug/L	100
31) Bromochloromethane	6.685	128	141638	35.98	ug/L	98
32) Cyclohexane	6.740	56	429909	34.98	ug/L	99
33) Chloroform	6.740	83	530877	37.10	ug/L	96
34) Ethyl acetate	6.807	43	785018	198.14	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	45689	37.82 ug/L	96
37) Carbon Tetrachloride	6.935	117	375448m	33.68 ug/L	
38) 1,1,1-Trichloroethane	6.989	97	426033	33.16 ug/L	97
39) 2-Butanone	7.026	43	351523	189.03 ug/L	99
40) 1,1-Dichloropropene	7.105	75	347071	34.69 ug/L	98
41) tert-Butyl Formate	7.190	59	1728708	364.54 ug/L	99
42) Propionitrile	7.330	54	261142	410.61 ug/L #	70
43) Methacrylonitrile	7.360	41	1079467	407.37 ug/L	99
44) Benzene	7.360	78	1186114	37.62 ug/L	96
45) TAME	7.433	73	792776	36.13 ug/L	99
47) 1,2-Dichloroethane	7.549	62	393340	39.11 ug/L	99
48) Trichloroethene	7.938	95	300297	37.60 ug/L	97
49) Methylcyclohexane	7.957	83	504162	36.49 ug/L	98
50) Dibromomethane	8.364	93	168157	37.52 ug/L	91
51) 1,2-Dichloropropane	8.449	63	289962	37.42 ug/L	98
52) Bromodichloromethane	8.498	83	393105	38.33 ug/L	99
53) Methyl methacrylate	8.589	41	167496	42.88 ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	809987	212.37 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	479058	40.05 ug/L	97
58) Toluene	9.356	91	1248965	37.64 ug/L	99
59) 2-Nitropropane	9.557	41	230450	189.13 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	878633	180.68 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	443333	43.21 ug/L	99
62) Tetrachloroethene	9.757	166	302465	36.02 ug/L	95
63) Ethyl methacrylate	9.836	69	267032	35.00 ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	214570	39.31 ug/L	97
65) Dibromochloromethane	10.104	129	287616	39.10 ug/L	98
66) 1,3-Dichloropropane	10.183	76	406428	36.73 ug/L	98
67) 1,2-Dibromoethane	10.360	107	239106	37.86 ug/L	96
68) 2-hexanone	10.487	43	608524	181.62 ug/L	100
69) 1-Chlorohexane	10.798	91	383677	38.47 ug/L	98
70) Ethylbenzene	10.858	91	1467233	37.75 ug/L	99
71) Chlorobenzene	10.865	112	882806	38.98 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	305355	40.09 ug/L	98
73) m,p-Xylene	10.998	91	2248202	77.44 ug/L	99
74) o-Xylene	11.436	91	1187233	39.43 ug/L	98
75) Styrene	11.485	104	952106	40.99 ug/L	100
76) Bromoform	11.546	173	187716	39.39 ug/L	98
77) Isopropylbenzene	11.741	105	1401102	38.40 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	74360	38.69 ug/L	98
81) n-Propylbenzene	12.160	91	1703243	38.37 ug/L	99
82) Bromobenzene	12.185	156	403309	39.45 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	310626	38.28 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1263066	37.43 ug/L	99
85) 2-Chlorotoluene	12.349	91	1237344	39.22 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	71234	38.95 ug/L #	84
87) 1,2,3-Trichloropropane	12.385	110	79814	37.13 ug/L	94
88) Cyclohexanone	12.446	55	32840	170.20 ug/L	95
89) 4-Chlorotoluene	12.519	91	1133979	38.69 ug/L	99
90) a-Methyl Styrene	12.750	118	13323	0.77 ug/L #	1

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	687918	36.61	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	1282641	38.18	ug/L	99
93) Pentachloroethane	12.738	167	250604	39.60	ug/L	94
94) sec-Butylbenzene	12.866	105	1526433	37.81	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1294509	39.12	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	700869	38.88	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	707826	38.03	ug/L	99
98) n-Butylbenzene	13.432	92	730057	38.47	ug/L	99
99) Benzyl Chloride	13.444	126	121327	40.70	ug/L #	15
100) 1,2-Dichlorobenzene	13.645	146	648028	38.67	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	41598	37.92	ug/L	94
102) Hexachlorobutadiene	14.928	225	266442	36.35	ug/L	99
103) 1,2,4-Trichlorobenzene	14.971	180	430435	37.24	ug/L	98
104) Naphthalene	15.257	128	693902	41.04	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	359434	37.24	ug/L	99
107) Ethanol	4.288	45	36824m	801.14	ug/L	
108) acrolein	4.757	56	165111	188.39	ug/L	98
109) Tert Butyl Alcohol	5.383	59	186295	406.30	ug/L	89
110) tert Amyl alcohol	7.573	59	139025	377.53	ug/L	97
111) Isobutyl alcohol	7.452	42	115720	719.33	ug/L	93
112) 1,4-Dioxane	8.674	88	39040	747.11	ug/L	98
113) 3,3-Dimethyl-1-butanol	10.433	57	790865	1961.92	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.8

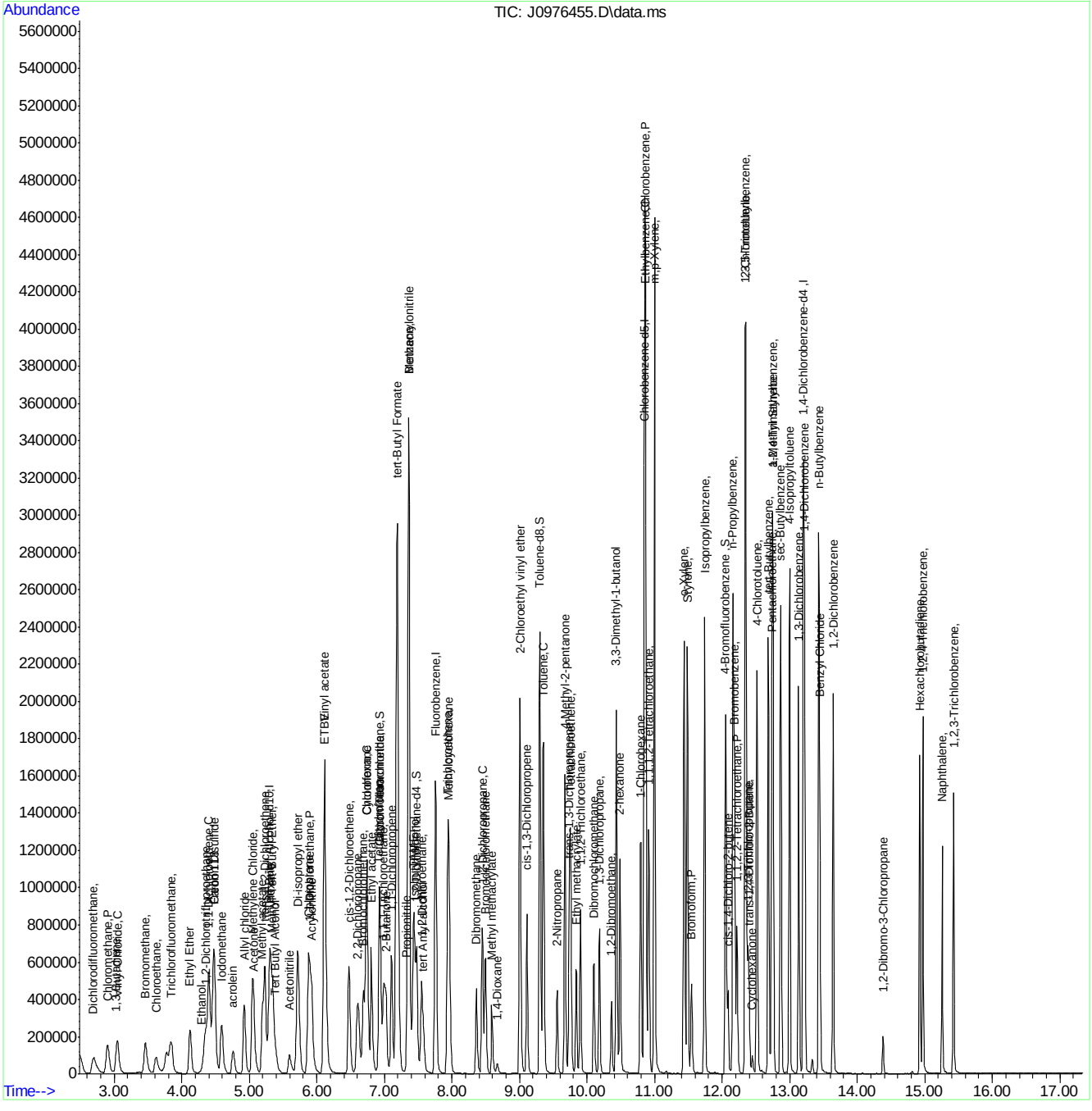
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

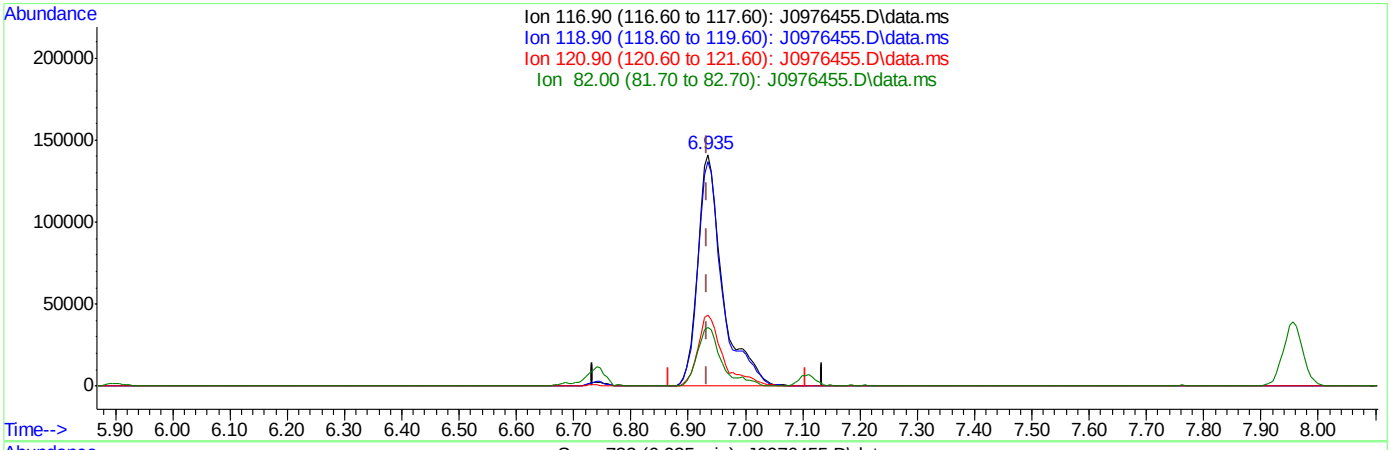
Sample Number:	VJ5295-ICV5295	**Method:**	SW846 8260B
Lab FileID:	J0976455.D	**Analyst approved:**	05/13/16 08:33 Darshna Patel
Injection Time:	05/12/16 13:22	**Supervisor approved:**	05/13/16 11:32 Melissa Mangual

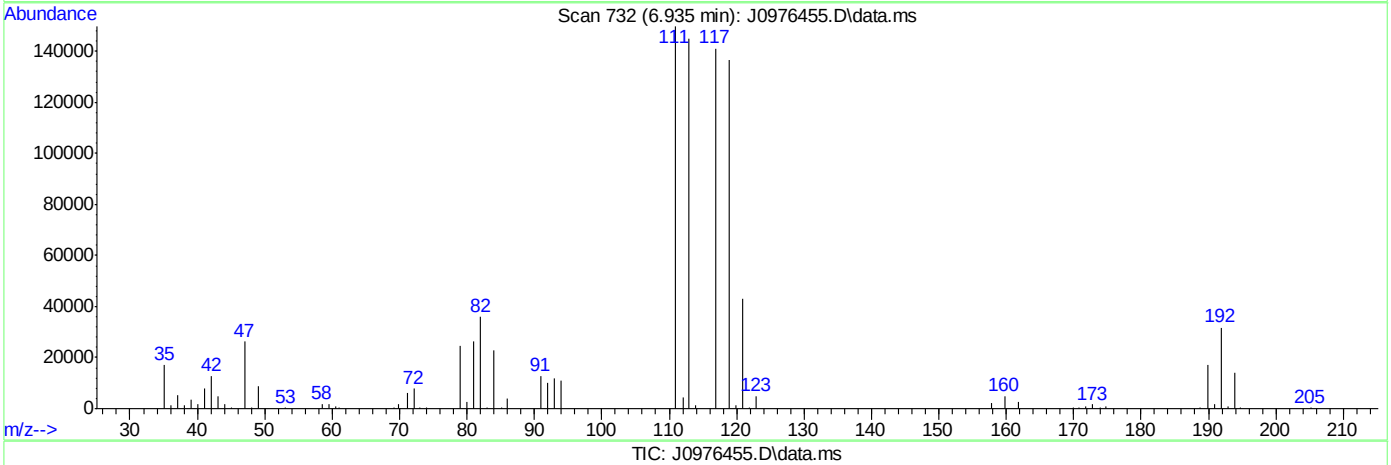
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 14:11:54 2016
Quant Method : C:\msdchem\2\methods\MSJ051216.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu May 12 14:11:46 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 38.49ug/L

response 430596

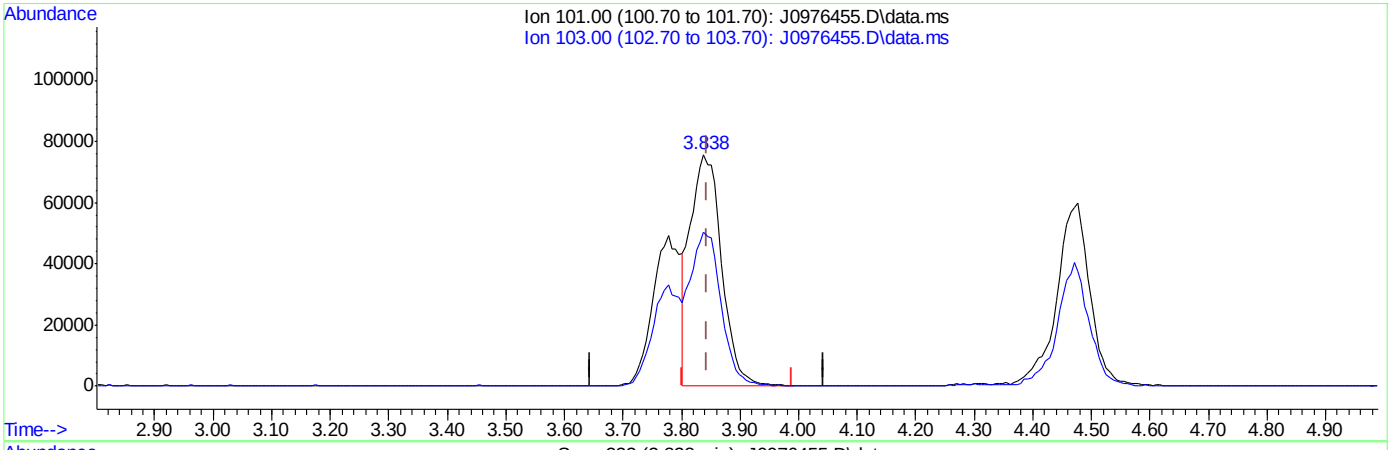
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.87
120.90	31.20	30.56
82.00	25.70	25.45

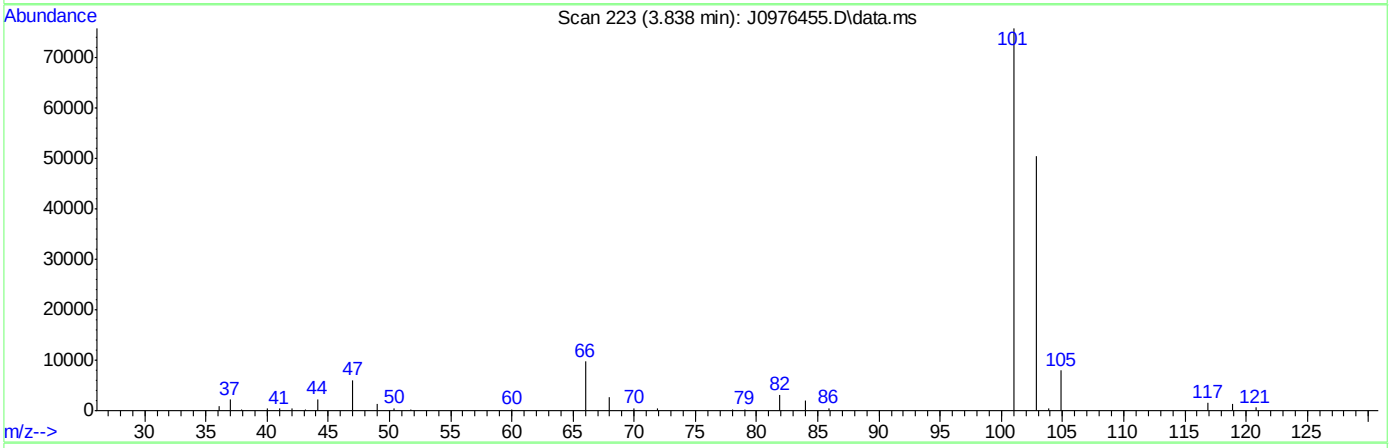
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 27.54ug/L

response 281428

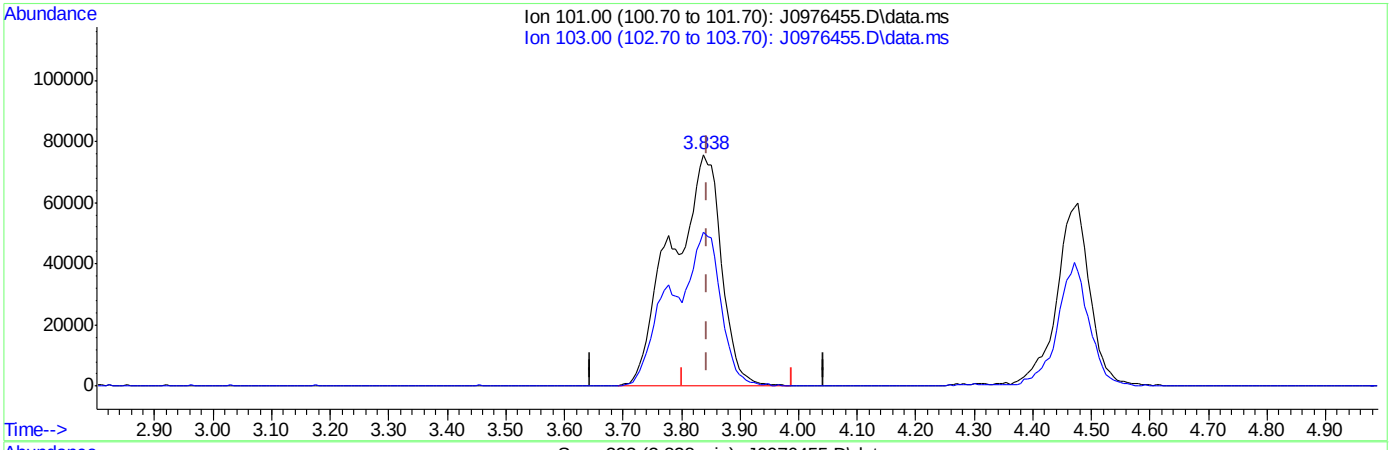
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	66.48
0.00	0.00	0.00
0.00	0.00	0.00

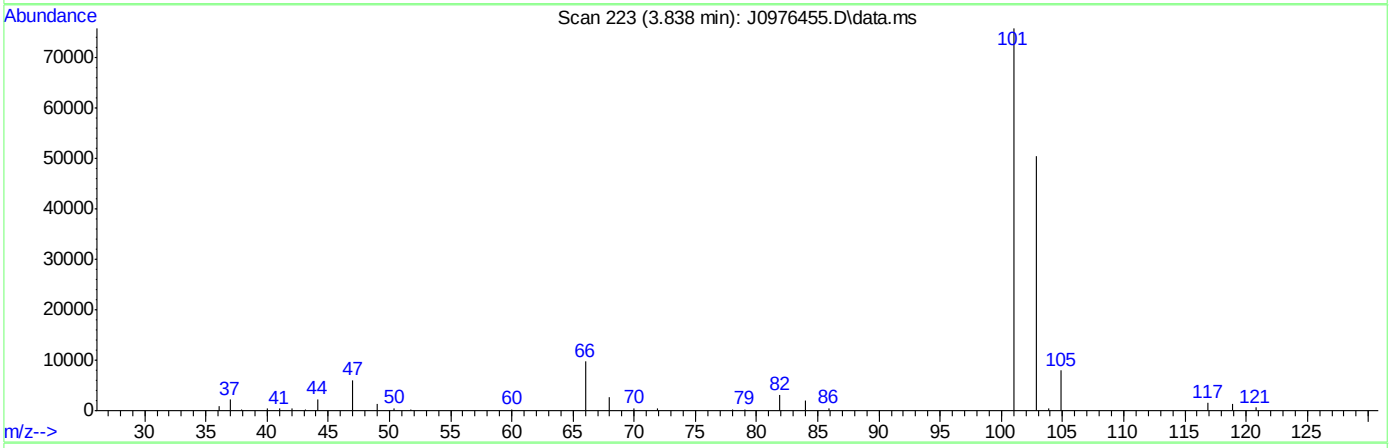
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 43.56ug/L m

response 445148

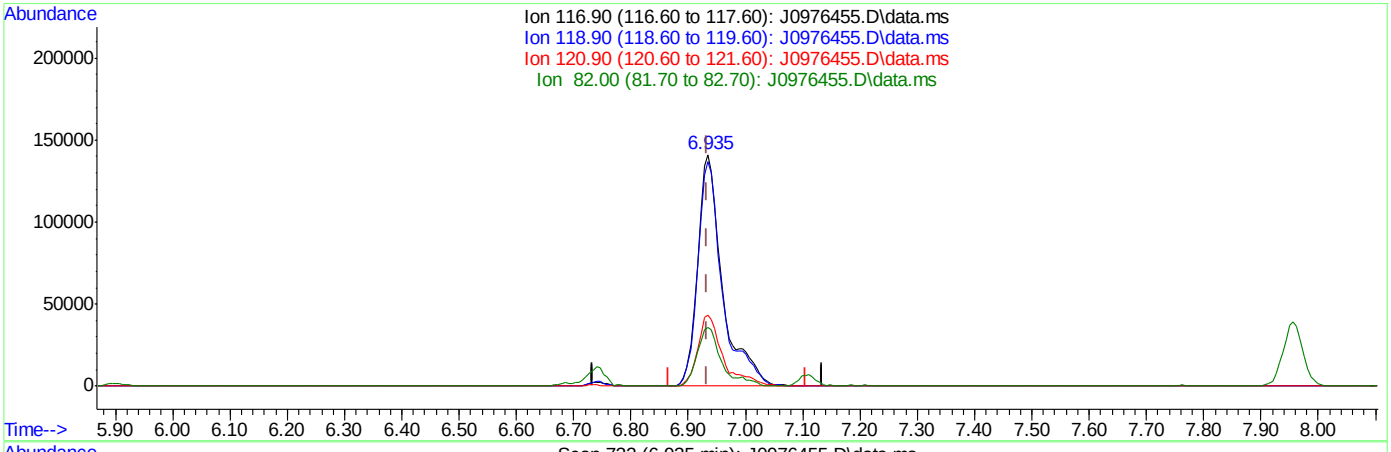
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	66.48
0.00	0.00	0.00
0.00	0.00	0.00

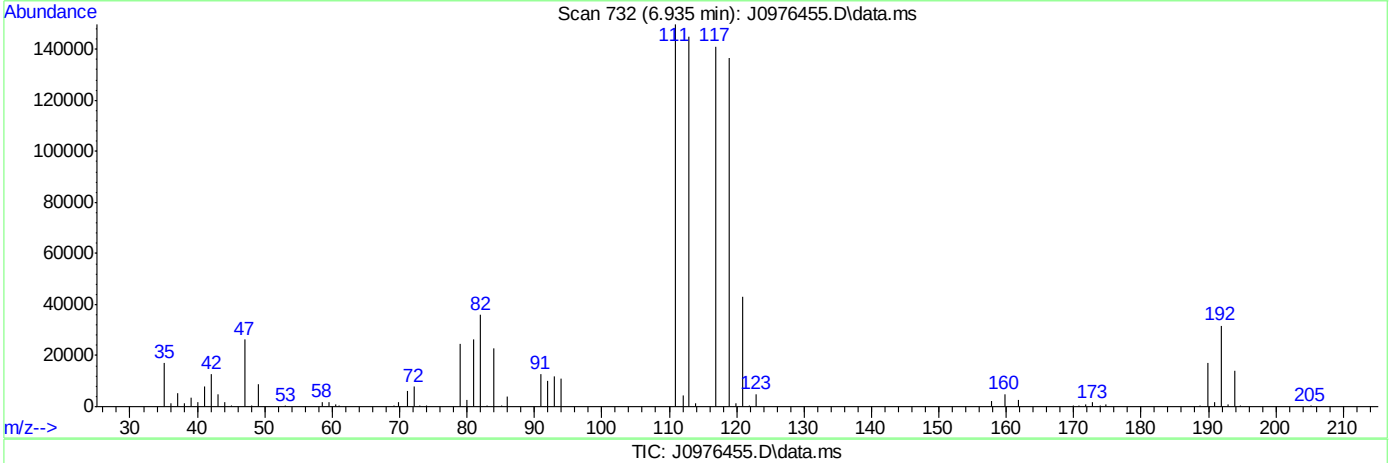
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 38.63ug/L

response 430596

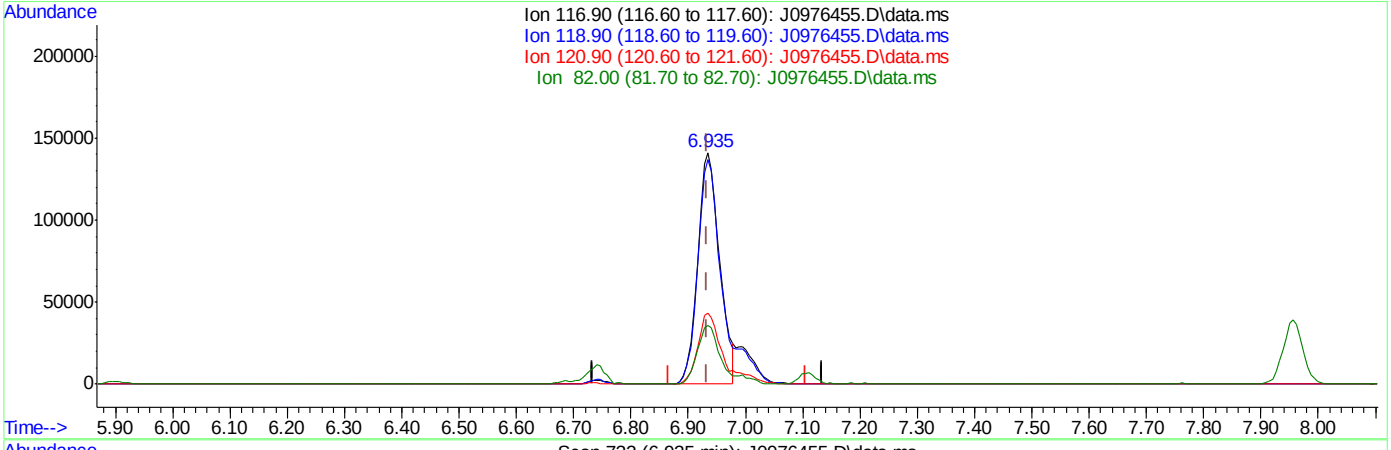
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.87
120.90	31.20	30.56
82.00	25.70	25.45

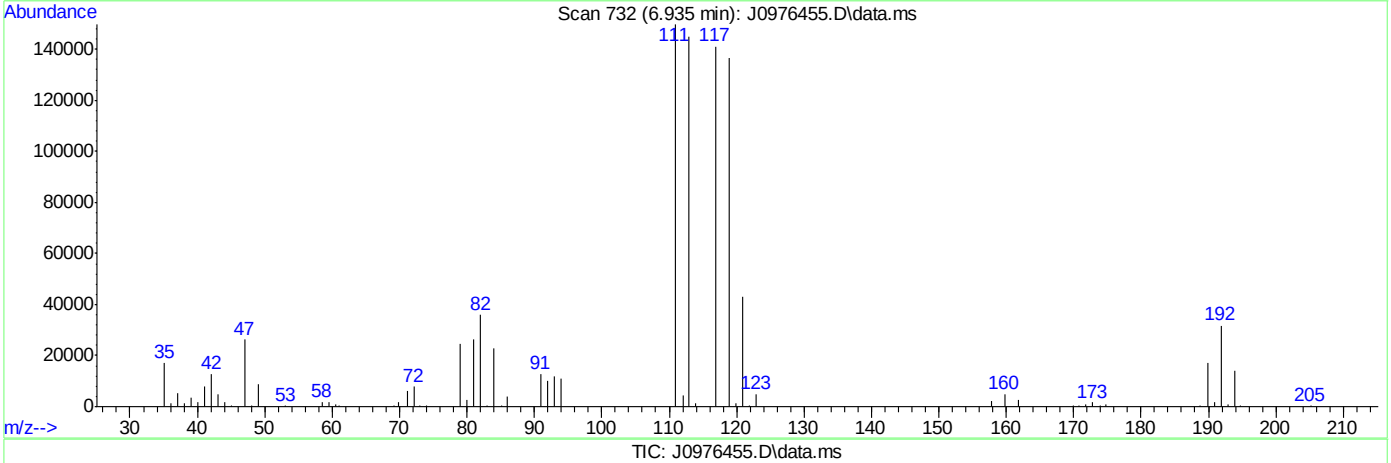
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 33.68ug/L m

response 375448

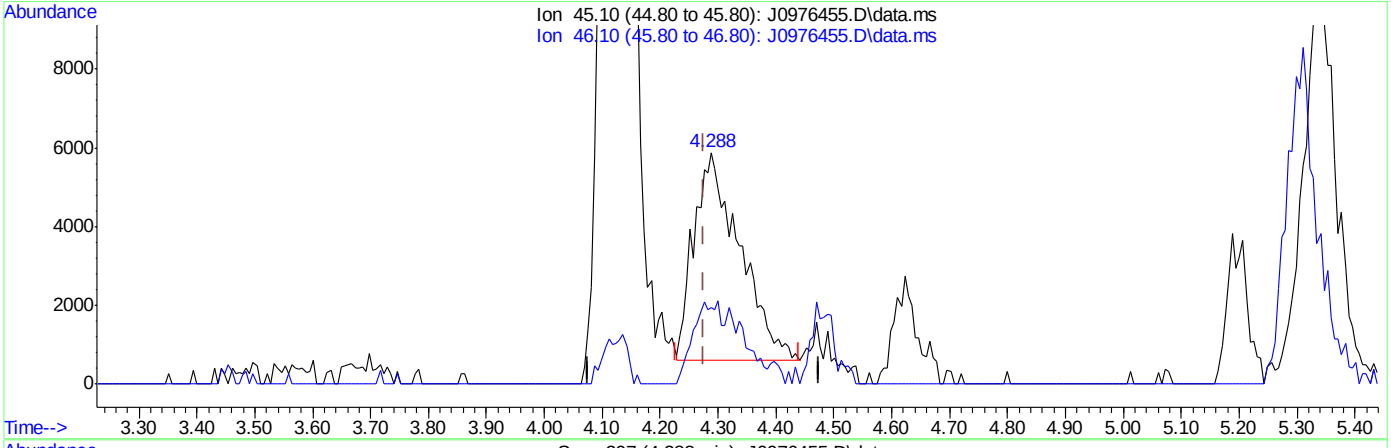
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.87
120.90	31.20	30.56
82.00	25.70	25.45

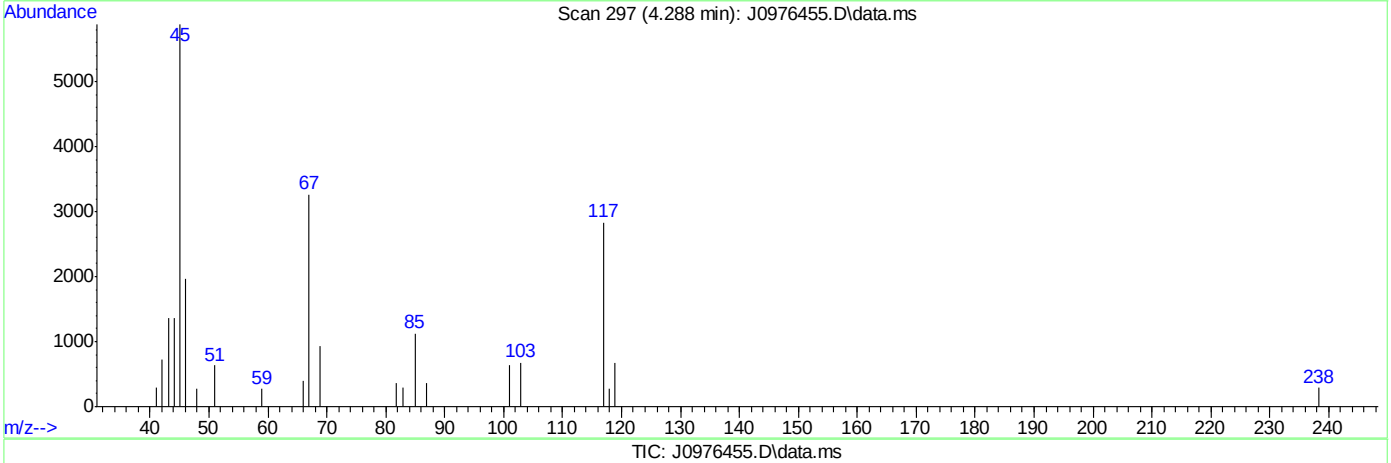
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(107) Ethanol

4.288min (+0.012) 633.53ug/L

response 29120

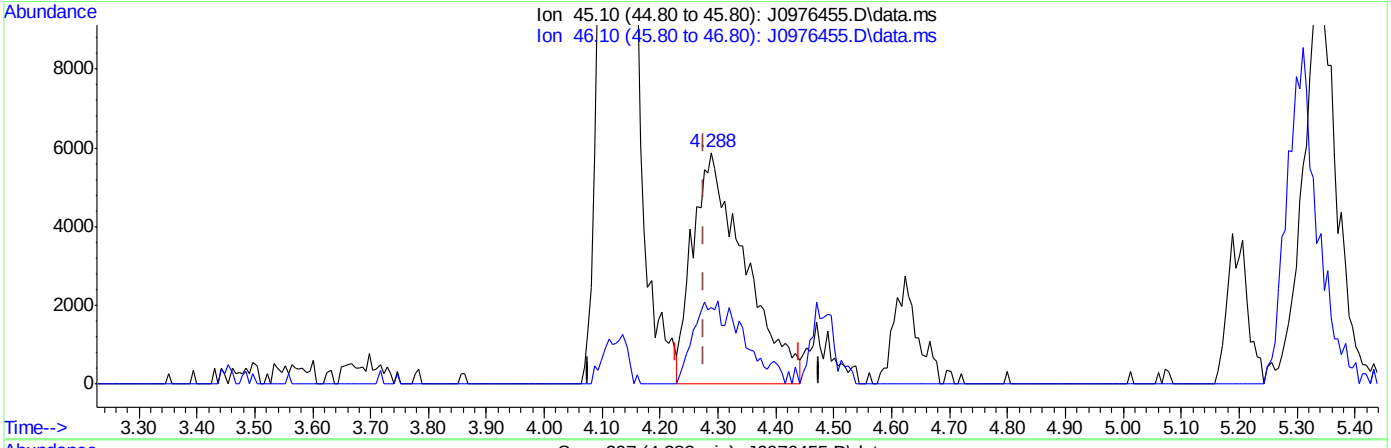
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	37.11
0.00	0.00	0.00
0.00	0.00	0.00

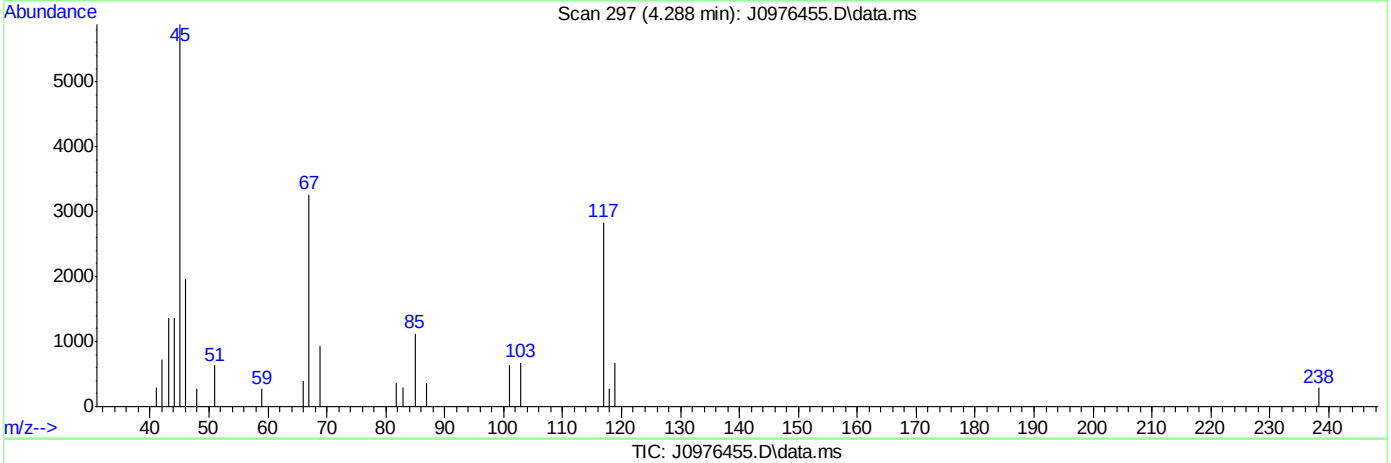
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976455.D\data.ms

(107) Ethanol

4.288min (+0.012) 801.14ug/L m

response 36824

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	33.30
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/18/16 10:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 08:24:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1358114	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1046105	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	591412	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	89247	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	346502	50.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.84%			
46) 1,2-Dichloroethane-d4	7.476	65	392703	49.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.72%			
57) Toluene-d8	9.301	98	1345682	49.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.90%			
79) 4-Bromofluorobenzene	12.051	95	544487	50.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	228007	42.02	ug/L	99
3) Chloromethane	2.895	50	300028	42.31	ug/L	100
4) Vinyl Chloride	3.047	62	320096	41.95	ug/L	94
5) 1,3-Butadiene	3.035	54	3482	18.36	ug/L #	79
6) Bromomethane	3.455	94	194493	42.80	ug/L	98
7) Chloroethane	3.619	64	141234	46.49	ug/L	99
8) Trichlorofluoromethane	3.844	101	451912m	46.49	ug/L	
9) Ethyl Ether	4.118	59	206995	38.41	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.367	67	281679	33.97	ug/L	96
11) 1,1-Dichloroethene	4.398	61	362729	36.04	ug/L	96
12) Freon 113	4.471	101	247179	35.54	ug/L	93
13) Carbon Disulfide	4.477	76	808535	35.66	ug/L	99
14) Iodomethane	4.586	142	412722	36.70	ug/L	99
15) Allyl chloride	4.921	41	334875	38.36	ug/L	99
16) Methylene Chloride	5.049	49	346665	38.18	ug/L	99
17) Acetone	5.067	58	82993	198.91	ug/L	96
18) Methyl acetate	5.189	74	151076	192.47	ug/L	95
19) trans-1,2-Dichloroethene	5.225	61	340297	36.73	ug/L	99
20) Hexane	5.298	56	230269	35.75	ug/L	94
21) Methyl Tert Butyl Ether	5.335	73	700821	35.20	ug/L	95
22) Acetonitrile	5.584	40	105883	411.45	ug/L	89
23) Di-isopropyl ether	5.712	45	782590	35.47	ug/L	97
24) Chloroprene	5.870	53	348932	38.03	ug/L	97
25) 1,1-Dichloroethane	5.894	63	458149	36.77	ug/L	98
26) Acrylonitrile	5.919	53	343168	207.57	ug/L	95
27) ETBE	6.113	59	811366	35.92	ug/L	97
28) Vinyl acetate	6.107	43	2057272	202.60	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	290813	36.36	ug/L	96
30) 2,2-Dichloropropane	6.600	77	354465	34.00	ug/L	96
31) Bromochloromethane	6.685	128	138754	37.06	ug/L	95
32) Cyclohexane	6.734	56	418591	35.81	ug/L	95
33) Chloroform	6.734	83	490889	36.05	ug/L	99
34) Ethyl acetate	6.807	43	763850	202.71	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 08:24:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	40969	35.67 ug/L	91
37) Carbon Tetrachloride	6.928	117	358377m	33.80 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	413681	33.85 ug/L	99
39) 2-Butanone	7.020	43	340294	192.50 ug/L	99
40) 1,1-Dichloropropene	7.105	75	330854	34.77 ug/L	98
41) tert-Butyl Formate	7.184	59	1808939	401.07 ug/L	97
42) Propionitrile	7.330	54	254304	420.42 ug/L	78
43) Methacrylonitrile	7.354	41	1010992	401.14 ug/L	98
44) Benzene	7.354	78	1052614	34.99 ug/L	95
45) TAME	7.433	73	742524	35.58 ug/L	96
47) 1,2-Dichloroethane	7.549	62	348679	36.28 ug/L	100
48) Trichloroethene	7.932	95	266328	35.02 ug/L	97
49) Methylcyclohexane	7.957	83	465313	35.41 ug/L	98
50) Dibromomethane	8.358	93	150522	35.31 ug/L	95
51) 1,2-Dichloropropane	8.449	63	260713	35.33 ug/L	98
52) Bromodichloromethane	8.492	83	353110	36.15 ug/L	98
53) Methyl methacrylate	8.589	41	146083	39.35 ug/L	97
54) 2-Chloroethyl vinyl ether	9.003	63	729420	200.80 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	419340	36.86 ug/L	99
58) Toluene	9.350	91	1108072	35.71 ug/L	100
59) 2-Nitropropane	9.557	41	205938	180.96 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	841018	185.82 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	359537	37.57 ug/L	96
62) Tetrachloroethene	9.757	166	266779	34.06 ug/L	99
63) Ethyl methacrylate	9.836	69	290946	40.70 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	190292	37.33 ug/L	98
65) Dibromochloromethane	10.098	129	254182	37.05 ug/L	97
66) 1,3-Dichloropropane	10.183	76	377473	36.57 ug/L	98
67) 1,2-Dibromoethane	10.360	107	214812	36.47 ug/L	94
68) 2-hexanone	10.487	43	578893	185.26 ug/L	99
69) 1-Chlorohexane	10.798	91	347051	37.31 ug/L	96
70) Ethylbenzene	10.858	91	1278053	35.05 ug/L	98
71) Chlorobenzene	10.865	112	749709	35.33 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	261720	36.85 ug/L	98
73) m,p-Xylene	10.998	91	1951291	71.32 ug/L	98
74) o-Xylene	11.436	91	1019376	36.30 ug/L	99
75) Styrene	11.485	104	813232	37.54 ug/L	99
76) Bromoform	11.546	173	162655	36.62 ug/L	99
77) Isopropylbenzene	11.741	105	1195379	34.97 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	77952	43.38 ug/L	92
81) n-Propylbenzene	12.160	91	1455213	34.71 ug/L	99
82) Bromobenzene	12.185	156	339153	35.35 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	274402	36.06 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1105155	34.87 ug/L	100
85) 2-Chlorotoluene	12.349	91	1028793	34.50 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	67899	39.71 ug/L	94
87) 1,2,3-Trichloropropane	12.379	110	72970	36.27 ug/L	92
88) Cyclohexanone	12.446	55	28220	156.48 ug/L	93
89) 4-Chlorotoluene	12.519	91	970922	35.21 ug/L	100
90) a-Methyl Styrene	12.604	118	655070	39.89 ug/L	99

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 08:24:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.684	91	607817	34.52	ug/L	98
92)	1,2,4-Trimethylbenzene	12.750	105	1127279	35.72	ug/L	99
93)	Pentachloroethane	12.738	167	241719	40.83	ug/L	98
94)	sec-Butylbenzene	12.866	105	1316571	34.65	ug/L	99
95)	4-Isopropyltoluene	13.000	119	1125816	36.39	ug/L	99
96)	1,3-Dichlorobenzene	13.134	146	606011	35.86	ug/L	98
97)	1,4-Dichlorobenzene	13.219	146	629118	36.06	ug/L	99
98)	n-Butylbenzene	13.432	92	639521	36.04	ug/L	99
99)	Benzyl Chloride	13.450	126	107739	38.67	ug/L	100
100)	1,2-Dichlorobenzene	13.645	146	565798	36.01	ug/L	99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	38661	37.70	ug/L	96
102)	Hexachlorobutadiene	14.928	225	245433	35.83	ug/L	98
103)	1,2,4-Trichlorobenzene	14.971	180	389571	36.04	ug/L	98
104)	Naphthalene	15.257	128	594243	37.59	ug/L	100
105)	1,2,3-Trichlorobenzene	15.427	180	332988	36.90	ug/L	99
107)	Ethanol	4.288	45	38626m	875.24	ug/L	
108)	acrolein	4.757	56	176177	209.36	ug/L	97
109)	Tert Butyl Alcohol	5.383	59	158323	357.27	ug/L	88
110)	tert Amyl alcohol	7.573	59	120997	340.54	ug/L	96
111)	Isobutyl alcohol	7.452	42	115360	749.88	ug/L #	89
112)	1,4-Dioxane	8.668	88	37656	750.69	ug/L	94
113)	3,3-Dimethyl-1-butanol	10.433	57	727249	1875.01	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9

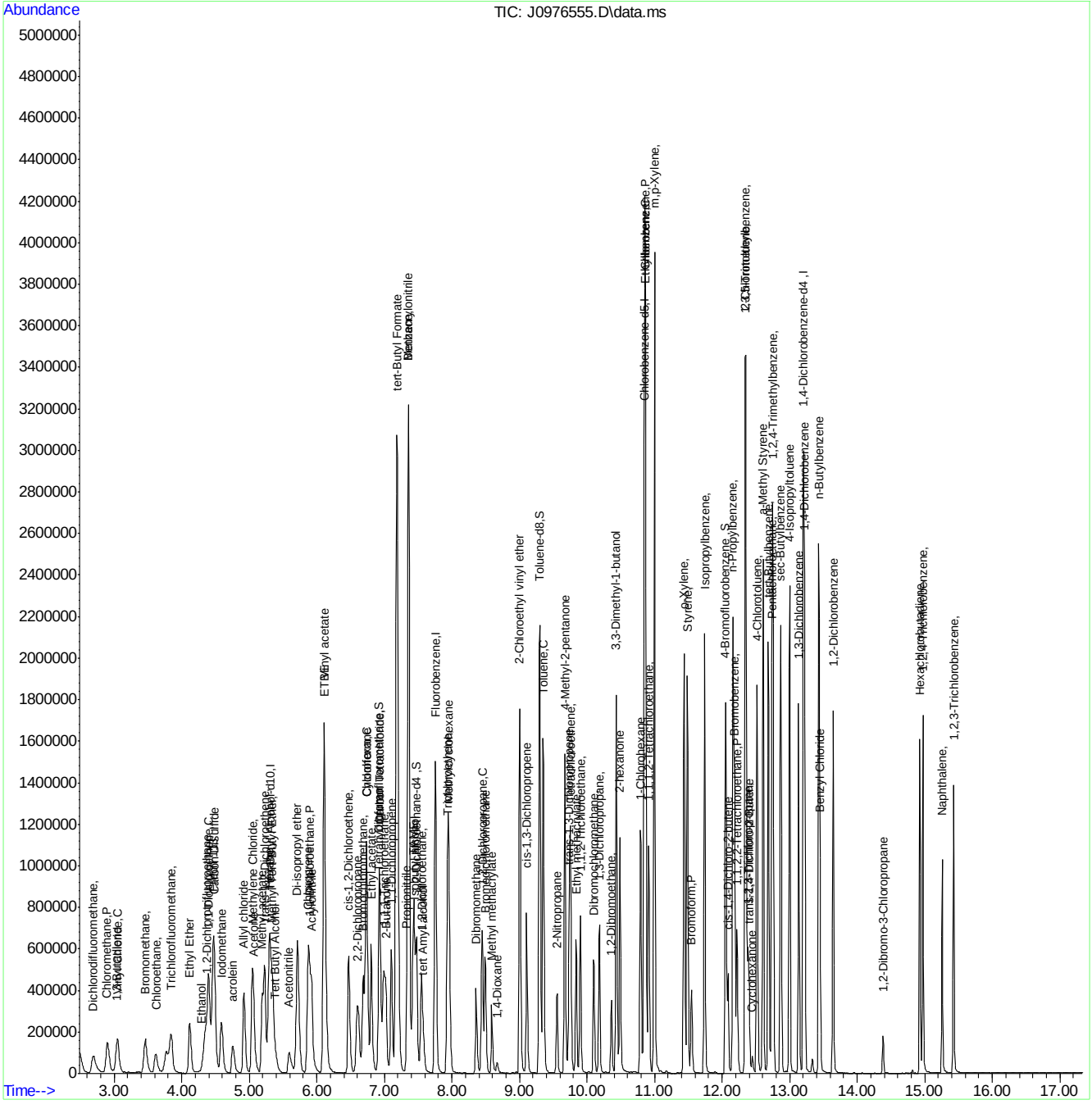
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 08:24:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

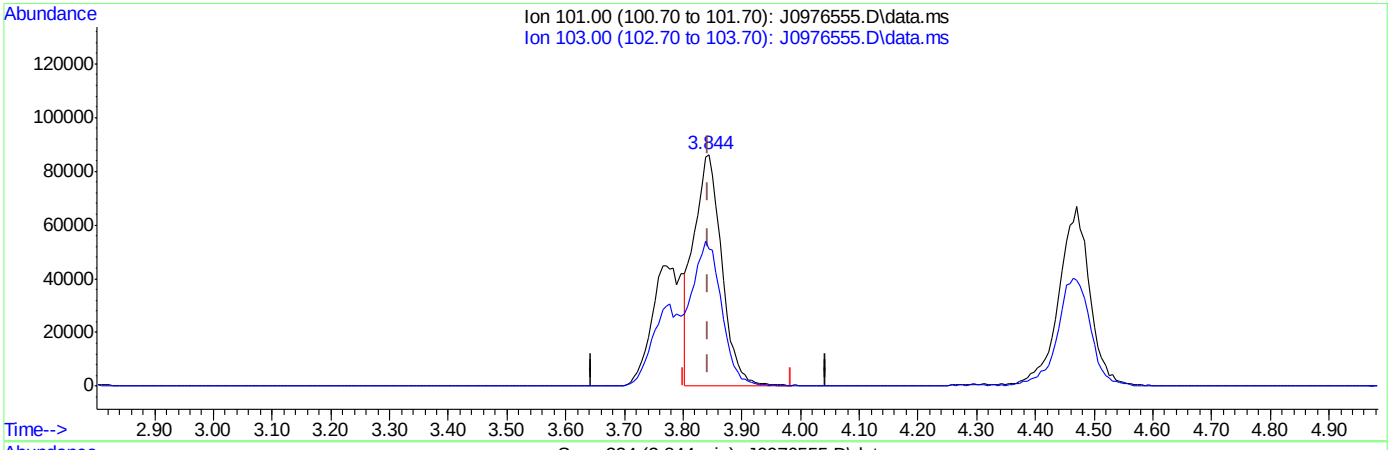
Sample Number:	VJ5301-CC5295	**Method:**	SW846 8260B
Lab FileID:	J0976555.D	**Analyst approved:**	05/18/16 09:44 Darshna Patel
Injection Time:	05/17/16 08:54	**Supervisor approved:**	05/18/16 10:30 Juan Garcia

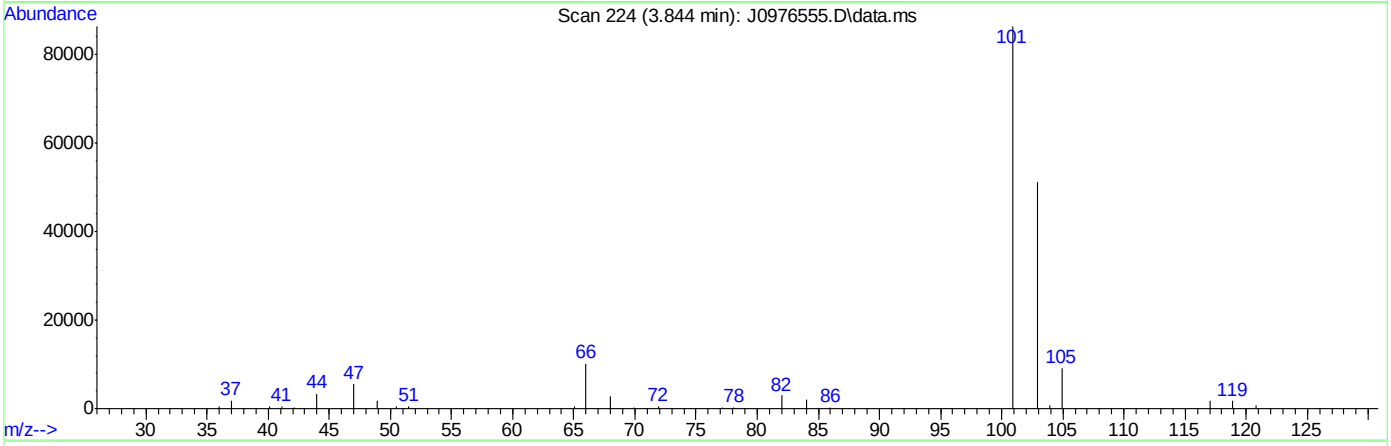
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:16:09 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (+0.000) 29.68ug/L

response 288472

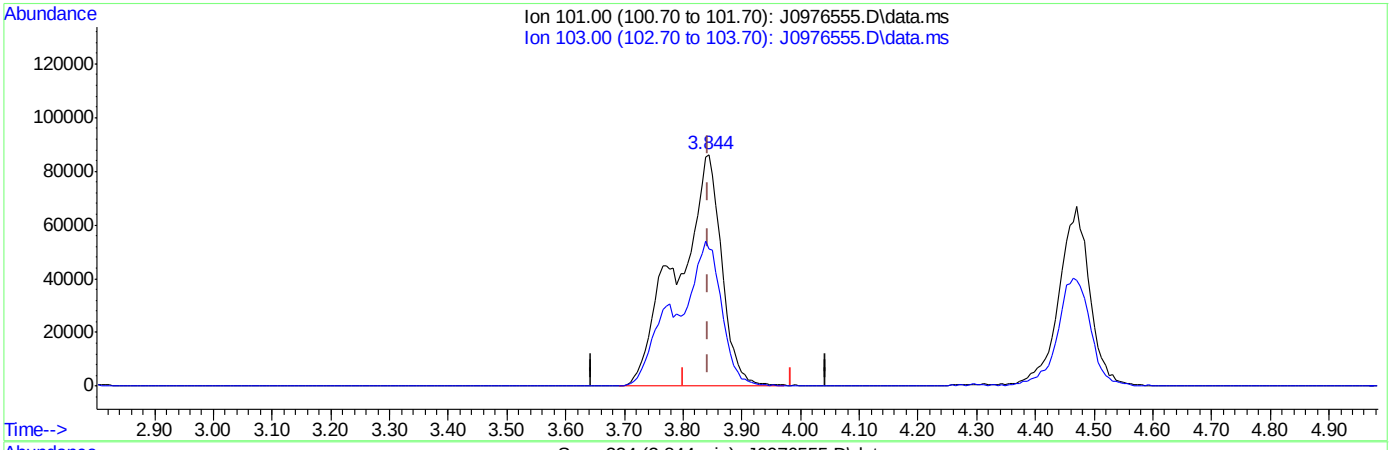
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	59.34
0.00	0.00	0.00
0.00	0.00	0.00

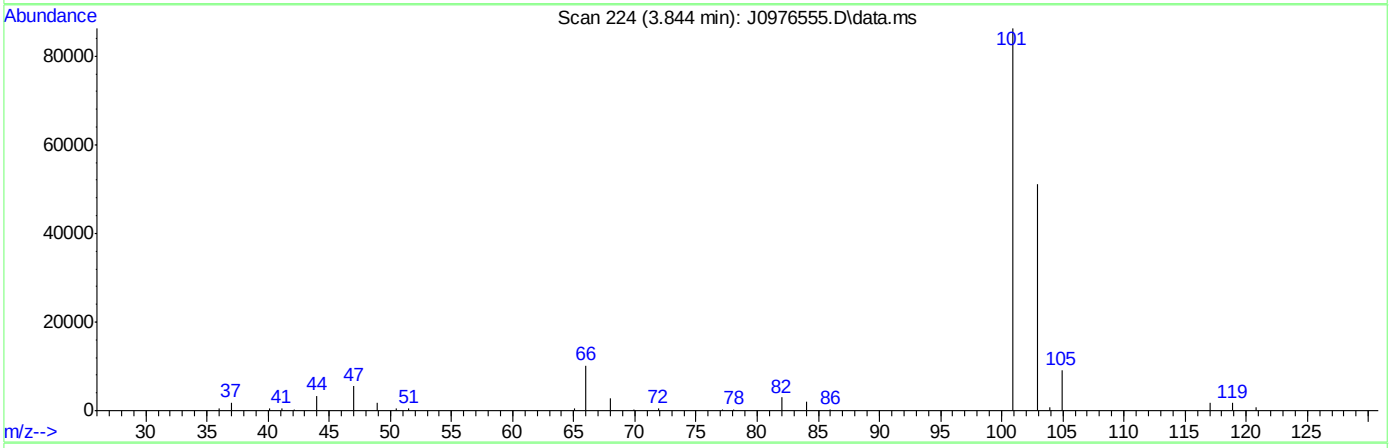
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:16:09 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (+0.000) 46.49ug/L m

response 451912

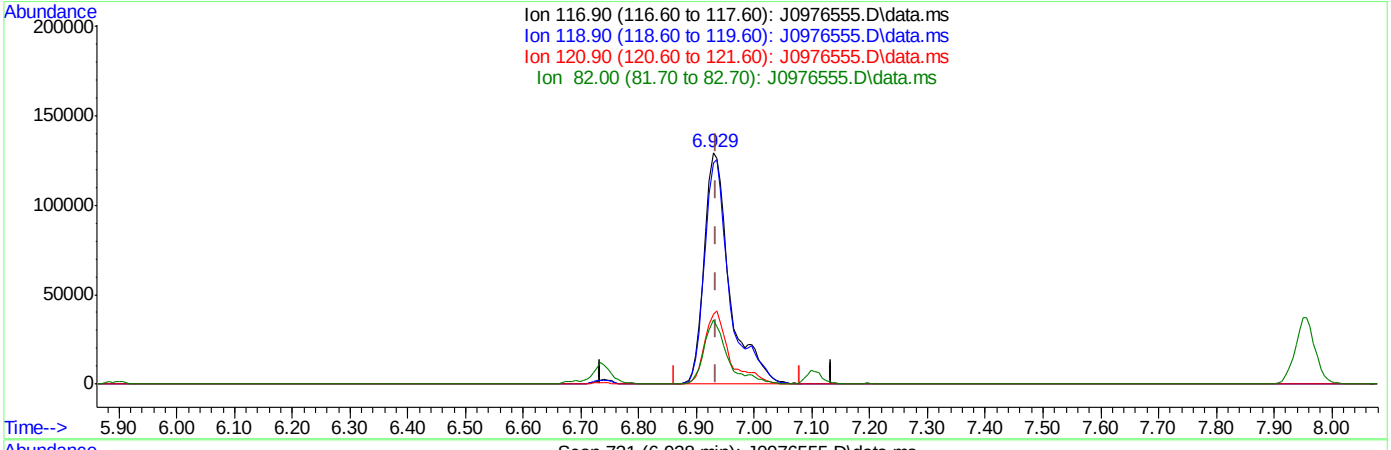
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	59.34
0.00	0.00	0.00
0.00	0.00	0.00

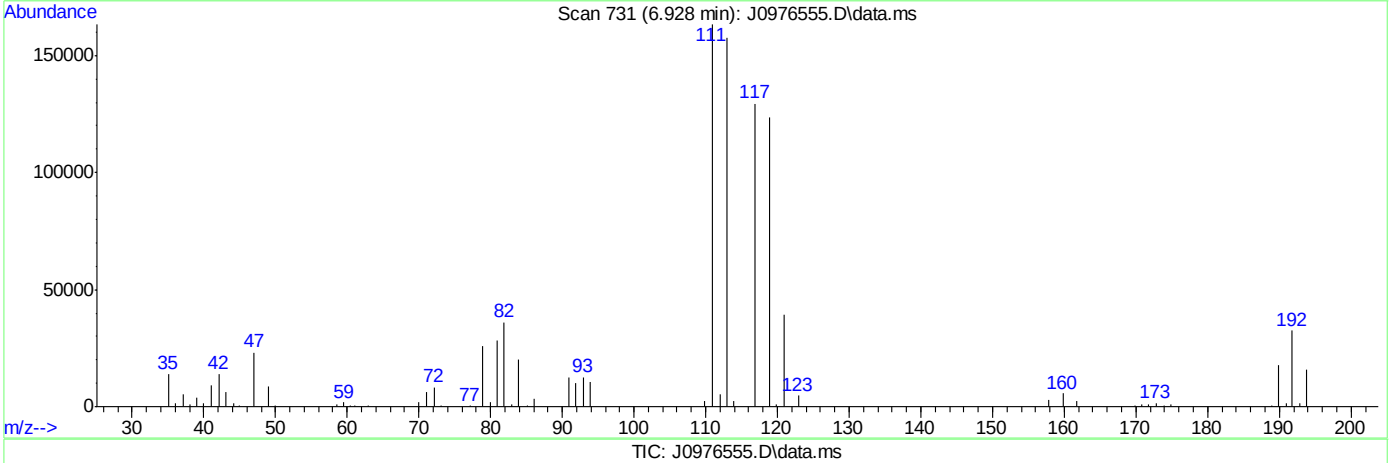
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:16:09 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976555.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 37.62ug/L

response 398817

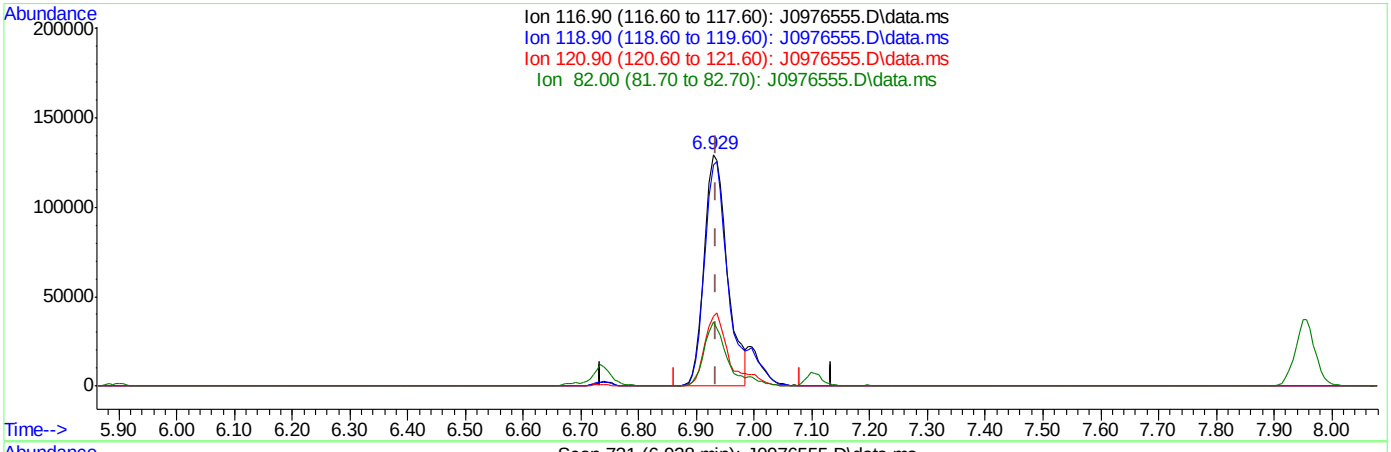
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	95.42
120.90	31.20	30.29
82.00	25.70	27.93

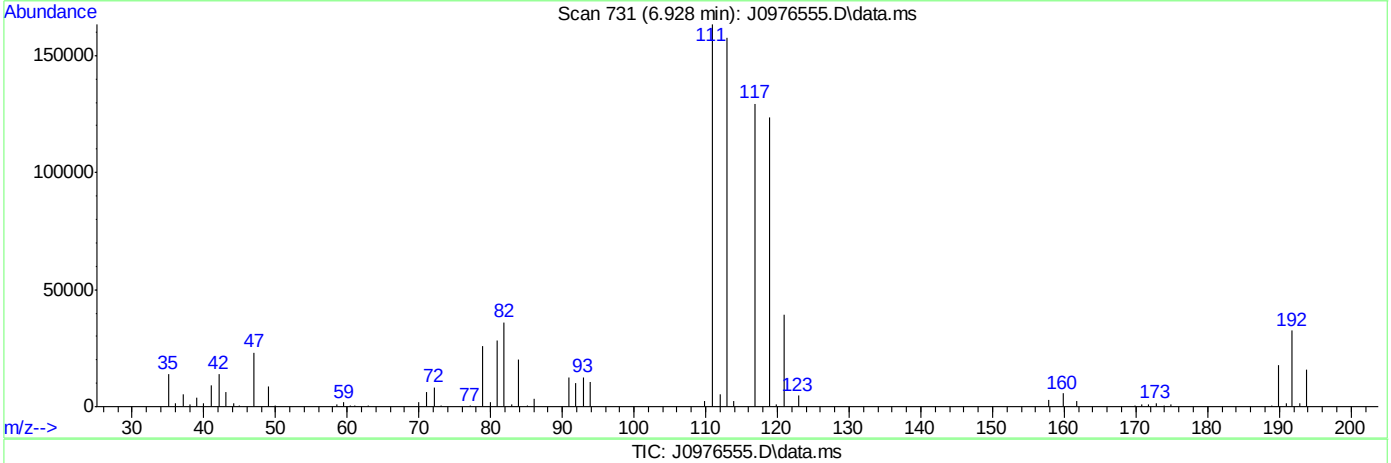
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:16:09 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976555.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 33.80ug/L m

response 358377

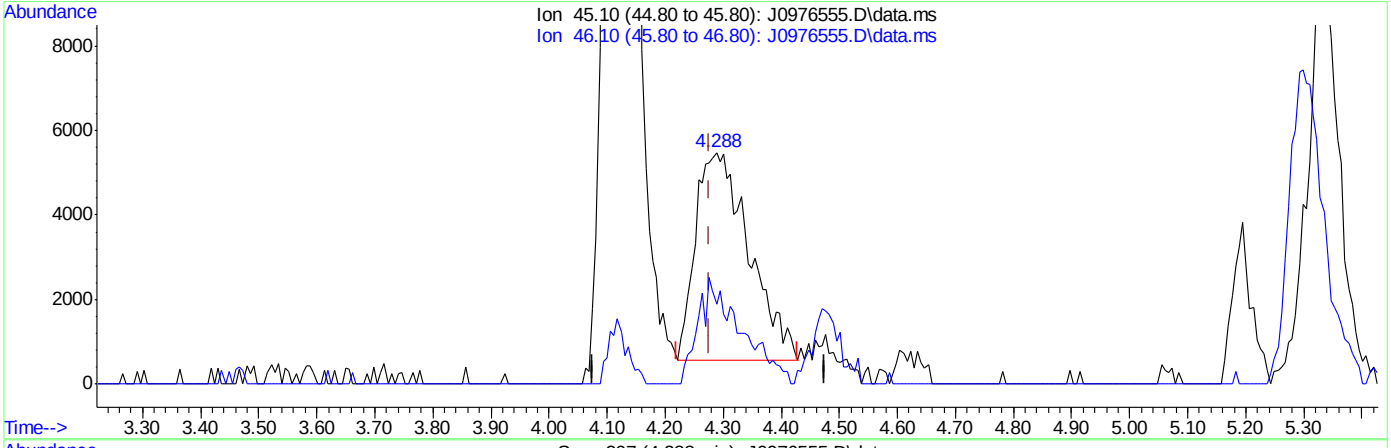
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	95.42
120.90	31.20	30.29
82.00	25.70	27.93

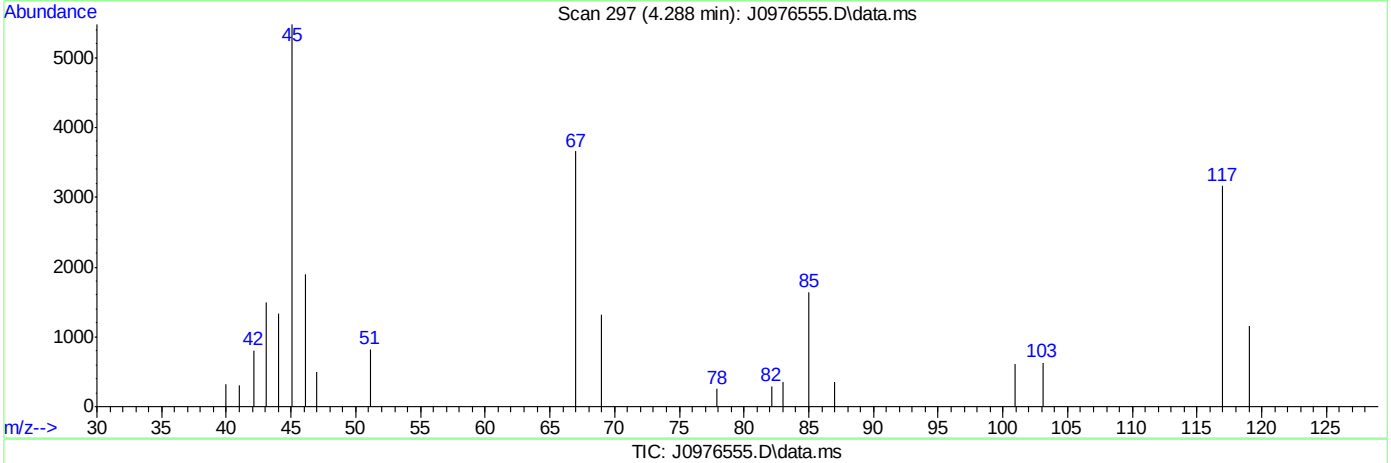
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:16:09 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976555.D\data.ms

(107) Ethanol

4.288min (+0.012) 710.24ug/L

response 31344

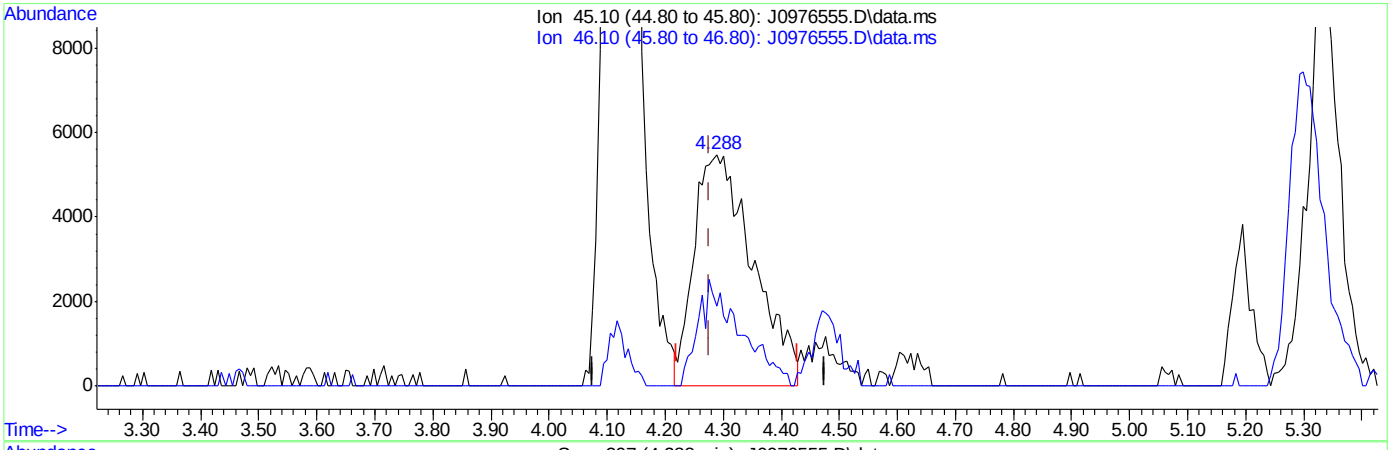
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	38.55
0.00	0.00	0.00
0.00	0.00	0.00

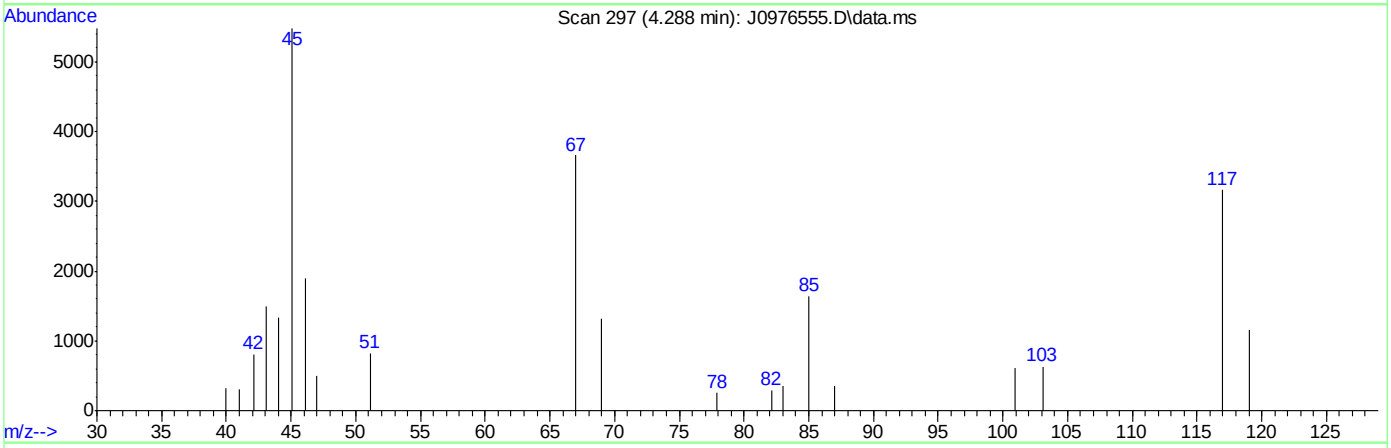
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976555.D
Acq On : 17 May 2016 8:54 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33882,VJ5301,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:16:09 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976555.D\data.ms

(107) Ethanol

4.288min (+0.012) 875.24ug/L m

response 38626

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	34.54
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/18/16 10:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:23:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1476124	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1154311	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	629143	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	92357	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	364361	49.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.52%			
46) 1,2-Dichloroethane-d4	7.476	65	409875	47.40	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.80%			
57) Toluene-d8	9.301	98	1473808	49.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.16%			
79) 4-Bromofluorobenzene	12.051	95	584537	50.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	241332	40.98	ug/L	95
3) Chloromethane	2.901	50	327508	42.48	ug/L	98
4) Vinyl Chloride	3.047	62	340805	41.09	ug/L	96
5) 1,3-Butadiene	3.035	54	5955	31.51	ug/L #	84
6) Bromomethane	3.461	94	205458	41.40	ug/L	99
7) Chloroethane	3.619	64	154081	46.78	ug/L	99
8) Trichlorofluoromethane	3.844	101	456253m	43.19	ug/L	
9) Ethyl Ether	4.118	59	245175	41.89	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.355	67	366753	40.70	ug/L	98
11) 1,1-Dichloroethene	4.398	61	482868	43.95	ug/L	98
12) Freon 113	4.471	101	320785	42.32	ug/L	97
13) Carbon Disulfide	4.477	76	1095840	44.15	ug/L	100
14) Iodomethane	4.592	142	536189	43.61	ug/L	99
15) Allyl chloride	4.921	41	359729	37.94	ug/L	98
16) Methylene Chloride	5.049	49	402884	40.90	ug/L	95
17) Acetone	5.073	58	80426	177.35	ug/L	93
18) Methyl acetate	5.189	74	176779	207.21	ug/L #	90
19) trans-1,2-Dichloroethene	5.231	61	435535	43.19	ug/L	94
20) Hexane	5.298	56	284835	40.68	ug/L	95
21) Methyl Tert Butyl Ether	5.335	73	847330	39.16	ug/L	89
22) Acetonitrile	5.590	40	101783	364.84	ug/L	99
23) Di-isopropyl ether	5.718	45	954753	39.81	ug/L	97
24) Chloroprene	5.870	53	379653	38.07	ug/L	98
25) 1,1-Dichloroethane	5.894	63	569575	42.15	ug/L	99
26) Acrylonitrile	5.925	53	345555	192.31	ug/L	97
27) ETBE	6.119	59	969031	39.47	ug/L	99
28) Vinyl acetate	6.107	43	2010723	182.19	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	372072	42.71	ug/L	96
30) 2,2-Dichloropropane	6.612	77	464248	40.98	ug/L	97
31) Bromochloromethane	6.685	128	165261	40.63	ug/L	99
32) Cyclohexane	6.734	56	557726	43.89	ug/L	99
33) Chloroform	6.740	83	615005	41.68	ug/L	98
34) Ethyl acetate	6.807	43	746739	182.32	ug/L	97

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:23:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	49295	39.45 ug/L	97
37) Carbon Tetrachloride	6.935	117	470874m	40.86 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	545376	41.06 ug/L	99
39) 2-Butanone	7.026	43	337501	175.20 ug/L	99
40) 1,1-Dichloropropene	7.105	75	440337	42.58 ug/L	97
41) tert-Butyl Formate	7.190	59	1937111	395.15 ug/L	99
42) Propionitrile	7.336	54	234968	357.40 ug/L	99
43) Methacrylonitrile	7.360	41	970926	354.45 ug/L	98
44) Benzene	7.360	78	1328168	40.91 ug/L	97
45) TAME	7.433	73	892505	39.35 ug/L	99
47) 1,2-Dichloroethane	7.549	62	405350	38.98 ug/L	98
48) Trichloroethene	7.938	95	346616	42.07 ug/L	98
49) Methylcyclohexane	7.957	83	618881	43.34 ug/L	98
50) Dibromomethane	8.358	93	181152	39.10 ug/L	99
51) 1,2-Dichloropropane	8.449	63	328682	41.13 ug/L	98
52) Bromodichloromethane	8.492	83	433172	40.93 ug/L	97
53) Methyl methacrylate	8.595	41	151260	37.51 ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	775344	196.27 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	514379	41.60 ug/L	96
58) Toluene	9.356	91	1426254	42.01 ug/L	99
59) 2-Nitropropane	9.557	41	240424	191.84 ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	868943	173.13 ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	441883	41.85 ug/L	96
62) Tetrachloroethene	9.757	166	360095	41.67 ug/L	96
63) Ethyl methacrylate	9.836	69	302984	38.48 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	230237	41.04 ug/L	97
65) Dibromochloromethane	10.104	129	309296	40.87 ug/L	99
66) 1,3-Dichloropropane	10.183	76	456600	40.24 ug/L	99
67) 1,2-Dibromoethane	10.360	107	260470	40.08 ug/L	97
68) 2-hexanone	10.487	43	613793	178.02 ug/L	99
69) 1-Chlorohexane	10.798	91	470084	45.80 ug/L	95
70) Ethylbenzene	10.858	91	1631076	41.08 ug/L	100
71) Chlorobenzene	10.865	112	954459	41.07 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	318875	40.68 ug/L	97
73) m,p-Xylene	10.998	91	2466904	83.42 ug/L	99
74) o-Xylene	11.436	91	1297099	41.86 ug/L	99
75) Styrene	11.485	104	1030736	43.12 ug/L	99
76) Bromoform	11.546	173	188327	38.41 ug/L	98
77) Isopropylbenzene	11.741	105	1554985	41.60 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	75895	39.70 ug/L	89
81) n-Propylbenzene	12.160	91	1880888	43.17 ug/L	99
82) Bromobenzene	12.185	156	420733	41.46 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	322683	40.08 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1416749	42.62 ug/L	99
85) 2-Chlorotoluene	12.349	91	1308388	41.95 ug/L	100
86) trans-1,4-Dichloro-2-B...	12.398	53	76107	41.84 ug/L	95
87) 1,2,3-Trichloropropane	12.379	110	85224	40.01 ug/L	95
88) Cyclohexanone	12.446	55	26468	138.04 ug/L	93
89) 4-Chlorotoluene	12.519	91	1213210	41.85 ug/L	98
90) a-Methyl Styrene	12.604	118	707591	40.50 ug/L	99

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:23:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.684	91	789303	42.48	ug/L		98
92)	1,2,4-Trimethylbenzene	12.750	105	1398967	42.19	ug/L		100
93)	Pentachloroethane	12.738	167	250453	39.79	ug/L		95
94)	sec-Butylbenzene	12.866	105	1697649	42.71	ug/L		99
95)	4-Isopropyltoluene	13.000	119	1435823	43.63	ug/L		98
96)	1,3-Dichlorobenzene	13.134	146	735572	41.11	ug/L		99
97)	1,4-Dichlorobenzene	13.219	146	746312	40.44	ug/L		98
98)	n-Butylbenzene	13.432	92	814557	43.15	ug/L		98
99)	Benzyl Chloride	13.444	126	119821	40.42	ug/L	#	8
100)	1,2-Dichlorobenzene	13.645	146	676533	40.67	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	41731	38.25	ug/L		97
102)	Hexachlorobutadiene	14.928	225	310412	42.39	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	469613	40.89	ug/L		97
104)	Naphthalene	15.257	128	688790	40.96	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	390968	40.72	ug/L		99
107)	Ethanol	4.300	45	37216m	814.89	ug/L		
108)	acrolein	4.757	56	192795	221.40	ug/L		98
109)	Tert Butyl Alcohol	5.377	59	178078	390.03	ug/L		94
110)	tert Amyl alcohol	7.573	59	142992	391.54	ug/L		96
111)	Isobutyl alcohol	7.452	42	116076	726.93	ug/L		96
112)	1,4-Dioxane	8.668	88	42729	826.53	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.433	57	756457	1885.11	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10

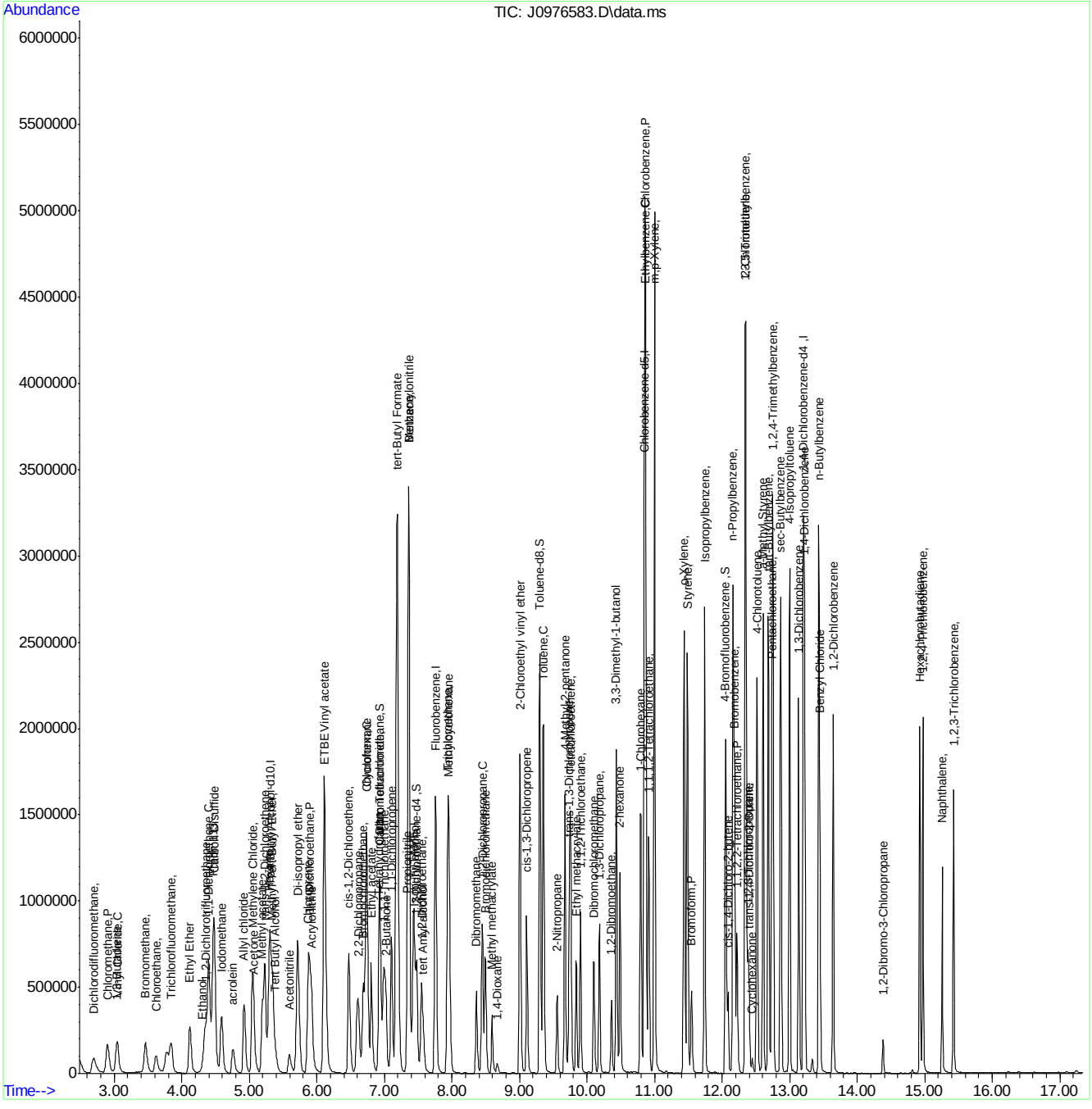
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:23:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

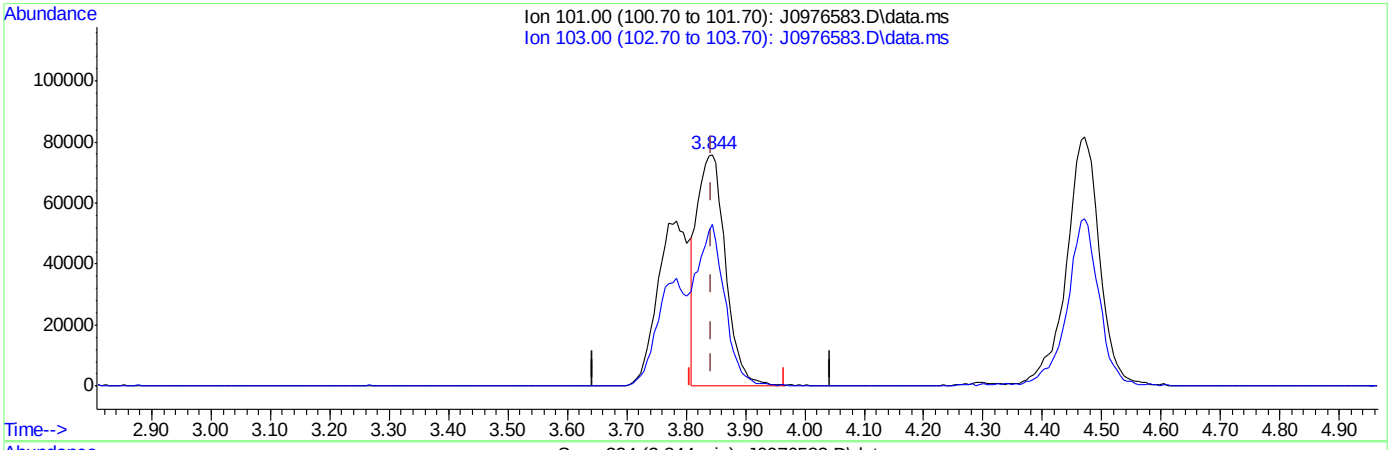
Sample Number:	VJ5301-ECC5295	**Method:**	SW846 8260B
Lab FileID:	J0976583.D	**Analyst approved:**	05/18/16 09:44 Darshna Patel
Injection Time:	05/17/16 20:21	**Supervisor approved:**	05/18/16 10:30 Juan Garcia

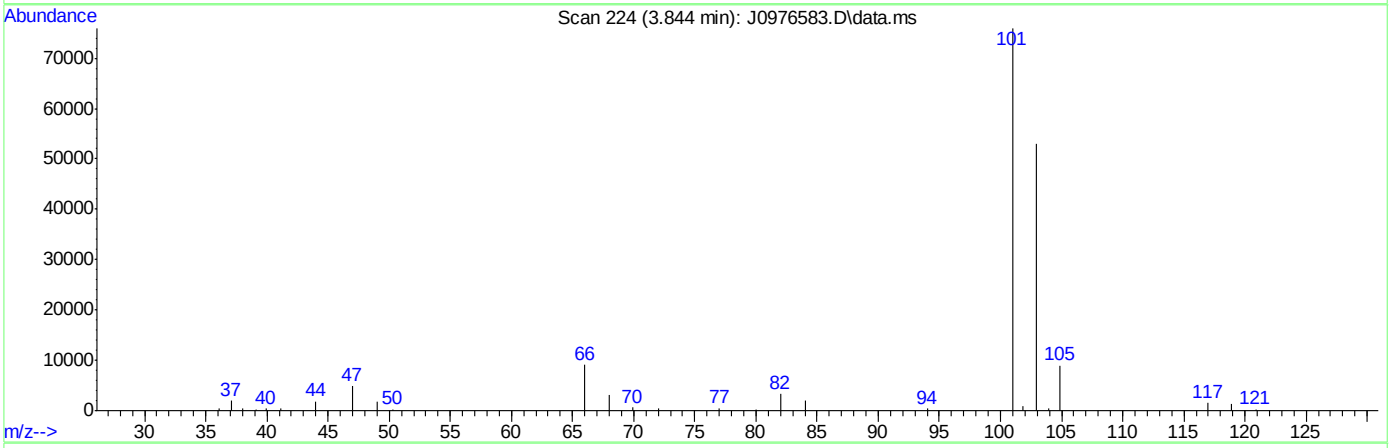
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:10:19 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976583.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 24.14ug/L

response 255085

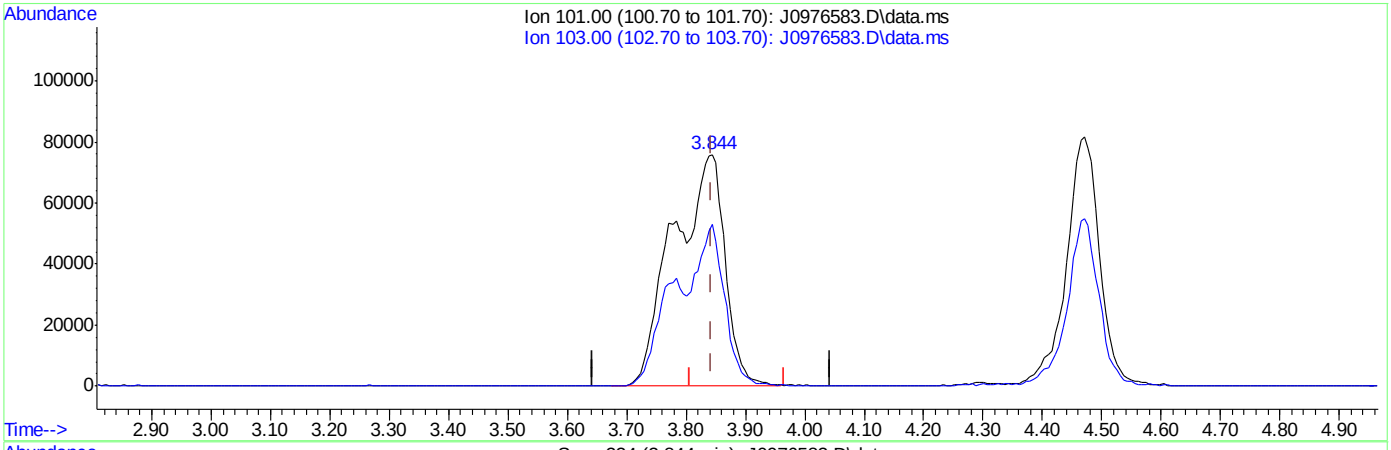
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	69.38
0.00	0.00	0.00
0.00	0.00	0.00

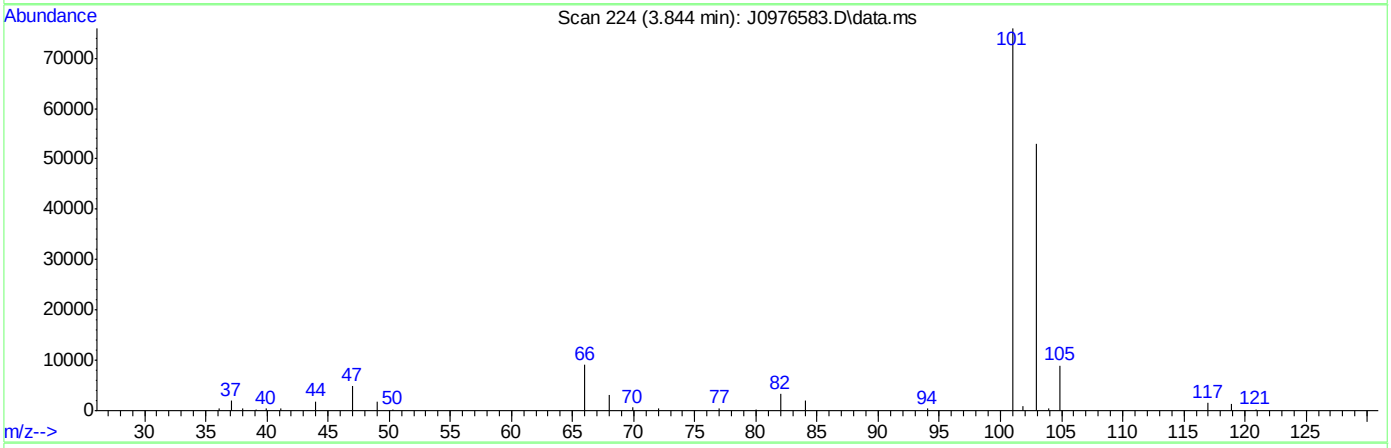
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:10:19 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976583.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 43.19ug/L m

response 456253

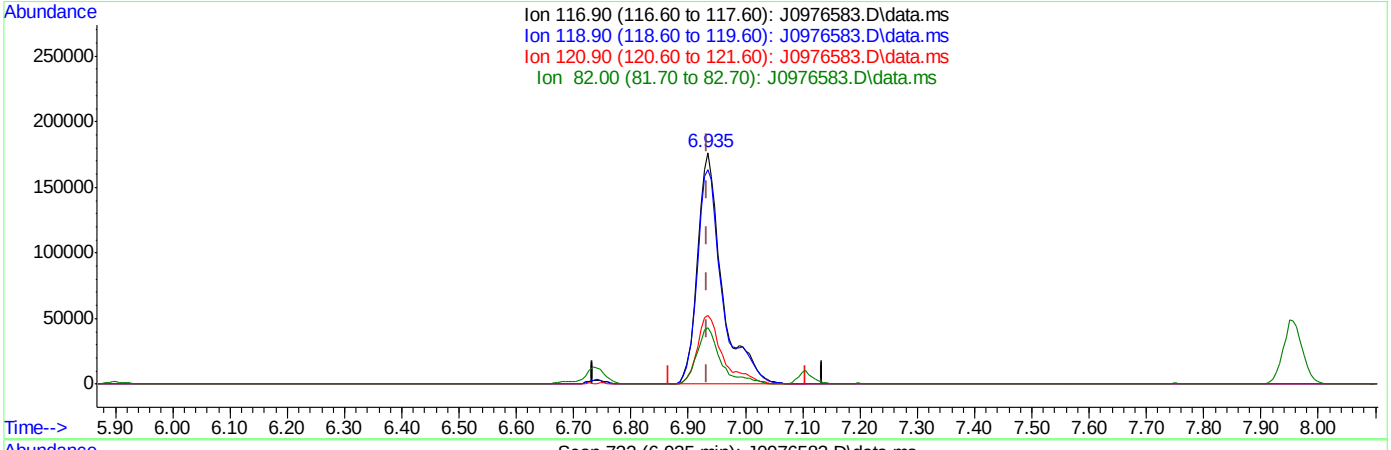
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	69.87
0.00	0.00	0.00
0.00	0.00	0.00

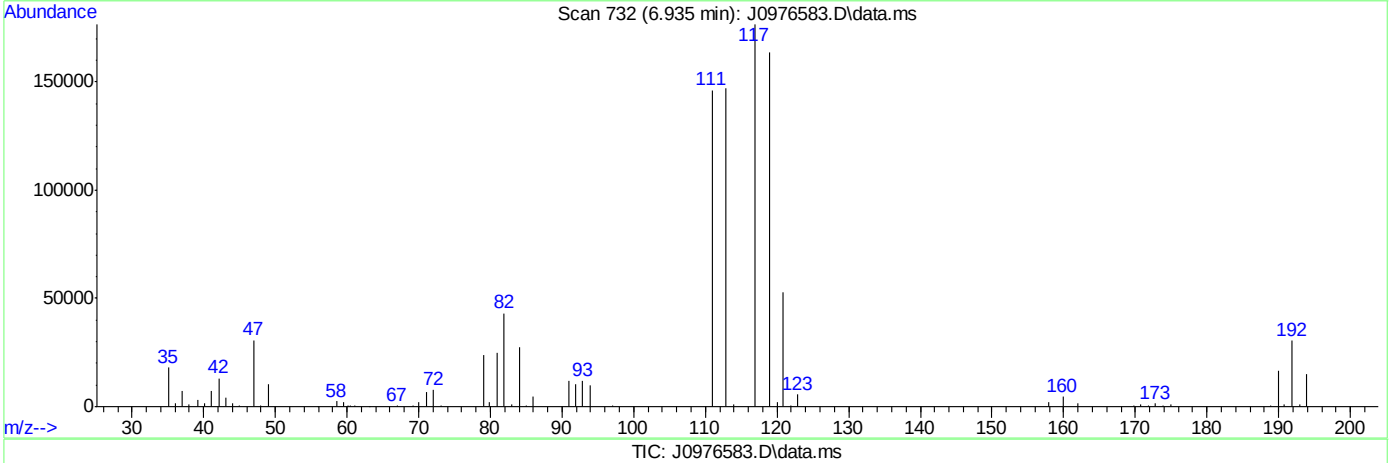
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:10:19 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976583.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 45.80ug/L

response 527823

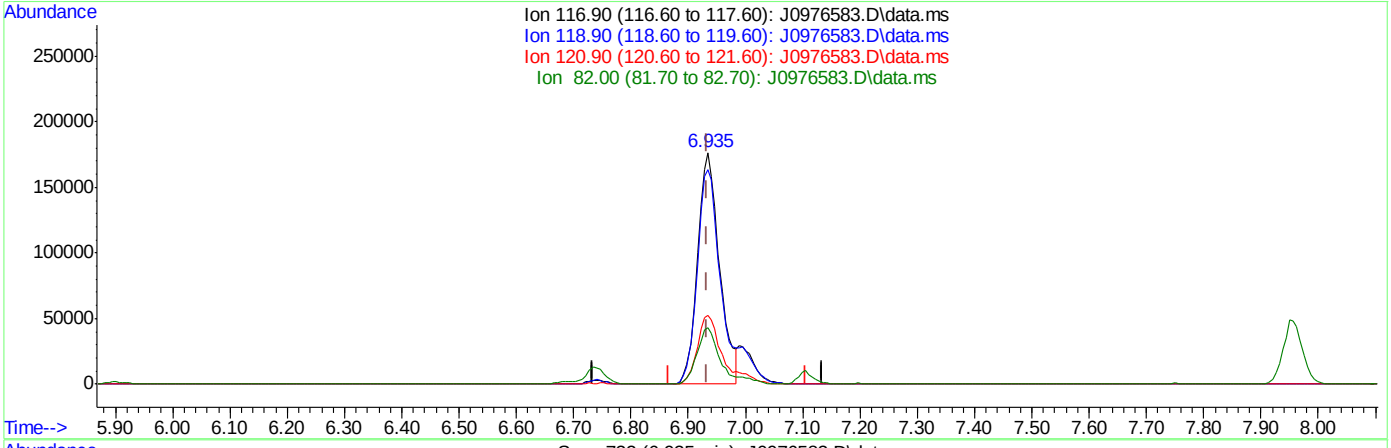
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.68
120.90	31.20	29.78
82.00	25.70	24.41

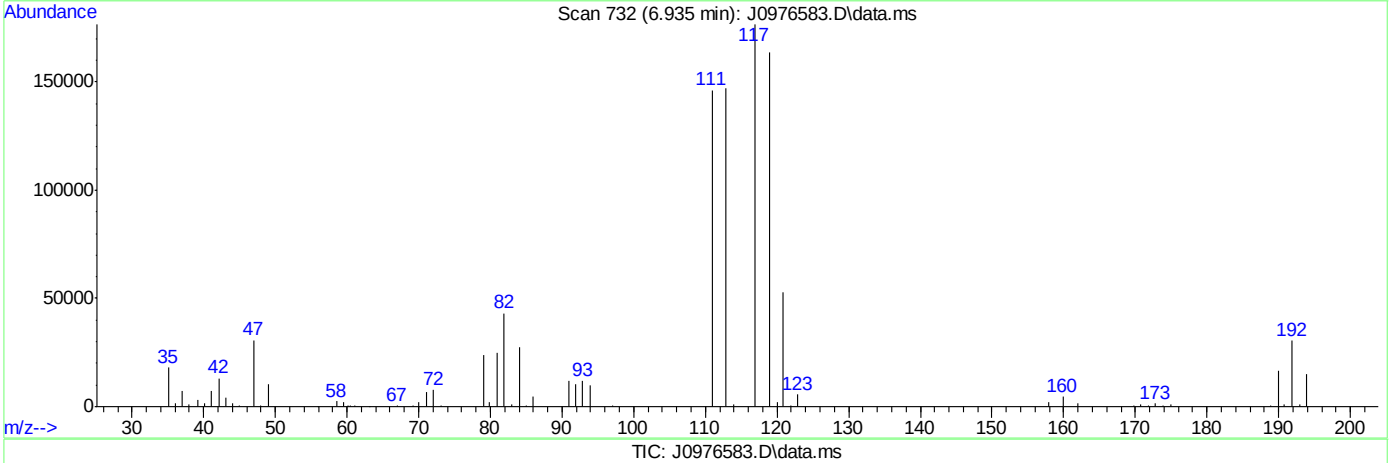
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:10:19 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976583.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 40.86ug/L m

response 470874

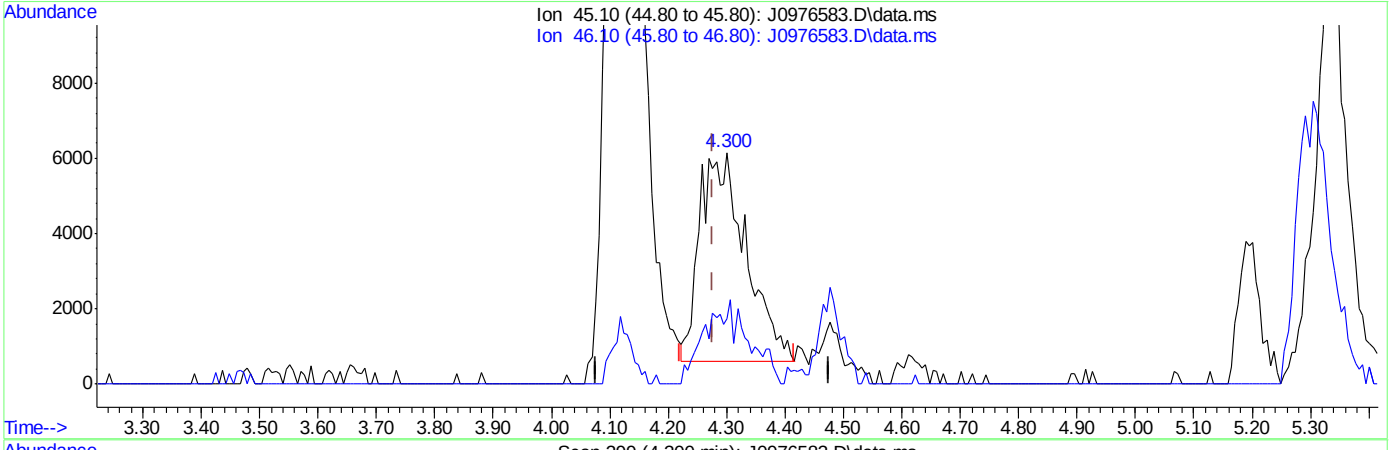
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.68
120.90	31.20	29.78
82.00	25.70	24.41

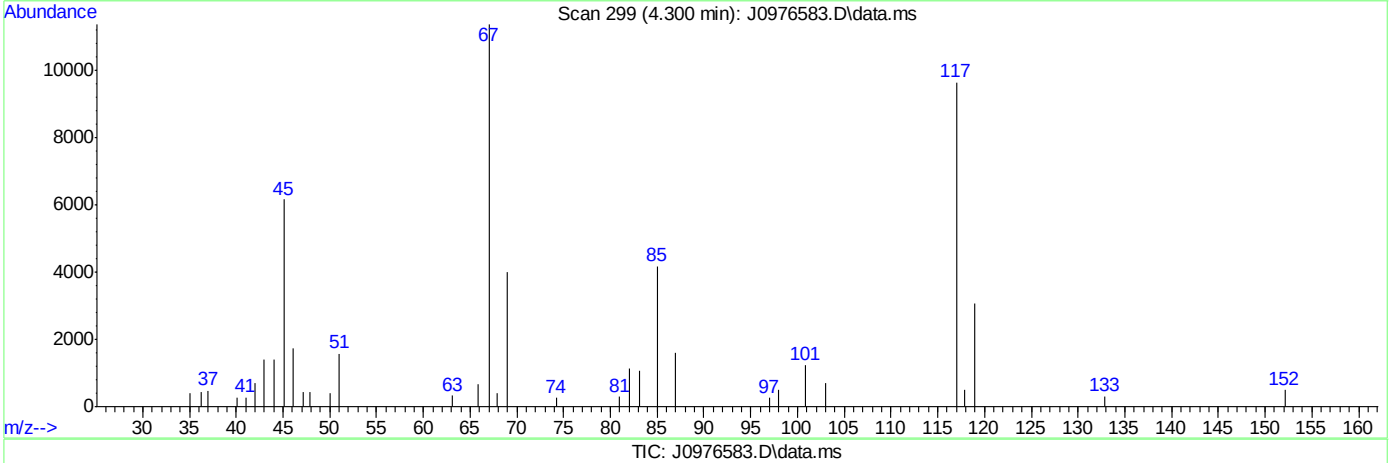
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:10:19 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976583.D\data.ms

(107) Ethanol

4.300min (+0.024) 663.00ug/L

response 30279

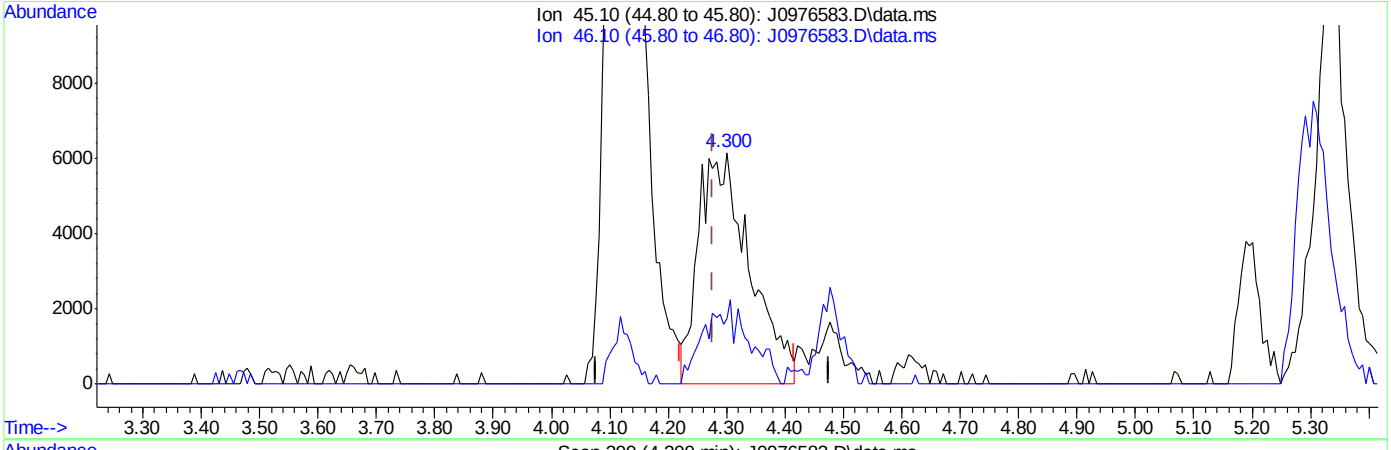
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	31.36
0.00	0.00	0.00
0.00	0.00	0.00

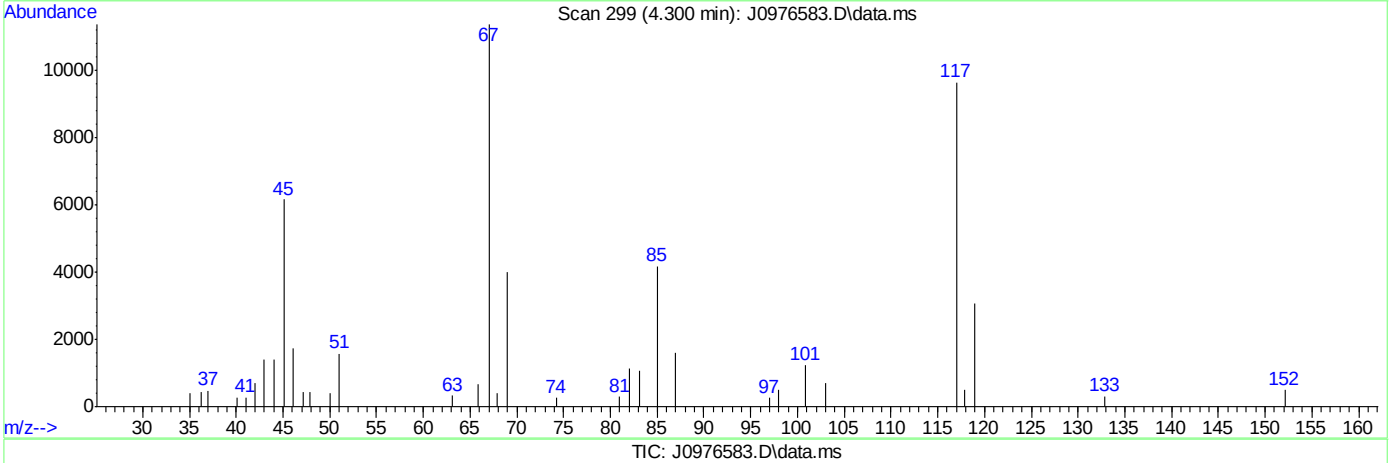
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051716\
Data File : J0976583.D
Acq On : 17 May 2016 8:21 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33892,VJ5301,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 18 08:10:19 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976583.D\data.ms

(107) Ethanol

4.300min (+0.024) 814.89ug/L m

response 37216

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	28.33
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28378.D
Acq On : 6 May 2016 11:59 am
Operator : ericp
Sample : IC1149-1 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 12:52:56 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:52:47 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.121	96	1089099	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	703168	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.681	152	333494	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.621	65	113669	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	257519	50.93	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.86%			
44) 1,2-Dichloroethane-d4	6.817	65	275705	49.18	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.36%			
55) Toluene-d8	8.745	98	1001648	50.33	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.66%			
77) 4-Bromofluorobenzene	11.531	174	227221	49.78	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.56%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.980	85	55059	5.01	ug/Kg	92
3) Chloromethane	2.199	50	56488	4.95	ug/Kg	92
4) Vinyl Chloride	2.315	62	54374	5.01	ug/Kg	99
5) Bromomethane	2.723	94	28085	5.15	ug/Kg	99
6) Chloroethane	2.881	64	28758	5.04	ug/Kg	97
7) Trichlorofluoromethane	3.051	101	50844	4.98	ug/Kg	89
8) Ethyl Ether	3.410	59	25270	4.96	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.635	67	46324	5.01	ug/Kg	93
10) 1,1-Dichloroethene	3.653	61	58358	5.03	ug/Kg	99
11) Freon 113	3.708	101	42190	5.03	ug/Kg	96
12) Carbon Disulfide	3.690	76	124735	4.93	ug/Kg	99
13) Iodomethane	3.812	142	55716	5.00	ug/Kg	92
14) Allyl chloride	4.183	41	51440	5.08	ug/Kg	95
15) Methylene Chloride	4.298	49	59978	4.75	ug/Kg	94
16) Acetone	4.353	43	50954	26.24	ug/Kg	90
17) Methyl acetate	4.487	43	84644	24.74	ug/Kg	96
18) trans-1,2-Dichloroethene	4.493	61	47414	5.18	ug/Kg	89
19) Hexane	4.584	56	43156	5.34	ug/Kg	86
20) Methyl Tert Butyl Ether	4.615	73	89633	4.98	ug/Kg#	25
21) Acetonitrile	4.846	41	29051	49.91	ug/Kg	96
22) Di-isopropyl ether	5.028	45	97562	4.92	ug/Kg	94
23) Chloroprene	5.144	53	53284	4.90	ug/Kg	94
24) 1,1-Dichloroethane	5.162	63	64799	5.04	ug/Kg	98
25) Acrylonitrile	5.205	53	49960	24.98	ug/Kg	96
26) ETBE	5.424	59	101712	5.04	ug/Kg	96
27) Vinyl acetate	5.424	43	262453	24.50	ug/Kg	94
28) cis-1,2-Dichloroethene	5.752	96	39469	5.09	ug/Kg	89
29) 2,2-Dichloropropane	5.868	77	31149	5.16	ug/Kg	94
30) Bromochloromethane	5.965	128	15698	4.89	ug/Kg	94
31) Cyclohexane	5.996	84	63402	5.04	ug/Kg	82
32) Chloroform	6.044	83	59889	4.86	ug/Kg	96
33) Ethyl acetate	6.166	43	99917	23.46	ug/Kg	96
34) Tetrahydrofuran	6.239	42	8711	5.06	ug/Kg	83
36) Carbon Tetrachloride	6.215	117	41821	4.92	ug/Kg	97

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28378.D
Acq On : 6 May 2016 11:59 am
Operator : ericp
Sample : IC1149-1 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 12:52:56 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:52:47 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.281	97	47105	4.93	ug/Kg	93
38) 2-Butanone	6.373	43	57294	23.35	ug/Kg	87
39) 1,1-Dichloropropene	6.415	75	48191	4.85	ug/Kg	90
40) Propionitrile	6.683	54	36084	47.36	ug/Kg	92
41) Methacrylonitrile	6.707	41	124370	46.98	ug/Kg	96
42) Benzene	6.683	78	142203	4.93	ug/Kg	90
43) TAME	6.805	73	88584	4.81	ug/Kg	93
45) 1,2-Dichloroethane	6.896	62	40361	4.95	ug/Kg	90
46) Trichloroethene	7.316	95	36436	5.07	ug/Kg	97
47) Methylcyclohexane	7.316	83	68266	4.85	ug/Kg	95
48) Dibromomethane	7.760	93	16107	4.71	ug/Kg	94
49) 1,2-Dichloropropane	7.851	63	32488	4.71	ug/Kg	89
50) Bromodichloromethane	7.912	83	40676	4.94	ug/Kg	95
51) Methyl methacrylate	8.064	41	12554	4.00	ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.478	63	58627	20.71	ug/Kg	91
53) cis-1,3-Dichloropropene	8.551	75	48566	4.88	ug/Kg	97
56) Toluene	8.800	91	146115	5.05	ug/Kg	93
57) 2-Nitropropane	9.007	41	25720	23.32	ug/Kg	85
58) 4-Methyl-2-pentanone	9.159	43	97314	22.65	ug/Kg	96
59) trans-1,3-Dichloropropene	9.214	75	34533	4.78	ug/Kg	97
60) Tetrachloroethene	9.214	166	32028	5.14	ug/Kg	86
61) Ethyl methacrylate	9.354	69	24339	4.45	ug/Kg	88
62) 1,1,2-Trichloroethane	9.372	83	21255	5.05	ug/Kg	88
63) Dibromochloromethane	9.560	129	22477	4.65	ug/Kg	96
64) 1,3-Dichloropropane	9.646	76	43939	4.87	ug/Kg	92
65) 1,2-Dibromoethane	9.816	107	21332	4.80	ug/Kg	96
66) 2-hexanone	9.998	43	62507	21.36	ug/Kg	97
67) 1-Chlorohexane	10.290	91	37172	4.48	ug/Kg	87
68) Ethylbenzene	10.345	91	145410	4.96	ug/Kg	99
69) Chlorobenzene	10.327	112	88090	5.05	ug/Kg	92
70) 1,1,1,2-Tetrachloroethane	10.382	131	27241	4.96	ug/Kg	95
71) m,p-Xylene	10.485	91	209727	9.60	ug/Kg	98
72) o-Xylene	10.923	91	101516	4.70	ug/Kg	99
73) Styrene	10.984	104	63928	4.47	ug/Kg	93
74) Bromoform	11.020	173	12564	4.88	ug/Kg	83
75) Isopropylbenzene	11.233	105	125087	4.69	ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.592	53	7853	4.74	ug/Kg#	73
79) n-Propylbenzene	11.659	91	157303	4.83	ug/Kg	98
80) Bromobenzene	11.653	156	29358	4.84	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.720	83	32242	4.88	ug/Kg	97
82) 1,3,5-Trimethylbenzene	11.848	105	112979	4.73	ug/Kg	91
83) 2-Chlorotoluene	11.836	91	108761	4.97	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.896	53	8374	4.99	ug/Kg#	58
85) 1,2,3-Trichloropropane	11.866	110	8522	4.87	ug/Kg	95
86) Cyclohexanone	11.915	55	6869	21.63	ug/Kg	84
87) 4-Chlorotoluene	12.000	91	98672	4.92	ug/Kg	98
88) tert-Butylbenzene	12.176	91	65813	4.71	ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.249	105	106290	4.78	ug/Kg	95
90) Pentachloroethane	12.213	167	17757	4.94	ug/Kg#	81
91) sec-Butylbenzene	12.359	105	149977	4.83	ug/Kg	100

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28378.D
Acq On : 6 May 2016 11:59 am
Operator : ericp
Sample : IC1149-1 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 12:52:56 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:52:47 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	116698	4.72	ug/Kg	96
93) 1,3-Dichlorobenzene	12.608	146	61825	4.93	ug/Kg	97
94) 1,4-Dichlorobenzene	12.693	146	67879	5.10	ug/Kg	91
95) n-Butylbenzene	12.943	92	65986	4.87	ug/Kg	95
96) Benzyl Chloride	12.943	126	9417	4.39	ug/Kg#	56
97) 1,2-Dichlorobenzene	13.138	146	60102	5.06	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.953	75	5034	4.62	ug/Kg	85
99) Hexachlorobutadiene	14.555	225	22869	5.01	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.598	180	42214	5.23	ug/Kg	98
101) Naphthalene	14.883	128	95426	5.44	ug/Kg	96
102) 1,2,3-Trichlorobenzene	15.042	180	42087	5.24	ug/Kg	94
104) Ethanol	3.556	45	5627	93.79	ug/Kg	57
105) Acrolein	4.012	56	25996	24.40	ug/Kg	78
106) Tert butyl alcohol	4.712	59	33365	51.36	ug/Kg	97
107) Isobutyl alcohol	6.890	42	10834	83.63	ug/Kg	91
108) Tert Amyl Alcohol	6.999	59	21090	44.66	ug/Kg	96
109) 1,4-Dioxane	8.131	88	4715	87.61	ug/Kg#	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.11

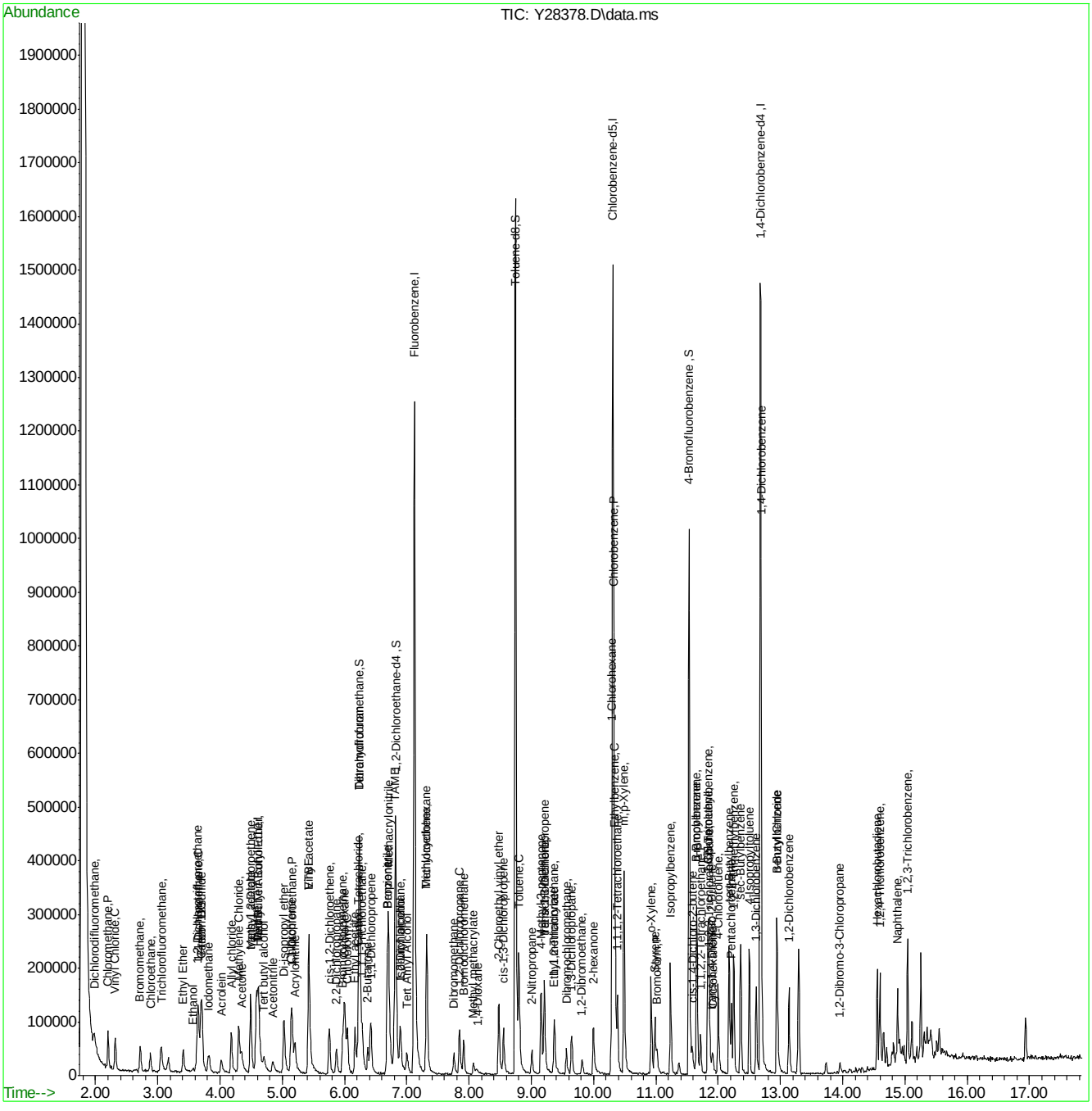
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28378.D
Acq On : 6 May 2016 11:59 am
Operator : ericp
Sample : IC1149-1 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 12:52:56 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:52:47 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/09/16 11:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28379.D
Acq On : 6 May 2016 12:25 pm
Operator : ericp
Sample : IC1149-2 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 12:52:21 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:35:20 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1070045	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	718173	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.682	152	335087	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.633	65	116888	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	243789	48.18	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.36%			
44) 1,2-Dichloroethane-d4	6.817	65	279893	51.66	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 103.32%			
55) Toluene-d8	8.746	98	1009407	49.33	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.66%			
77) 4-Bromofluorobenzene	11.532	174	230283	50.43	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	107868	9.97	ug/Kg	98
3) Chloromethane	2.200	50	113157	10.19	ug/Kg	94
4) Vinyl Chloride	2.316	62	106374	9.96	ug/Kg	95
5) Bromomethane	2.717	94	52031	9.43	ug/Kg	90
6) Chloroethane	2.881	64	55535	9.83	ug/Kg	90
7) Trichlorofluoromethane	3.058	101	100551	10.06	ug/Kg	99
8) Ethyl Ether	3.411	59	50527	10.18	ug/Kg	98
9) 1,2-Dichlorotrifluoroe...	3.642	67	90609	9.95	ug/Kg	94
10) 1,1-Dichloroethene	3.648	61	113168	9.87	ug/Kg	89
11) Freon 113	3.703	101	81855	9.87	ug/Kg	97
12) Carbon Disulfide	3.697	76	252372	10.30	ug/Kg	96
13) Iodomethane	3.812	142	109275	9.98	ug/Kg	100
14) Allyl chloride	4.177	41	97878	9.68	ug/Kg	93
15) Methylene Chloride	4.299	49	130023	11.03	ug/Kg	92
16) Acetone	4.348	43	90686	45.29	ug/Kg	91
17) Methyl acetate	4.494	43	169769	51.03	ug/Kg	91
18) trans-1,2-Dichloroethene	4.494	61	86780	9.31	ug/Kg	97
19) Hexane	4.585	56	74113	8.74	ug/Kg	85
20) Methyl Tert Butyl Ether	4.609	73	177277	10.07	ug/Kg#	28
21) Acetonitrile	4.846	41	57294	100.37	ug/Kg	90
22) Di-isopropyl ether	5.029	45	197779	10.32	ug/Kg	93
23) Chloroprene	5.144	53	109087	10.42	ug/Kg	97
24) 1,1-Dichloroethane	5.157	63	125242	9.84	ug/Kg	98
25) Acrylonitrile	5.199	53	98300	50.07	ug/Kg	91
26) ETBE	5.430	59	196608	9.84	ug/Kg	99
27) Vinyl acetate	5.424	43	536881	52.05	ug/Kg	96
28) cis-1,2-Dichloroethene	5.753	96	74879	9.65	ug/Kg	92
29) 2,2-Dichloropropane	5.868	77	57341	9.37	ug/Kg	94
30) Bromochloromethane	5.972	128	32296	10.47	ug/Kg#	76
31) Cyclohexane	6.002	84	122697	9.85	ug/Kg	99
32) Chloroform	6.045	83	124390	10.57	ug/Kg	97
33) Ethyl acetate	6.166	43	222178	56.58	ug/Kg	96
34) Tetrahydrofuran	6.246	42	16691	9.75	ug/Kg	92
36) Carbon Tetrachloride	6.215	117	84972	10.34	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28379.D
Acq On : 6 May 2016 12:25 pm
Operator : ericp
Sample : IC1149-2 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 12:52:21 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:35:20 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.288	97	95072	10.27	ug/Kg	95
38) 2-Butanone	6.373	43	128492	57.07	ug/Kg	95
39) 1,1-Dichloropropene	6.416	75	100528	10.62	ug/Kg	96
40) Propionitrile	6.677	54	78811	111.15	ug/Kg	98
41) Methacrylonitrile	6.708	41	275827	112.86	ug/Kg	95
42) Benzene	6.684	78	287801	10.30	ug/Kg	93
43) TAME	6.811	73	188120	10.81	ug/Kg	98
45) 1,2-Dichloroethane	6.890	62	80804	10.19	ug/Kg	97
46) Trichloroethene	7.316	95	69566	9.72	ug/Kg	93
47) Methylcyclohexane	7.316	83	142247	10.60	ug/Kg	97
48) Dibromomethane	7.754	93	35591	11.25	ug/Kg	97
49) 1,2-Dichloropropane	7.846	63	71842	11.25	ug/Kg	96
50) Bromodichloromethane	7.912	83	81787	10.23	ug/Kg	97
51) Methyl methacrylate	8.065	41	36939	14.97	ug/Kg	86
52) 2-Chloroethyl vinyl ether	8.478	63	162993	70.74	ug/Kg	94
53) cis-1,3-Dichloropropene	8.551	75	100238	10.50	ug/Kg	90
56) Toluene	8.801	91	292831	9.81	ug/Kg	99
57) 2-Nitropropane	9.007	41	60128	57.22	ug/Kg	88
58) 4-Methyl-2-pentanone	9.160	43	239936	60.35	ug/Kg	98
59) trans-1,3-Dichloropropene	9.208	75	77073	10.93	ug/Kg	96
60) Tetrachloroethene	9.208	166	61949	9.47	ug/Kg	97
61) Ethyl methacrylate	9.354	69	61982	12.47	ug/Kg	90
62) 1,1,2-Trichloroethane	9.372	83	42628	9.82	ug/Kg	91
63) Dibromochloromethane	9.561	129	52799	11.50	ug/Kg	98
64) 1,3-Dichloropropane	9.646	76	94382	10.52	ug/Kg	98
65) 1,2-Dibromoethane	9.810	107	47286	10.85	ug/Kg	98
66) 2-hexanone	9.993	43	171192	67.04	ug/Kg	96
67) 1-Chlorohexane	10.291	91	93501	12.31	ug/Kg	84
68) Ethylbenzene	10.340	91	301878	10.16	ug/Kg	99
69) Chlorobenzene	10.328	112	176540	9.81	ug/Kg	94
70) 1,1,1,2-Tetrachloroethane	10.382	131	56562	10.16	ug/Kg	96
71) m,p-Xylene	10.486	91	464238	21.67	ug/Kg	97
72) o-Xylene	10.924	91	234120	11.29	ug/Kg	98
73) Styrene	10.978	104	161771	12.39	ug/Kg	96
74) Bromoform	11.021	173	26906	10.48	ug/Kg	97
75) Isopropylbenzene	11.234	105	288935	11.31	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.581	53	17493	11.08	ug/Kg	84
79) n-Propylbenzene	11.654	91	338922	10.72	ug/Kg	99
80) Bromobenzene	11.654	156	62904	10.66	ug/Kg	100
81) 1,1,2,2-Tetrachloroethane	11.721	83	67854	10.47	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.848	105	253077	11.15	ug/Kg	91
83) 2-Chlorotoluene	11.830	91	221119	10.12	ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.897	53	16908	10.05	ug/Kg	93
85) 1,2,3-Trichloropropane	11.867	110	18007	10.51	ug/Kg	91
86) Cyclohexanone	11.921	55	18111	65.60	ug/Kg	83
87) 4-Chlorotoluene	11.994	91	205132	10.35	ug/Kg	96
88) tert-Butylbenzene	12.177	91	148668	11.24	ug/Kg	93
89) 1,2,4-Trimethylbenzene	12.250	105	233632	10.94	ug/Kg	100
90) Pentachloroethane	12.213	167	36505	10.23	ug/Kg#	82
91) sec-Butylbenzene	12.359	105	323034	10.72	ug/Kg	96

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28379.D
Acq On : 6 May 2016 12:25 pm
Operator : ericp
Sample : IC1149-2 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 12:52:21 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:35:20 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	262398	11.19	ug/Kg	97
93) 1,3-Dichlorobenzene	12.609	146	127636	10.27	ug/Kg	95
94) 1,4-Dichlorobenzene	12.694	146	131162	9.62	ug/Kg	93
95) n-Butylbenzene	12.943	92	139618	10.53	ug/Kg	99
96) Benzyl Chloride	12.943	126	24195	12.79	ug/Kg#	82
97) 1,2-Dichlorobenzene	13.138	146	118005	9.77	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.947	75	11764	11.63	ug/Kg#	80
99) Hexachlorobutadiene	14.556	225	45697	9.94	ug/Kg	95
100) 1,2,4-Trichlorobenzene	14.592	180	77340	9.12	ug/Kg	96
101) Naphthalene	14.878	128	160542	8.37	ug/Kg	98
102) 1,2,3-Trichlorobenzene	15.042	180	76717	9.07	ug/Kg	98
104) Ethanol	3.563	45	13106m	226.50	ug/Kg	
105) Acrolein	4.019	56	56098	52.46	ug/Kg	99
106) Tert butyl alcohol	4.713	59	64979	94.69	ug/Kg	99
107) Isobutyl alcohol	6.903	42	31007	278.32	ug/Kg	97
108) Tert Amyl Alcohol	7.012	59	53748	123.92	ug/Kg	90
109) 1,4-Dioxane	8.125	88	12441	256.59	ug/Kg	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.12

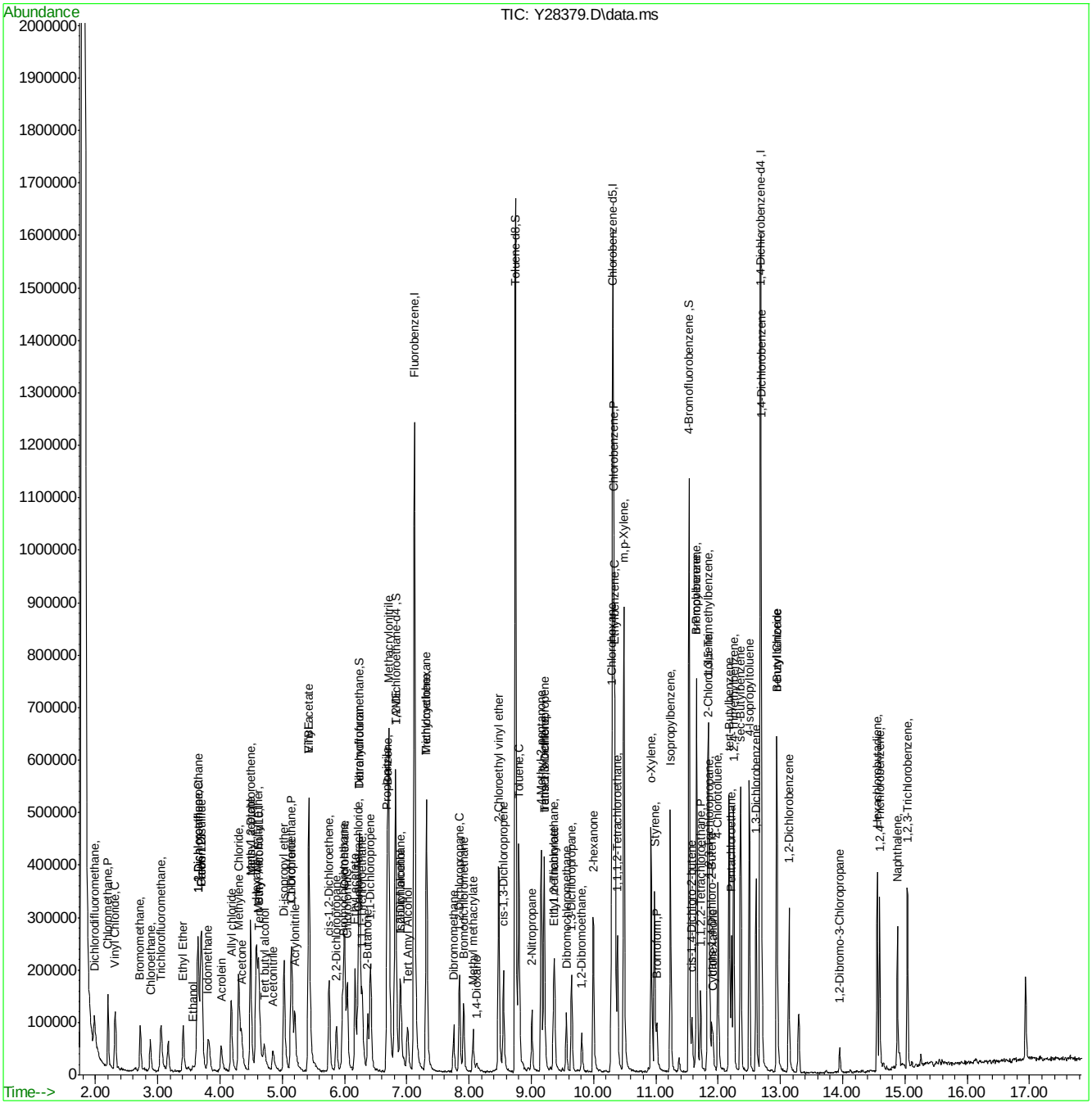
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28379.D
Acq On : 6 May 2016 12:25 pm
Operator : ericp
Sample : IC1149-2 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 12:52:21 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:35:20 2016
Response via : Initial Calibration


Abundance
TIC: Y28379.D\data.ms
Time-->
Dichlorodifluoromethane,
Chloromethane,P
Vinyl Chloride,C
Bromomethane,
Chloroethane
Trichlorofluoromethane,
Ethyl Ether
Ethanol
Iodomethane
Acrolein
Acetone
Allyl chloride
Methylene Chloride,
Acetonitrile
Acrylonitrile
Dichloroethene,
Methyl Acetate
Methyl tert butyl ether
Tert butyl alcohol
Acetone
Carbon disulfide
Methylene Chloride,
Methyl Acetate
Methyl tert butyl ether
Tert butyl alcohol
Acetonitrile
Acrylonitrile
Di-isopropyl ether
Chloroprene
Propionitrile
Methacrylonitrile
Ethyl Acetate
Methyl Acrylate
Methyl Methacrylate
Propionitrile
Methacrylonitrile
Ethyl Acetate
Methyl Acrylate
Methyl Methacrylate
Dichloroethane,
Chloroform
Tetrahydrofuran
Dibromomethane,S
Dibromofluoromethane
Chlorobenzene-d5,S
Chloroform
Tetrahydrofuran

Manual Integration Approval Summary

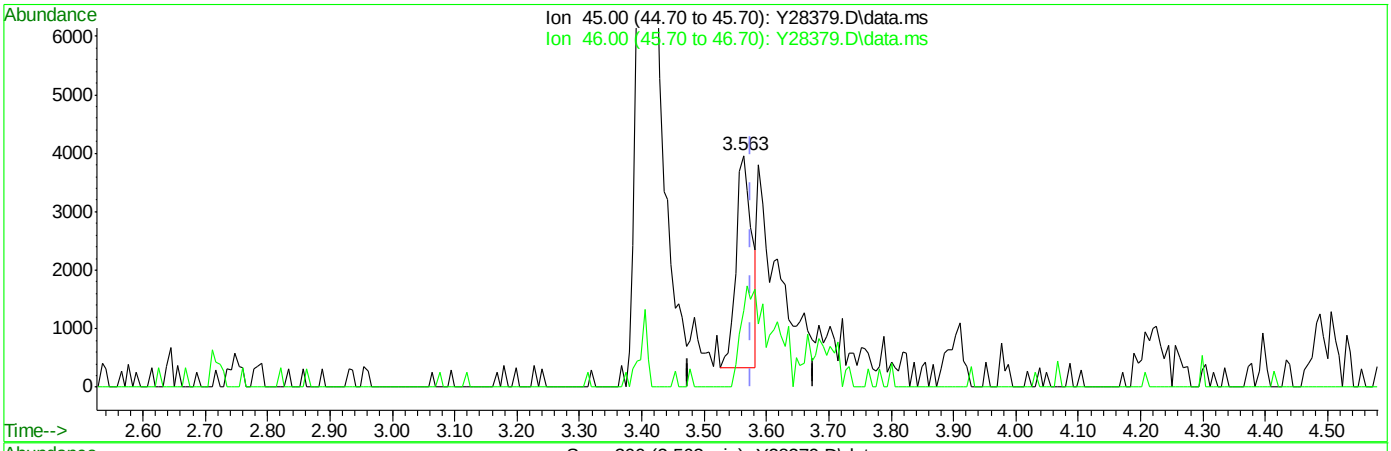
Sample Number:	VY1149-IC1149	**Method:**	SW846 8260B
Lab FileID:	Y28379.D	**Analyst approved:**	05/07/16 06:10 Eric Parrish
Injection Time:	05/06/16 12:25	**Supervisor approved:**	05/09/16 11:54 Melissa Mangual

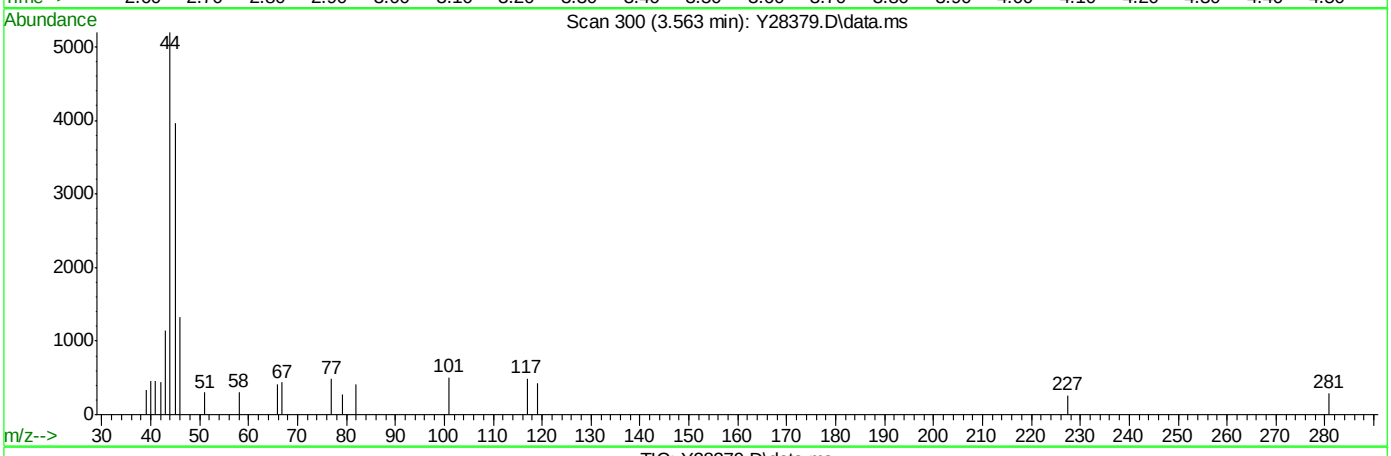
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.56	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28379.D
Acq On : 6 May 2016 12:25 pm
Operator : ericp
Sample : IC1149-2 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 12:51:48 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:35:20 2016
Response via : Initial Calibration





TIC: Y28379.D\data.ms

(104) Ethanol

3.563min (-0.012) 108.79ug/Kg

response 6295

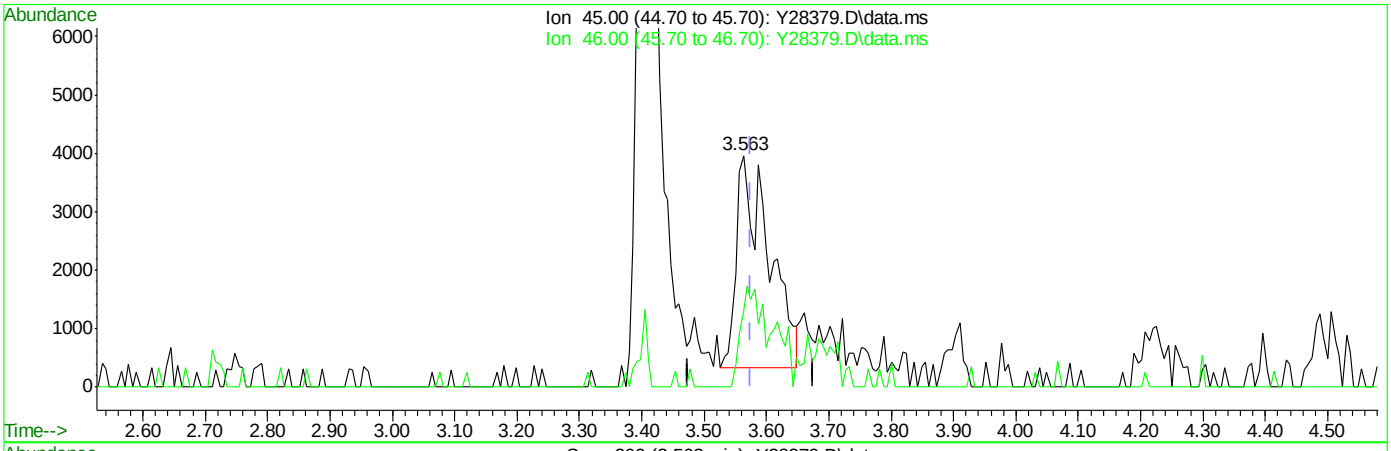
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	36.35
0.00	0.00	0.00
0.00	0.00	0.00

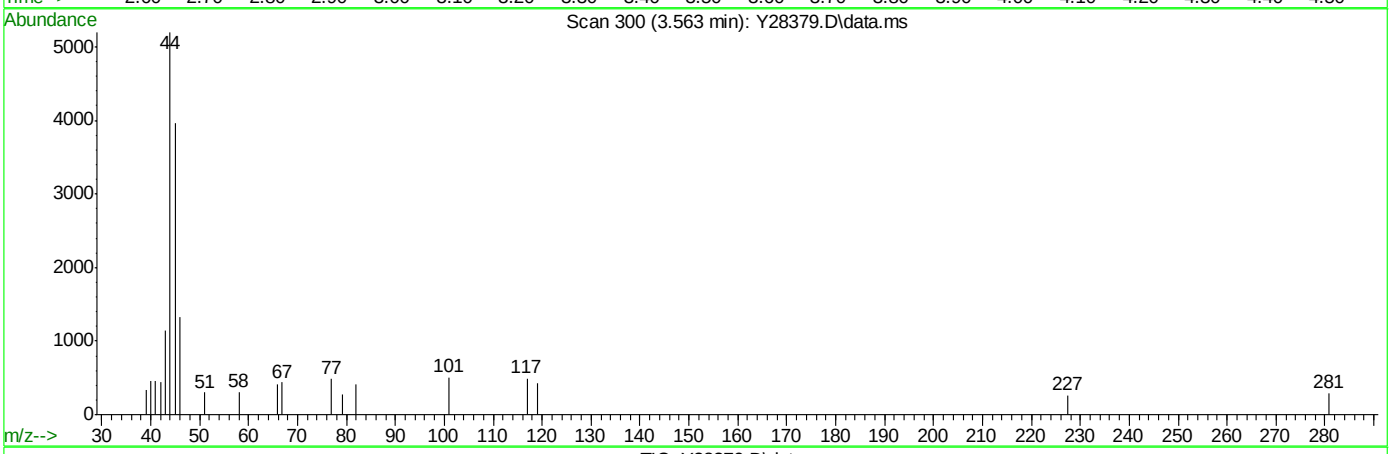
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28379.D
Acq On : 6 May 2016 12:25 pm
Operator : ericp
Sample : IC1149-2 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 12:51:48 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:35:20 2016
Response via : Initial Calibration





TIC: Y28379.D\data.ms

(104) Ethanol

3.563min (-0.012) 226.50ug/Kg m

response 13106

Ion	Exp%	Act%
45.00	100	100
46.00	41.20	33.29
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/09/16 11:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28380.D
Acq On : 6 May 2016 12:52 pm
Operator : ericp
Sample : IC1149-3 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 13:17:03 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:54:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.121	96	1020542	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	669625	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.681	152	306998	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.627	65	105742	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	235156	49.63	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.26%			
44) 1,2-Dichloroethane-d4	6.817	65	245718	46.78	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 93.56%			
55) Toluene-d8	8.745	98	932876	49.23	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.46%			
77) 4-Bromofluorobenzene	11.537	174	213158	50.73	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.46%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.980	85	210054	20.39	ug/Kg	94
3) Chloromethane	2.205	50	225069	21.06	ug/Kg	99
4) Vinyl Chloride	2.321	62	220912	21.73	ug/Kg	100
5) Bromomethane	2.722	94	106271	20.78	ug/Kg	98
6) Chloroethane	2.881	64	113582	21.26	ug/Kg	97
7) Trichlorofluoromethane	3.057	101	214175	22.40	ug/Kg	95
8) Ethyl Ether	3.410	59	101288	21.20	ug/Kg	91
9) 1,2-Dichlorotrifluoroe...	3.641	67	185427	21.41	ug/Kg	98
10) 1,1-Dichloroethene	3.653	61	248287	22.85	ug/Kg	93
11) Freon 113	3.708	101	169379	21.56	ug/Kg	95
12) Carbon Disulfide	3.696	76	525417	22.15	ug/Kg	98
13) Iodomethane	3.824	142	224084	21.48	ug/Kg	98
14) Allyl chloride	4.182	41	200097	21.09	ug/Kg	93
15) Methylene Chloride	4.298	49	195702	16.56	ug/Kg	93
16) Acetone	4.347	43	172725	94.91	ug/Kg	98
17) Methyl acetate	4.487	43	335974	104.81	ug/Kg	95
18) trans-1,2-Dichloroethene	4.487	61	187687	21.87	ug/Kg	99
19) Hexane	4.578	56	145591	19.21	ug/Kg	82
20) Methyl Tert Butyl Ether	4.608	73	360312	21.38	ug/Kg#	28
21) Acetonitrile	4.846	41	113221	207.58	ug/Kg	99
22) Di-isopropyl ether	5.028	45	407016	21.91	ug/Kg	94
23) Chloroprene	5.138	53	232436	22.80	ug/Kg	97
24) 1,1-Dichloroethane	5.162	63	253310	21.03	ug/Kg	98
25) Acrylonitrile	5.198	53	192673	102.82	ug/Kg	98
26) ETBE	5.430	59	393881	20.83	ug/Kg	93
27) Vinyl acetate	5.424	43	1050095	104.60	ug/Kg	93
28) cis-1,2-Dichloroethene	5.752	96	159187	21.90	ug/Kg	98
29) 2,2-Dichloropropane	5.868	77	116881	20.68	ug/Kg	100
30) Bromochloromethane	5.971	128	66641	22.13	ug/Kg#	79
31) Cyclohexane	6.001	84	265146	22.48	ug/Kg	96
32) Chloroform	6.044	83	258731	22.41	ug/Kg	98
33) Ethyl acetate	6.166	43	431193	108.03	ug/Kg	98
34) Tetrahydrofuran	6.239	42	31506	19.54	ug/Kg	96
36) Carbon Tetrachloride	6.214	117	175221	21.98	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28380.D
Acq On : 6 May 2016 12:52 pm
Operator : ericp
Sample : IC1149-3 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 13:17:03 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:54:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.281	97	197350	22.06	ug/Kg	97
38) 2-Butanone	6.373	43	240722	104.70	ug/Kg	96
39) 1,1-Dichloropropene	6.415	75	207543	22.29	ug/Kg	96
40) Propionitrile	6.677	54	143208	200.59	ug/Kg	88
41) Methacrylonitrile	6.707	41	533555	215.08	ug/Kg	92
42) Benzene	6.683	78	596304	22.04	ug/Kg	92
43) TAME	6.811	73	372841	21.59	ug/Kg	93
45) 1,2-Dichloroethane	6.896	62	156670	20.52	ug/Kg	95
46) Trichloroethene	7.309	95	149808	22.25	ug/Kg	98
47) Methylcyclohexane	7.315	83	290052	22.01	ug/Kg	96
48) Dibromomethane	7.747	93	69712	21.74	ug/Kg	97
49) 1,2-Dichloropropane	7.845	63	142138	21.97	ug/Kg	94
50) Bromodichloromethane	7.912	83	170996	22.17	ug/Kg	97
51) Methyl methacrylate	8.058	41	69918	23.80	ug/Kg	93
52) 2-Chloroethyl vinyl ether	8.471	63	331438	124.92	ug/Kg	95
53) cis-1,3-Dichloropropene	8.550	75	209841	22.49	ug/Kg	98
56) Toluene	8.800	91	590994	21.44	ug/Kg	93
57) 2-Nitropropane	9.007	41	109953	104.67	ug/Kg	96
58) 4-Methyl-2-pentanone	9.159	43	466481	114.04	ug/Kg	95
59) trans-1,3-Dichloropropene	9.207	75	157943	22.95	ug/Kg	96
60) Tetrachloroethene	9.207	166	133307	22.45	ug/Kg	96
61) Ethyl methacrylate	9.353	69	121757	23.38	ug/Kg	87
62) 1,1,2-Trichloroethane	9.366	83	88817	22.14	ug/Kg	93
63) Dibromochloromethane	9.560	129	101544	22.07	ug/Kg	97
64) 1,3-Dichloropropane	9.645	76	185234	21.58	ug/Kg	97
65) 1,2-Dibromoethane	9.810	107	98241	23.19	ug/Kg	93
66) 2-hexanone	9.992	43	320465	115.00	ug/Kg	93
67) 1-Chlorohexane	10.284	91	185498	23.48	ug/Kg	98
68) Ethylbenzene	10.339	91	622796	22.31	ug/Kg	99
69) Chlorobenzene	10.327	112	357006	21.48	ug/Kg	95
70) 1,1,1,2-Tetrachloroethane	10.388	131	113581	21.71	ug/Kg	98
71) m,p-Xylene	10.485	91	921338	44.28	ug/Kg	96
72) o-Xylene	10.923	91	472021	22.93	ug/Kg	97
73) Styrene	10.972	104	336011	24.65	ug/Kg	97
74) Bromoform	11.014	173	52420	21.39	ug/Kg	96
75) Isopropylbenzene	11.233	105	585632	23.07	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.580	53	33996	22.30	ug/Kg	92
79) n-Propylbenzene	11.653	91	682316	22.74	ug/Kg	99
80) Bromobenzene	11.653	156	126030	22.57	ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.714	83	131322	21.61	ug/Kg	96
82) 1,3,5-Trimethylbenzene	11.848	105	518138	23.56	ug/Kg	95
83) 2-Chlorotoluene	11.829	91	464789	23.08	ug/Kg	99
84) trans-1,4-Dichloro-2-B...	11.896	53	33120	21.43	ug/Kg	95
85) 1,2,3-Trichloropropane	11.866	110	33605	20.88	ug/Kg	95
86) Cyclohexanone	11.921	55	32435	110.93	ug/Kg	83
87) 4-Chlorotoluene	11.994	91	414362	22.42	ug/Kg	99
88) tert-Butylbenzene	12.176	91	303126	23.56	ug/Kg	99
89) 1,2,4-Trimethylbenzene	12.249	105	491484	23.99	ug/Kg	99
90) Pentachloroethane	12.213	167	70496	21.32	ug/Kg	88
91) sec-Butylbenzene	12.359	105	666906	23.32	ug/Kg	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28380.D
Acq On : 6 May 2016 12:52 pm
Operator : ericp
Sample : IC1149-3 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 13:17:03 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:54:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	528785	23.23	ug/Kg	100
93) 1,3-Dichlorobenzene	12.608	146	245281	21.26	ug/Kg	97
94) 1,4-Dichlorobenzene	12.693	146	251387	20.51	ug/Kg	96
95) n-Butylbenzene	12.943	92	317798	25.48	ug/Kg	90
96) Benzyl Chloride	12.937	126	47297	23.95	ug/Kg#	82
97) 1,2-Dichlorobenzene	13.131	146	236589	21.63	ug/Kg	95
98) 1,2-Dibromo-3-Chloropr...	13.946	75	22844	22.79	ug/Kg	90
99) Hexachlorobutadiene	14.555	225	89027	21.20	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.591	180	150271	20.23	ug/Kg	97
101) Naphthalene	14.877	128	334054	20.70	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.041	180	148522	20.10	ug/Kg	95
104) Ethanol	3.568	45	24054m	430.97	ug/Kg	
105) Acrolein	4.018	56	98028	98.90	ug/Kg	96
106) Tert butyl alcohol	4.712	59	120784	199.88	ug/Kg	94
107) Isobutyl alcohol	6.902	42	55523	460.70	ug/Kg	89
108) Tert Amyl Alcohol	7.005	59	99078	225.53	ug/Kg	91
109) 1,4-Dioxane	8.125	88	21997	439.35	ug/Kg	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.13

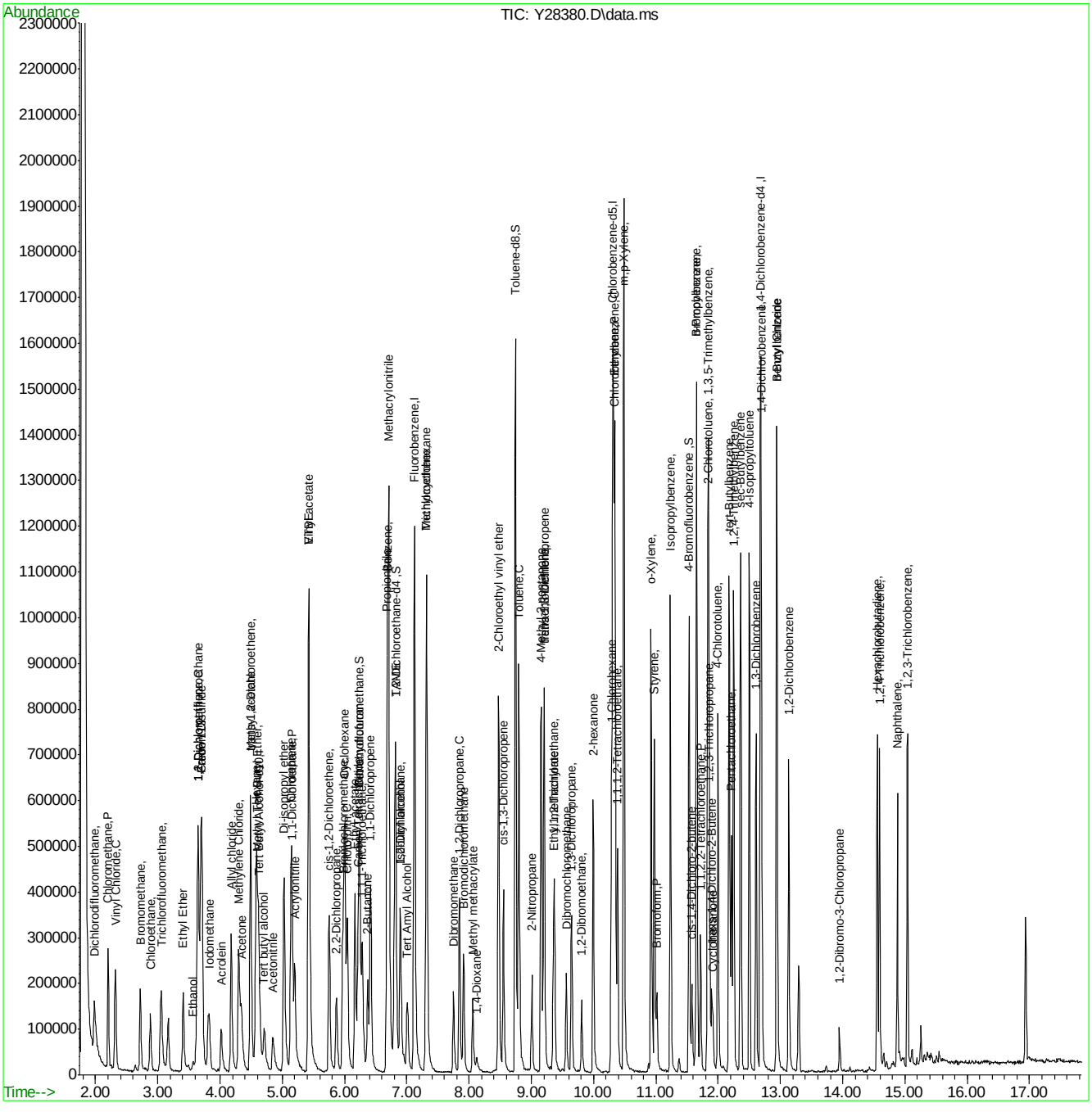
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28380.D
Acq On : 6 May 2016 12:52 pm
Operator : ericp
Sample : IC1149-3 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 13:17:03 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:54:07 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Manual Integration Approval Summary

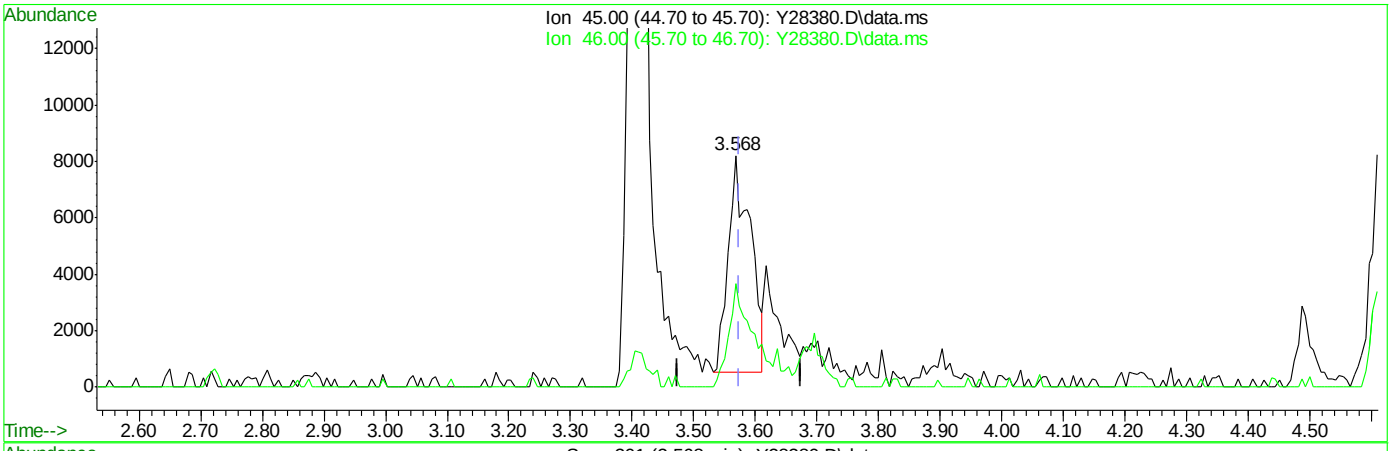
Sample Number:	VY1149-IC1149	**Method:**	SW846 8260B
Lab FileID:	Y28380.D	**Analyst approved:**	05/07/16 06:10 Eric Parrish
Injection Time:	05/06/16 12:52	**Supervisor approved:**	05/09/16 11:54 Melissa Mangual

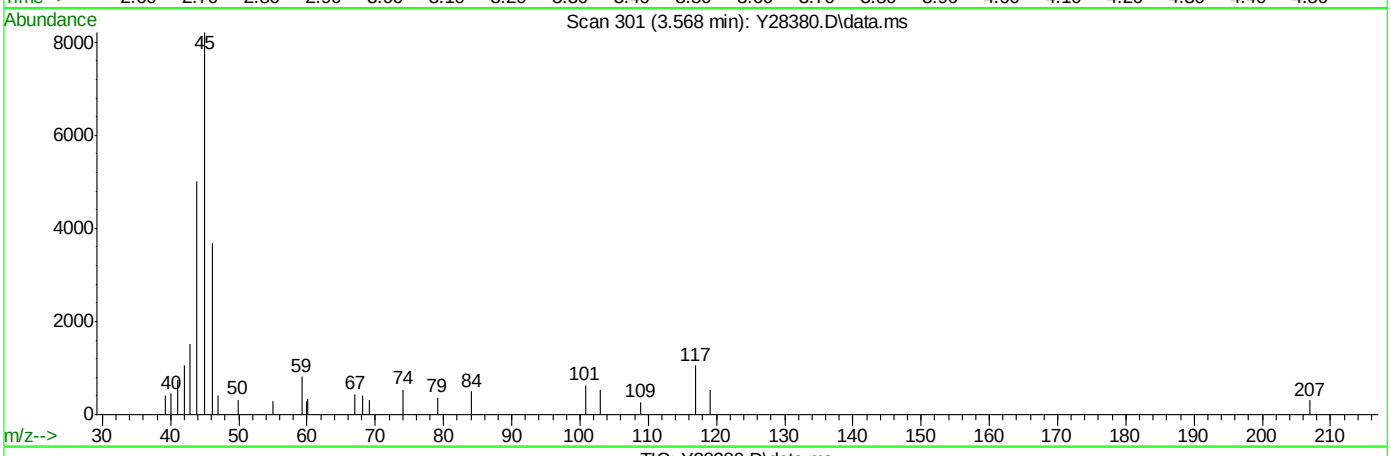
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.57	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28380.D
Acq On : 6 May 2016 12:52 pm
Operator : ericp
Sample : IC1149-3 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 13:16:34 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:54:07 2016
Response via : Initial Calibration





TIC: Y28380.D\data.ms

(104) Ethanol

3.568min (-0.007) 345.87ug/Kg

response 19304

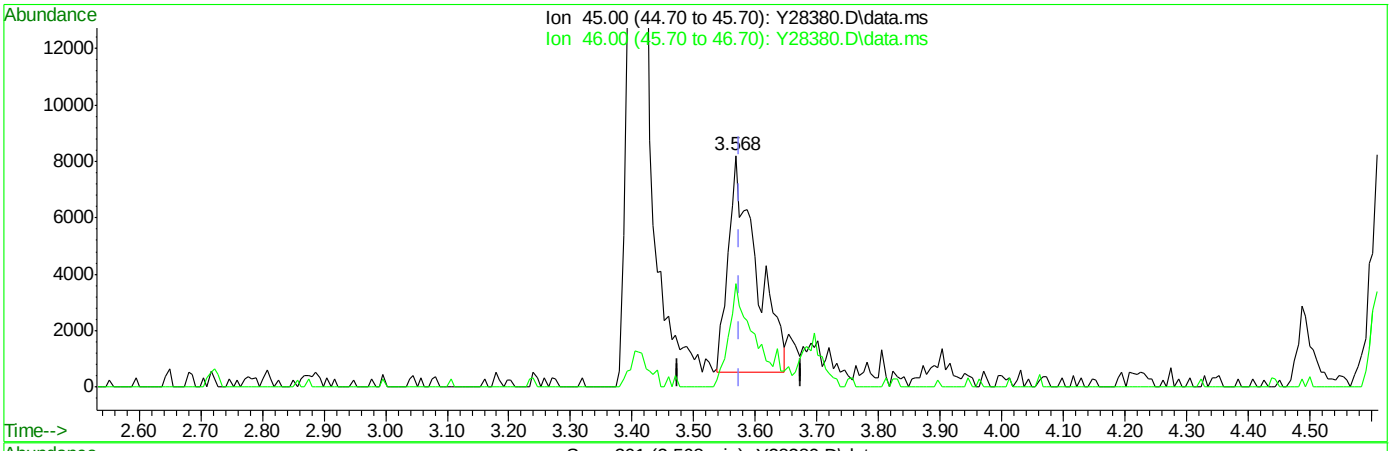
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	47.88
0.00	0.00	0.00
0.00	0.00	0.00

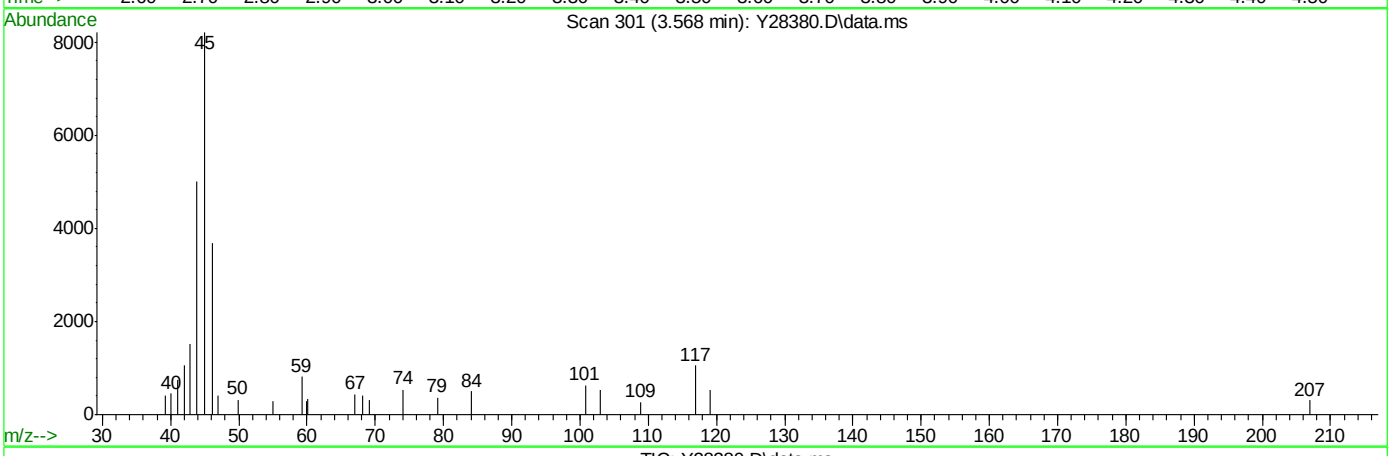
SGS ACCUTEST FA33998

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28380.D
Acq On : 6 May 2016 12:52 pm
Operator : ericp
Sample : IC1149-3 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 13:16:34 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 12:54:07 2016
Response via : Initial Calibration





TIC: Y28380.D\data.ms

(104) Ethanol

3.568min (-0.007) 430.97ug/Kg m

response 24054

Ion	Exp%	Act%
45.00	100	100
46.00	41.20	44.76
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28381.D
Acq On : 6 May 2016 1:18 pm
Operator : ericp
Sample : ICC1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 13:43:49 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 13:43:40 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1008114	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	662781	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	309583	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	102557	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	6.240	113	234769	50.21	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.42%			
44) 1,2-Dichloroethane-d4	6.818	65	238691	47.72	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.44%			
55) Toluene-d8	8.746	98	929573	49.86	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.72%			
77) 4-Bromofluorobenzene	11.533	174	205081	48.61	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.22%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.982	85	564959	53.77	ug/Kg	96
3) Chloromethane	2.201	50	556657	51.34	ug/Kg	98
4) Vinyl Chloride	2.322	62	567610	53.61	ug/Kg	96
5) Bromomethane	2.718	94	262847	51.02	ug/Kg	96
6) Chloroethane	2.882	64	277217	51.08	ug/Kg	97
7) Trichlorofluoromethane	3.052	101	546084	54.09	ug/Kg	97
8) Ethyl Ether	3.405	59	265132	53.71	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.636	67	448226	50.88	ug/Kg	98
10) 1,1-Dichloroethene	3.648	61	598423	52.38	ug/Kg	91
11) Freon 113	3.703	101	419231	51.96	ug/Kg	97
12) Carbon Disulfide	3.691	76	1301607	52.67	ug/Kg	99
13) Iodomethane	3.807	142	547921	51.40	ug/Kg	95
14) Allyl chloride	4.178	41	497231	51.56	ug/Kg	91
15) Methylene Chloride	4.293	49	439953	50.17	ug/Kg	93
16) Acetone	4.348	43	425758	243.13	ug/Kg	94
17) Methyl acetate	4.488	43	805376	250.25	ug/Kg	94
18) trans-1,2-Dichloroethene	4.488	61	487071	54.17	ug/Kg	98
19) Hexane	4.585	56	335128	46.44	ug/Kg	89
20) Methyl Tert Butyl Ether	4.610	73	869521	50.79	ug/Kg#	29
21) Acetonitrile	4.847	41	288819	521.70	ug/Kg	96
22) Di-isopropyl ether	5.029	45	984436	51.48	ug/Kg	92
23) Chloroprene	5.139	53	568326	52.88	ug/Kg	96
24) 1,1-Dichloroethane	5.157	63	626305	51.30	ug/Kg	99
25) Acrylonitrile	5.200	53	469558	251.21	ug/Kg	99
26) ETBE	5.425	59	990221	51.70	ug/Kg	95
27) Vinyl acetate	5.419	43	2432846	243.66	ug/Kg	94
28) cis-1,2-Dichloroethene	5.753	96	401631	53.10	ug/Kg	96
29) 2,2-Dichloropropane	5.869	77	284711	50.31	ug/Kg	100
30) Bromochloromethane	5.966	128	168558	53.46	ug/Kg	90
31) Cyclohexane	6.003	84	676478	54.20	ug/Kg	92
32) Chloroform	6.045	83	654284	53.77	ug/Kg	96
33) Ethyl acetate	6.161	43	1022674	251.95	ug/Kg	95
34) Tetrahydrofuran	6.234	42	69181	45.18	ug/Kg	94
36) Carbon Tetrachloride	6.222	117	447775	53.69	ug/Kg	98

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28381.D
Acq On : 6 May 2016 1:18 pm
Operator : ericp
Sample : ICC1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 13:43:49 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 13:43:40 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.283	97	508676	54.12	ug/Kg	98
38) 2-Butanone	6.368	43	582682	251.94	ug/Kg	91
39) 1,1-Dichloropropene	6.416	75	516372	53.00	ug/Kg	95
40) Propionitrile	6.678	54	345683	492.22	ug/Kg	81
41) Methacrylonitrile	6.702	41	1251787	498.72	ug/Kg	93
42) Benzene	6.684	78	1470490	52.38	ug/Kg	94
43) TAME	6.806	73	929469	52.27	ug/Kg	95
45) 1,2-Dichloroethane	6.891	62	382415	50.20	ug/Kg	97
46) Trichloroethene	7.311	95	378542	53.56	ug/Kg	98
47) Methylcyclohexane	7.317	83	742138	53.77	ug/Kg	95
48) Dibromomethane	7.749	93	167021	50.93	ug/Kg	98
49) 1,2-Dichloropropane	7.840	63	338678	50.97	ug/Kg	95
50) Bromodichloromethane	7.907	83	405082	50.98	ug/Kg	97
51) Methyl methacrylate	8.053	41	155531	49.90	ug/Kg	95
52) 2-Chloroethyl vinyl ether	8.467	63	785058	249.52	ug/Kg	96
53) cis-1,3-Dichloropropene	8.552	75	516234	52.78	ug/Kg	99
56) Toluene	8.795	91	1449439	51.40	ug/Kg	96
57) 2-Nitropropane	9.002	41	257622	245.45	ug/Kg	94
58) 4-Methyl-2-pentanone	9.154	43	1061008	250.26	ug/Kg	92
59) trans-1,3-Dichloropropene	9.203	75	396858	54.04	ug/Kg	97
60) Tetrachloroethene	9.203	166	336464	53.66	ug/Kg	97
61) Ethyl methacrylate	9.349	69	286318	51.92	ug/Kg	92
62) 1,1,2-Trichloroethane	9.367	83	216579	51.98	ug/Kg	97
63) Dibromochloromethane	9.555	129	257845	53.46	ug/Kg	98
64) 1,3-Dichloropropane	9.641	76	437694	50.15	ug/Kg	99
65) 1,2-Dibromoethane	9.805	107	229048	51.39	ug/Kg	99
66) 2-hexanone	9.987	43	715037	247.66	ug/Kg	91
67) 1-Chlorohexane	10.286	91	448757	53.12	ug/Kg	93
68) Ethylbenzene	10.340	91	1541281	52.73	ug/Kg	95
69) Chlorobenzene	10.328	112	884778	51.85	ug/Kg	98
70) 1,1,1,2-Tetrachloroethane	10.383	131	291392	53.46	ug/Kg	98
71) m,p-Xylene	10.486	91	2250720	104.09	ug/Kg	94
72) o-Xylene	10.918	91	1159461	53.13	ug/Kg	98
73) Styrene	10.973	104	862679	49.93	ug/Kg	98
74) Bromoform	11.016	173	132445	52.48	ug/Kg	99
75) Isopropylbenzene	11.235	105	1453714	53.69	ug/Kg	95
78) cis-1,4-Dichloro-2-butene	11.575	53	76749	48.55	ug/Kg	98
79) n-Propylbenzene	11.654	91	1693371	52.59	ug/Kg	94
80) Bromobenzene	11.648	156	321418	53.47	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.715	83	311906	49.68	ug/Kg	96
82) 1,3,5-Trimethylbenzene	11.843	105	1321733	54.55	ug/Kg	95
83) 2-Chlorotoluene	11.825	91	1175694	53.70	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.892	53	79189	49.72	ug/Kg	95
85) 1,2,3-Trichloropropane	11.861	110	82157	49.92	ug/Kg	97
86) Cyclohexanone	11.910	55	67392	227.22	ug/Kg	96
87) 4-Chlorotoluene	11.995	91	1048891	53.01	ug/Kg	97
88) tert-Butylbenzene	12.177	91	767994	54.28	ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.244	105	1271710	55.57	ug/Kg	97
90) Pentachloroethane	12.214	167	184814	53.11	ug/Kg	93
91) sec-Butylbenzene	12.360	105	1699347	54.25	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28381.D
Acq On : 6 May 2016 1:18 pm
Operator : ericp
Sample : ICC1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 13:43:49 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 13:43:40 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	1385519	55.27	ug/Kg	98
93) 1,3-Dichlorobenzene	12.603	146	637800	52.72	ug/Kg	97
94) 1,4-Dichlorobenzene	12.695	146	635025	50.70	ug/Kg	98
95) n-Butylbenzene	12.938	92	802874	56.11	ug/Kg	86
96) Benzyl Chloride	12.938	126	123025	55.74	ug/Kg#	71
97) 1,2-Dichlorobenzene	13.133	146	602975	52.38	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.948	75	58634	53.97	ug/Kg	95
99) Hexachlorobutadiene	14.556	225	238814	53.87	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.593	180	433770	55.55	ug/Kg	99
101) Naphthalene	14.872	128	981743	56.89	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.037	180	412973	53.90	ug/Kg	96
104) Ethanol	3.575	45	55033	993.28	ug/Kg	99
105) Acrolein	4.013	56	245741	254.90	ug/Kg	97
106) Tert butyl alcohol	4.713	59	297510	505.94	ug/Kg	88
107) Isobutyl alcohol	6.897	42	132533	1058.28	ug/Kg	93
108) Tert Amyl Alcohol	7.000	59	237462	525.49	ug/Kg	95
109) 1,4-Dioxane	8.114	88	59776	1137.34	ug/Kg	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

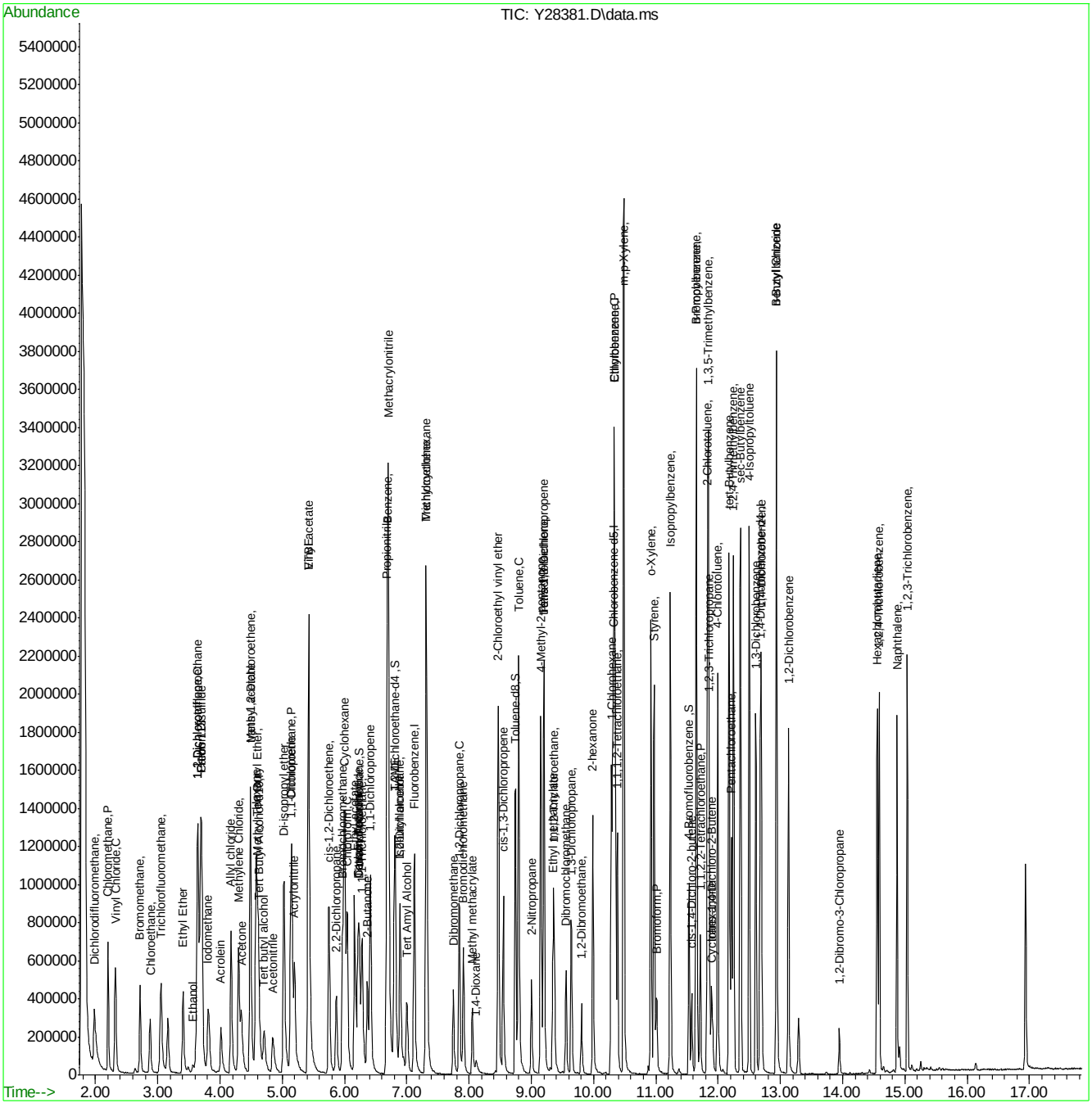
7.6.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28381.D
Acq On : 6 May 2016 1:18 pm
Operator : ericp
Sample : ICC1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 13:43:49 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 13:43:40 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28382.D
Acq On : 6 May 2016 1:45 pm
Operator : ericp
Sample : IC1149-5 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 14:04:08 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:04:03 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.119	96	993530	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.307	117	667443	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.679	152	317791	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.631	65	106835	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.243	113	226860	49.39	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.78%			
44) 1,2-Dichloroethane-d4	6.821	65	240569	49.04	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.08%			
55) Toluene-d8	8.743	98	943993	50.23	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.46%			
77) 4-Bromofluorobenzene	11.535	174	218066	50.28	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.56%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.984	85	1035026	99.96	ug/Kg	98
3) Chloromethane	2.203	50	1020480	96.37	ug/Kg	97
4) Vinyl Chloride	2.319	62	1043134	99.97	ug/Kg	98
5) Bromomethane	2.714	94	473811	94.58	ug/Kg	96
6) Chloroethane	2.879	64	413395	80.96	ug/Kg	98
7) Trichlorofluoromethane	3.049	101	985672	99.25	ug/Kg	97
8) Ethyl Ether	3.408	59	522769	105.88	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.639	67	860790	99.32	ug/Kg	99
10) 1,1-Dichloroethene	3.651	61	1167263	102.94	ug/Kg	93
11) Freon 113	3.706	101	774396	97.90	ug/Kg	98
12) Carbon Disulfide	3.694	76	2374186	97.97	ug/Kg	98
13) Iodomethane	3.822	142	1031555	98.63	ug/Kg	96
14) Allyl chloride	4.174	41	925797	97.83	ug/Kg	93
15) Methylene Chloride	4.296	49	825116	100.80	ug/Kg	94
16) Acetone	4.345	43	818211	479.06	ug/Kg	94
17) Methyl acetate	4.485	43	1654985	517.28	ug/Kg	93
18) trans-1,2-Dichloroethene	4.485	61	878992	99.36	ug/Kg	98
19) Hexane	4.582	56	635380	91.29	ug/Kg	87
20) Methyl Tert Butyl Ether	4.612	73	1689486	100.18	ug/Kg#	27
21) Acetonitrile	4.850	41	553949	1012.70	ug/Kg	98
22) Di-isopropyl ether	5.026	45	1937178	102.22	ug/Kg	93
23) Chloroprene	5.142	53	1088398	102.20	ug/Kg	97
24) 1,1-Dichloroethane	5.160	63	1178504	98.35	ug/Kg	98
25) Acrylonitrile	5.196	53	920868	499.92	ug/Kg	99
26) ETBE	5.428	59	1900750	100.61	ug/Kg	98
27) Vinyl acetate	5.422	43	4510192	466.28	ug/Kg	92
28) cis-1,2-Dichloroethene	5.750	96	727959	98.11	ug/Kg	95
29) 2,2-Dichloropropane	5.872	77	477928	88.22	ug/Kg	98
30) Bromochloromethane	5.963	128	319831	102.33	ug/Kg#	87
31) Cyclohexane	5.999	84	1232276	100.15	ug/Kg	95
32) Chloroform	6.042	83	1176488	98.48	ug/Kg	99
33) Ethyl acetate	6.164	43	2061485	513.69	ug/Kg	93
34) Tetrahydrofuran	6.237	42	141789	95.11	ug/Kg	98
36) Carbon Tetrachloride	6.218	117	809490	98.79	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28382.D
Acq On : 6 May 2016 1:45 pm
Operator : ericp
Sample : IC1149-5 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 14:04:08 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:04:03 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.279	97	888402	96.69	ug/Kg	97
38) 2-Butanone	6.364	43	1181613	514.62	ug/Kg	96
39) 1,1-Dichloropropene	6.413	75	944888	98.72	ug/Kg	97
40) Propionitrile	6.681	54	704118	1013.80	ug/Kg	75
41) Methacrylonitrile	6.705	41	2470839	999.08	ug/Kg	91
42) Benzene	6.681	78	2617012	95.62	ug/Kg	97
43) TAME	6.809	73	1771161	100.87	ug/Kg	97
45) 1,2-Dichloroethane	6.894	62	728255	97.60	ug/Kg	95
46) Trichloroethene	7.307	95	682967	98.44	ug/Kg	98
47) Methylcyclohexane	7.314	83	1354386	99.66	ug/Kg	99
48) Dibromomethane	7.745	93	333983	102.65	ug/Kg	95
49) 1,2-Dichloropropane	7.843	63	682783	103.40	ug/Kg	97
50) Bromodichloromethane	7.910	83	803473	102.07	ug/Kg	95
51) Methyl methacrylate	8.056	41	380374	100.33	ug/Kg	88
52) 2-Chloroethyl vinyl ether	8.469	63	1672686	500.93	ug/Kg	98
53) cis-1,3-Dichloropropene	8.548	75	1011806	103.93	ug/Kg	98
56) Toluene	8.798	91	2658038	94.81	ug/Kg	93
57) 2-Nitropropane	9.005	41	561406	524.62	ug/Kg	96
58) 4-Methyl-2-pentanone	9.157	43	2183507	509.09	ug/Kg	91
59) trans-1,3-Dichloropropene	9.205	75	787810	105.15	ug/Kg	98
60) Tetrachloroethene	9.205	166	623148	98.95	ug/Kg	98
61) Ethyl methacrylate	9.345	69	645786	112.61	ug/Kg	95
62) 1,1,2-Trichloroethane	9.364	83	424441	100.92	ug/Kg	94
63) Dibromochloromethane	9.558	129	517320	105.14	ug/Kg	100
64) 1,3-Dichloropropane	9.643	76	883309	100.39	ug/Kg	98
65) 1,2-Dibromoethane	9.802	107	466838	103.18	ug/Kg	98
66) 2-hexanone	9.990	43	1625603	546.32	ug/Kg	91
67) 1-Chlorohexane	10.288	91	907546	105.27	ug/Kg	92
68) Ethylbenzene	10.343	91	2827151	96.81	ug/Kg	92
69) Chlorobenzene	10.325	112	1630005	95.84	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.386	131	552007	100.45	ug/Kg	97
71) m,p-Xylene	10.483	91	4019717	187.48	ug/Kg	89
72) o-Xylene	10.921	91	2234879	101.35	ug/Kg	97
73) Styrene	10.970	104	1703862	99.80	ug/Kg	96
74) Bromoform	11.012	173	278391	107.49	ug/Kg	96
75) Isopropylbenzene	11.231	105	2697140	99.13	ug/Kg	93
78) cis-1,4-Dichloro-2-butene	11.578	53	171620	104.56	ug/Kg	97
79) n-Propylbenzene	11.651	91	3089204	94.70	ug/Kg	92
80) Bromobenzene	11.651	156	609621	99.03	ug/Kg	96
81) 1,1,2,2-Tetrachloroethane	11.718	83	622316	97.23	ug/Kg	95
82) 1,3,5-Trimethylbenzene	11.846	105	2420202	97.83	ug/Kg	93
83) 2-Chlorotoluene	11.827	91	2180768	97.62	ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.894	53	170136	103.23	ug/Kg	91
85) 1,2,3-Trichloropropane	11.864	110	172072	101.47	ug/Kg	95
86) Cyclohexanone	11.913	55	150655	495.86	ug/Kg	97
87) 4-Chlorotoluene	11.992	91	1999517	98.76	ug/Kg	97
88) tert-Butylbenzene	12.174	91	1499269	102.56	ug/Kg	99
89) 1,2,4-Trimethylbenzene	12.247	105	2390870	101.42	ug/Kg	94
90) Pentachloroethane	12.217	167	349889	98.35	ug/Kg	93
91) sec-Butylbenzene	12.357	105	3100137	97.11	ug/Kg	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28382.D
Acq On : 6 May 2016 1:45 pm
Operator : ericp
Sample : IC1149-5 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 14:04:08 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:04:03 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.497	119	2583077	100.30	ug/Kg	96
93) 1,3-Dichlorobenzene	12.606	146	1220384	98.61	ug/Kg	98
94) 1,4-Dichlorobenzene	12.697	146	1224167	96.14	ug/Kg	96
95) n-Butylbenzene	12.941	92	1534391	103.55	ug/Kg	80
96) Benzyl Chloride	12.935	126	245460	106.56	ug/Kg#	37
97) 1,2-Dichlorobenzene	13.135	146	1152270	97.99	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.945	75	117631	104.33	ug/Kg	98
99) Hexachlorobutadiene	14.553	225	443439	97.94	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.589	180	811930	101.03	ug/Kg	99
101) Naphthalene	14.875	128	1844156	103.26	ug/Kg	98
102) 1,2,3-Trichlorobenzene	15.040	180	764769	97.77	ug/Kg	97
104) Ethanol	3.584	45	114036	1998.78	ug/Kg	87
105) Acrolein	4.016	56	484048	485.48	ug/Kg	96
106) Tert butyl alcohol	4.710	59	593230	974.60	ug/Kg	98
107) Isobutyl alcohol	6.900	42	284061	2139.46	ug/Kg	92
108) Tert Amyl Alcohol	7.009	59	498298	1046.01	ug/Kg	94
109) 1,4-Dioxane	8.123	88	131799	2313.07	ug/Kg	97

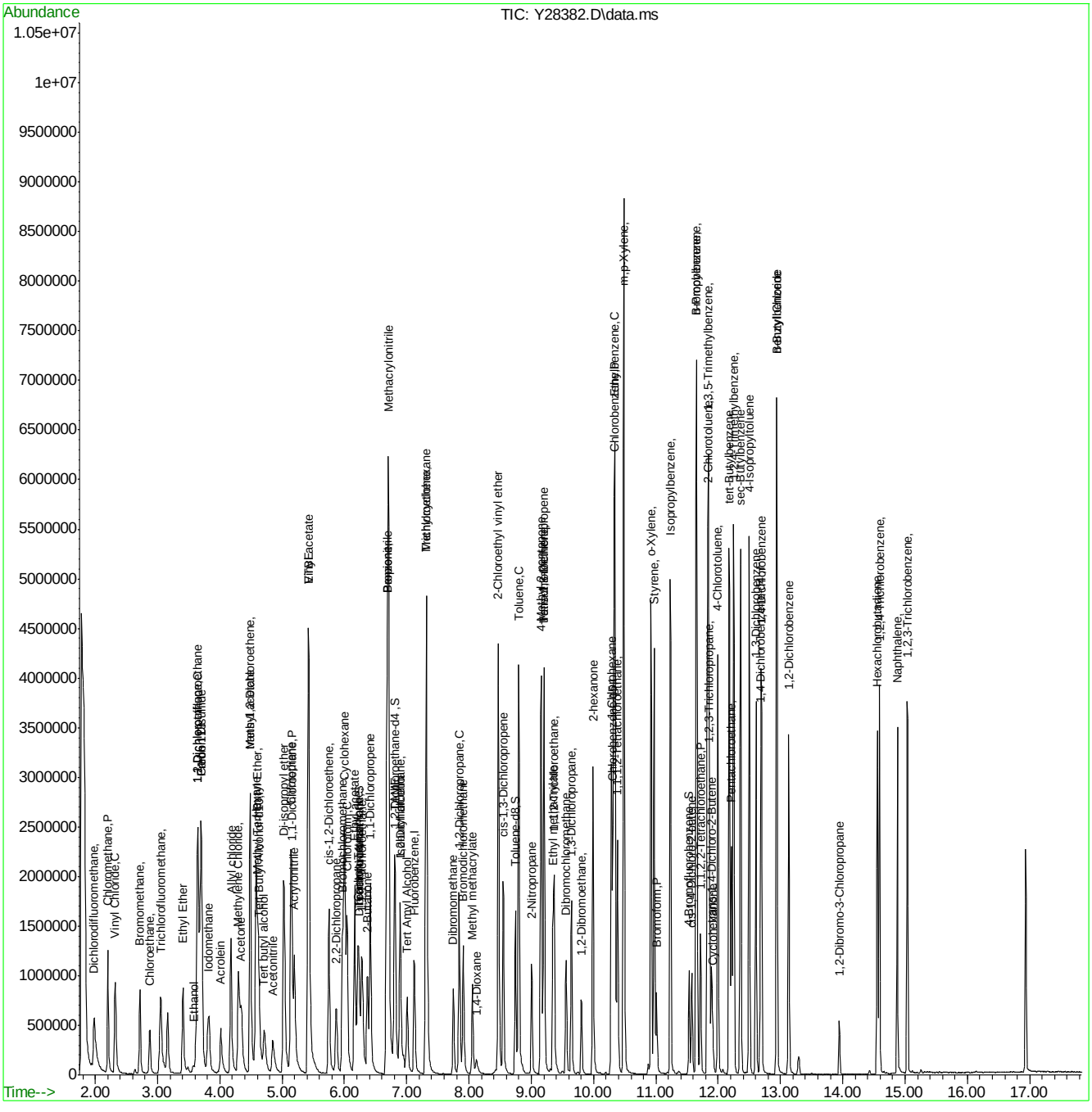
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28382.D
Acq On : 6 May 2016 1:45 pm
Operator : ericp
Sample : IC1149-5 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 14:04:08 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:04:03 2016
Response via : Initial Calibration



050616APP9-Y.m Sat May 07 06:05:27 2016 Page: 4

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28383.D
Acq On : 6 May 2016 2:11 pm
Operator : ericp
Sample : IC1149-6 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 06 14:51:25 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:05:12 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.118	96	1040351	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.306	117	693230	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.679	152	329594	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.636	65	104392	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	239862	49.86	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.72%			
44) 1,2-Dichloroethane-d4	6.820	65	242918	47.29	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 94.58%			
55) Toluene-d8	8.743	98	980064	50.20	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.40%			
77) 4-Bromofluorobenzene	11.535	174	229467	51.02	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.04%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.984	85	1585766	146.26	ug/Kg	98
3) Chloromethane	2.203	50	1541824	139.05	ug/Kg	95
4) Vinyl Chloride	2.324	62	1611340	147.48	ug/Kg	98
5) Bromomethane	2.714	94	708281	135.03	ug/Kg	95
6) Chloroethane	2.872	64	410809	76.83	ug/Kg	92
7) Trichlorofluoromethane	3.048	101	1503699	144.59	ug/Kg	97
8) Ethyl Ether	3.407	59	791202	153.04	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.639	67	1296989	142.92	ug/Kg	96
10) 1,1-Dichloroethene	3.645	61	1770757	149.10	ug/Kg	95
11) Freon 113	3.705	101	1164065	140.54	ug/Kg	96
12) Carbon Disulfide	3.687	76	3613255	142.40	ug/Kg	97
13) Iodomethane	3.815	142	1584533	144.57	ug/Kg	98
14) Allyl chloride	4.180	41	1437025	145.16	ug/Kg	91
15) Methylene Chloride	4.296	49	1228825	158.68	ug/Kg	91
16) Acetone	4.344	43	1237685	692.05	ug/Kg	97
17) Methyl acetate	4.484	43	2389726	713.32	ug/Kg	93
18) trans-1,2-Dichloroethene	4.484	61	1358874	146.69	ug/Kg	98
19) Hexane	4.581	56	972088	133.38	ug/Kg	90
20) Methyl Tert Butyl Ether	4.612	73	2533706	143.37	ug/Kg#	27
21) Acetonitrile	4.849	41	831710	1451.34	ug/Kg	96
22) Di-isopropyl ether	5.026	45	2891057	145.69	ug/Kg	91
23) Chloroprene	5.135	53	1679521	150.60	ug/Kg	98
24) 1,1-Dichloroethane	5.159	63	1782055	142.03	ug/Kg	96
25) Acrylonitrile	5.196	53	1366381	708.39	ug/Kg	98
26) ETBE	5.427	59	2784425	140.68	ug/Kg	98
27) Vinyl acetate	5.421	43	6138058	605.80	ug/Kg	88
28) cis-1,2-Dichloroethene	5.749	96	1174365	151.15	ug/Kg	96
29) 2,2-Dichloropropane	5.871	77	748276	131.90	ug/Kg	97
30) Bromochloromethane	5.962	128	500001	152.78	ug/Kg#	83
31) Cyclohexane	5.999	84	1977604	153.49	ug/Kg	94
32) Chloroform	6.041	83	1838818	147.00	ug/Kg	98
33) Ethyl acetate	6.163	43	2994898	710.62	ug/Kg	91
34) Tetrahydrofuran	6.236	42	210319	134.73	ug/Kg	92
36) Carbon Tetrachloride	6.218	117	1279146	149.08	ug/Kg	98

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28383.D
Acq On : 6 May 2016 2:11 pm
Operator : ericp
Sample : IC1149-6 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 06 14:51:25 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:05:12 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.279	97	1414884	147.07 ug/Kg	99
38) 2-Butanone	6.364	43	1727906	718.67 ug/Kg	93
39) 1,1-Dichloropropene	6.413	75	1505010	150.17 ug/Kg	97
40) Propionitrile	6.674	54	1017721	1399.38 ug/Kg	93
41) Methacrylonitrile	6.705	41	3585846	1384.68 ug/Kg	89
42) Benzene	6.680	78	3935548	137.32 ug/Kg	100
43) TAME	6.802	73	2727156	148.30 ug/Kg	97
45) 1,2-Dichloroethane	6.893	62	1103507	141.22 ug/Kg	95
46) Trichloroethene	7.307	95	1054497	145.15 ug/Kg	99
47) Methylcyclohexane	7.319	83	2126684	149.44 ug/Kg	95
48) Dibromomethane	7.745	93	499721	146.67 ug/Kg	99
49) 1,2-Dichloropropane	7.842	63	1013020	146.49 ug/Kg	95
50) Bromodichloromethane	7.909	83	1190299	144.41 ug/Kg	94
51) Methyl methacrylate	8.049	41	538297	126.09 ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.469	63	2361564	650.87 ug/Kg	96
53) cis-1,3-Dichloropropene	8.548	75	1541275	151.20 ug/Kg	98
56) Toluene	8.797	91	3917419	134.53 ug/Kg	90
57) 2-Nitropropane	9.004	41	790870	711.55 ug/Kg	96
58) 4-Methyl-2-pentanone	9.150	43	2975263	667.89 ug/Kg	88
59) trans-1,3-Dichloropropene	9.205	75	1175362	151.04 ug/Kg	92
60) Tetrachloroethene	9.205	166	982138	150.15 ug/Kg	98
61) Ethyl methacrylate	9.345	69	932304	156.53 ug/Kg	92
62) 1,1,2-Trichloroethane	9.363	83	611322	139.94 ug/Kg	96
63) Dibromochloromethane	9.558	129	781520	152.93 ug/Kg	100
64) 1,3-Dichloropropane	9.643	76	1302804	142.56 ug/Kg	97
65) 1,2-Dibromoethane	9.801	107	685312	145.84 ug/Kg	98
66) 2-hexanone	9.984	43	2150978	695.85 ug/Kg	89
67) 1-Chlorohexane	10.288	91	1392823	155.55 ug/Kg	88
68) Ethylbenzene	10.342	91	4065234	134.03 ug/Kg	87
69) Chlorobenzene	10.324	112	2421897	137.10 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.385	131	851872	149.25 ug/Kg	97
71) m,p-Xylene	10.482	91	5565097	249.91 ug/Kg	81
72) o-Xylene	10.920	91	3280408	143.23 ug/Kg	91
73) Styrene	10.969	104	2529865	155.48 ug/Kg	94
74) Bromoform	11.012	173	421579	156.72 ug/Kg	98
75) Isopropylbenzene	11.231	105	3970893	140.52 ug/Kg	89
78) cis-1,4-Dichloro-2-butene	11.577	53	240224	141.11 ug/Kg	93
79) n-Propylbenzene	11.650	91	4404852	130.20 ug/Kg	87
80) Bromobenzene	11.644	156	938153	146.94 ug/Kg	95
81) 1,1,2,2-Tetrachloroethane	11.711	83	899000	135.42 ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.845	105	3591340	139.98 ug/Kg	88
83) 2-Chlorotoluene	11.827	91	3262630	140.81 ug/Kg	94
84) trans-1,4-Dichloro-2-B...	11.894	53	235499	137.77 ug/Kg	91
85) 1,2,3-Trichloropropane	11.863	110	248707	141.41 ug/Kg	93
86) Cyclohexanone	11.912	55	205430	651.93 ug/Kg	96
87) 4-Chlorotoluene	11.991	91	2975629	141.70 ug/Kg	93
88) tert-Butylbenzene	12.174	91	2251072	148.48 ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.247	105	3505638	143.38 ug/Kg	90
90) Pentachloroethane	12.210	167	538767	146.02 ug/Kg#	87
91) sec-Butylbenzene	12.362	105	4468596	134.96 ug/Kg	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28383.D
Acq On : 6 May 2016 2:11 pm
Operator : ericp
Sample : IC1149-6 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 06 14:51:25 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:05:12 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.496	119	3760754	140.80	ug/Kg	91
93) 1,3-Dichlorobenzene	12.606	146	1812547	141.21	ug/Kg	96
94) 1,4-Dichlorobenzene	12.697	146	1822175	137.98	ug/Kg	96
95) n-Butylbenzene	12.940	92	2281764	148.47	ug/Kg#	70
96) Benzyl Chloride	12.934	126	361358	151.25	ug/Kg#	23
97) 1,2-Dichlorobenzene	13.135	146	1715643	140.68	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.944	75	173509	148.38	ug/Kg	95
99) Hexachlorobutadiene	14.558	225	674425	143.63	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.589	180	1223352	146.77	ug/Kg	98
101) Naphthalene	14.875	128	2641683	142.62	ug/Kg	95
102) 1,2,3-Trichlorobenzene	15.039	180	1138083	140.29	ug/Kg	98
104) Ethanol	3.584	45	171135	3041.85	ug/Kg	99
105) Acrolein	4.016	56	723225	742.34	ug/Kg	99
106) Tert butyl alcohol	4.715	59	872564	1467.05	ug/Kg	91
107) Isobutyl alcohol	6.893	42	403290	3108.54	ug/Kg	93
108) Tert Amyl Alcohol	7.003	59	732935	1574.99	ug/Kg	94
109) 1,4-Dioxane	8.116	88	189555	3404.54	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.16

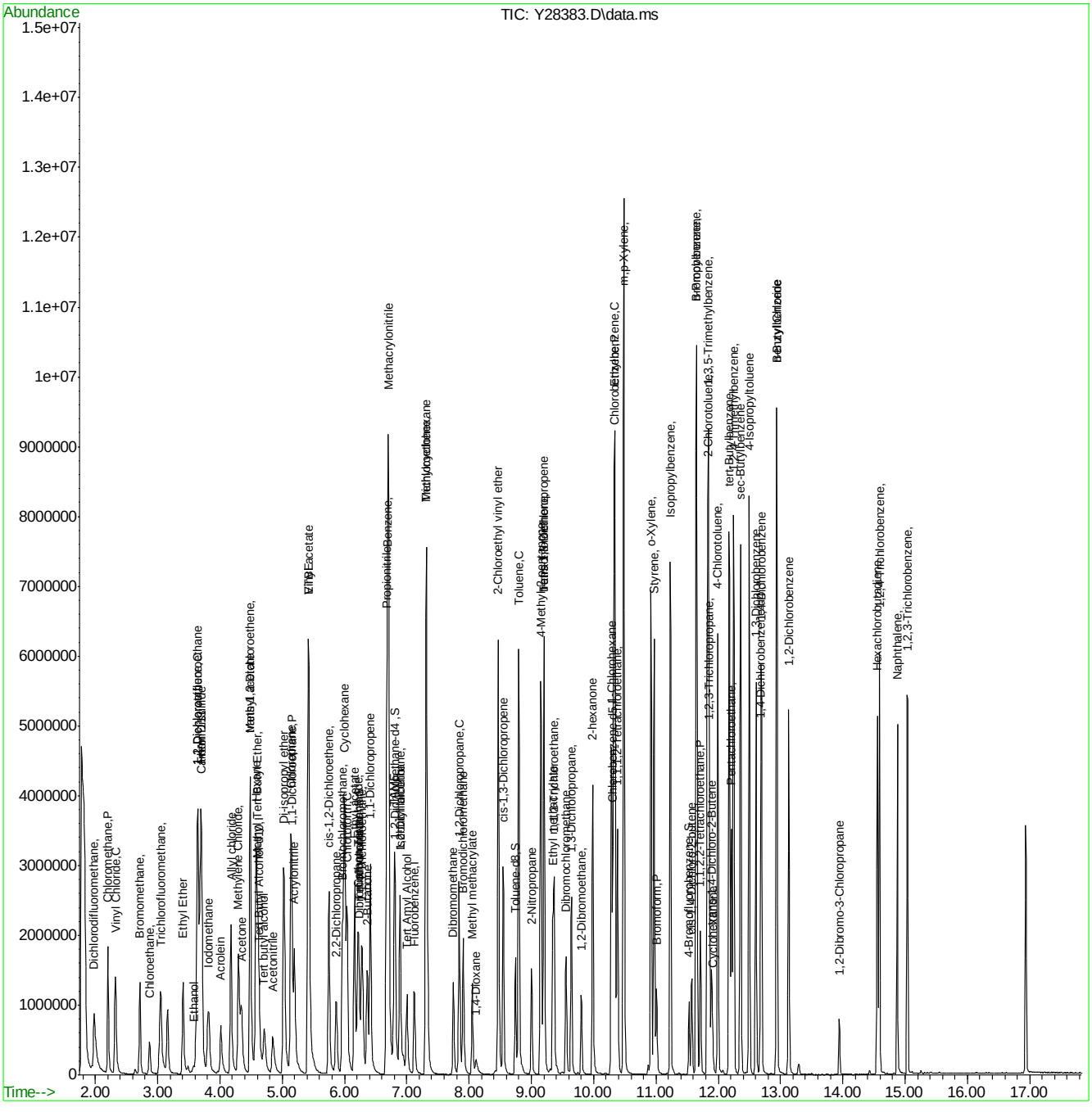
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28383.D
Acq On : 6 May 2016 2:11 pm
Operator : ericp
Sample : IC1149-6 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 06 14:51:25 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:05:12 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28384.D
Acq On : 6 May 2016 2:38 pm
Operator : ericp
Sample : IC1149-7 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 06 14:56:28 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:52:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	998575	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	682932	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.677	152	346444	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.646	65	102765	250.00	ug/Kg	0.01

System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	224507	48.65	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.30%			
44) 1,2-Dichloroethane-d4	6.818	65	241581	49.44	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.88%			
55) Toluene-d8	8.747	98	961879	49.98	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.96%			
77) 4-Bromofluorobenzene	11.533	174	229042	48.28	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 96.56%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.982	85	2075939	200.31	ug/Kg	98
3) Chloromethane	2.201	50	1963254	186.74	ug/Kg	95
4) Vinyl Chloride	2.322	62	2102605	201.06	ug/Kg	96
5) Bromomethane	2.718	94	907196	183.23	ug/Kg	95
6) Chloroethane	2.870	64	449617	Below Cal		89
7) Trichlorofluoromethane	3.040	101	1905455	192.04	ug/Kg	99
8) Ethyl Ether	3.411	59	1041111	209.10	ug/Kg	96
9) 1,2-Dichlorotrifluoroe...	3.643	67	1664903	192.65	ug/Kg	95
10) 1,1-Dichloroethene	3.649	61	2380701	209.05	ug/Kg	93
11) Freon 113	3.703	101	1496526	190.24	ug/Kg	96
12) Carbon Disulfide	3.691	76	4556487	188.67	ug/Kg	94
13) Iodomethane	3.825	142	2061381	197.14	ug/Kg	96
14) Allyl chloride	4.178	41	1816997	192.25	ug/Kg	90
15) Methylene Chloride	4.293	49	1602976	227.34	ug/Kg	94
16) Acetone	4.348	43	1663865	981.92	ug/Kg	95
17) Methyl acetate	4.488	43	3099281	971.74	ug/Kg	91
18) trans-1,2-Dichloroethene	4.488	61	1751822	197.74	ug/Kg	96
19) Hexane	4.579	56	1245622	181.41	ug/Kg	86
20) Methyl Tert Butyl Ether	4.616	73	3312792	196.75	ug/Kg#	26
21) Acetonitrile	4.853	41	1119977	2047.20	ug/Kg	95
22) Di-isopropyl ether	5.030	45	3773773	199.09	ug/Kg	89
23) Chloroprene	5.139	53	2142817	200.05	ug/Kg	95
24) 1,1-Dichloroethane	5.157	63	2274777	190.57	ug/Kg	94
25) Acrylonitrile	5.200	53	1834934	1000.36	ug/Kg	96
26) ETBE	5.431	59	3650905	194.18	ug/Kg	97
27) Vinyl acetate	5.419	43	7781129	826.58	ug/Kg	84
28) cis-1,2-Dichloroethene	5.747	96	1464807	196.17	ug/Kg	98
29) 2,2-Dichloropropane	5.869	77	876442	164.26	ug/Kg	99
30) Bromochloromethane	5.966	128	624707	198.26	ug/Kg#	86
31) Cyclohexane	6.003	84	2474533	199.32	ug/Kg	93
32) Chloroform	6.046	83	2283553	190.82	ug/Kg	98
33) Ethyl acetate	6.161	43	3960743	987.75	ug/Kg	91
34) Tetrahydrofuran	6.240	42	274148	186.12	ug/Kg	92
36) Carbon Tetrachloride	6.216	117	1649368	200.48	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28384.D
Acq On : 6 May 2016 2:38 pm
Operator : ericp
Sample : IC1149-7 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 06 14:56:28 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:52:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.283	97	1736734	188.69 ug/Kg	99
38) 2-Butanone	6.368	43	2333962	1018.45 ug/Kg	91
39) 1,1-Dichloropropene	6.417	75	1874683	194.84 ug/Kg	96
40) Propionitrile	6.684	54	1360642	1971.21 ug/Kg	75
41) Methacrylonitrile	6.709	41	4500472	1834.07 ug/Kg	87
42) Benzene	6.684	78	4816709	177.60 ug/Kg	99
43) TAME	6.806	73	3469791	196.95 ug/Kg	97
45) 1,2-Dichloroethane	6.891	62	1432233	192.83 ug/Kg	94
46) Trichloroethene	7.311	95	1328320	191.52 ug/Kg	95
47) Methylcyclohexane	7.317	83	2697035	197.57 ug/Kg	97
48) Dibromomethane	7.749	93	661838	203.13 ug/Kg	96
49) 1,2-Dichloropropane	7.846	63	1334108	201.78 ug/Kg	95
50) Bromodichloromethane	7.907	83	1571682	199.90 ug/Kg	96
51) Methyl methacrylate	8.053	41	781652	226.13 ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.473	63	3196491	1069.63 ug/Kg	96
53) cis-1,3-Dichloropropene	8.552	75	1999586	204.09 ug/Kg	95
56) Toluene	8.795	91	4910241	174.16 ug/Kg	87
57) 2-Nitropropane	9.008	41	1159835	1068.38 ug/Kg	95
58) 4-Methyl-2-pentanone	9.154	43	4029416	935.23 ug/Kg	85
59) trans-1,3-Dichloropropene	9.203	75	1558382	203.05 ug/Kg	98
60) Tetrachloroethene	9.203	166	1288926	199.99 ug/Kg	99
61) Ethyl methacrylate	9.349	69	1315064	222.50 ug/Kg	92
62) 1,1,2-Trichloroethane	9.367	83	814822	191.48 ug/Kg	96
63) Dibromochloromethane	9.556	129	1039681	205.85 ug/Kg	100
64) 1,3-Dichloropropane	9.647	76	1746016	195.56 ug/Kg	98
65) 1,2-Dibromoethane	9.805	107	939739	203.94 ug/Kg	99
66) 2-hexanone	9.988	43	3074746	1021.98 ug/Kg	87
67) 1-Chlorohexane	10.286	91	1870306	210.73 ug/Kg	94
68) Ethylbenzene	10.340	91	5062406	172.48 ug/Kg	83
69) Chlorobenzene	10.328	112	3128691	182.39 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.383	131	1114379	198.35 ug/Kg	97
71) m,p-Xylene	10.486	91	6685441	313.47 ug/Kg	72
72) o-Xylene	10.918	91	4214004	188.18 ug/Kg	92
73) Styrene	10.973	104	3336452	206.88 ug/Kg	92
74) Bromoform	11.016	173	575669	215.62 ug/Kg	97
75) Isopropylbenzene	11.235	105	4940243	179.35 ug/Kg	83
78) cis-1,4-Dichloro-2-butene	11.575	53	363335	205.07 ug/Kg	92
79) n-Propylbenzene	11.654	91	5481666	157.62 ug/Kg	79
80) Bromobenzene	11.648	156	1242690	185.81 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.715	83	1247715	181.76 ug/Kg	97
82) 1,3,5-Trimethylbenzene	11.843	105	4474631	167.79 ug/Kg	87
83) 2-Chlorotoluene	11.831	91	4191195	173.87 ug/Kg	92
84) trans-1,4-Dichloro-2-B...	11.892	53	348803	196.80 ug/Kg	91
85) 1,2,3-Trichloropropane	11.861	110	339786	185.58 ug/Kg	96
86) Cyclohexanone	11.916	55	310368	957.92 ug/Kg	95
87) 4-Chlorotoluene	11.995	91	3826198	174.96 ug/Kg	89
88) tert-Butylbenzene	12.178	91	2915621	183.27 ug/Kg	96
89) 1,2,4-Trimethylbenzene	12.251	105	4381280	171.74 ug/Kg	86
90) Pentachloroethane	12.214	167	693092	179.50 ug/Kg	97
91) sec-Butylbenzene	12.360	105	5569977	162.76 ug/Kg	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28384.D
Acq On : 6 May 2016 2:38 pm
Operator : ericp
Sample : IC1149-7 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 06 14:56:28 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:52:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	4736757	170.45	ug/Kg	84
93) 1,3-Dichlorobenzene	12.604	146	2421740	181.26	ug/Kg	92
94) 1,4-Dichlorobenzene	12.695	146	2431415	177.53	ug/Kg	94
95) n-Butylbenzene	12.938	92	2953104	183.11	ug/Kg#	64
96) Benzyl Chloride	12.938	126	506016	201.22	ug/Kg#	4
97) 1,2-Dichlorobenzene	13.133	146	2277437	179.52	ug/Kg	96
98) 1,2-Dibromo-3-Chloropr...	13.942	75	246540	200.94	ug/Kg	88
99) Hexachlorobutadiene	14.556	225	910392	185.77	ug/Kg	97
100) 1,2,4-Trichlorobenzene	14.587	180	1617719	185.31	ug/Kg	97
101) Naphthalene	14.873	128	3475167	179.96	ug/Kg	91
102) 1,2,3-Trichlorobenzene	15.037	180	1511652	179.21	ug/Kg	96
104) Ethanol	3.594	45	233996	4215.22	ug/Kg	90
105) Acrolein	4.020	56	964748	1007.64	ug/Kg	97
106) Tert butyl alcohol	4.719	59	1236466	2119.56	ug/Kg	94
107) Isobutyl alcohol	6.903	42	571604	4448.82	ug/Kg	94
108) Tert Amyl Alcohol	7.013	59	1031118	2232.24	ug/Kg	90
109) 1,4-Dioxane	8.120	88	269974	4817.43	ug/Kg	96

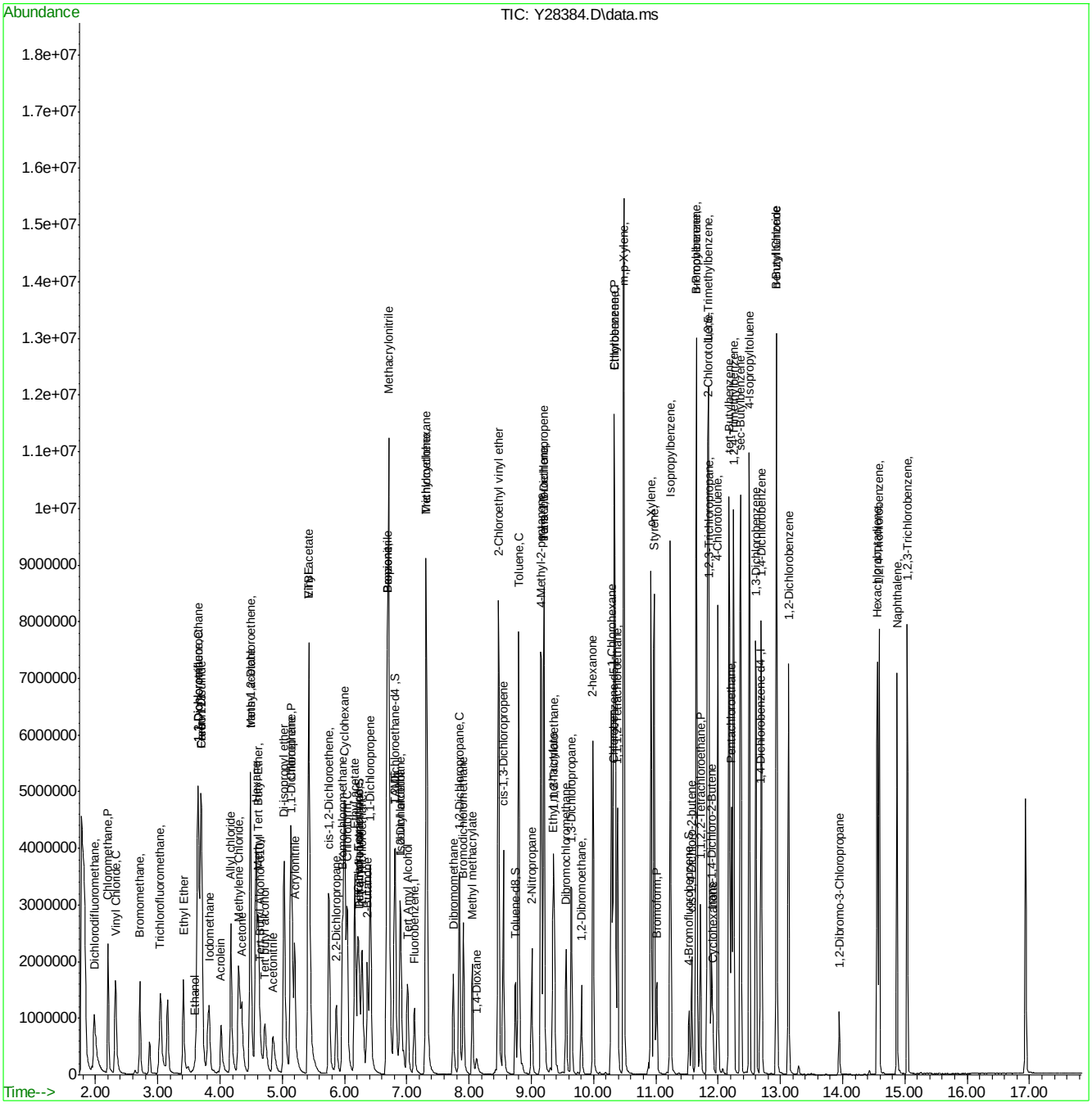
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28384.D
Acq On : 6 May 2016 2:38 pm
Operator : ericp
Sample : IC1149-7 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 06 14:56:28 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:52:48 2016
Response via : Initial Calibration



050616APP9-Y.m Sat May 07 06:05:33 2016 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28386.D
Acq On : 6 May 2016 3:38 pm
Operator : ericp
Sample : ICV1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 06 15:59:43 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1010362	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.311	117	671469	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.677	152	316480	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.623	65	111738	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.241	113	235815	50.70	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.40%			
44) 1,2-Dichloroethane-d4	6.819	65	238167	48.25	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.50%			
55) Toluene-d8	8.747	98	941487	49.76	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.52%			
77) 4-Bromofluorobenzene	11.533	174	213826	49.59	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.982	85	569576	54.31	ug/Kg	97
3) Chloromethane	2.201	50	563025	53.43	ug/Kg	98
4) Vinyl Chloride	2.317	62	574096	54.22	ug/Kg	99
5) Bromomethane	2.718	94	255420	51.60	ug/Kg	94
6) Chloroethane	2.877	64	271541	52.29	ug/Kg	97
7) Trichlorofluoromethane	3.053	101	543041	54.40	ug/Kg	99
8) Ethyl Ether	3.406	59	275851	54.40	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.643	67	472724	54.35	ug/Kg	95
10) 1,1-Dichloroethene	3.649	61	632751	54.56	ug/Kg	93
11) Freon 113	3.704	101	428512	54.22	ug/Kg	98
12) Carbon Disulfide	3.692	76	1331615	54.94	ug/Kg	100
13) Iodomethane	3.820	142	562566	53.28	ug/Kg	99
14) Allyl chloride	4.178	41	510947	53.73	ug/Kg	93
15) Methylene Chloride	4.300	49	440463	51.53	ug/Kg	90
16) Acetone	4.343	43	455018	266.08	ug/Kg	94
17) Methyl acetate	4.489	43	884211	275.11	ug/Kg	95
18) trans-1,2-Dichloroethene	4.489	61	487985	54.53	ug/Kg	95
19) Hexane	4.580	56	359653	52.46	ug/Kg	87
20) Methyl Tert Butyl Ether	4.610	73	917394	53.97	ug/Kg#	29
21) Acetonitrile	4.848	41	304988	549.13	ug/Kg	99
22) Di-isopropyl ether	5.024	45	1054843	55.04	ug/Kg	96
23) Chloroprene	5.140	53	602524	55.59	ug/Kg	97
24) 1,1-Dichloroethane	5.158	63	671529	55.98	ug/Kg	95
25) Acrylonitrile	5.194	53	520198	280.28	ug/Kg	96
26) ETBE	5.426	59	1076913	56.85	ug/Kg	93
27) Vinyl acetate	5.420	43	2670880	287.54	ug/Kg	95
28) cis-1,2-Dichloroethene	5.754	96	407664	54.11	ug/Kg	93
29) 2,2-Dichloropropane	5.870	77	293555	55.80	ug/Kg	95
30) Bromochloromethane	5.967	128	173762	54.57	ug/Kg#	83
31) Cyclohexane	6.004	84	705437	56.19	ug/Kg	91
32) Chloroform	6.040	83	650365	54.07	ug/Kg	99
33) Ethyl acetate	6.162	43	1116435	275.66	ug/Kg	94
34) Tetrahydrofuran	6.235	42	77164	52.29	ug/Kg	96
36) Carbon Tetrachloride	6.216	117	441148	52.98	ug/Kg	99

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28386.D
Acq On : 6 May 2016 3:38 pm
Operator : ericp
Sample : ICV1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 06 15:59:43 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.283	97	501303	54.27	ug/Kg	99
38) 2-Butanone	6.362	43	616707	265.27	ug/Kg	93
39) 1,1-Dichloropropene	6.417	75	525000	54.13	ug/Kg	95
40) Propionitrile	6.673	54	356391	511.34	ug/Kg	92
41) Methacrylonitrile	6.703	41	1363225	555.66	ug/Kg	93
42) Benzene	6.685	78	1489120	55.15	ug/Kg	96
43) TAME	6.800	73	971354	54.61	ug/Kg	96
45) 1,2-Dichloroethane	6.892	62	379395	50.75	ug/Kg	96
46) Trichloroethene	7.311	95	376382	53.96	ug/Kg	96
47) Methylcyclohexane	7.318	83	762708	55.32	ug/Kg	95
48) Dibromomethane	7.750	93	172075	52.08	ug/Kg	96
49) 1,2-Dichloropropane	7.841	63	345381	51.56	ug/Kg	95
50) Bromodichloromethane	7.908	83	403498	50.72	ug/Kg	99
51) Methyl methacrylate	8.054	41	171161	50.95	ug/Kg	91
52) 2-Chloroethyl vinyl ether	8.467	63	851364	278.79	ug/Kg	97
53) cis-1,3-Dichloropropene	8.546	75	528515	53.16	ug/Kg	99
56) Toluene	8.796	91	1481603	54.45	ug/Kg	97
57) 2-Nitropropane	9.003	41	273937	254.16	ug/Kg	93
58) 4-Methyl-2-pentanone	9.149	43	1150781	274.19	ug/Kg	94
59) trans-1,3-Dichloropropene	9.203	75	410175	54.24	ug/Kg	95
60) Tetrachloroethene	9.203	166	344036	54.29	ug/Kg	95
61) Ethyl methacrylate	9.343	69	307689	52.11	ug/Kg	95
62) 1,1,2-Trichloroethane	9.368	83	216748	52.12	ug/Kg	98
63) Dibromochloromethane	9.556	129	262727	52.69	ug/Kg	95
64) 1,3-Dichloropropane	9.641	76	458691	52.42	ug/Kg	99
65) 1,2-Dibromoethane	9.806	107	234948	51.71	ug/Kg	99
66) 2-hexanone	9.988	43	787408	265.35	ug/Kg	90
67) 1-Chlorohexane	10.286	91	475764	54.11	ug/Kg	90
68) Ethylbenzene	10.341	91	1562578	55.23	ug/Kg	95
69) Chlorobenzene	10.329	112	897705	53.90	ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.384	131	284494	51.56	ug/Kg	94
71) m,p-Xylene	10.487	91	2309028	113.63	ug/Kg	94
72) o-Xylene	10.919	91	1188374	54.43	ug/Kg	98
73) Styrene	10.974	104	881813	55.34	ug/Kg	97
74) Bromoform	11.010	173	139976	52.74	ug/Kg	96
75) Isopropylbenzene	11.235	105	1491123	55.88	ug/Kg	96
78) cis-1,4-Dichloro-2-butene	11.576	53	83737	51.55	ug/Kg	92
79) n-Propylbenzene	11.655	91	1737111	56.38	ug/Kg	95
80) Bromobenzene	11.649	156	323122	53.43	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.716	83	313388	50.63	ug/Kg	97
82) 1,3,5-Trimethylbenzene	11.844	105	1352872	56.84	ug/Kg	96
83) 2-Chlorotoluene	11.825	91	1191808	55.15	ug/Kg	99
84) trans-1,4-Dichloro-2-B...	11.892	53	82220	50.90	ug/Kg	95
85) 1,2,3-Trichloropropane	11.862	110	84946	51.31	ug/Kg	91
86) Cyclohexanone	11.911	55	75903	258.00	ug/Kg	96
87) 4-Chlorotoluene	11.996	91	1084195	55.26	ug/Kg	98
88) tert-Butylbenzene	12.178	91	802671	55.90	ug/Kg	95
89) 1,2,4-Trimethylbenzene	12.245	105	1290680	56.53	ug/Kg	98
90) Pentachloroethane	12.215	167	184558	53.10	ug/Kg	99
91) sec-Butylbenzene	12.361	105	1738285	57.12	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28386.D
Acq On : 6 May 2016 3:38 pm
Operator : ericp
Sample : ICV1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 06 15:59:43 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.501	119	1410318	56.75	ug/Kg	98
93) 1,3-Dichlorobenzene	12.604	146	646376	53.68	ug/Kg	99
94) 1,4-Dichlorobenzene	12.695	146	644682	52.37	ug/Kg	96
95) n-Butylbenzene	12.939	92	826498	56.79	ug/Kg	90
96) Benzyl Chloride	12.939	126	122548	53.30	ug/Kg#	74
97) 1,2-Dichlorobenzene	13.133	146	617375	54.06	ug/Kg	99
98) 1,2-Dibromo-3-Chloropr...	13.942	75	61408	54.75	ug/Kg	79
99) Hexachlorobutadiene	14.557	225	235075	53.05	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.587	180	437646	55.46	ug/Kg	97
101) Naphthalene	14.873	128	998364	57.42	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.038	180	417390	54.98	ug/Kg	96
104) Ethanol	3.570	45	61700	1014.42	ug/Kg	95
105) Acrolein	4.014	56	261494	250.91	ug/Kg	96
106) Tert butyl alcohol	4.702	59	326245	509.99	ug/Kg	96
107) Isobutyl alcohol	6.886	42	137859	971.23	ug/Kg	94
108) Tert Amyl Alcohol	6.995	59	264851	518.72	ug/Kg	96
109) 1,4-Dioxane	8.108	88	65013	1036.67	ug/Kg	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.18

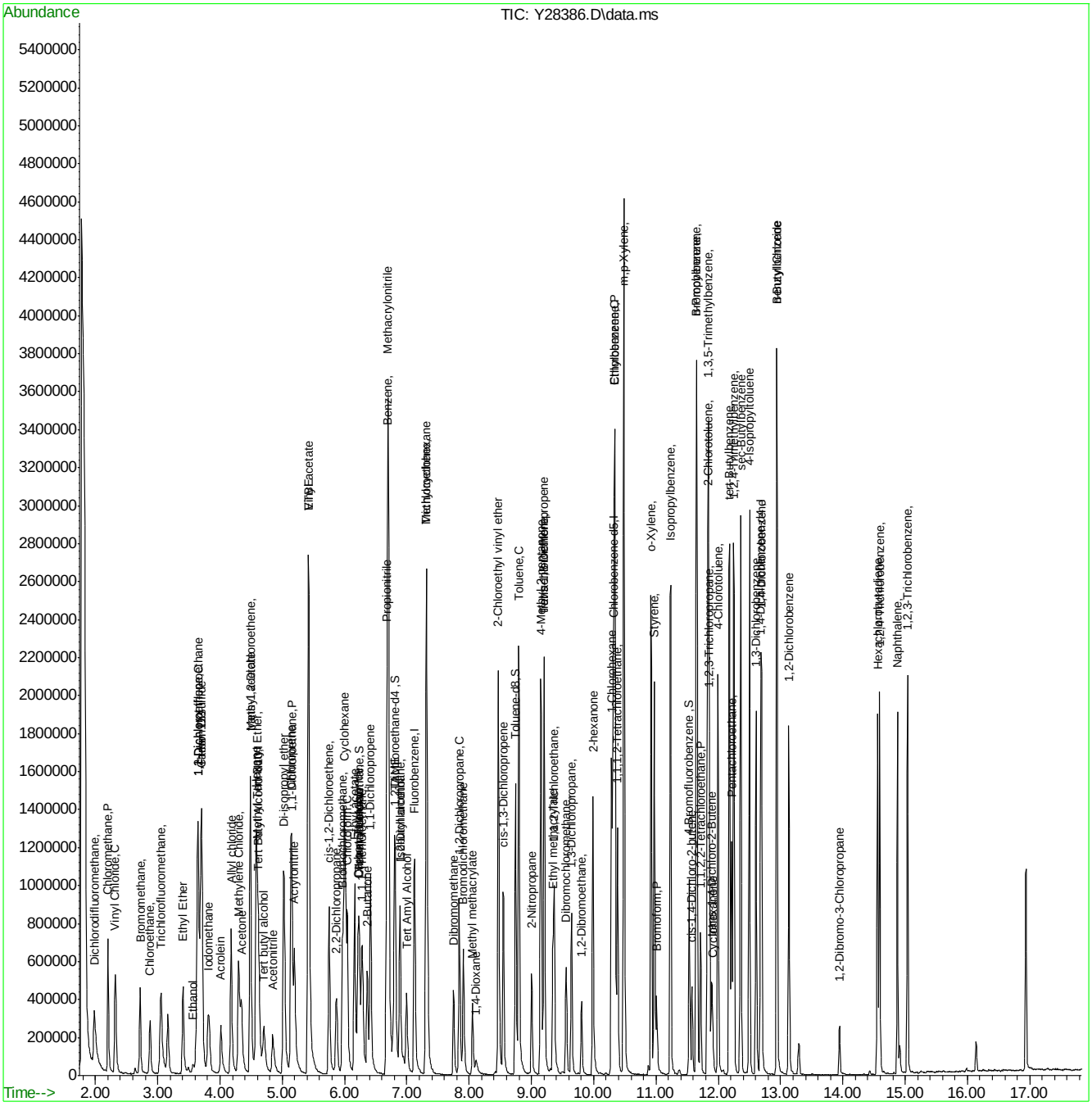
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050616\
Data File : Y28386.D
Acq On : 6 May 2016 3:38 pm
Operator : ericp
Sample : ICV1149-4 Inst : MSVOA14
Misc : MS33794,VY1149,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 06 15:59:43 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28622.D
Acq On : 17 May 2016 10:18 am
Operator : angied
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33876,VY1157,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 10:37:15 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1138952	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	762063	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	355881	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.627	65	133252	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	262168	50.00	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.00%			
44) 1,2-Dichloroethane-d4	6.817	65	275926	49.59	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.18%			
55) Toluene-d8	8.746	98	1066000	49.64	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.28%			
77) 4-Bromofluorobenzene	11.532	174	239750	49.44	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	520013	43.98	ug/Kg	100
3) Chloromethane	2.206	50	554493	46.68	ug/Kg	95
4) Vinyl Chloride	2.322	62	577065	48.34	ug/Kg	95
5) Bromomethane	2.717	94	265904	47.66	ug/Kg	96
6) Chloroethane	2.881	64	283983	48.52	ug/Kg	95
7) Trichlorofluoromethane	3.052	101	553320	49.17	ug/Kg	99
8) Ethyl Ether	3.405	59	292825	51.23	ug/Kg	98
9) 1,2-Dichlorotrifluoroe...	3.642	67	482380	49.20	ug/Kg	96
10) 1,1-Dichloroethene	3.654	61	651511	49.84	ug/Kg	96
11) Freon 113	3.709	101	415236	46.60	ug/Kg	97
12) Carbon Disulfide	3.697	76	1362048	49.85	ug/Kg	99
13) Iodomethane	3.812	142	560977	47.13	ug/Kg	97
14) Allyl chloride	4.177	41	555693	51.84	ug/Kg	96
15) Methylene Chloride	4.299	49	498306	51.72	ug/Kg	98
16) Acetone	4.341	43	489823	254.09	ug/Kg	98
17) Methyl acetate	4.487	43	932983	257.51	ug/Kg	95
18) trans-1,2-Dichloroethene	4.487	61	506849	50.24	ug/Kg	96
19) Hexane	4.585	56	329809	42.68	ug/Kg	85
20) Methyl Tert Butyl Ether	4.609	73	968397	50.54	ug/Kg#	29
21) Acetonitrile	4.846	41	318353	508.48	ug/Kg	98
22) Di-isopropyl ether	5.023	45	1134664	52.52	ug/Kg	92
23) Chloroprene	5.138	53	604916	49.51	ug/Kg	98
24) 1,1-Dichloroethane	5.157	63	684258	50.60	ug/Kg	93
25) Acrylonitrile	5.199	53	533412	254.95	ug/Kg	99
26) ETBE	5.424	59	1106150	51.80	ug/Kg	96
27) Vinyl acetate	5.418	43	2831745	270.44	ug/Kg	95
28) cis-1,2-Dichloroethene	5.753	96	406568	47.87	ug/Kg	96
29) 2,2-Dichloropropane	5.868	77	304507	51.35	ug/Kg	95
30) Bromochloromethane	5.966	128	179722	50.07	ug/Kg#	82
31) Cyclohexane	6.002	84	676021	47.76	ug/Kg	92
32) Chloroform	6.045	83	664352	48.99	ug/Kg	99
33) Ethyl acetate	6.160	43	1135745	248.76	ug/Kg	94
34) Tetrahydrofuran	6.233	42	73260	44.04	ug/Kg	88
36) Carbon Tetrachloride	6.215	117	434508	46.29	ug/Kg	99

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28622.D
Acq On : 17 May 2016 10:18 am
Operator : angied
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33876,VY1157,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 10:37:15 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	514435	49.40 ug/Kg	97
38) 2-Butanone	6.361	43	636040	242.70 ug/Kg	93
39) 1,1-Dichloropropene	6.416	75	525555	48.07 ug/Kg	96
40) Propionitrile	6.671	54	366575	466.57 ug/Kg	98
41) Methacrylonitrile	6.702	41	1373170	496.52 ug/Kg	94
42) Benzene	6.684	78	1489613	48.94 ug/Kg	95
43) TAME	6.799	73	985385	49.14 ug/Kg	96
45) 1,2-Dichloroethane	6.890	62	396721	47.07 ug/Kg	96
46) Trichloroethene	7.310	95	381261	48.49 ug/Kg	99
47) Methylcyclohexane	7.316	83	699946	45.03 ug/Kg	95
48) Dibromomethane	7.748	93	174214	46.78 ug/Kg	96
49) 1,2-Dichloropropane	7.839	63	355951	47.14 ug/Kg	93
50) Bromodichloromethane	7.906	83	430883	48.05 ug/Kg	97
51) Methyl methacrylate	8.052	41	167553	44.55 ug/Kg	82
52) 2-Chloroethyl vinyl ether	8.466	63	844463	245.31 ug/Kg	98
53) cis-1,3-Dichloropropene	8.551	75	544958	48.62 ug/Kg	98
56) Toluene	8.794	91	1482245	48.00 ug/Kg	93
57) 2-Nitropropane	9.001	41	282535	230.97 ug/Kg	94
58) 4-Methyl-2-pentanone	9.147	43	1178500	247.42 ug/Kg	94
59) trans-1,3-Dichloropropene	9.202	75	425098	49.53 ug/Kg	97
60) Tetrachloroethene	9.202	166	324951	45.18 ug/Kg	99
61) Ethyl methacrylate	9.342	69	318736	47.56 ug/Kg	95
62) 1,1,2-Trichloroethane	9.366	83	216590	45.89 ug/Kg	96
63) Dibromochloromethane	9.555	129	270957	47.88 ug/Kg	100
64) 1,3-Dichloropropane	9.640	76	469058	47.23 ug/Kg	99
65) 1,2-Dibromoethane	9.804	107	236064	45.78 ug/Kg	97
66) 2-hexanone	9.987	43	815310	242.09 ug/Kg	90
67) 1-Chlorohexane	10.285	91	450544	45.15 ug/Kg	94
68) Ethylbenzene	10.340	91	1595538	49.69 ug/Kg	96
69) Chlorobenzene	10.328	112	912290	48.27 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.382	131	295509	47.19 ug/Kg	95
71) m,p-Xylene	10.480	91	2322192	100.69 ug/Kg	97
72) o-Xylene	10.918	91	1183884	47.78 ug/Kg	99
73) Styrene	10.972	104	882236	48.78 ug/Kg	97
74) Bromoform	11.015	173	140863	46.76 ug/Kg	97
75) Isopropylbenzene	11.234	105	1475633	48.73 ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.581	53	86223	47.20 ug/Kg	89
79) n-Propylbenzene	11.654	91	1713279	49.45 ug/Kg	94
80) Bromobenzene	11.648	156	328807	48.35 ug/Kg	96
81) 1,1,2,2-Tetrachloroethane	11.715	83	324151	46.57 ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.842	105	1321510	49.38 ug/Kg	95
83) 2-Chlorotoluene	11.824	91	1179762	48.55 ug/Kg	99
84) trans-1,4-Dichloro-2-B...	11.891	53	86088	47.39 ug/Kg	92
85) 1,2,3-Trichloropropane	11.861	110	87003	46.74 ug/Kg	92
86) Cyclohexanone	11.909	55	74060	223.86 ug/Kg	95
87) 4-Chlorotoluene	11.994	91	1072234	48.60 ug/Kg	96
88) tert-Butylbenzene	12.177	91	774415	47.96 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.244	105	1279338	49.83 ug/Kg	97
90) Pentachloroethane	12.213	167	189786	48.56 ug/Kg	95
91) sec-Butylbenzene	12.359	105	1662621	48.59 ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28622.D
Acq On : 17 May 2016 10:18 am
Operator : angied
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33876,VY1157,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 10:37:15 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	1349825	48.31	ug/Kg	99
93) 1,3-Dichlorobenzene	12.603	146	640395	47.29	ug/Kg	97
94) 1,4-Dichlorobenzene	12.694	146	646350	46.69	ug/Kg	97
95) n-Butylbenzene	12.937	92	762304	46.58	ug/Kg	93
96) Benzyl Chloride	12.937	126	132861	51.39	ug/Kg#	61
97) 1,2-Dichlorobenzene	13.132	146	600364	46.75	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.941	75	61693	48.92	ug/Kg	84
99) Hexachlorobutadiene	14.556	225	217854	43.72	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.592	180	410277	46.24	ug/Kg	99
101) Naphthalene	14.872	128	949968	48.59	ug/Kg	98
102) 1,2,3-Trichlorobenzene	15.036	180	397134	46.52	ug/Kg	96
104) Ethanol	3.575	45	54462	750.85	ug/Kg	92
105) Acrolein	4.013	56	274791	221.10	ug/Kg	97
106) Tert butyl alcohol	4.706	59	341702	447.91	ug/Kg	83
107) Isobutyl alcohol	6.884	42	137442	811.96	ug/Kg	98
108) Tert Amyl Alcohol	6.994	59	253655	416.58	ug/Kg	95
109) 1,4-Dioxane	8.113	88	59683	798.03	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.19

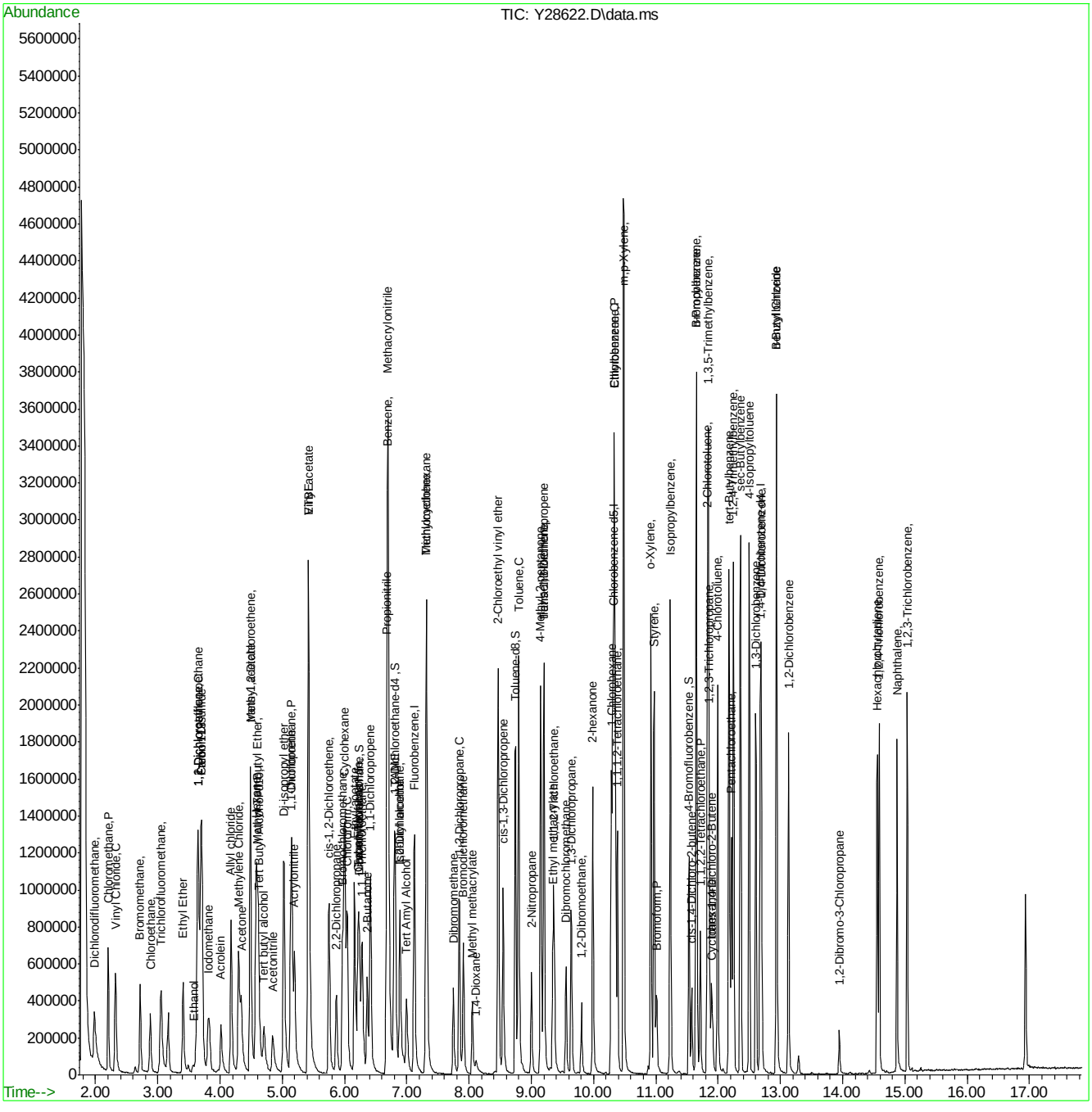
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28622.D
Acq On : 17 May 2016 10:18 am
Operator : angied
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33876,VY1157,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 10:37:15 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28646.D
Acq On : 17 May 2016 8:52 pm
Operator : angied
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS33894,VY1157,5.00,,,5,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 18 09:16:14 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.120	96	1000700	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.308	117	692873	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.675	152	310262	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.632	65	101564	250.00	ug/Kg	-0.01

System Monitoring Compounds

35) Dibromofluoromethane	6.238	113	237258	51.50	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.00%			
44) 1,2-Dichloroethane-d4	6.816	65	246352	50.39	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 100.78%			
55) Toluene-d8	8.745	98	953618	48.84	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.68%			
77) 4-Bromofluorobenzene	11.531	174	209339	49.52	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.04%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.986	85	490153	47.18	ug/Kg	96
3) Chloromethane	2.205	50	507271	48.61	ug/Kg	96
4) Vinyl Chloride	2.321	62	514828	49.09	ug/Kg	99
5) Bromomethane	2.716	94	243254	49.62	ug/Kg	98
6) Chloroethane	2.880	64	258392	50.24	ug/Kg	97
7) Trichlorofluoromethane	3.057	101	501896	50.76	ug/Kg	99
8) Ethyl Ether	3.403	59	263355	52.44	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.641	67	442218	51.33	ug/Kg	98
10) 1,1-Dichloroethene	3.653	61	589950	51.36	ug/Kg	93
11) Freon 113	3.708	101	372272	47.55	ug/Kg	98
12) Carbon Disulfide	3.695	76	1212058	50.49	ug/Kg	99
13) Iodomethane	3.811	142	519266	49.66	ug/Kg	97
14) Allyl chloride	4.176	41	495032	52.56	ug/Kg	95
15) Methylene Chloride	4.298	49	457383	54.08	ug/Kg	91
16) Acetone	4.346	43	389905	230.21	ug/Kg	98
17) Methyl acetate	4.486	43	810507	254.61	ug/Kg	95
18) trans-1,2-Dichloroethene	4.486	61	457295	51.59	ug/Kg	97
19) Hexane	4.584	56	302152	44.50	ug/Kg	90
20) Methyl Tert Butyl Ether	4.614	73	854733	50.77	ug/Kg#	25
21) Acetonitrile	4.845	41	250634	455.62	ug/Kg	95
22) Di-isopropyl ether	5.028	45	1023793	53.93	ug/Kg	91
23) Chloroprene	5.137	53	550140	51.25	ug/Kg	97
24) 1,1-Dichloroethane	5.155	63	622877	52.42	ug/Kg	98
25) Acrylonitrile	5.198	53	464651	252.76	ug/Kg	94
26) ETBE	5.429	59	1008924	53.77	ug/Kg	96
27) Vinyl acetate	5.423	43	2442607	265.50	ug/Kg	93
28) cis-1,2-Dichloroethene	5.752	96	367472	49.24	ug/Kg	98
29) 2,2-Dichloropropane	5.867	77	271883	52.18	ug/Kg	97
30) Bromochloromethane	5.965	128	162912	51.66	ug/Kg#	86
31) Cyclohexane	6.001	84	618296	49.72	ug/Kg	95
32) Chloroform	6.044	83	619155	51.97	ug/Kg	98
33) Ethyl acetate	6.159	43	982364	244.90	ug/Kg	94
34) Tetrahydrofuran	6.232	42	64038	43.82	ug/Kg	92
36) Carbon Tetrachloride	6.214	117	407727	49.44	ug/Kg	98

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28646.D
Acq On : 17 May 2016 8:52 pm
Operator : angied
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS33894,VY1157,5.00,,,5,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 18 09:16:14 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.281	97	469091	51.27 ug/Kg	94
38) 2-Butanone	6.366	43	523360	227.29 ug/Kg	97
39) 1,1-Dichloropropene	6.415	75	456577	47.53 ug/Kg	98
40) Propionitrile	6.676	54	305165	442.07 ug/Kg	71
41) Methacrylonitrile	6.707	41	1192002	490.56 ug/Kg	94
42) Benzene	6.682	78	1361477	50.91 ug/Kg	92
43) TAME	6.804	73	858827	48.75 ug/Kg	95
45) 1,2-Dichloroethane	6.889	62	365486	49.36 ug/Kg	94
46) Trichloroethene	7.309	95	325639	47.14 ug/Kg	97
47) Methylcyclohexane	7.315	83	638539	46.76 ug/Kg	97
48) Dibromomethane	7.747	93	159382	48.71 ug/Kg	98
49) 1,2-Dichloropropane	7.844	63	322190	48.57 ug/Kg	95
50) Bromodichloromethane	7.905	83	383712	48.70 ug/Kg	95
51) Methyl methacrylate	8.051	41	136892	41.56 ug/Kg	87
52) 2-Chloroethyl vinyl ether	8.471	63	759612	251.15 ug/Kg	95
53) cis-1,3-Dichloropropene	8.550	75	489774	49.74 ug/Kg	99
56) Toluene	8.793	91	1335346	47.56 ug/Kg	96
57) 2-Nitropropane	9.006	41	246267	221.43 ug/Kg	92
58) 4-Methyl-2-pentanone	9.152	43	1002950	231.59 ug/Kg	94
59) trans-1,3-Dichloropropene	9.201	75	377915	48.43 ug/Kg	97
60) Tetrachloroethene	9.201	166	296538	45.35 ug/Kg	97
61) Ethyl methacrylate	9.347	69	270970	44.47 ug/Kg	93
62) 1,1,2-Trichloroethane	9.365	83	205673	47.93 ug/Kg	94
63) Dibromochloromethane	9.560	129	242820	47.19 ug/Kg	94
64) 1,3-Dichloropropane	9.645	76	420650	46.59 ug/Kg	99
65) 1,2-Dibromoethane	9.803	107	211883	45.20 ug/Kg	98
66) 2-hexanone	9.986	43	656007	214.24 ug/Kg	95
67) 1-Chlorohexane	10.284	91	389185	42.89 ug/Kg	94
68) Ethylbenzene	10.339	91	1403657	48.08 ug/Kg	96
69) Chlorobenzene	10.326	112	799554	46.53 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.381	131	272249	47.82 ug/Kg	96
71) m,p-Xylene	10.485	91	2030373	96.83 ug/Kg	95
72) o-Xylene	10.916	91	1018437	45.21 ug/Kg	99
73) Styrene	10.971	104	768885	46.76 ug/Kg	97
74) Bromoform	11.014	173	123937	45.25 ug/Kg	96
75) Isopropylbenzene	11.233	105	1274439	46.29 ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.573	53	71575	44.95 ug/Kg	88
79) n-Propylbenzene	11.653	91	1428259	47.29 ug/Kg	97
80) Bromobenzene	11.646	156	291490	49.16 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.713	83	295154	48.64 ug/Kg	97
82) 1,3,5-Trimethylbenzene	11.841	105	1120220	48.01 ug/Kg	96
83) 2-Chlorotoluene	11.829	91	998638	47.14 ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.890	53	73882	46.65 ug/Kg	88
85) 1,2,3-Trichloropropane	11.859	110	78407	48.31 ug/Kg	93
86) Cyclohexanone	11.914	55	64078	222.17 ug/Kg	91
87) 4-Chlorotoluene	11.993	91	880393	45.77 ug/Kg	98
88) tert-Butylbenzene	12.176	91	688017	48.87 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.249	105	1044687	46.67 ug/Kg	95
90) Pentachloroethane	12.212	167	166426	48.84 ug/Kg	96
91) sec-Butylbenzene	12.358	105	1424087	47.74 ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28646.D
Acq On : 17 May 2016 8:52 pm
Operator : angied
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS33894,VY1157,5.00,,,5,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 18 09:16:14 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.498	119	1091154	44.79	ug/Kg	99
93) 1,3-Dichlorobenzene	12.608	146	516654	43.77	ug/Kg	98
94) 1,4-Dichlorobenzene	12.693	146	518906	43.00	ug/Kg	98
95) n-Butylbenzene	12.936	92	569753	39.93	ug/Kg	95
96) Benzyl Chloride	12.936	126	97839	43.41	ug/Kg#	63
97) 1,2-Dichlorobenzene	13.131	146	510900	45.64	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.940	75	50623	46.04	ug/Kg#	75
99) Hexachlorobutadiene	14.554	225	172765	39.77	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.591	180	283737	36.68	ug/Kg	96
101) Naphthalene	14.877	128	745224	43.72	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.035	180	300998	40.45	ug/Kg	95
104) Ethanol	3.574	45	50037	905.07	ug/Kg	92
105) Acrolein	4.018	56	220054	232.30	ug/Kg	96
106) Tert butyl alcohol	4.711	59	272975	469.46	ug/Kg	92
107) Isobutyl alcohol	6.895	42	115020	891.50	ug/Kg	92
108) Tert Amyl Alcohol	7.005	59	206981	445.99	ug/Kg	87
109) 1,4-Dioxane	8.118	88	42625	747.77	ug/Kg	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

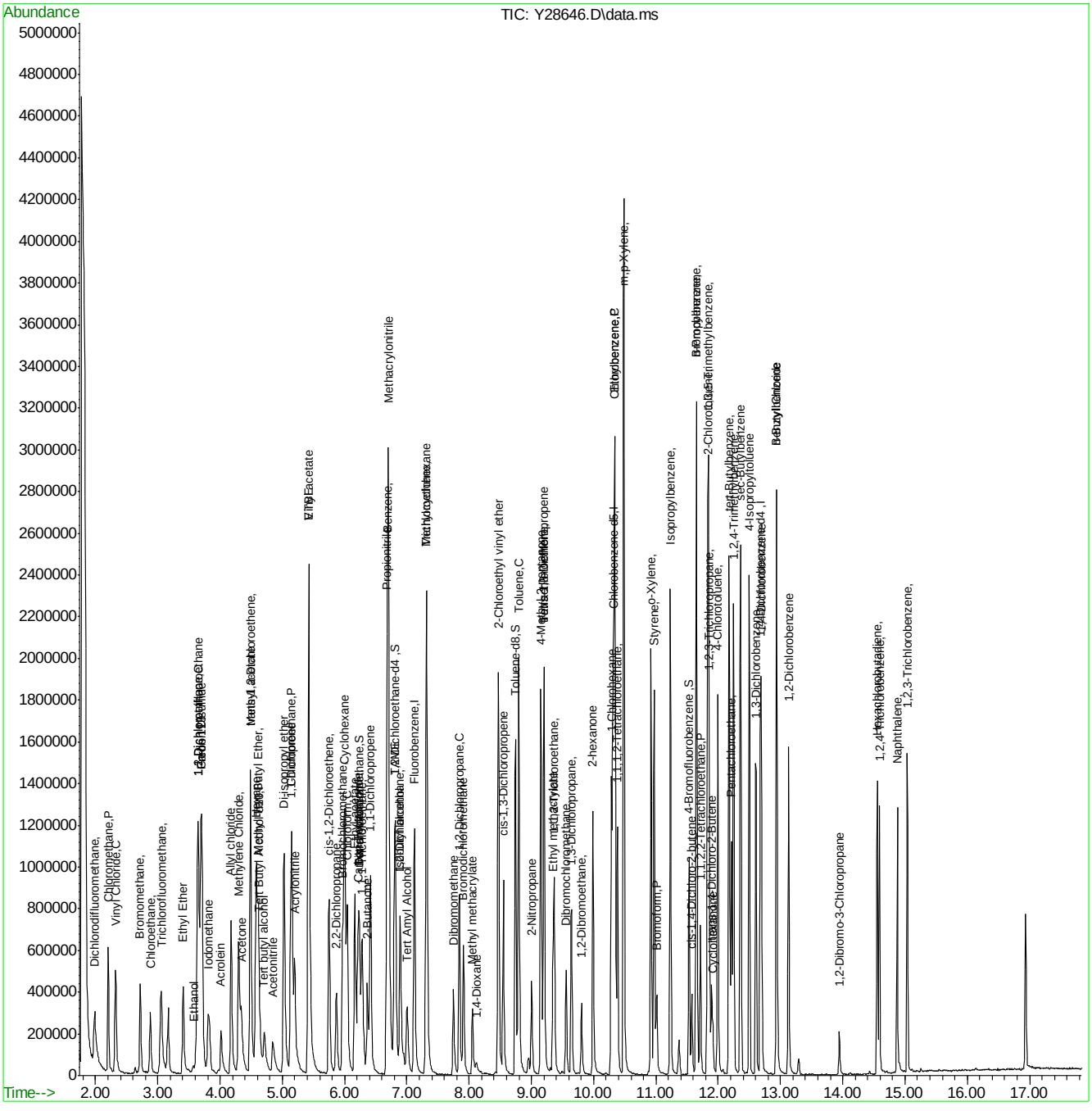
7.6.20
7

SGS ACCUTEST FA33998

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051716\
Data File : Y28646.D
Acq On : 17 May 2016 8:52 pm
Operator : angied
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS33894,VY1157,5.00,,,5,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 18 09:16:14 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



SGS ACCUTEST FA33998

ACCUTEST LABORATORIES SE

DATE:	05-12-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS505121 6.M
CALIB. DATE:	05-12-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2294207
RUN ID:	VJ5295

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171 V20190 V20164 V20173 V20172 V20191 V20156 V20189 V20191
ISTD/SURR:	V20180
ICV/QC:	V20175 V20168 V20167 V20176
Purge Volumes	5ml V20182 V20165 V20107 V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976442	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 43	BFB			1						Auto Passed
J 44	CCS237-5A			1						20ml→5ml
J 45	CCS237-5			1						↓
J 46	BFB			1						Auto Passed
J 47	ICS295-1			1		SP(8) PII(26)				0.5ml →5ml ✓
J 48	-2			2		SP(8) OP(37) PII(107)				2.5ml →5ml ✓
J 49	-3			3		SP(8) OP(37)				5ml →5ml ✓
J 50	-4			4		SP(8) OP(37) PII(107) OP 05-12-16				~~20ml~~ 12.5ml →5ml
J 51	-5			5		SP(8) OP(37) PII(107)				~~35ml~~ 20ml →5ml
J 52	-6			6		SP(8) OP(37) PII(107)				~~5ml~~ 35ml →5ml
J 53	-7			7		SP(8) OP(37) PII(107)				5ml → 5ml. ✓
J 54	BLK			8						✓
J 55	ICV 5295-5			9		SP(8) OP(37) PII(107)				25ml→5ml ✓
J 56	BS			10		SP(8) OP(37) PII(107)				12.5ml→40ml ✓
J 57	MB	↓		11			↓	↓		✓
J 58	FA33878-1MA	1		1			1	N		✓
J 59	-2MA	1		2			1			ND
J 60	-5MA	1		3			1		100x	Toluene, Xylenes ↑
J 61	-6MA	1		4			1		1X	CO
J 62	-7MA	1		5			1		1X	CO
J 63	-1MSMA	2		6		SP(8) OP(37) PII(107)	1			12.5ml →40ml
J 64	-1MSDMA	2		6		SP(8) OP(37) PII(107)	1	↓		↓
J 65	FCCS295-5	–	↓	7	↓	SP(8) OP(37) PII(107)	–	–		20ml →5ml.
J										
J						05-13-16 OP				
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-17-16
COLUMN TYPE:	Rtx-Vms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS5051216A.m
CALIB. DATE:	05-12-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	212.3813
RUN ID:	VJ 5301/5302

STANDARDS

BFB:	V20180
ICAL/CCV:	V20209 V20190 V20208 V20196 V20200 V20173 V20156 V20189
ISTD/SURR:	V20180
ICV/QC:	V20193 V20168 V20176 V20182
Purge Volumes:	V20167 V20165 V20107 V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 0976553	Blk	N/A	W	1	8260		N/A	N/A		✓
J 54	BFB			1						Auto Passed
J 55	CC5295-5			1		SP(8) OP(37) PII(107)				20ml→50ml
J 56	BS			1		wrong prep				12.5ml→40ml
J 57	MB			2		~~SP(8) OP(37)~~ DP 05-16-16				✓ NO
J 58	BS			3		SP(8) OP(37)				12.5ml→40ml
J 59	FA33776-1	2		1			1	N		✓
J 60	-2	2		2		OP(32)	1			✓
J 61	-3	2		3		OP(32)	1			✓
J 62	-4	2		4		OP(32)	1		2X	TCE↑
J 63	-5	2		5			1			✓
J 64	-6	2		6		PII(97)	1			✓
J 65	-7, 10X	2		7		5ml→50ml	1			✓
J 66	-8, 2X	2		8		25ml→50ml	1			✓
J 67	-9	2		9			1			✓
J 68	-10, 5X	2		10		10ml→50ml	1			✓
J 69	-11, 5X	2		11		↓	1			✓
J 70	-12, 10X	2		12		5ml→50ml	1			✓
J 71	-13, 100X	2		13		0.5ml→50ml	1		250X	TCE↑
J 72	-14, 2X	2		14		25ml→50ml	4		1X	CO
J 73	-15	2		15			1			ND
J 74	-16	2		16			1			✓
J 75	FA33879-4	1		17			1			✓
J 76	FA33998-1 mA	1		18		PII(10)	1			✓
J 77	-3 mA	1		19			1			ND
J 78	-4 mA	1		20			1			ND
J 79	-1MS mA	2		21		SP(8) OP(37)	1			12.5ml→40ml ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-17-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ05121 6A.m
CALIB. DATE:	05-12-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	2123813
RUN ID:	VJ5301 / 5302

STANDARDS

BFB:	V20180
ICAL/CCV:	V20209 V20190 V20208 V20196 V20200 V20173 V20156 V20189
ISTD/SURR:	V20180
ICV/QC:	V20193 V20168 V20176 V20182
Purge Volume	5.0mL V20167 V20165 V20107 V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
	DP 05-17-16									
J 80	~~FA33998~~ FA33998-1MSD	2	L/Lo	21	8260	MA SP(8) OP(37) PII(107)	1	N		12.5mL/240mL
J 81	FA33776-1 MS	3		22		SP(8) OP(37) PII(107)	1			
J 82	-1MSD	3		22		SP(8) OP(37) PII(107)	1			
J 83	ECC5295-5	–		23		SP(8) OP(37) PII(107)	–	–		20mL/50mL

DP 05-18-16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-17-16
COLUMN TYPE:	Rtx-Vms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS5051216A.m
CALIB. DATE:	05-12-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	212.3813
RUN ID:	VJ 5301/5302

STANDARDS

BFB:	V20180
ICAL/CCV:	V20209 V20190 V20208 V20196 V20200 V20173 V20156 V20189
ISTD/SURR:	V20180
ICV/QC:	V20193 V20168 V20176 V20182
Purge Volumes	V20167 V20165 V20107 V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 0976553	Blk	N/A	Wpo	1	8260		N/A	N/A		✓
J 54	BFB			1						Auto Passed
J 55	CC5295-5			1		SP(8) OP(37) PII(407)				20ml→50ml
J 56	BS			1		wrong prep.				12.5ml→40ml
J 57	MB			2		~~SP(8) OP(37)~~ DP05-16-16				✓ NO
J 58	BS			3		SP(8) OP(37)				12.5ml→40ml
J 59	FA33776-1	2		1			1	N		✓
J 60	-2	2		2		OP(32)	1			✓
J 61	-3	2		3		OP(32)	1			✓
J 62	-4	2		4		OP(32)	1		2X	TCE↑
J 63	-5	2		5			1			✓
J 64	-6	2		6		PII(97)	1			✓
J 65	-7, 10X	2		7		5ml→50ml	1			✓
J 66	-8, 2X	2		8		25ml→50ml	1			✓
J 67	-9	2		9			1			✓
J 68	-10, 5X	2		10		10ml→50ml	1			✓
J 69	-11, 5X	2		11		↓	1			✓
J 70	-12, 10X	2		12		5ml→50ml	1			✓
J 71	-13, 100X	2		13		0.5ml→50ml	1		250X	TCE↑
J 72	-14, 2X	2		14		25ml→50ml	4		1X	CO
J 73	-15	2		15			1			NO
J 74	-16	2		16			1			✓
J 75	FA33879-4	1		17			1			✓
J 76	FA33998-1 mA	1		18		PII(10)	1			✓
J 77	-3 mA	1		19			1			NO
J 78	-4 mA	1		20			1			NO
J 79	-1MS mA	2		21		SP(8) OP(37)	1			12.5ml→40ml ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-12-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ05121 6A.m
CALIB. DATE:	05-12-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	21123813
RUN ID:	VJ5301 / 5302

STANDARDS

BFB:	V20180
ICAL/CCV:	V20209 V20190 V20208 V20196 V20200 V20173 V20156 V20189
ISTD/SURR:	V20180
ICV/QC:	V20193 V20168 V20176 V20182
Purge Volumes:	V20167 V20165 V20107 V20121

	DATA FILE	SAMPLE ID, DIL. DP 05-17-16	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
J	80	~~FA33998~~ FA33998-1MSD	2	Liq	21	8260	MA SP(8) OP(37) PII(107)	1	N		12.5ml→40ml
J	81	FA33776-1 MS	3	↓	22	↓	SP(8) OP(37) PII(107)	1	↓		↓
J	82	-1MSD	3	↓	22	↓	SP(8) OP(37) PII(107)	1	↓		↓
J	83	ECC5295-5	–	↓	23	↓	SP(8) OP(37) PII(107)	–	–		20ml→50ml
J											
J											
J										

ACCUTEST LABORATORIES SE

DATE:	5-6-16
COLUMN TYPE:	RTX Vm 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20
ANALYST:	S

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050616AMS-Y
CALIB. DATE:	05-06-16
EM VOLTAGE:	1953
BFB RESPONSE:	401679
RUN ID:	VY 1149

STANDARDS

A	BFB:	.BFB: V20120
	ICAL/CCV:	.ICAL/CCV: V20149,V20159,V20151, .V20147,V20145,V20143
	ISTD/SURR:	.ISTD/SURR: V20161
B	ICV/QC:	.ICV/QC: V20150,V20160,V20152, .V20148,V20146,V20144
	STD B = 250 AMA = 75ml MeH 24ml	
	METHANOL LOT #:	157266

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
										STDA=25 AMA=60 MeH/24ml
Y 28375-	BFB	—	—	—	—	5	—		—	USE CCAQS BFB
Y 76	CC 1133-4	—	—	—	—	6	—		Rm	1ml STDA 15ml
Y 77	CC1133-4A, BFB	—	—	—	—	7	—		TOXL	1ml STDA 15ml AVG PASS
Y 78	IC1149-1	—	—	—	—	8	—		—	0.1ml
Y 79	IC1149-2	—	—	—	—	9	—	104 sp	—	0.2ml
Y 80	IC1149-3	—	—	—	—	10	—	104 sp	—	0.4ml
Y 81	ICC1149-4	—	—	—	—	11	—		—	1ml
Y 82	IC1149-5	—	—	—	—	12	—		—	2ml
Y 83	IC1149-6	—	—	—	—	13	—		—	3ml
Y 84	IC1149-7	—	—	—	—	14	—		—	4ml
Y 85	Blank	—	—	—	—	15	—		—	
Y 86	ICV1149-1	—	—	—	—	16	—		—	1ml STD B 15ml
Y 87	BS	—	—	—	—	17	—		—	
Y 88	MB	—	—	—	10	18	—		—	
33794 Y 89	FA33669-1, 50x	B1747	S	7.21	100	19	PT		—	
Y 90	-3	B1750	S	6.53	—	20	PT		—	
Y 91	-3, 50x	B1753	S	6.94	100	21	PT		EC	
Y 92	-4	B1756	S	5.00	—	22	PT		—	
Y 93	FA33670-1	B1759	S	4.02	—	23	PT	MeHSO4	—	
Y 94	-3, 50x	B1771	S	4.85	10	24	PT	Report Neg from this Run	EC	50ml Methanol
33812 Y 95	FA33731-11	B1826	S	4.13	—	25	PT	MeHSO4	Rm	1X, 50X SS4T, JS3L
Y 96	-12	B1829	S	4.61	—	26	PT		—	
Y 97	-13	B1832	S	4.21	—	27	PT		—	
Y 98	-14	B1835	S	4.98	—	28	PT		—	
Y 99	-15, JB	B1838	S	5.00	—	29	PT		—	
Y 400	FA33727-1	B1840	S	4.50	—	30	5030A		—	
Y 01	-1MS	—	S	4.02	—	31	—		—	1ml STD Bad Lot

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa14_y_log.xls NF 09/11

ACCUTEST LABORATORIES SE

DATE:	5-6-16
COLUMN TYPE:	RTX Vm 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20
ANALYST:	[illegible]

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	05060APPS-4
CALIB. DATE:	05-06-16
EM VOLTAGE:	1953
BFB RESPONSE:	1401679
RUN ID:	VY 1149

STANDARDS

A	BFB:	.BFB: V20120
	ICAL/CCV:	.ICAL/CCV: V20149,V20159,V20151, .V20147,V20145,V20143
	ISTD/SURR:	.ISTD/SURR: V20161
B	ICV/QC:	.ICV/QC: V20150,V20160,V20152, .V20148,V20146,V20144,
	STD B=250 ppm=~~[illegible]~~ 75 ug/ml 24hrs	
	METHANOL LOT #:	157264

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
Y 28402	FA33727-1MSD	—	S	4.10	—	32	—		—	STD A=250 ppm=[illegible] 1ml STD B added
Y 03	ECC1149-4	—	—	—	—	33	—		—	1ml STD A/Sed
Y 04	Cond Run	—	—	—	—	1	—		—	see VY1150
Y 05		—	—	—	—	2	—		—	
Y 06		—	—	—	—	3	—		—	
Y 07		—	—	—	—	4	—		—	
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5-7-16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [illegible]

msvoa14_y_log.xls NF 09/11

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1742	FA33666-1	W (AC2481)	—	—	4.89	05/05/16	11:47	SICM	50304	IN
43	-1	W	—	—	4.51					
44	-1	M (AC2456)	—	—	4.63		11:51			
45	FA33669-1	W	30.56	38.10	7.54	05/05/16	12:18	SICM	PT	IN frozen @10:05
46	-1	W	30.50	37.43	6.93					
47	-1	M	29.50	36.71	7.21					
48	-1	M	29.29	36.69	7.40					
49	-2	M	29.48	36.90	7.42					
50	-3	W	30.78	37.31	6.53					
51	-3	W	30.62	37.20	6.58					
52	-3	M	29.50	36.46	6.96					
53	-3	M	29.62	36.56	6.94					
54	-4	W	30.97	30.97	0.00					TB
55	-4	W	30.79	30.81	0.02					
56	-4	M	29.57	29.56	-0.01					
57	-5	M	29.28	29.22	-0.06					
58	-5	M	29.42	29.40	-0.02		12:30			
59	FA33670-1	W (NaHSO4)	31.50	35.52	4.02	05/05/16	13:49	SICM	PT	IN
60	-1	W	31.59	35.47	3.88					
61	-1	M	29.84	33.55	3.71					
62	-1	M	29.64	33.65	4.01					
63	-1	M	29.55	33.33	3.78					
B1764	-2	W (NaHSO4)	31.47	35.51	4.04		13:54			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1765	FA33670-2	W (NaHSO4)	31.48	35.60	4.12	05/05/16	13:55	DKM	PT	IN
66	-2	M	29.69	33.10	3.41					
67	-2	M	29.72	33.67	3.95					
68	-2	M	29.51	33.31	3.80					
69	-3	W (NaHSO4)	31.20	34.02	2.82					
70	-3	W ↓	31.08	35.61	4.53					
71	-3	M	29.50	34.35	4.85					
72	-3	M	30.14	35.67	5.53					
73	-3	M	29.71	33.02	3.31					
74	FA33683-1	W (NaHSO4)	31.63	38.14	6.51		14:04			
75	-1	W ↓	31.60	38.04	6.44					
76	-1	M	29.76	35.84	6.08					
77	-1	M	29.90	36.13	6.23					
78	-1	M	29.80	36.12	6.32					
79	-1	M	29.60	36.06	6.46					
80	-1	M	29.56	35.95	6.39					
81	-2	W (NaHSO4)	31.44	37.47	6.03					
82	-2	W ↓	31.57	37.40	5.83					
83	-2	M	29.54	35.61	6.07					
84	-2	M	29.77	35.82	6.05					
85	-2	M	29.74	36.19	6.45					
86	-2	M	29.55	35.74	6.19					
B1787	-2	M	29.78	36.58	6.80		14:20			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1811	FA33728 -4	W	31.07	37.54	6.47	05/06/16	10:56	CG	PT	IN
12	-4	M	29.71	36.29	6.58					
13	-5	W	30.79	37.67	6.88					
14	-5	W	30.82	37.25	6.43					
15	-5	M	29.86	36.42	6.56					
16	-6	W	30.78	38.02	7.24					
17	-6	W	30.79	37.63	6.84					
18	-6	M	29.96	37.71	7.75		1102			preserved
19	FA 33730 -1	W (NaHSO4)	31.52	34.97	3.45		1109			
20	-1	W ↓	31.54	34.64	3.10					
21	-1	M	29.76	32.78	3.02					
22	-2	W (NaHSO4)	31.18	35.16	3.98					
23	-2	W ↓	31.14	34.85	3.71					
24	-2	M	29.72	33.12	3.40		1114			preserved
25	FA 33731 -11	W (NaHSO4)	31.60	35.97	4.37		1217			
26	-11	W ↓	31.59	35.72	4.13					
27	-11	M	29.79	33.74	3.95					
28	-12	W (NaHSO4)	31.44	36.05	4.61					
29	-12	W ↓	31.50	36.23	4.73					
30	-12	M	29.78	34.02	4.24					
31	-13	W (NaHSO4)	31.00	35.03	4.03					
32	-13	W ↓	31.08	35.29	4.21					
B1833	-13	M	29.80	33.85	4.05		1222			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1834	FA33731-14	W (NaHSO4)	31.54	36.33	4.79	05/06/16	1223	CG	PT	IN preserved
35	-14	W ↓	31.50	36.48	4.98					
36	-14	M	29.64	34.61	4.97					
37	-15	W (NaHSO4)	31.63	31.66	0.03					TB
38	-15	W ↓	31.75	31.78	+0.03					
39	-15	M	29.84	29.81	-0.03		1229			
40	FA33727-1	W (PC2481)	—	—	4.50		1237		5030A	IN bot #1 prep
41	-1	W ↓	—	—	5.04					
42	-1	M (PC2456)	—	—	4.93					
43	-2	W	—	—	4.04		1241			
44	-2	W	—	—	4.13					
45	-2	M	—	—	4.13					
46	-3	W	—	—	4.28		1246			
47	-3	W	—	—	4.31					
48	-3	M	—	—	4.00					
49	-4	W	—	—	4.75		1252			
50	-4	W	—	—	4.44					
51	-4	M	—	—	4.28					
52	-5	W	—	—	5.10		1256			
53	-5	W	—	—	4.04					
54	-5	M	—	—	4.01					
55	-6	W	—	—	5.14		1258			
B1856	-6	W	—	—	4.38		1259			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

SGS ACCUTEST FA33998

ACCUTEST LABORATORIES SE

DATE:	5/17/16
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20 PSI
ANALYST:	AD

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050616APP9-Y
CALIB. DATE:	5/6/16
EM VOLTAGE:	1988
BFB RESPONSE:	13792603
RUN ID:	VY 1157/58

STANDARDS

A	BFB:	.BFB: V20120
	ICAL/CCV:	.ICAL/CCV: V20197,V20159,V20151, .V20147,V20145,V20143
	ISTD/SURR:	.ISTD/SURR: V20161
B	ICV/QC:	.ICV/QC: V20198,V20160,V20152, .V20148,V20146,V20144 AD
	STD A=250ppm=60,1 each/24ml	
	METHANOL LOT #:	157226

	DATA FILE AD 5/17/16	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STD B=250ppm=75,1each/24ml
Y	285617-20	Cond. Run	–	–	–	–	1-4	–		–	
Y	21	BFB	–	–	–	–	5	–		–	Avg. passed
Y	22	CC1149-4	–	–	–	–	6	–		–	1ml STD A/5ml
Y	23	BS	–	–	–	–	7	–		–	1ml STD B/5ml
Y	24	MB	–	–	–	100	8	–		–	
33894 Y	25	FA33988-6	B2501	S	-0.03	–	9	PT	Bridge Blank	–	
Y	26	-7	B2503	S	-0.03	–	10	PT		–	
Y	27	-8	B2505	S	-0.07	–	11	PT		–	
Y	28	-9	B2507	S	0.00	–	12	PT		–	
Y	29	FA33993-1	B2509	S	5.83	–	13	PT		–	
Y	30	-2	B2512	S	6.70	–	14	PT		–	
Y	31	-3	B2515	S	6.46	–	15	PT		–	
Y	32	-4	B2519	S	7.55	–	16	PT		–	
Y	33	FA33999-1	B2521	S	4.17	–	17	5030A		RR	ISTD 3↓ dump
Y	34	-1ms	–	S	4.12	–	18	–		–	1ml STD B added
Y	35	-1msd	–	S	4.11	–	19	–		–	" "
33901 Y	36	FA33998-2	B2524	S	5.47	–	20	EN	FS 8260C VY1158	–	
Y	37	-2 50x	B2526	S	6.17	100	21	EN		–	dump
Y	38	-2ms	–	S	4.14	–	22	–		–	1ml STD B added
Y	39	-2msd	–	S	4.20	–	23	–		–	" "
33894 Y	40	FA33999-1	B2522	S	4.32	–	24	5030A		–	
Y	41	FA33683-1	B1774	S	6.51	–	25	PT	Not logged in	–	
Y	42	-2	B1782	S	5.83	–	26	PT		–	
Y	43	FA33730-1	B1820	S	3.10	–	27	PT	AD 5/18/16	RR	1x 500X +50X SS3+4↑, ISTD3↓
Y	44	-2	B1822	S	3.98	–	28	PT		RR	1x 500X+50X SS4↑, ISTD3↓
Y	45	FA33962-2	B2442	S	4.21	–	29	PT		–	
Y	46	ECC1149-4	–	–	–	–	30	–		–	1ml STD A/5ml

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa14_y_log.xls NF 09/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2501	FA33988-6	W 30.92	30.89	-0.03		5/16/16	14:56	AH	PT	IN
02	-6	W 30.93	30.87	-0.06						
03	5/16/16 AH -7	~~30.81~~ W	~~30.76~~ 30.81	30.78	-0.03					
04	AH 5/16/16 -7	W	30.93	30.89	-0.04					
05	-8	W	30.99	30.92	-0.07					
06	-8	W	30.97	30.92	-0.05					
07	-9	W	30.80	30.80	0.00					
08	-9	W	31.01	31.00	-0.01		1507			
09	FA33993-1	W	30.74	36.57	5.83	5/17/16	1041	CG	PT	IN
10	-1	W	30.90	36.84	5.94					
11	-1	M	29.66	34.96	5.30					
12	-2	W	30.79	37.49	6.70					
13	-2	W	30.73	37.05	6.32					
14	-2	M	29.74	36.60	6.86					
15	-3	W	30.61	37.07	6.46					
16	-3	W	31.01	37.36	6.35					
17	-3	M	29.69	36.06	6.37					
18	-4	W	30.80	38.95	8.15					
19	-4	W	30.78	38.33	7.55					
20	-4	M	29.59	36.01	6.42		10:49			
21	FA33999-1	W (AC2481)	—	—	4.17		1105		5030A	IN bot 1 prep
22	-1	W	—	—	4.32					
B2523	-1	M (AC2480)	—	—	4.35		1110			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1765	FA33670-2	W (NaHSO4)	31.48	35.60	4.12	05/06/16	13:55	DKM	PT	IN
66	-2	M	29.69	33.10	3.41					
67	-2	M	29.72	33.67	3.95					
68	-2	M	29.51	33.31	3.80					
69	-3	W (NaHSO4)	31.20	34.02	2.82					
70	-3	W ↓	31.08	35.61	4.53					
71	-3	M	29.50	34.35	4.85					
72	-3	M	30.14	35.67	5.53					
73	-3	M	29.71	33.02	3.31		↓			
74	FA33683-1	W (NaHSO4)	31.63	38.14	6.51		14:04			
75	-1	W ↓	31.60	38.04	6.44					
76	-1	M	29.76	35.84	6.08					
77	-1	M	29.90	36.13	6.23					
78	-1	M	29.80	36.12	6.32					
79	-1	M	29.60	36.06	6.46					
80	-1	M	29.56	35.95	6.39					
81	-2	W (NaHSO4)	31.44	37.47	6.03					
82	-2	W ↓	31.57	37.40	5.83					
83	-2	M	29.54	35.61	6.07					
84	-2	M	29.77	35.82	6.05					
85	-2	M	29.74	36.19	6.45					
86	-2	M	29.55	35.74	6.19		↓			
B17 87	-2	M	29.78	36.58	6.80	↓	14:20	↓	↓	↓

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1811	FA33728 -4	W	31.07	37.54	6.47	05/06/16	10:56	CG	PT	IN
12	-4	M	29.71	36.29	6.58					
13	-5	W	30.79	37.67	6.88					
14	-5	W	30.82	37.25	6.43					
15	-5	M	29.86	36.42	6.56					
16	-6	W	30.78	38.02	7.24					
17	-6	W	30.79	37.63	6.84					
18	-6	M	29.96	37.71	7.75		1102			preserved
19	FA 33730 -1	W (NaHSO4)	31.52	34.97	3.45		1109			
20	-1	W ↓	31.54	34.64	3.10					
21	-1	M	29.76	32.78	3.02					
22	-2	W (NaHSO4)	31.18	35.16	3.98					
23	-2	W ↓	31.14	34.85	3.71					
24	-2	M	29.72	33.12	3.40		1114			preserved
25	FA33731-11	W (NaHSO4)	31.60	35.97	4.37		1217			
26	-11	W ↓	31.59	35.72	4.13					
27	-11	M	29.79	33.74	3.95					
28	-12	W (NaHSO4)	31.44	36.05	4.61					
29	-12	W ↓	31.50	36.23	4.73					
30	-12	M	29.78	34.02	4.24					
31	-13	W (NaHSO4)	31.00	35.03	4.03					
32	-13	W ↓	31.08	35.29	4.21					
B1833	-13	M	29.80	33.85	4.05		1222			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VY1157 page 4 of 5

SGS ACCUTEST FA33998

316 of 321

7.7.5 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2432	FA33960-2	M	29.70	35.10	5.40	05/14/16	11:57	JKM	PT	IN
33	FA33964-1	M	29.75	35.49	5.74		12:05	JKM	PT	IN
34	-2	W	30.97	37.02	6.05					
35	-2	W	31.01	36.86	5.85					
36	-2	M	29.70	35.50	5.80					
37	-2	M	29.72	35.23	5.51					
38	-3	M	29.83	35.55	5.72					
39	FA33962-1	M	29.91	35.56	5.65		12:32			
40	-1	M	29.72	34.85	5.13					
41	-2	W (NaHSO4)	31.61	37.23	5.62					
42	-2	W	31.61	35.82	4.21					
43	-2	M	29.78	34.75	4.97					
44	-2	M	29.72	32.33	2.61					low liquid
45	-2	M	29.71	35.05	5.34					
46	-2	M	29.81	34.56	4.75					
47	-2	M JKM 05/04/16	~~34.08~~	34.08	4.35					29.73
48	-3	~~W~~ M	29.89	35.33	5.44					
49	-3	M	29.70	34.16	4.46					
50	-3	M	29.76	32.77	3.01					
51	-3	M	29.89	34.82	4.93					
52	-4	M	29.69	34.67	5.08					
53	-4	M	29.53	34.80	5.27					
B2454	-5	W (NaHSO4)	31.63	33.38	1.75		12:48			leaked

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	5/17/16
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20 PSI
ANALYST:	AD

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050616APP9-Y
CALIB. DATE:	5/6/16
EM VOLTAGE:	1988
BFB RESPONSE:	13792.63
RUN ID:	VY 1157/58

STANDARDS

A	BFB:	.BFB: V20120
	ICAL/CCV:	.ICAL/CCV: V20197,V20159,V20151, .V20147,V20145,V20143
	ISTD/SURR:	.ISTD/SURR: V20161
B	ICV/QC:	.ICV/QC: V20198,V20160,V20152, .V20148,V20146,V20144
	STD A=250ppm=60,2 each/24ml	AD
	METHANOL LOT #:	157226

	DATA FILE (AD 5/17/16)	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STD B=250ppm=75,1each/24ml
Y	285617-20	Cond. Run	—	—	—	—	1-4	—		—	
Y	21	BFB	—	—	—	—	5	—		—	Avg. passed
Y	22	CC1149-4	—	—	—	—	6	—		—	1ml STD A/5ml
Y	23	BS	—	—	—	—	7	—		—	1ml STD B/5ml
Y	24	MB	—	—	—	100	8	—		—	
33894 Y	25	FA33988-6	B2501	S	-0.03	—	9	PT	Bridge Blank	—	
Y	26	-7	B2503	S	-0.03	—	10	PT		—	
Y	27	-8	B2505	S	-0.07	—	11	PT		—	
Y	28	-9	B2507	S	0.00	—	12	PT		—	
Y	29	FA33993-1	B2509	S	5.83	—	13	PT		—	
Y	30	-2	B2512	S	6.70	—	14	PT		—	
Y	31	-3	B2515	S	6.46	—	15	PT		—	
Y	32	-4	B2519	S	7.55	—	16	PT		—	
Y	33	FA33999-1	B2521	S	4.17	—	17	5030A	/N	RR	ISTD 3↓ dump
Y	34	-1ms	—	S	4.12	—	18	—		—	1ml STD B added
Y	35	-1msD	—	S	4.11	—	19	—		—	" "
33901 Y	36	FA33998-2	B2524	S	5.47	—	20	EN	FS 8260C VY1158	—	
Y	37	-2,50x	B2526	S	6.17	100	21	EN		—	dump
Y	38	-2ms	—	S	4.14	—	22	—		—	1ml STD B added
Y	39	-2msD	—	S	4.20	—	23	—		—	" "
33894 Y	40	FA33999-1	B2522	S	4.32	—	24	5030A		—	
Y	41	FA33683-1	B1774	S	6.51	—	25	PT	NaHSO4 Not logged in	—	
Y	42	-2	B1782	S	5.83	—	26	PT		—	
Y	43	FA33730-1	B1820	S	3.10	—	27	PT	AD 5/18/16	RR	1x 500x +50x SS3+4↑, ISTD3↓
Y	44	-2	B1822	S	3.98	—	28	PT		RR	1x 500x+50x SS4↑, ISTD3↓
Y	45	FA33962-2	B2442	S	4.21	—	29	PT		—	
Y	46	ECC1149-4	—	—	—	—	30	—		—	1ml STD A/5ml

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa14_y_log.xls NF 09/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2524	FA33998-2	W (AC2481)	—	—	5.47	5/17/16	1113	CG	EN	IN, FS, S/O
25	-2	W ↓	—	—	5.86		↓		↓	↓
26	-2	M (AC2480)	—	—	6.17		1119		↓	↓ P
27	FA34000-1	W	30.88	38.70	7.82		1143		PT	IN
28	-1	W	31.09	38.60	7.51					
29	-1	M	29.89	38.02	8.13					
30	-2	W	31.03	38.20	7.17					
31	-2	W	31.07	38.06	6.99					
32	-2	M	29.92	37.00	7.08					
33	-3	W	31.08	38.12	7.04					
34	-3	W	31.12	37.93	6.81					
35	-3	M	29.87	36.36	6.49					
36	-4	W	31.03	37.98	6.95					
37	-4	W	31.06	37.86	6.80		↓			
38	-4	M	29.95	36.72	6.77	↓	1150	↓	↓	↓
39	FA34018-1	W	30.83	34.33	3.50	05-18-16	0914	CG	PT	IN
40	-1	W	31.02	34.57	3.55					
41	-1	M	29.73	33.11	3.38					
42	-2	W	30.93	34.08	3.15					
43	-2	W	30.93	33.92	2.99					
44	-2	M	29.83	32.84	3.01					
45	-3	W	31.12	34.91	3.79		↓			
B2546	-3	W	31.19	34.99	3.80	↓	0919	↓	↓	↓

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA33998
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: FA33998-2 **Analyzed:** 18-MAY-16 by JL **Method:** SM19 2540G
ClientID: RA3 (3-4)

Wet Weight (Total)	14.17	g
Tare Weight	1.05	g
Dry Weight (Total)	11.45	g
Solids, Percent	79.3	%